This is an R HTML document. When you click the **Knit HTML** button a web page will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
install.packages("dplyr")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 3.6.3
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
install.packages('ggplot2')
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 3.6.3
```

```
install.packages('corrplot')
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(corrplot)
```

```
## Warning: package 'corrplot' was built under R version 3.6.3
```

```
## corrplot 0.84 loaded
```

```
install.packages('factoextra')
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(factoextra)
```

```
## Warning: package 'factoextra' was built under R version 3.6.3
```

```
## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
```

```
install.packages("fpp2")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(fpp2)
```

```
## Warning: package 'fpp2' was built under R version 3.6.3
```

```
## Loading required package: forecast
```

```
## Warning: package 'forecast' was built under R version 3.6.3
```

```
## Registered S3 method overwritten by 'quantmod':
##   method            from
##   as.zoo.data.frame zoo
```

```
## Loading required package: fma
```

```
## Warning: package 'fma' was built under R version 3.6.2
```

```
## Loading required package: expsmooth
```

```
install.packages("stringr")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(stringr)
```

```
## Warning: package 'stringr' was built under R version 3.6.3
```

```
install.packages("knitr")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(knitr)

install.packages("tidyverse")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
install.packages("choroplethr")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
install.packages("choroplethrMaps")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(choroplethr)
```

```
## Warning: package 'choroplethr' was built under R version 3.6.3
```

```
## Loading required package: acs
```

```
## Warning: package 'acs' was built under R version 3.6.2
```

```
## Loading required package: XML
```

```
## Warning: package 'XML' was built under R version 3.6.2
```

```
##
## Attaching package: 'acs'
```

```
## The following object is masked from 'package:dplyr':
##
##     combine
```

```
## The following object is masked from 'package:base':
##
##     apply
```

```
library(choroplethrMaps)
```

```
## Warning: package 'choroplethrMaps' was built under R version 3.6.3
```

```
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 3.6.3
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --
```

```
## v tibble  2.1.3     v purrr   0.3.3
## v tidyr   1.0.2     v forcats 0.5.0
## v readr   1.3.1
```

```
## Warning: package 'tidyr' was built under R version 3.6.2
```

```
## Warning: package 'purrr' was built under R version 3.6.2
```

```
## Warning: package 'forcats' was built under R version 3.6.3
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x acs::combine()  masks dplyr::combine()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
install.packages('tm')
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(tm)
```

```
## Warning: package 'tm' was built under R version 3.6.3
```

```
## Loading required package: NLP
```

```
##
## Attaching package: 'NLP'
```

```
## The following object is masked from 'package:ggplot2':
##
##     annotate
```

```
install.packages('RColorBrewer')
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(RColorBrewer)

install.packages('wordcloud')
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(wordcloud)
```

```
## Warning: package 'wordcloud' was built under R version 3.6.3
```

```
install.packages("caret")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(caret)
```

```
## Warning: package 'caret' was built under R version 3.6.3
```

```
## Loading required package: lattice
```

```
## Warning: package 'lattice' was built under R version 3.6.3
```

```
##
## Attaching package: 'caret'
```

```
## The following object is masked from 'package:purrr':
##
##     lift
```

```
install.packages("GGally")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(GGally)
```

```
## Warning: package 'GGally' was built under R version 3.6.3
```

```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
```

```
##
## Attaching package: 'GGally'
```

```
## The following object is masked from 'package:fma':
##
##     pigs
```

```
## The following object is masked from 'package:dplyr':
##
##     nasa
```

```
install.packages("rmarkdown")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(rmarkdown)
```

```
## Warning: package 'rmarkdown' was built under R version 3.6.3
```

```
install.packages("MASS")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(MASS)
```

```
## Warning: package 'MASS' was built under R version 3.6.2
```

```
##
## Attaching package: 'MASS'
```

```
## The following objects are masked from 'package:fma':
##
##     cement, housing, petrol
```

```
## The following object is masked from 'package:dplyr':
##
##     select
```

```
install.packages("polycor")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(polycor)
```

```
## Warning: package 'polycor' was built under R version 3.6.3
```

```
install.packages("cluster", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
```

```
## Warning in install.packages("cluster", lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"): 'lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"' is not writable
```

```
## Error in install.packages("cluster", lib = "/Library/Frameworks/R.framework/Versions/3.5/Resources/library"): unable to install packages
```

```
library(cluster)
```

```
## Warning: package 'cluster' was built under R version 3.6.3
```

```
install.packages("psych", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
```

```
## Warning in install.packages("psych", lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"): 'lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"' is not writable
```

```
## Error in install.packages("psych", lib = "/Library/Frameworks/R.framework/Versions/3.5/Resources/library"): unable to install packages
```

```
library(psych)
```

```
## Warning: package 'psych' was built under R version 3.6.3
```

```
##
## Attaching package: 'psych'
```

```
## The following object is masked from 'package:polycor':
##
##     polyserial
```

```
## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
```

```
install.packages("https://cran.r-project.org/src/contrib/Archive/rlang/rlang_0.4.4.tar.gz", repo=NULL, type = "source")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Warning in install.packages("https://cran.r-project.org/src/contrib/Archive/
## rlang/rlang_0.4.4.tar.gz", : installation of package 'C:/Users/vidhi/AppData/
## Local/Temp/Rtmp8gs97n/downloaded_packages/rlang_0.4.4.tar.gz' had non-zero exit
## status
```

```
install.packages("caret")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
install.packages("leaps", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
```

```
## Warning in install.packages("leaps", lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"): 'lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"' is not writable
```

```
## Error in install.packages("leaps", lib = "/Library/Frameworks/R.framework/Versions/3.5/Resources/library"): unable to install packages
```

```
library(leaps)
```

```
## Warning: package 'leaps' was built under R version 3.6.3
```

```
install.packages("relaimpo", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
```

```
## Warning in install.packages("relaimpo", lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"): 'lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"' is not writable
```

```
## Error in install.packages("relaimpo", lib = "/Library/Frameworks/R.framework/Versions/3.5/Resources/library"): unable to install packages
```

```
library(relaimpo)
```

```
## Warning: package 'relaimpo' was built under R version 3.6.3
```

```
## Loading required package: boot
```

```
##
## Attaching package: 'boot'
```

```
## The following object is masked from 'package:psych':
##
##     logit
```

```
## The following object is masked from 'package:lattice':
##
##     melanoma
```

```
## Loading required package: survey
```

```
## Warning: package 'survey' was built under R version 3.6.3
```

```
## Loading required package: grid
```

```
## Loading required package: Matrix
```

```
##
## Attaching package: 'Matrix'
```

```
## The following objects are masked from 'package:tidyr':
##
##     expand, pack, unpack
```

```
## Loading required package: survival
```

```
## Warning: package 'survival' was built under R version 3.6.3
```

```
##
## Attaching package: 'survival'
```

```
## The following object is masked from 'package:boot':
##
##     aml
```

```
## The following object is masked from 'package:caret':
##
##     cluster
```

```
##
## Attaching package: 'survey'
```

```
## The following object is masked from 'package:graphics':
##
##     dotchart
```

```
## Loading required package: mitools
```

```
## Warning: package 'mitools' was built under R version 3.6.3
```

```
## This is the global version of package relaimpo.
```

```
## If you are a non-US user, a version with the interesting additional metric pmvd is available
```

```
## from Ulrike Groempings web site at prof.beuth-hochschule.de/groemping.
```

```
loan <- read.csv('sub1.csv')


attach(loan)
```

You can also embed plots, for example:

```
# View(loan)
#Since there are 6.9 million rows and about 145 variables we are trying to get rid of some of the redundant variables and observations
hm_na <- data.frame(sapply(loan, function(y) sum(length(which(is.na(y))))))
# View(loan)
hm_na
```

```
##                                          sapply.loan..function.y..sum.length.which.is.na.y.....
## X                                                                                              0
## id                                                                                        697957
## member_id                                                                                 697957
## loan_amnt                                                                                      0
## funded_amnt                                                                                    0
## funded_amnt_inv                                                                                0
## term                                                                                           0
## int_rate                                                                                       0
## installment                                                                                    0
## grade                                                                                          0
## sub_grade                                                                                      0
## emp_title                                                                                      0
## emp_length                                                                                     0
## home_ownership                                                                                 0
## annual_inc                                                                                     0
## verification_status                                                                            0
## issue_d                                                                                        0
## loan_status                                                                                    0
## pymnt_plan                                                                                     0
## url                                                                                       697957
## desc                                                                                           0
## purpose                                                                                        0
## title                                                                                          0
## zip_code                                                                                       0
## addr_state                                                                                     0
## dti                                                                                          176
## delinq_2yrs                                                                                    0
## earliest_cr_line                                                                               0
## inq_last_6mths                                                                                 1
## mths_since_last_delinq                                                                    337684
## mths_since_last_record                                                                    567015
## open_acc                                                                                       0
## pub_rec                                                                                        0
## revol_bal                                                                                      0
## revol_util                                                                                   405
## total_acc                                                                                      0
## initial_list_status                                                                            0
## out_prncp                                                                                      0
## out_prncp_inv                                                                                  0
## total_pymnt                                                                                    0
## total_pymnt_inv                                                                                0
## total_rec_prncp                                                                                0
## total_rec_int                                                                                  0
## total_rec_late_fee                                                                             0
## recoveries                                                                                     0
## collection_recovery_fee                                                                        0
## last_pymnt_d                                                                                   0
## last_pymnt_amnt                                                                                0
## next_pymnt_d                                                                                   0
## last_credit_pull_d                                                                             0
## collections_12_mths_ex_med                                                                     0
## mths_since_last_major_derog                                                               494209
## policy_code                                                                                    0
## application_type                                                                               0
## annual_inc_joint                                                                          684708
## dti_joint                                                                                 684710
## verification_status_joint                                                                      0
## acc_now_delinq                                                                                 0
## tot_coll_amt                                                                                   0
## tot_cur_bal                                                                                    0
## open_acc_6m                                                                               338594
## open_act_il                                                                               338593
## open_il_12m                                                                               338593
## open_il_24m                                                                               338593
## mths_since_rcnt_il                                                                        348220
## total_bal_il                                                                              338593
## il_util                                                                                   386794
## open_rv_12m                                                                               338593
## open_rv_24m                                                                               338593
```

```
## max_bal_bc                                                          338593
## all_util                                                            338627
## total_rev_hi_lim                                                         0
## inq_fi                                                              338593
## total_cu_tl                                                         338594
## inq_last_12m                                                        338594
## acc_open_past_24mths                                                     0
## avg_cur_bal                                                              6
## bc_open_to_buy                                                        7583
## bc_util                                                               8004
## chargeoff_within_12_mths                                                 0
## delinq_amnt                                                              0
## mo_sin_old_il_acct                                                   19866
## mo_sin_old_rev_tl_op                                                     0
## mo_sin_rcnt_rev_tl_op                                                    0
## mo_sin_rcnt_tl                                                           0
## mort_acc                                                                 0
## mths_since_recent_bc                                                  7159
## mths_since_recent_bc_dlq                                            520913
## mths_since_recent_inq                                                67650
## mths_since_recent_revol_delinq                                      449223
## num_accts_ever_120_pd                                                    0
## num_actv_bc_tl                                                           0
## num_actv_rev_tl                                                          0
## num_bc_sats                                                              0
## num_bc_tl                                                                0
## num_il_tl                                                                0
## num_op_rev_tl                                                            0
## num_rev_accts                                                            1
## num_rev_tl_bal_gt_0                                                      0
## num_sats                                                                 0
## num_tl_120dpd_2m                                                     32706
## num_tl_30dpd                                                             0
## num_tl_90g_dpd_24m                                                       0
## num_tl_op_past_12m                                                       0
## pct_tl_nvr_dlq                                                           1
## percent_bc_gt_75                                                      7870
## pub_rec_bankruptcies                                                     0
## tax_liens                                                                0
## tot_hi_cred_lim                                                          0
## total_bal_ex_mort                                                        0
## total_bc_limit                                                           0
## total_il_high_credit_limit                                               0
## revol_bal_joint                                                     690224
## sec_app_earliest_cr_line                                                 0
## sec_app_inq_last_6mths                                              690224
## sec_app_mort_acc                                                    690224
## sec_app_open_acc                                                    690224
## sec_app_revol_util                                                  690391
## sec_app_open_act_il                                                 690224
## sec_app_num_rev_accts                                               690224
## sec_app_chargeoff_within_12_mths                                    690224
## sec_app_collections_12_mths_ex_med                                  690224
## sec_app_mths_since_last_major_derog                                 695138
## hardship_flag                                                            0
## hardship_type                                                            0
## hardship_reason                                                          0
## hardship_status                                                          0
## deferral_term                                                       692658
## hardship_amount                                                     692658
## hardship_start_date                                                      0
## hardship_end_date                                                        0
## payment_plan_start_date                                                  0
## hardship_length                                                     692658
## hardship_dpd                                                        692658
## hardship_loan_status                                                     0
## orig_projected_additional_accrued_interest                          694128
## hardship_payoff_balance_amount                                      692658
## hardship_last_payment_amount                                        692658
## disbursement_method                                                      0
## debt_settlement_flag                                                     0
## debt_settlement_flag_date                                                0
## settlement_status                                                        0
## settlement_date                                                          0
## settlement_amount                                                   675746
## settlement_percentage                                               675746
## settlement_term                                                     675746
```

```
## Check all observations with at least one NA in a row
loan <- loan[, colSums(is.na(loan))<= 0.6*nrow(loan)]
#the loan data fram has 697957 observations of 117 variables

## Removing all observations with at least one NA in a row
loan <- na.omit(loan)
#View(loan)

#The loan data frame has 142301 observations of 117 variables
#[(697957-142301)/697957] * 100= 79% of the observations have been removed

#check the kind of data present in your dataset
str(loan)
```

```
## 'data.frame':        142301 obs. of  117 variables:
##  $ X                       : int  100 170 186 296 369 402 510 800 829 835 ...
##  $ loan_amnt               : int  30000 20000 4500 2500 4000 1000 5000 10000 29050 1000 ...
##  $ funded_amnt             : int  30000 20000 4500 2500 4000 1000 5000 10000 29050 1000 ...
```

```
##  $ funded_amnt_inv           : num  30000 20000 4500 2475 4000 ...
##  $ term                      : Factor w/ 2 levels " 36 months"," 60 months": 1 1 1 1 1 1 1 2 1 1 ...
##  $ int_rate                  : num  22.35 7.56 11.31 13.56 17.97 ...
##  $ installment               : num  1151.2 622.7 148 84.9 144.6 ...
##  $ grade                     : Factor w/ 7 levels "A","B","C","D",..: 4 1 2 3 4 5 1 2 2 3 ...
##  $ sub_grade                 : Factor w/ 35 levels "A1","A2","A3",..: 20 3 8 11 16 21 3 10 6 11 ...
##  $ emp_title                 : Factor w/ 176873 levels "","'Property Manager",..: 158007 161845 2819 91788 143994 73235 159108 81806 57924 39015 ...
##  $ emp_length                : Factor w/ 12 levels "","< 1 year",..: 8 4 4 8 8 6 8 3 2 3 ...
##  $ home_ownership            : Factor w/ 4 levels "ANY","MORTGAGE",..: 2 2 4 4 2 4 2 2 2 4 ...
##  $ annual_inc                : num  100000 100000 38500 42000 60000 ...
##  $ verification_status       : Factor w/ 3 levels "Not Verified",..: 2 1 1 1 2 2 1 1 2 2 ...
##  $ issue_d                   : Factor w/ 36 levels "Apr-2015","Apr-2016",..: 9 9 9 9 9 9 9 9 9 9 ...
##  $ loan_status               : Factor w/ 6 levels "Charged Off",..: 3 3 3 3 3 3 3 3 3 3 ...
##  $ pymnt_plan                : Factor w/ 2 levels "n","y": 1 1 1 1 1 1 1 1 1 1 ...
##  $ desc                      : Factor w/ 41 levels ""," "," I paid off my first Prosper loan, but had an emergency and took out a second Prosper loan
##  $ purpose                   : Factor w/ 14 levels "car","credit_card",..: 3 2 2 10 6 3 2 1 5 9 ...
##  $ title                     : Factor w/ 24 levels "","Business",..: 6 5 5 17 8 6 5 3 9 13 ...
##  $ zip_code                  : Factor w/ 925 levels "007xx","008xx",..: 845 908 731 184 705 416 720 22 563 356 ...
##  $ addr_state                : Factor w/ 50 levels "AK","AL","AR",..: 5 47 43 38 43 35 43 39 14 42 ...
##  $ dti                       : num  30.46 18.92 4.64 15.09 19.1 ...
##  $ delinq_2yrs               : num  0 0 0 0 0 0 0 1 0 0 ...
##  $ earliest_cr_line          : Factor w/ 717 levels "Apr-1955","Apr-1958",..: 297 217 165 471 413 709 475 98 294 470 ...
##  $ inq_last_6mths            : num  0 0 0 0 1 0 0 1 0 2 ...
##  $ mths_since_last_delinq    : num  51 48 25 53 38 59 59 17 38 29 ...
##  $ open_acc                  : num  11 9 12 3 11 4 6 23 17 7 ...
##  $ pub_rec                   : num  1 0 0 0 0 0 0 0 0 0 ...
##  $ revol_bal                 : int  15603 25416 4472 3319 382 13326 10190 15927 2252 398 ...
##  $ revol_util                : num  37 29.9 15.3 31.6 7.3 72.8 55.1 21.8 3.1 5.8 ...
##  $ total_acc                 : num  19 19 25 6 18 38 13 40 35 14 ...
##  $ initial_list_status       : Factor w/ 2 levels "f","w": 2 2 2 1 2 1 2 2 2 1 ...
##  $ out_prncp                 : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ out_prncp_inv             : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ total_pymnt               : num  30026 20216 4549 2501 4050 ...
##  $ total_pymnt_inv           : num  30026 20216 4549 2476 4050 ...
##  $ total_rec_prncp           : num  30000 20000 4500 2500 4000 ...
##  $ total_rec_int             : num  26.44 215.79 49.22 1.29 49.92 ...
##  $ total_rec_late_fee        : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ recoveries                : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ collection_recovery_fee   : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ last_pymnt_d              : Factor w/ 51 levels "","Apr-2015",..: 23 18 18 23 18 18 23 23 18 23 ...
##  $ last_pymnt_amnt           : num  30082.3 20228.4 4553.5 2504.1 55.9 ...
##  $ next_pymnt_d              : Factor w/ 5 levels "","Apr-2019",..: 1 1 1 1 1 1 1 1 1 1 ...
##  $ last_credit_pull_d        : Factor w/ 52 levels "","Apr-2015",..: 23 18 18 23 23 18 18 18 23 18 ...
##  $ collections_12_mths_ex_med: num  0 0 0 0 0 0 0 0 0 0 ...
##  $ policy_code               : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ application_type          : Factor w/ 2 levels "Individual","Joint App": 2 2 1 1 1 1 1 1 1 1 ...
##  $ verification_status_joint : Factor w/ 4 levels "","Not Verified",..: 3 2 1 1 1 1 1 1 1 1 ...
##  $ acc_now_delinq            : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ tot_coll_amt              : num  0 0 306 0 0 0 0 0 0 0 ...
##  $ tot_cur_bal               : num  472330 515779 29137 18649 106556 ...
##  $ open_acc_6m               : num  1 1 2 1 2 1 1 1 3 0 ...
##  $ open_act_il               : num  3 2 1 1 3 2 3 2 3 3 ...
##  $ open_il_12m               : num  2 0 1 0 3 1 1 0 0 1 ...
##  $ open_il_24m               : num  2 1 1 1 4 2 3 1 1 2 ...
##  $ mths_since_rcnt_il        : num  2 13 3 22 1 0 2 23 16 9 ...
##  $ total_bal_il              : num  82850 46153 24665 15330 45868 ...
##  $ il_util                   : num  75 71 100 69 77 97 83 39 39 88 ...
##  $ open_rv_12m               : num  0 1 3 1 1 0 0 1 4 0 ...
##  $ open_rv_24m               : num  1 2 7 2 6 0 1 2 5 1 ...
##  $ max_bal_bc                : num  9713 9759 3612 2792 378 ...
##  $ all_util                  : num  60 39 54 57 72 85 76 23 17 78 ...
##  $ total_rev_hi_lim          : num  42200 85100 29200 10500 5200 18300 18500 73200 72600 6900 ...
##  $ inq_fi                    : num  1 2 0 2 3 0 3 1 1 5 ...
##  $ total_cu_tl               : num  1 2 3 0 0 3 3 1 0 1 ...
##  $ inq_last_12m              : num  3 0 3 1 3 1 0 1 2 5 ...
##  $ acc_open_past_24mths      : num  4 5 8 3 10 2 4 3 7 3 ...
##  $ avg_cur_bal               : num  42939 57309 2428 6216 9687 ...
##  $ bc_open_to_buy            : num  15181 59684 10735 7181 3818 ...
##  $ bc_util                   : num  46.9 29.9 28.9 31.6 9.1 72.8 47.9 23.1 3 21.8 ...
##  $ chargeoff_within_12_mths  : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ delinq_amnt               : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ mo_sin_old_il_acct        : num  83 171 180 177 57 135 129 159 114 189 ...
##  $ mo_sin_old_rev_tl_op      : num  73 238 69 177 31 131 127 159 119 83 ...
##  $ mo_sin_rcnt_rev_tl_op     : num  23 1 2 5 12 61 22 1 3 23 ...
##  $ mo_sin_rcnt_tl            : num  2 1 2 5 1 0 2 1 1 9 ...
##  $ mort_acc                  : num  1 5 0 0 2 0 2 1 2 0 ...
##  $ mths_since_recent_bc      : num  23 1 2 5 15 62 54 1 3 31 ...
##  $ mths_since_recent_inq     : num  8 13 6 12 2 0 18 4 3 0 ...
##  $ num_accts_ever_120_pd     : num  0 0 1 0 1 1 1 0 0 3 ...
##  $ num_actv_bc_tl            : num  3 5 3 2 2 2 1 4 3 1 ...
##  $ num_actv_rev_tl           : num  4 5 5 2 2 2 2 6 4 2 ...
##  $ num_bc_sats               : num  3 5 5 2 5 2 1 10 10 1 ...
##  $ num_bc_tl                 : num  5 6 6 2 5 7 1 15 17 1 ...
##  $ num_il_tl                 : num  10 5 10 3 9 28 7 4 8 10 ...
##  $ num_op_rev_tl             : num  6 5 11 2 7 2 3 19 12 4 ...
##  $ num_rev_accts             : num  8 9 15 3 7 10 4 34 25 4 ...
##  $ num_rev_tl_bal_gt_0       : num  4 5 5 2 2 2 2 6 4 2 ...
##  $ num_sats                  : num  11 9 12 3 11 4 6 23 17 7 ...
##  $ num_tl_120dpd_2m          : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ num_tl_30dpd              : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ num_tl_90g_dpd_24m        : num  0 0 0 0 0 0 0 0 0 0 ...
##  $ num_tl_op_past_12m        : num  2 1 4 1 4 1 1 1 5 1 ...
##  $ pct_tl_nvr_dlq            : num  89.5 94.7 91.7 83.3 88.2 97.3 92.3 95 97.1 71.4 ...
##  $ percent_bc_gt_75          : num  33.3 20 0 0 0 50 0 10 0 0 ...
##  $ pub_rec_bankruptcies      : num  1 0 0 0 0 0 0 0 0 0 ...
##  $ tax_liens                 : num  0 0 0 0 0 0 0 0 0 0 ...
##   [list output truncated]
```

```
##  - attr(*, "na.action")= 'omit' Named int  2 5 6 7 10 12 13 15 16 17 ...
##   ..- attr(*, "names")= chr  "2" "5" "6" "7" ...
```

```
## Filter database to observations where loan was 'Fully_paid', or 'Charged_off'

#first we need to check various levels present in our variable loan_status
unique(loan_status)
```

```
## [1] Fully Paid         Late (31-120 days) In Grace Period    Charged Off
## [5] Late (16-30 days)  Default
## 6 Levels: Charged Off Default Fully Paid In Grace Period ... Late (31-120 days)
```

```
#library(dplyr)
loan <- loan %>% dplyr::select(everything()) %>%
  filter(loan_status %in% c("Fully Paid", "Charged Off"))
#View(loan)

#The loan data frame now has 134895 observations and 117 variables

## Filter observations for only individual applicants
unique(application_type)
```

```
## [1] Joint App  Individual
## Levels: Individual Joint App
```

```
loan <- loan %>% dplyr::select(everything()) %>%
  filter(application_type %in% c("Individual"))
#View(loan)

#The dataset now has 130718 observations and 117 variables
ncol(loan)
```

```
## [1] 117
```

```
#there are 117 variables

nrow(loan)
```

```
## [1] 130718
```

```
#there are 137018 observations currently

################ Exploratory Data Analysis ##############################

#library(ggplot2)
#Horizontal stacked bar graph for Total Number for loan_status
loan %>%
  count(loan_status) %>%
  ggplot(aes(x = reorder(loan_status , desc(n)) , y = n , fill = n)) +
  geom_col() +
  coord_flip() +
  labs(x = 'Loan Status' , y = 'Count')
```

```
#Conclusion: 1 denotes the loan which is fully paid while 0 denotes that loan is charged off

#BoxPlot for Interest Rate vs Grade
ggplot(loan , aes(x = grade , y = int_rate , fill = grade)) +
  geom_boxplot() +
  theme_grey() +
  labs(y = 'Interest Rate' , x = 'Grade')
```

```
#Box-Plot for Loan Amount vs Loan Status
#library(ggplot2)
box_status <- ggplot(loan, aes(loan_status, loan_amnt))

box_status + geom_boxplot(aes(fill = loan_status)) +
  theme(axis.text.x = element_blank()) +
  labs(list(
    title = "Loan amount by status",
    x = "Status",
    y = "Amount")) + scale_y_continuous(labels = function(x) format(x, scientific = FALSE))
```

```
#Heat Map for states
#library(dplyr)
#library(choroplethr)
#library(choroplethrMaps)
loan$region <- loan$addr_state

loan$region <- as.factor(loan$region)

levels(loan$region)<- c("alaska", "alabama","arkansas", "arizona", "california","colorado","connecticut","district of columbia","delaware","florida","ge

state_by_volume <-loan%>% group_by(region) %>%
  summarise(value = n())

state_choropleth(state_by_volume, title = "Volume by State")
```

```
## Warning: Column `region` joining character vector and factor, coercing into
## character vector
```

```
## Warning in self$bind(): The following regions were missing and are being set to
## NA: wyoming
```

```
#scatterplot
plot(loan_amnt,int_rate, main="Scatterplot", xlab="loan amount ", ylab="interest rate", pch=19)
```

```
#Ans: The graph isn't a straight line so you cannot differentiate between these two variables

#Scatterplot: Interest Rate vs Grade
plot(int_rate, grade, main="Scatterplot",xlab="Interest Rate ", ylab="Grade ", pch=19)
```

```
#Scatterplot: dti vs Grade
plot(dti,grade, main="Scatterplot",xlab= "dti", ylab="grade",pch=19)
```

```
#Scatterplot: Loan Amount vs installment

plot(loan_amnt,installment, main="Scatterplot", xlab=" Loan Amount ", ylab="Installment ", pch=19)
```

```
#the scatterplot shows a linear relationship between the loan amount and installment so we can discard one variable.
# View(loan) #the issue_d is in the date format
# Summary for the Dataset
summary(loan)
```

```
##        X            loan_amnt      funded_amnt    funded_amnt_inv
##  Min.   :   186   Min.   : 1000   Min.   : 1000   Min.   :  800
##  1st Qu.:570937   1st Qu.: 7500   1st Qu.: 7500   1st Qu.: 7500
##  Median :703796   Median :12000   Median :12000   Median :12000
##  Mean   :684073   Mean   :14283   Mean   :14283   Mean   :14276
##  3rd Qu.:815666   3rd Qu.:20000   3rd Qu.:20000   3rd Qu.:20000
##  Max.   :952508   Max.   :40000   Max.   :40000   Max.   :40000
##
##          term           int_rate      installment      grade
##   36 months:102102   Min.   : 5.31   Min.   :  30.12   A:17053
##   60 months: 28616   1st Qu.: 9.80   1st Qu.: 242.41   B:39308
##                      Median :12.79   Median : 370.93   C:40810
##                      Mean   :13.57   Mean   : 441.85   D:20465
##                      3rd Qu.:16.29   3rd Qu.: 588.08   E: 8873
##                      Max.   :30.99   Max.   :1584.90   F: 3311
##                                                        G:  898
##    sub_grade                emp_title          emp_length     home_ownership
##  C1     : 9503                   :  6910   10+ years:46572   ANY     :   36
##  B5     : 9493   Teacher         :  2661   2 years  :12145   MORTGAGE:67356
##  B4     : 8563   Manager         :  2371   3 years  :10613   OWN     :15733
##  C2     : 8218   Owner           :  1234   < 1 year : 9485   RENT    :47593
##  C4     : 8039   RN              :  1186   1 year   : 8861
##  C3     : 7695   Registered Nurse:  1111   5 years  : 7969
##  (Other):79207   (Other)         :115245   (Other)  :35073
##    annual_inc           verification_status     issue_d
```

```
##  Min.   :   6240   Not Verified   :36268    Mar-2016:15668
##  1st Qu.:  52000   Source Verified:58003    Feb-2016:12361
##  Median :  71000   Verified       :36447    Jan-2016:10994
##  Mean   :  83434                            Aug-2016: 9030
##  3rd Qu.: 100000                            Apr-2016: 8870
##  Max.   :9225000                            Jul-2016: 8667
##                                             (Other) :65128
##              loan_status    pymnt_plan
##  Charged Off       :31215   n:130718
##  Default           :    0   y:     0
##  Fully Paid        :99503
##  In Grace Period   :    0
##  Late (16-30 days) :    0
##  Late (31-120 days):    0
##
##
##
##
##  I am looking to pay off my credit card debts.
##  I developed poor credit in college due to not having a job and not being able to pay my credit card bills all the time. I am a recent graduate and a
##  I would like to pay off 3 different credit cards, at 12%, 17% and 22% (after initial 0% period is up).  It would be great to have everything under o
##  My wife and I are having our first child in March 2009, and we need to consolidate a bunch of 20-30% credit card debt that we've been ever so slowly
##  (Other)
##                purpose                          title          zip_code
##  debt_consolidation:76458   Debt consolidation     :72793   750xx  :  1440
##  credit_card       :24059   Credit card refinancing:22956   945xx  :  1419
##  home_improvement  :10215   Home improvement       : 9861   300xx  :  1232
##  other             : 9058   Other                  : 8858   606xx  :  1107
##  major_purchase    : 3184                          : 5660   112xx  :  1062
##  medical           : 1761   Major purchase         : 3093   331xx  :  1050
##  (Other)           : 5983   (Other)                : 7497   (Other):123408
##    addr_state         dti         delinq_2yrs      earliest_cr_line
##  CA     :17509   Min.   :-1.00   Min.   : 0.0000   Sep-2004:  1109
##  TX     :11769   1st Qu.:12.97   1st Qu.: 0.0000   Sep-2003:  1092
##  NY     : 9767   Median :18.46   Median : 0.0000   Sep-2005:  1020
##  FL     : 9516   Mean   :19.16   Mean   : 0.6313   Aug-2003:  1018
##  NJ     : 4841   3rd Qu.:24.82   3rd Qu.: 1.0000   Aug-2004:  1007
##  IL     : 4813   Max.   :49.96   Max.   :29.0000   Oct-2003:   993
##  (Other):72503                                     (Other) :124479
##  inq_last_6mths   mths_since_last_delinq    open_acc        pub_rec
##  Min.   :0.0000   Min.   :  0.00         Min.   : 2.00   Min.   : 0.0000
##  1st Qu.:0.0000   1st Qu.: 16.00         1st Qu.: 9.00   1st Qu.: 0.0000
##  Median :0.0000   Median : 31.00         Median :12.00   Median : 0.0000
##  Mean   :0.6603   Mean   : 34.48         Mean   :12.68   Mean   : 0.2541
##  3rd Qu.:1.0000   3rd Qu.: 50.00         3rd Qu.:16.00   3rd Qu.: 0.0000
##  Max.   :5.0000   Max.   :192.00         Max.   :80.00   Max.   :37.0000
##
##    revol_bal         revol_util       total_acc      initial_list_status
##  Min.   :      0   Min.   :  0.00   Min.   :  3.00   f: 30203
##  1st Qu.:   5168   1st Qu.: 29.80   1st Qu.: 19.00   w:100515
##  Median :   9666   Median : 46.90   Median : 26.00
##  Mean   :  14096   Mean   : 47.64   Mean   : 27.89
##  3rd Qu.:  17071   3rd Qu.: 65.20   3rd Qu.: 35.00
##  Max.   :1044210   Max.   :156.30   Max.   :176.00
##
##    out_prncp out_prncp_inv  total_pymnt    total_pymnt_inv total_rec_prncp
##  Min.   :0   Min.   :0     Min.   :    0   Min.   :    0   Min.   :    0
##  1st Qu.:0   1st Qu.:0     1st Qu.: 6159   1st Qu.: 6154   1st Qu.: 4770
##  Median :0   Median :0     Median :11092   Median :11089   Median : 9600
##  Mean   :0   Mean   :0     Mean   :13733   Mean   :13727   Mean   :11488
##  3rd Qu.:0   3rd Qu.:0     3rd Qu.:18878   3rd Qu.:18868   3rd Qu.:16000
##  Max.   :0   Max.   :0     Max.   :59808   Max.   :59808   Max.   :40000
##
##  total_rec_int     total_rec_late_fee   recoveries      collection_recovery_fee
##  Min.   :    0.0   Min.   :   0.000   Min.   :    0.0   Min.   :   0.00
##  1st Qu.:  613.4   1st Qu.:   0.000   1st Qu.:    0.0   1st Qu.:   0.00
##  Median : 1294.8   Median :   0.000   Median :    0.0   Median :   0.00
##  Mean   : 1966.2   Mean   :   2.311   Mean   :  276.3   Mean   :  48.42
##  3rd Qu.: 2572.9   3rd Qu.:   0.000   3rd Qu.:    0.0   3rd Qu.:   0.00
##  Max.   :21109.3   Max.   :1188.830   Max.   :30611.8   Max.   :5510.13
##
##    last_pymnt_d   last_pymnt_amnt     next_pymnt_d    last_credit_pull_d
##  Jan-2019: 7090   Min.   :    0.0           :130718   Feb-2019:52336
##  Aug-2018: 5152   1st Qu.:  516.9   Apr-2019:     0   Jan-2019:11024
##  Dec-2018: 4882   Median : 3438.2   Dec-2018:     0   Dec-2018: 6700
##  Feb-2019: 4850   Mean   : 6337.6   Feb-2019:     0   Jul-2018: 6149
##  Mar-2018: 4848   3rd Qu.: 9686.2   Mar-2019:     0   Oct-2018: 5719
##  Jul-2018: 4708   Max.   :41249.7                      Nov-2018: 5479
##  (Other) :99188                                        (Other) :43311
##  collections_12_mths_ex_med  policy_code   application_type
##  Min.   : 0.00000           Min.   :1    Individual:130718
##  1st Qu.: 0.00000           1st Qu.:1    Joint App :     0
##  Median : 0.00000           Median :1
##  Mean   : 0.02811           Mean   :1
##  3rd Qu.: 0.00000           3rd Qu.:1
##  Max.   :10.00000           Max.   :1
##
##    verification_status_joint acc_now_delinq     tot_coll_amt
##                   :130718      Min.   :0.00000   Min.   :      0
##  Not Verified   :     0      1st Qu.:0.00000   1st Qu.:      0
##  Source Verified:     0      Median :0.00000   Median :      0
##  Verified       :     0      Mean   :0.01063   Mean   :    448
##                              3rd Qu.:0.00000   3rd Qu.:      0
##                              Max.   :4.00000   Max.   :6214661
##
##   tot_cur_bal       open_acc_6m      open_act_il      open_il_12m
##  Min.   :    204   Min.   : 0.000   Min.   : 0.000   Min.   : 0.0000
##  1st Qu.:  36966   1st Qu.: 0.000   1st Qu.: 2.000   1st Qu.: 0.0000
```

```
##  Median : 102011   Median : 1.000   Median : 2.000   Median : 1.0000
##  Mean   : 155902   Mean   : 1.209   Mean   : 3.373   Mean   : 0.9665
##  3rd Qu.: 230132   3rd Qu.: 2.000   3rd Qu.: 4.000   3rd Qu.: 1.0000
##  Max.   :5445012   Max.   :17.000   Max.   :48.000   Max.   :25.0000
##
##   open_il_24m     mths_since_rcnt_il  total_bal_il        il_util
##  Min.   : 0.000   Min.   :  0.00     Min.   :      1   Min.   :  0.00
##  1st Qu.: 1.000   1st Qu.:  5.00     1st Qu.:  15199   1st Qu.: 61.00
##  Median : 2.000   Median : 10.00     Median :  29459   Median : 76.00
##  Mean   : 2.095   Mean   : 14.58     Mean   :  42620   Mean   : 73.29
##  3rd Qu.: 3.000   3rd Qu.: 18.00     3rd Qu.:  54283   3rd Qu.: 88.00
##  Max.   :51.000   Max.   :415.00     Max.   :1378570   Max.   :291.00
##
##   open_rv_12m      open_rv_24m       max_bal_bc        all_util
##  Min.   : 0.000   Min.   : 0.000   Min.   :     0   Min.   :  1.00
##  1st Qu.: 0.000   1st Qu.: 1.000   1st Qu.:  2008   1st Qu.: 50.00
##  Median : 1.000   Median : 3.000   Median :  3807   Median : 63.00
##  Mean   : 1.553   Mean   : 3.258   Mean   :  4960   Mean   : 62.23
##  3rd Qu.: 2.000   3rd Qu.: 4.000   3rd Qu.:  6397   3rd Qu.: 75.00
##  Max.   :22.000   Max.   :43.000   Max.   :776843   Max.   :198.00
##
##  total_rev_hi_lim      inq_fi        total_cu_tl      inq_last_12m
##  Min.   :    200   Min.   : 0.000   Min.   : 0.000   Min.   : 0.000
##  1st Qu.:  13400   1st Qu.: 0.000   1st Qu.: 0.000   1st Qu.: 1.000
##  Median :  22700   Median : 1.000   Median : 1.000   Median : 2.000
##  Mean   :  30264   Mean   : 1.373   Mean   : 1.843   Mean   : 2.783
##  3rd Qu.:  37800   3rd Qu.: 2.000   3rd Qu.: 2.000   3rd Qu.: 4.000
##  Max.   :1629000   Max.   :48.000   Max.   :54.000   Max.   :49.000
##
##  acc_open_past_24mths  avg_cur_bal     bc_open_to_buy      bc_util
##  Min.   : 0.000       Min.   :    34   Min.   :     0   Min.   :  0.00
##  1st Qu.: 3.000       1st Qu.:  3551   1st Qu.:  1589   1st Qu.: 33.50
##  Median : 5.000       Median :  8464   Median :  5000   Median : 57.00
##  Mean   : 5.647       Mean   : 13827   Mean   :  9691   Mean   : 55.75
##  3rd Qu.: 7.000       3rd Qu.: 19238   3rd Qu.: 12246   3rd Qu.: 80.40
##  Max.   :56.000       Max.   :388929   Max.   :292422   Max.   :201.90
##
##  chargeoff_within_12_mths  delinq_amnt      mo_sin_old_il_acct
##  Min.   :0.00000          Min.   :    0.0   Min.   :  0.0
##  1st Qu.:0.00000          1st Qu.:    0.0   1st Qu.:111.0
##  Median :0.00000          Median :    0.0   Median :133.0
##  Mean   :0.01756          Mean   :   34.5   Mean   :133.2
##  3rd Qu.:0.00000          3rd Qu.:    0.0   3rd Qu.:156.0
##  Max.   :9.00000          Max.   :65000.0   Max.   :822.0
##
##  mo_sin_old_rev_tl_op mo_sin_rcnt_rev_tl_op mo_sin_rcnt_tl       mort_acc
##  Min.   :  3.0        Min.   :  0.00        Min.   :  0.000   Min.   : 0.000
##  1st Qu.:124.0        1st Qu.:  3.00        1st Qu.:  2.000   1st Qu.: 0.000
##  Median :168.0        Median :  7.00        Median :  5.000   Median : 1.000
##  Mean   :185.9        Mean   : 11.36        Mean   :  6.208   Mean   : 1.778
##  3rd Qu.:234.0        3rd Qu.: 14.00        3rd Qu.:  8.000   3rd Qu.: 3.000
##  Max.   :852.0        Max.   :201.00        Max.   :125.000   Max.   :37.000
##
##  mths_since_recent_bc mths_since_recent_inq num_accts_ever_120_pd
##  Min.   :  0.00       Min.   : 0.000        Min.   : 0.00
##  1st Qu.:  5.00       1st Qu.: 2.000        1st Qu.: 0.00
##  Median : 12.00       Median : 5.000        Median : 0.00
##  Mean   : 21.66       Mean   : 6.292        Mean   : 1.12
##  3rd Qu.: 25.00       3rd Qu.: 9.000        3rd Qu.: 1.00
##  Max.   :577.00       Max.   :24.000        Max.   :51.00
##
##  num_actv_bc_tl   num_actv_rev_tl   num_bc_sats      num_bc_tl
##  Min.   : 0.000   Min.   : 0.000   Min.   : 0.00   Min.   : 1.000
##  1st Qu.: 2.000   1st Qu.: 3.000   1st Qu.: 3.00   1st Qu.: 5.000
##  Median : 3.000   Median : 5.000   Median : 4.00   Median : 7.000
##  Mean   : 3.496   Mean   : 5.517   Mean   : 4.56   Mean   : 8.018
##  3rd Qu.: 5.000   3rd Qu.: 7.000   3rd Qu.: 6.00   3rd Qu.:10.000
##  Max.   :26.000   Max.   :39.000   Max.   :46.00   Max.   :66.000
##
##    num_il_tl      num_op_rev_tl    num_rev_accts    num_rev_tl_bal_gt_0
##  Min.   :  1.00   Min.   : 1.000   Min.   :  2.00   Min.   : 0.000
##  1st Qu.:  5.00   1st Qu.: 5.000   1st Qu.:  9.00   1st Qu.: 3.000
##  Median :  8.00   Median : 8.000   Median : 14.00   Median : 5.000
##  Mean   : 10.64   Mean   : 8.538   Mean   : 15.16   Mean   : 5.551
##  3rd Qu.: 14.00   3rd Qu.:11.000   3rd Qu.: 19.00   3rd Qu.: 7.000
##  Max.   :128.00   Max.   :79.000   Max.   :104.00   Max.   :39.000
##
##     num_sats     num_tl_120dpd_2m    num_tl_30dpd      num_tl_90g_dpd_24m
##  Min.   : 2.00   Min.   :0.000000   Min.   :0.000000   Min.   : 0.0000
##  1st Qu.: 9.00   1st Qu.:0.000000   1st Qu.:0.000000   1st Qu.: 0.0000
##  Median :12.00   Median :0.000000   Median :0.000000   Median : 0.0000
##  Mean   :12.65   Mean   :0.001652   Mean   :0.006877   Mean   : 0.1665
##  3rd Qu.:15.00   3rd Qu.:0.000000   3rd Qu.:0.000000   3rd Qu.: 0.0000
##  Max.   :80.00   Max.   :4.000000   Max.   :4.000000   Max.   :29.0000
##
##  num_tl_op_past_12m pct_tl_nvr_dlq   percent_bc_gt_75 pub_rec_bankruptcies
##  Min.   : 0.000     Min.   :  6.70   Min.   :  0.00   Min.   :0.0000
##  1st Qu.: 1.000     1st Qu.: 85.20   1st Qu.:  0.00   1st Qu.:0.0000
##  Median : 2.000     Median : 91.90   Median : 33.30   Median :0.0000
##  Mean   : 2.666     Mean   : 88.96   Mean   : 39.55   Mean   :0.1295
##  3rd Qu.: 4.000     3rd Qu.: 95.50   3rd Qu.: 66.70   3rd Qu.:0.0000
##  Max.   :28.000     Max.   :100.00   Max.   :100.00   Max.   :8.0000
##
##    tax_liens        tot_hi_cred_lim   total_bal_ex_mort total_bc_limit
##  Min.   : 0.00000   Min.   :   2757   Min.   :    204   Min.   :    100
##  1st Qu.: 0.00000   1st Qu.:  60515   1st Qu.:  25863   1st Qu.:   7200
##  Median : 0.00000   Median : 135457   Median :  43199   Median :  13700
##  Mean   : 0.07674   Mean   : 191885   Mean   :  57121   Mean   :  19210
```

```
##  3rd Qu.: 0.00000   3rd Qu.: 273922   3rd Qu.:  71430   3rd Qu.:  24900
##  Max.   :37.00000   Max.   :9999999   Max.   :1569179   Max.   :1105500
##
##  total_il_high_credit_limit sec_app_earliest_cr_line hardship_flag
##  Min.   :     36                   :130718          N:130718
##  1st Qu.:  23030            Apr-1969:     0          Y:     0
##  Median :  40668            Apr-1970:     0
##  Mean   :  52856            Apr-1973:     0
##  3rd Qu.:  68359            Apr-1977:     0
##  Max.   :1380346            Apr-1978:     0
##                             (Other) :     0
##                          hardship_type                 hardship_reason
##                                :129610                       :129610
##  INTEREST ONLY-3 MONTHS DEFERRAL:  1108   NATURAL_DISASTER     :   294
##                                           EXCESSIVE_OBLIGATIONS:   231
##                                           UNEMPLOYMENT         :   193
##                                           INCOME_CURTAILMENT   :   136
##                                           MEDICAL              :   120
##                                           (Other)              :   134
##   hardship_status   hardship_start_date hardship_end_date
##          :129610           :129610             :129610
##  ACTIVE   :     0   Sep-2017:   291     Dec-2017:   223
##  BROKEN   :   436   Oct-2017:   153     Nov-2017:   170
##  COMPLETED:   672   Aug-2017:    70     Jan-2018:    99
##                     Nov-2017:    68     Oct-2017:    81
##                     Jan-2018:    65     Sep-2017:    69
##                     (Other) :   461     (Other) :   466
##  payment_plan_start_date         hardship_loan_status disbursement_method
##          :129610                         :129610    Cash     :128894
##  Oct-2017:   230         Current           :   264    DirectPay:  1824
##  Sep-2017:   206         In Grace Period   :   284
##  Nov-2017:    85         Late (16-30 days) :   518
##  Dec-2017:    66         Late (31-120 days):    42
##  Jul-2017:    65
##  (Other) :   456
##  debt_settlement_flag debt_settlement_flag_date settlement_status
##  N:125934                     :125934                  :125934
##  Y:  4784             Nov-2018:   454           ACTIVE  :  2623
##                       Oct-2018:   452           BROKEN  :   737
##                       Jan-2019:   430           COMPLETE:  1424
##                       Dec-2018:   408
##                       Feb-2019:   380
##                       (Other) :  2660
##  settlement_date             region
##          :125934   california   :17509
##  Oct-2018:   317   tennessee    :11769
##  Aug-2018:   287   nevada       : 9767
##  Sep-2018:   280   florida      : 9516
##  Nov-2018:   276   new hampshire: 4841
##  Jul-2018:   268   idaho        : 4813
##  (Other) :  3356   (Other)      :72503
```

```
# View(loan)

#Number of Rows and Columns
NROW(loan)
```

```
## [1] 130718
```

```
NCOL(loan)
```

```
## [1] 118
```

```
#Column Names
colnames(loan)
```

```
##   [1] "X"                          "loan_amnt"
##   [3] "funded_amnt"                "funded_amnt_inv"
##   [5] "term"                       "int_rate"
##   [7] "installment"                "grade"
##   [9] "sub_grade"                  "emp_title"
##  [11] "emp_length"                 "home_ownership"
##  [13] "annual_inc"                 "verification_status"
##  [15] "issue_d"                    "loan_status"
##  [17] "pymnt_plan"                 "desc"
##  [19] "purpose"                    "title"
##  [21] "zip_code"                   "addr_state"
##  [23] "dti"                        "delinq_2yrs"
##  [25] "earliest_cr_line"           "inq_last_6mths"
##  [27] "mths_since_last_delinq"     "open_acc"
##  [29] "pub_rec"                    "revol_bal"
##  [31] "revol_util"                 "total_acc"
##  [33] "initial_list_status"        "out_prncp"
##  [35] "out_prncp_inv"              "total_pymnt"
##  [37] "total_pymnt_inv"            "total_rec_prncp"
##  [39] "total_rec_int"              "total_rec_late_fee"
##  [41] "recoveries"                 "collection_recovery_fee"
##  [43] "last_pymnt_d"               "last_pymnt_amnt"
##  [45] "next_pymnt_d"               "last_credit_pull_d"
##  [47] "collections_12_mths_ex_med" "policy_code"
##  [49] "application_type"           "verification_status_joint"
##  [51] "acc_now_delinq"             "tot_coll_amt"
```

```
##  [53] "tot_cur_bal"                "open_acc_6m"
##  [55] "open_act_il"                "open_il_12m"
##  [57] "open_il_24m"                "mths_since_rcnt_il"
##  [59] "total_bal_il"               "il_util"
##  [61] "open_rv_12m"                "open_rv_24m"
##  [63] "max_bal_bc"                 "all_util"
##  [65] "total_rev_hi_lim"           "inq_fi"
##  [67] "total_cu_tl"                "inq_last_12m"
##  [69] "acc_open_past_24mths"       "avg_cur_bal"
##  [71] "bc_open_to_buy"             "bc_util"
##  [73] "chargeoff_within_12_mths"   "delinq_amnt"
##  [75] "mo_sin_old_il_acct"         "mo_sin_old_rev_tl_op"
##  [77] "mo_sin_rcnt_rev_tl_op"      "mo_sin_rcnt_tl"
##  [79] "mort_acc"                   "mths_since_recent_bc"
##  [81] "mths_since_recent_inq"      "num_accts_ever_120_pd"
##  [83] "num_actv_bc_tl"             "num_actv_rev_tl"
##  [85] "num_bc_sats"                "num_bc_tl"
##  [87] "num_il_tl"                  "num_op_rev_tl"
##  [89] "num_rev_accts"              "num_rev_tl_bal_gt_0"
##  [91] "num_sats"                   "num_tl_120dpd_2m"
##  [93] "num_tl_30dpd"               "num_tl_90g_dpd_24m"
##  [95] "num_tl_op_past_12m"         "pct_tl_nvr_dlq"
##  [97] "percent_bc_gt_75"           "pub_rec_bankruptcies"
##  [99] "tax_liens"                  "tot_hi_cred_lim"
## [101] "total_bal_ex_mort"          "total_bc_limit"
## [103] "total_il_high_credit_limit" "sec_app_earliest_cr_line"
## [105] "hardship_flag"              "hardship_type"
## [107] "hardship_reason"            "hardship_status"
## [109] "hardship_start_date"        "hardship_end_date"
## [111] "payment_plan_start_date"    "hardship_loan_status"
## [113] "disbursement_method"        "debt_settlement_flag"
## [115] "debt_settlement_flag_date"  "settlement_status"
## [117] "settlement_date"            "region"
```

```
#Dimensions of the Dataset
dim(loan)
```

```
## [1] 130718    118
```

```
#First and Last 6 rows of the Dataset
head(loan)
```

```
##     X loan_amnt funded_amnt funded_amnt_inv       term int_rate installment
## 1 186      4500        4500            4500  36 months    11.31      147.99
## 2 296      2500        2500            2475  36 months    13.56       84.92
## 3 369      4000        4000            4000  36 months    17.97      144.55
## 4 402      1000        1000            1000  36 months    23.40       38.92
## 5 510      5000        5000            5000  36 months     7.56      155.67
## 6 800     10000       10000           10000  60 months    12.98      227.43
##   grade sub_grade                 emp_title emp_length home_ownership
## 1     B        B3     Accounts Examiner III  10+ years           RENT
## 2     C        C1                   Manager    5 years           RENT
## 3     D        D1            service advisor    5 years       MORTGAGE
## 4     E        E1               HR Director     3 years           RENT
## 5     A        A3  Supply chain management     5 years       MORTGAGE
## 6     B        B5 kitchen and bath designer     1 year       MORTGAGE
##   annual_inc verification_status  issue_d loan_status pymnt_plan desc
## 1      38500        Not Verified Dec-2018  Fully Paid          n
## 2      42000        Not Verified Dec-2018  Fully Paid          n
## 3      60000     Source Verified Dec-2018  Fully Paid          n
## 4      60000     Source Verified Dec-2018  Fully Paid          n
## 5      98000        Not Verified Dec-2018  Fully Paid          n
## 6      60000        Not Verified Dec-2018  Fully Paid          n
##              purpose                   title zip_code addr_state   dti
## 1        credit_card Credit card refinancing    786xx         TX  4.64
## 2              other                   Other    194xx         PA 15.09
## 3              house             Home buying    760xx         TX 19.10
## 4 debt_consolidation      Debt consolidation    435xx         OH 20.78
## 5        credit_card Credit card refinancing    775xx         TX 14.78
## 6                car           Car financing    028xx         RI 12.25
##   delinq_2yrs earliest_cr_line inq_last_6mths mths_since_last_delinq open_acc
## 1           0         Dec-2003              0                     25       12
## 2           0         Mar-2004              0                     53        3
## 3           0         Jun-2007              1                     38       11
## 4           0         Sep-2007              0                     59        4
## 5           0         Mar-2008              0                     59        6
## 6           1         Aug-1995              1                     17       23
##   pub_rec revol_bal revol_util total_acc initial_list_status out_prncp
## 1       0      4472       15.3        25                  w         0
## 2       0      3319       31.6         6                  f         0
## 3       0       382        7.3        18                  w         0
## 4       0     13326       72.8        38                  f         0
## 5       0     10190       55.1        13                  w         0
## 6       0     15927       21.8        40                  w         0
##   out_prncp_inv total_pymnt total_pymnt_inv total_rec_prncp total_rec_int
## 1             0    4549.217         4549.22            4500         49.22
## 2             0    2501.286         2476.27            2500          1.29
## 3             0    4049.917         4049.92            4000         49.92
## 4             0    1022.649         1022.65            1000         22.65
## 5             0    5013.650         5013.65            5000         13.65
## 6             0   10072.108        10072.11           10000         72.11
##   total_rec_late_fee recoveries collection_recovery_fee last_pymnt_d
## 1                  0          0                      0     Feb-2019
## 2                  0          0                      0     Jan-2019
```

```
## 3                 0          0                      0     Feb-2019
## 4                 0          0                      0     Feb-2019
## 5                 0          0                      0     Jan-2019
## 6                 0          0                      0     Jan-2019
##   last_pymnt_amnt next_pymnt_d last_credit_pull_d collections_12_mths_ex_med
## 1         4553.46                       Feb-2019                           0
## 2         2504.11                       Jan-2019                           0
## 3           55.91                       Jan-2019                           0
## 4         1024.60                       Feb-2019                           0
## 5         5016.80                       Feb-2019                           0
## 6        10082.93                       Feb-2019                           0
##   policy_code application_type verification_status_joint acc_now_delinq
## 1           1       Individual                                       0
## 2           1       Individual                                       0
## 3           1       Individual                                       0
## 4           1       Individual                                       0
## 5           1       Individual                                       0
## 6           1       Individual                                       0
##   tot_coll_amt tot_cur_bal open_acc_6m open_act_il open_il_12m open_il_24m
## 1          306       29137          2           1           1           1
## 2            0       18649          1           1           0           1
## 3            0      106556          2           3           3           4
## 4            0      167564          1           2           1           2
## 5            0       50831          1           3           1           3
## 6            0      157586          1           2           0           1
##   mths_since_rcnt_il total_bal_il il_util open_rv_12m open_rv_24m max_bal_bc
## 1                  3        24665     100           3           7       3612
## 2                 22        15330      69           1           2       2792
## 3                  1        45868      77           1           6        378
## 4                  0       154238      97           0           0       7688
## 5                  2        40641      83           0           1       3595
## 6                 23         7069      39           1           2       8703
##   all_util total_rev_hi_lim inq_fi total_cu_tl inq_last_12m
## 1       54            29200      0           3            3
## 2       57            10500      2           0            1
## 3       72             5200      3           0            3
## 4       85            18300      0           3            1
## 5       76            18500      3           3            0
## 6       23            73200      1           1            1
##   acc_open_past_24mths avg_cur_bal bc_open_to_buy bc_util
## 1                    8        2428          10735    28.9
## 2                    3        6216           7181    31.6
## 3                   10        9687           3818     9.1
## 4                    2       41891           4974    72.8
## 5                    4        8472           3905    47.9
## 6                    3        6852          40231    23.1
##   chargeoff_within_12_mths delinq_amnt mo_sin_old_il_acct mo_sin_old_rev_tl_op
## 1                        0           0                180                  69
## 2                        0           0                177                 177
## 3                        0           0                 57                  31
## 4                        0           0                135                 131
## 5                        0           0                129                 127
## 6                        0           0                159                 159
##   mo_sin_rcnt_rev_tl_op mo_sin_rcnt_tl mort_acc mths_since_recent_bc
## 1                     2              2        0                    2
## 2                     5              5        0                    5
## 3                    12              1        2                   15
## 4                    61              0        0                   62
## 5                    22              2        2                   54
## 6                     1              1        1                    1
##   mths_since_recent_inq num_accts_ever_120_pd num_actv_bc_tl num_actv_rev_tl
## 1                     6                    1             3               5
## 2                    12                    0             2               2
## 3                     2                    1             2               2
## 4                     0                    1             2               2
## 5                    18                    1             1               2
## 6                     4                    0             4               6
##   num_bc_sats num_bc_tl num_il_tl num_op_rev_tl num_rev_accts
## 1           5         6        10            11            15
## 2           2         2         3             2             3
## 3           5         5         9             7             7
## 4           2         7        28             2            10
## 5           1         1         7             3             4
## 6          10        15         4            19            34
##   num_rev_tl_bal_gt_0 num_sats num_tl_120dpd_2m num_tl_30dpd num_tl_90g_dpd_24m
## 1                   5       12                0           0                  0
## 2                   2        3                0           0                  0
## 3                   2       11                0           0                  0
## 4                   2        4                0           0                  0
## 5                   2        6                0           0                  0
## 6                   6       23                0           0                  0
##   num_tl_op_past_12m pct_tl_nvr_dlq percent_bc_gt_75 pub_rec_bankruptcies
## 1                  4          91.7               0                    0
## 2                  1          83.3               0                    0
## 3                  4          88.2               0                    0
## 4                  1          97.3              50                    0
## 5                  1          92.3               0                    0
## 6                  1          95.0              10                    0
##   tax_liens tot_hi_cred_lim total_bal_ex_mort total_bc_limit
## 1         0           53795             29137          15100
## 2         0           32582             18649          10500
## 3         0          127200             46250           4200
## 4         0          156105            167564          18300
## 5         0           67363             50831           7500
## 6         0          250852             23216          52300
##   total_il_high_credit_limit sec_app_earliest_cr_line hardship_flag
## 1                      24595                                     N
## 2                      22082                                     N
```

```
## 3                     59474                                   N
## 4                    137805                                   N
## 5                     48863                                   N
## 6                     18367                                   N
##   hardship_type hardship_reason hardship_status hardship_start_date
## 1
## 2
## 3
## 4
## 5
## 6
##   hardship_end_date payment_plan_start_date hardship_loan_status
## 1
## 2
## 3
## 4
## 5
## 6
##   disbursement_method debt_settlement_flag debt_settlement_flag_date
## 1                Cash                    N
## 2                Cash                    N
## 3                Cash                    N
## 4                Cash                    N
## 5                Cash                    N
## 6                Cash                    N
##   settlement_status settlement_date       region
## 1                                     tennessee
## 2                                        oregon
## 3                                     tennessee
## 4                                      new york
## 5                                     tennessee
## 6                                  pennsylvania
```

```
tail(loan)
```

```
##             X loan_amnt funded_amnt funded_amnt_inv       term int_rate
## 130713 952381     10000       10000            9950  36 months    12.59
## 130714 952408     16800       16800           16800  60 months    23.99
## 130715 952413      4500        4500            4500  36 months    13.67
## 130716 952462      7700        7700            7700  36 months    13.67
## 130717 952483      8000        8000            8000  36 months    12.59
## 130718 952508     10000       10000           10000  36 months    11.99
##        installment grade sub_grade                emp_title emp_length
## 130713      334.97     C        C2                     Chef    4 years
## 130714      483.21     F        F3
## 130715      153.08     C        C4 Match Support Specialist     1 year
## 130716      261.94     C        C4                  Teacher  10+ years
## 130717      267.98     C        C2       Nurse Practitioner     1 year
## 130718      332.10     C        C1      Project Coordinator    4 years
##        home_ownership annual_inc verification_status  issue_d loan_status
## 130713           RENT      45000     Source Verified Dec-2015  Fully Paid
## 130714       MORTGAGE      42000            Verified Dec-2015  Fully Paid
## 130715       MORTGAGE      28000        Not Verified Dec-2015  Fully Paid
## 130716            OWN      88000            Verified Dec-2015  Fully Paid
## 130717            OWN     215000            Verified Dec-2015  Fully Paid
## 130718           RENT      69000     Source Verified Dec-2015 Charged Off
##        pymnt_plan desc            purpose                   title zip_code
## 130713          n             credit_card Credit card refinancing    073xx
## 130714          n      debt_consolidation      Debt consolidation    370xx
## 130715          n          major_purchase          Major purchase    871xx
## 130716          n                   other                   Other    331xx
## 130717          n                   other                   Other    756xx
## 130718          n             credit_card Credit card refinancing    114xx
##        addr_state   dti delinq_2yrs earliest_cr_line inq_last_6mths
## 130713         NJ 20.14           0         Aug-2009              1
## 130714         TN 10.26           2         Dec-2004              0
## 130715         NM 20.53           0         Feb-2003              5
## 130716         FL 33.78           3         Jan-1997              1
## 130717         TX 17.20           4         Sep-1991              2
## 130718         NY  4.35           0         Aug-2006              0
##        mths_since_last_delinq open_acc pub_rec revol_bal revol_util total_acc
## 130713                     35       12       0      3576       10.2        16
## 130714                     14        5       0      2591       42.5        15
## 130715                     35        9       0      1079       21.2        34
## 130716                     19        8       0     29109       75.4        51
## 130717                     10       36       1     14864       45.5        90
## 130718                     41        9       0      8122       65.5        43
##        initial_list_status out_prncp out_prncp_inv total_pymnt total_pymnt_inv
## 130713                   w         0             0   11932.036        11872.38
## 130714                   w         0             0   16846.470        16846.47
## 130715                   w         0             0    5490.553         5490.55
## 130716                   w         0             0    9588.308         9588.31
## 130717                   w         0             0    8373.750         8373.75
## 130718                   f         0             0    7086.650         7086.65
##        total_rec_prncp total_rec_int total_rec_late_fee recoveries
## 130713        10000.00       1932.04                  0       0.00
## 130714        16800.00         46.47                  0       0.00
## 130715         4500.00        990.55                  0       0.00
## 130716         7700.00       1888.31                  0       0.00
## 130717         8000.00        373.75                  0       0.00
## 130718         2428.72        885.62                  0    3772.31
##        collection_recovery_fee last_pymnt_d last_pymnt_amnt next_pymnt_d
## 130713                  0.0000     Jun-2018         1224.90
## 130714                  0.0000     Dec-2015        16868.86
## 130715                  0.0000     Jun-2018         1042.70
## 130716                  0.0000     Nov-2018         1566.83
```

```
## 130717                 0.0000     Apr-2016         7581.00
## 130718               679.0158     Oct-2016          332.10
##        last_credit_pull_d collections_12_mths_ex_med policy_code
## 130713           Jan-2019                         0           1
## 130714           Nov-2016                         0           1
## 130715           Nov-2018                         0           1
## 130716           Oct-2018                         0           1
## 130717           Feb-2019                         0           1
## 130718           Oct-2018                         0           1
##        application_type verification_status_joint acc_now_delinq tot_coll_amt
## 130713       Individual                                        0         1170
## 130714       Individual                                        0           87
## 130715       Individual                                        0           72
## 130716       Individual                                        0            0
## 130717       Individual                                        0            0
## 130718       Individual                                        0          316
##        tot_cur_bal open_acc_6m open_act_il open_il_12m open_il_24m
## 130713       22753           2           1           1           1
## 130714      137164           2           1           1           2
## 130715      173024           1           3           0           2
## 130716      233370           1           4           1           3
## 130717      433688           5          18           2           3
## 130718      106163           2           5           2           6
##        mths_since_rcnt_il total_bal_il il_util open_rv_12m open_rv_24m
## 130713                  6        19177      83           3           4
## 130714                  1        10778     100           1           2
## 130715                 15       101022      75           1           2
## 130716                  4       204261      95           0           0
## 130717                  5       154224     100           3           3
## 130718                  3        98041     100           1           3
##        max_bal_bc all_util total_rev_hi_lim inq_fi total_cu_tl inq_last_12m
## 130713       2060       39            34900      0           0           4
## 130714         36       79             6100      1           3           2
## 130715        638       62             5100      6           1          13
## 130716      13184       86            38600      0           0           1
## 130717       6398       85            32700      3           0           5
## 130718       4639       94            12400      0           0           1
##        acc_open_past_24mths avg_cur_bal bc_open_to_buy bc_util
## 130713                    5        2068          26862    10.5
## 130714                    4       27433           2964     1.2
## 130715                    5       19225            162    79.7
## 130716                    3       29171           9491    75.4
## 130717                    6       12756          11121    51.6
## 130718                    9       11796           2822    72.6
##        chargeoff_within_12_mths delinq_amnt mo_sin_old_il_acct
## 130713                        0           0                39
## 130714                        0           0               132
## 130715                        0           0               154
## 130716                        0           0               146
## 130717                        0           0               182
## 130718                        0           0               112
##        mo_sin_old_rev_tl_op mo_sin_rcnt_rev_tl_op mo_sin_rcnt_tl mort_acc
## 130713                   76                     1             1        0
## 130714                  102                     6             1        2
## 130715                   98                    12             3        1
## 130716                  227                    59             4        0
## 130717                  291                     3             3        3
## 130718                   45                    10             3        0
##        mths_since_recent_bc mths_since_recent_inq num_accts_ever_120_pd
## 130713                    1                     1                     0
## 130714                   20                     4                     0
## 130715                   98                     1                     1
## 130716                   59                     2                     0
## 130717                    4                     1                     1
## 130718                   10                     8                    15
##        num_actv_bc_tl num_actv_rev_tl num_bc_sats num_bc_tl num_il_tl
## 130713              4               4           8        10         3
## 130714              1               3           1         2         8
## 130715              1               3           1         1        27
## 130716              3               3           4        17        28
## 130717              8              12          11        20        59
## 130718              3               4           3         3        39
##        num_op_rev_tl num_rev_accts num_rev_tl_bal_gt_0 num_sats
## 130713            11            13                  5       12
## 130714             3             5                  3        5
## 130715             5             5                  3        9
## 130716             4            23                  3        8
## 130717            17            28                 12       36
## 130718             4             4                  4        9
##        num_tl_120dpd_2m num_tl_30dpd num_tl_90g_dpd_24m num_tl_op_past_12m
## 130713                0            0                  0                  4
## 130714                0            0                  0                  2
## 130715                0            0                  0                  2
## 130716                0            0                  0                  1
## 130717                0            0                  0                  5
## 130718                0            0                  0                  3
##        pct_tl_nvr_dlq percent_bc_gt_75 pub_rec_bankruptcies tax_liens
## 130713           93.7             12.5                    0         0
## 130714           80.0              0.0                    0         0
## 130715           83.3            100.0                    0         0
## 130716           92.0             50.0                    0         0
## 130717           94.4             10.0                    0         0
## 130718           45.0             66.7                    0         0
##        tot_hi_cred_lim total_bal_ex_mort total_bc_limit
## 130713           57913             22753          30000
## 130714          154732             13369           3000
## 130715          181036            102101            800
## 130716          231326            233370          38600
```

```
## 130717          507626            169088          23000
## 130718          110453            106163          10300
##        total_il_high_credit_limit sec_app_earliest_cr_line hardship_flag
## 130713                      23013                                     N
## 130714                      10738                                     N
## 130715                     105241                                     N
## 130716                     192726                                     N
## 130717                     184226                                     N
## 130718                      98053                                     N
##                        hardship_type  hardship_reason hardship_status
## 130713
## 130714
## 130715
## 130716 INTEREST ONLY-3 MONTHS DEFERRAL NATURAL_DISASTER       COMPLETED
## 130717
## 130718
##        hardship_start_date hardship_end_date payment_plan_start_date
## 130713
## 130714
## 130715
## 130716            Sep-2017          Nov-2017                Sep-2017
## 130717
## 130718
##        hardship_loan_status disbursement_method debt_settlement_flag
## 130713                                    Cash                    N
## 130714                                    Cash                    N
## 130715                                    Cash                    N
## 130716              Current               Cash                    N
## 130717                                    Cash                    N
## 130718                                    Cash                    Y
##        debt_settlement_flag_date settlement_status settlement_date
## 130713
## 130714
## 130715
## 130716
## 130717
## 130718                  Jul-2018            BROKEN        Apr-2017
##                region
## 130713 new hampshire
## 130714  south dakota
## 130715    new jersey
## 130716       florida
## 130717     tennessee
## 130718        nevada
```

```
#Data for the top 4 States
stateCA = loan[addr_state== 'CA',]

stateCA
```

```
##           X loan_amnt funded_amnt funded_amnt_inv       term int_rate
## 1       186      4500        4500            4500  36 months    11.31
## 13     1875     10000       10000           10000  36 months     8.19
## 26     4949     40000       40000           40000  60 months    16.14
## 29     5069      5600        5600            5600  36 months    12.98
## 56    11488     15000       15000           15000  36 months    16.91
## 58    12287      3600        3600            3600  36 months    11.31
## 62    12758      6000        6000            6000  36 months    10.33
## 79    15699     15000       15000           15000  60 months    18.94
## 81    16132     10000       10000           10000  36 months     7.02
## 85    17321      5000        5000            5000  36 months    10.72
## 89    17884     35000       35000           35000  36 months    16.14
## 94    19102      1000        1000            1000  36 months    30.84
## 95    19113      1075        1075             800  36 months    11.80
## 100   20221     20000       20000           20000  36 months    13.56
## 123   23224     10000       10000           10000  60 months    16.14
## 129   24774      2000        2000            2000  36 months    16.91
## 131   24881      4500        4500            4500  36 months     6.46
## 146   28202     21000       21000           21000  60 months    13.56
## 157   29786      4800        4800            4800  36 months    16.91
## 177   32463     10000       10000           10000  36 months     8.19
## 188   34000     40000       40000           40000  36 months    13.56
## 189   34346      5500        5500            5500  36 months    18.94
## 209   37059     25000       25000           25000  60 months    18.94
## 211   37656     13250       13250           13250  60 months    11.80
## 214   38489      8000        8000            8000  36 months    18.94
## 223   39113     15000       15000           15000  36 months    10.33
## 228   39646      6000        6000            6000  36 months    10.72
## 237   41063     20000       20000           20000  36 months    10.33
## 256   44763      4000        4000            4000  36 months     6.46
## 266   46319     20000       20000           20000  36 months    16.14
## 280   48249     25050       25050           25050  36 months    11.31
## 282   48471     20000       20000           20000  36 months    11.31
## 288   49173     32000       32000           32000  60 months    15.02
## 289   49323     12000       12000           12000  36 months     7.02
## 291   49430      4250        4250            4250  36 months     8.81
## 293   49649     16000       16000           16000  60 months    11.80
## 299   50317      2500        2500            2500  36 months    16.14
## 300   50472      4000        4000            4000  36 months     8.81
## 303   50919      5000        5000            5000  36 months    11.80
## 320   53577     30000       30000           30000  60 months    20.89
## 333   55409     15000       15000           15000  36 months     8.81
## 339   55745      7200        7200            7200  36 months    16.14
## 342   56186     30000       30000           30000  60 months    22.35
## 363   58910     16000       16000           16000  36 months     7.56
## 372   59754     20000       20000           20000  36 months    11.31
```

```
## 380   61001     40000       40000           40000  36 months    10.08
## 398   63164      6500        6500            6500  36 months     8.19
## 401   63274     30000       30000           30000  60 months    25.34
## 404   63409      6000        6000            6000  36 months    11.80
## 437   67020      3600        3600            3600  36 months    11.80
## 447   68047     10000       10000           10000  60 months    13.56
## 448   68049     16000       16000           16000  36 months    20.89
## 449   68108     27000       27000           27000  36 months    17.97
## 457   68886     24000       24000           24000  60 months    28.72
## 463   69677     22000       22000           22000  60 months    22.35
## 472   70565     20000       20000           20000  36 months    20.89
## 478   71040      9000        9000            9000  36 months    17.97
## 489   72781     12000       12000           12000  36 months    19.92
## 492   73022      7200        7200            7200  36 months    11.31
## 498   74050     35000       35000           35000  60 months    18.94
## 510   75069     11000       11000           11000  60 months    19.92
## 511   75280     30000       30000           30000  36 months     7.21
## 521   76958      8000        8000            8000  36 months    24.37
## 522   77245      1800        1800            1800  36 months    28.72
## 534   78835     15000       15000           15000  36 months    11.55
## 535   78906     20000       20000           20000  60 months    19.92
## 538   79172      8000        8000            8000  36 months    10.08
## 539   79294     15000       15000           15000  36 months     7.84
## 554   80775     20000       20000           20000  36 months    15.02
## 557   81255     17000       17000           17000  36 months     8.46
## 573   83521      2000        2000            2000  36 months    18.94
## 574   83828     25000       25000           25000  36 months     7.21
## 586   85354     40000       40000           40000  60 months    16.14
## 595   86209     16200       16200           16200  36 months    12.73
## 599   86767      9500        9500            9500  36 months     7.21
## 603   87182     16800       16800           16800  60 months    10.08
## 604   87351      5000        5000            4750  36 months    12.73
## 633   89919      2500        2500            2500  36 months     7.84
## 643   91165      3600        3600            3600  36 months    10.47
## 657   92837     18000       18000           18000  36 months    10.47
## 661   93432     15000       15000           15000  36 months    10.47
## 666   93630      4000        4000            4000  36 months    11.06
## 686   95566      2600        2600            2600  36 months    26.31
## 693   96433      4800        4800            4800  36 months    19.92
## 701   97489     10000       10000           10000  60 months    20.89
## 714   98356      6000        6000            6000  36 months    16.14
## 723   98903     18000       18000           18000  36 months    14.47
## 732  100032     12000       12000           12000  60 months    20.89
## 733  100676     10000       10000           10000  36 months     7.84
## 735  100972     19525       19525           19525  36 months    23.40
## 736  100998      2000        2000            2000  36 months    18.94
## 741  101631     20000       20000           20000  36 months    14.47
## 742  101637      5000        5000            5000  36 months    20.89
## 751  102165     19000       19000           19000  36 months    10.08
## 756  102481     15000       15000           15000  60 months    19.92
## 759  102721      3000        3000            3000  36 months    13.56
## 762  102937     30000       30000           30000  60 months    23.40
## 763  102969      6000        6000            6000  36 months     8.46
## 765  103080     15000       15000           15000  36 months    10.08
## 768  103389      2875        2875            2875  36 months     7.84
## 773  103712     10000       10000           10000  36 months    11.06
## 774  103752      8000        8000            8000  36 months    13.56
## 776  103885     24975       24975           24975  36 months    27.27
## 783  104774      5000        5000            5000  36 months    15.02
## 785  104867      7000        7000            7000  36 months     7.84
## 842  110277     12500       12500           12500  36 months    10.08
## 864  111677     16000       16000           16000  36 months    23.40
## 865  111968     12000       12000           12000  36 months    14.47
## 868  112218      5600        5600            5600  36 months    11.55
## 876  113373     35000       35000           35000  36 months    17.97
## 888  114228      5600        5600            5600  36 months     8.46
## 927  118430      3500        3500            3500  36 months    18.94
## 929  118578     20000       20000           20000  36 months     7.84
## 941  119896     17000       17000           17000  60 months    26.31
## 944  119991     10000       10000           10000  36 months    12.73
## 947  120117     35000       35000           35000  60 months    10.47
## 948  120168      7500        7500            7500  36 months    11.06
## 959  120852     12000       12000           12000  60 months    16.14
## 970  122300     35000       35000           35000  60 months    11.06
## 973  122605     25000       25000           25000  36 months    18.94
## 979  123248     12000       12000           11750  36 months    10.47
## 980  123314      6000        6000            6000  36 months    16.14
## 981  123441     18300       18300           18300  60 months    12.73
## 987  124352     11200       11200           11200  60 months    17.97
## 991  124909      4000        4000            4000  36 months    12.73
## 1001 125648     20000       20000           20000  36 months     8.46
## 1004 125730      3500        3500            3500  36 months    17.97
## 1010 126182     15000       15000           15000  36 months    12.73
## 1016 126717     16000       16000           16000  36 months    16.14
## 1018 126863     25000       25000           25000  36 months     6.11
## 1019 126903      2000        2000            2000  36 months     8.46
## 1042 128560      3000        3000            3000  36 months    15.02
## 1079 131478      1500        1500            1500  36 months    29.69
## 1087 131986     10000       10000           10000  36 months    16.91
## 1093 132556     37325       37325           37325  36 months    12.73
## 1103 133239     15000       15000           15000  36 months     7.84
## 1127 135257     12000       12000           12000  36 months     6.67
## 1132 135569      5000        5000            5000  36 months     7.84
## 1137 136000     15000       15000           15000  60 months    12.73
## 1138 136163      3200        3200            3200  36 months    16.91
## 1140 136364      9600        9600            9600  36 months    17.97
## 1144 136487      7000        7000            7000  36 months    11.55
## 1145 136560     11000       11000           11000  60 months    18.94
```

```
## 1154 137061     10000       10000           10000  36 months    17.97
## 1156 137325     19000       19000           19000  60 months    24.37
## 1157 137341     15000       15000           15000  60 months    13.56
## 1160 137679     15000       15000           15000  60 months    15.02
## 1162 137786     10000       10000           10000  36 months    18.94
## 1165 137856     10500       10500           10500  36 months    18.94
## 1176 138722     10425       10425           10425  60 months    14.47
## 1180 139106     15600       15600           15350  36 months    11.06
## 1182 139259     26475       26475           26475  36 months    17.97
## 1183 139267     16800       16800           16800  60 months    11.55
## 1184 139285     20000       20000           20000  36 months    15.02
## 1185 139335      8000        8000            8000  36 months    19.92
## 1201 140193     20000       20000           20000  60 months    22.35
## 1204 140458     10000       10000           10000  60 months    16.14
## 1234 141962      9000        9000            9000  36 months    15.02
## 1235 142078     16000       16000           16000  60 months    12.73
## 1236 142109     12000       12000           12000  60 months    18.94
## 1240 142643     20000       20000           20000  36 months    20.89
## 1288 146191      6000        6000            6000  36 months    20.89
## 1289 146204      8000        8000            8000  36 months     7.84
## 1297 146786     21000       21000           21000  36 months    14.47
## 1303 147117     20000       20000           20000  60 months    20.89
## 1305 147424      1925        1925            1925  36 months    22.35
## 1318 148510      3600        3600            3600  36 months     6.11
## 1331 149511      5000        5000            5000  36 months    16.14
## 1332 149513      5600        5600            5600  36 months    14.47
## 1333 149576      5000        5000            5000  36 months    14.47
## 1350 151222     30000       30000           30000  60 months    22.35
## 1358 151956      4800        4800            4800  36 months    13.56
## 1359 151980      1200        1200            1200  36 months    13.56
## 1364 152349     12000       12000           12000  60 months    22.35
## 1370 152617     20000       20000           20000  36 months     6.67
## 1372 152807     18000       18000           18000  60 months     6.00
## 1377 153348     40000       40000           40000  36 months     7.84
## 1381 153667      6000        6000            6000  36 months    14.47
## 1387 154084     20000       20000           20000  60 months     6.11
## 1401 154779     16000       16000           15975  36 months    17.97
## 1405 155137      5000        5000            5000  36 months    19.92
## 1417 155668     19000       19000           19000  36 months    15.02
## 1423 155826      7500        7500            7500  36 months    17.97
## 1426 155993      5000        5000            5000  36 months    10.47
## 1429 156152      6025        6025            6025  36 months    10.47
## 1436 156544      7500        7500            7500  36 months    24.37
## 1448 157220     12500       12500           12500  60 months    11.55
## 1454 157398      7000        7000            7000  36 months    11.55
## 1458 157475     12000       12000           12000  36 months     6.11
## 1467 158276     32000       32000           32000  60 months    12.73
## 1471 158465     15000       15000           15000  36 months     6.67
## 1474 159155      4500        4500            4500  36 months    11.55
## 1491 160065      8000        8000            8000  36 months     7.84
## 1495 160339     35000       35000           35000  60 months    16.91
## 1498 160405      5000        5000            5000  36 months    11.55
## 1508 160731     10000       10000           10000  60 months    22.35
## 1515 161124      5000        5000            5000  36 months    11.06
## 1528 161828     33000       33000           33000  60 months    16.14
## 1536 162173      4800        4800            4800  36 months    15.02
## 1541 162708     30000       30000           30000  60 months    18.94
## 1549 163633     10000       10000           10000  60 months    11.55
## 1556 164019     12000       12000           12000  36 months    14.47
## 1561 164250      7000        7000            7000  36 months     8.46
## 1563 164376     16000       16000           16000  60 months    12.73
## 1565 164394      9600        9600            9600  36 months    15.02
## 1586 165378      4850        4850            4850  36 months    10.47
## 1587 165442      3400        3400            3400  36 months    16.14
## 1589 165504     16000       16000           16000  60 months    17.97
## 1602 166398      5025        5025            5025  36 months    27.27
## 1615 167767      6000        6000            6000  36 months    10.08
## 1625 168927      8400        8400            8400  36 months    13.56
## 1630 169245     24000       24000           24000  36 months    17.97
## 1635 169680      1500        1500            1500  36 months    16.14
## 1654 171044     18000       18000           18000  36 months    17.97
## 1655 171093      3600        3600            3600  36 months    10.47
## 1670 172048     16800       16800           16800  36 months    10.47
## 1682 172636     32000       32000           32000  36 months    16.14
## 1687 172907      4500        4500            4500  36 months     6.67
## 1690 172984      5000        5000            5000  36 months    24.37
## 1694 173088      8000        8000            8000  36 months     6.67
## 1695 173135      7500        7500            7500  36 months    15.02
## 1697 173543     16000       16000           16000  36 months    20.89
## 1698 173660      5000        5000            5000  36 months    16.14
## 1705 174169     20400       20400           20400  36 months    16.14
## 1709 174410     10000       10000           10000  36 months     7.84
## 1719 175152     10000       10000           10000  36 months    20.89
## 1720 175337     11000       11000           11000  36 months     7.21
## 1731 175883     32000       32000           32000  36 months     6.11
## 1736 176064      8500        8500            8500  36 months    22.35
## 1740 176398     12000       12000           12000  60 months    26.31
## 1745 176755      7000        7000            7000  36 months     6.67
## 1746 176772     30000       30000           30000  60 months    24.37
## 1758 177146     24500       24500           24500  36 months    11.55
## 1769 177598     10000       10000           10000  60 months    24.37
## 1778 178214     15000       15000           15000  36 months    11.55
## 1793 179137      7500        7500            7500  36 months    15.02
## 1795 179285      4000        4000            4000  36 months    14.47
## 1797 179378     15000       15000           15000  36 months     6.11
## 1800 179602      6000        6000            6000  36 months    18.94
## 1807 180422     12400       12400           12400  60 months    14.47
## 1815 180861     12000       12000           12000  60 months    13.56
```

```
## 1818 180982      3500        3500            3500  36 months     7.21
## 1826 181279     12000       12000           12000  36 months    10.08
## 1827 181344     35000       35000           35000  60 months    17.97
## 1835 182075      7000        7000            7000  36 months     8.46
## 1837 182086     10000       10000           10000  36 months    14.47
## 1840 182191     10000       10000           10000  36 months     8.46
## 1845 182262     35000       35000           35000  36 months    11.55
## 1851 182488     13000       13000           13000  36 months    14.47
## 1859 182959     10000       10000           10000  36 months    13.56
## 1863 183178     13500       13500           13500  36 months     6.11
## 1878 183853     19200       19200           19200  60 months    16.91
## 1903 185539     16500       16500           16500  60 months    13.56
## 1909 185855      6500        6500            6500  36 months    18.94
## 1914 186010     10000       10000           10000  36 months    22.35
## 1928 186821     19000       19000           19000  60 months    25.34
## 1947 187895      8000        8000            8000  36 months    19.92
## 1953 188261      5500        5500            5500  36 months     8.46
## 1955 188296     12000       12000           12000  36 months    10.08
## 1965 188902     35000       35000           35000  60 months    19.92
## 1978 189706     25000       25000           25000  36 months    13.56
## 1980 189772     10000       10000           10000  36 months    11.55
## 2007 190767     16000       16000           16000  36 months    11.06
## 2009 190922     10000       10000           10000  60 months    20.89
## 2031 192126      5000        5000            5000  36 months    15.02
## 2040 192468      3000        3000            3000  36 months    17.97
## 2044 192711     10000       10000           10000  60 months    13.56
## 2049 193177      3600        3600            3600  36 months     8.46
## 2052 193412     15000       15000           15000  36 months    13.56
## 2057 193791     11400       11400           11400  36 months    10.08
## 2059 193951      1500        1500            1500  36 months    22.35
## 2063 194209     11500       11500           11500  60 months    16.14
## 2067 194587      7000        7000            7000  36 months     7.84
## 2097 195992      2000        2000            2000  36 months    16.14
## 2102 196119      6500        6500            6500  36 months    11.55
## 2106 196308     22000       22000           22000  36 months    16.91
## 2111 196639     10000       10000           10000  36 months    10.47
## 2112 196660      2250        2250            2250  36 months    15.02
## 2113 196663     25500       25500           25500  36 months    10.08
## 2118 197131      9000        9000            9000  36 months     8.46
## 2120 197163      5000        5000            5000  36 months     8.46
## 2122 197179      4000        4000            4000  36 months    22.35
## 2125 197603      3025        3025            3025  36 months    10.47
## 2130 197991      4000        4000            4000  36 months    17.97
## 2133 198114     19000       19000           19000  36 months    13.56
## 2139 198313     10000       10000           10000  60 months    27.27
## 2144 198581      1000        1000            1000  36 months    16.14
## 2156 198983     15000       15000           15000  36 months     7.84
## 2160 199321      4000        4000            4000  36 months    11.55
## 2182 200255     21175       21175           21175  60 months    16.14
## 2183 200262     20000       20000           20000  60 months    19.92
## 2186 200329      8000        8000            8000  36 months    11.55
## 2210 201652      7000        7000            7000  36 months    10.47
## 2221 202176     14000       14000           14000  36 months    18.94
## 2233 202974      6025        6025            6025  36 months    13.56
## 2235 203200     18000       18000           18000  36 months    10.08
## 2240 203428      4800        4800            4800  36 months     7.21
## 2247 203774      3000        3000            3000  36 months     8.46
## 2249 203899     10000       10000           10000  60 months    16.91
## 2251 204097     12000       12000           12000  60 months    16.91
## 2261 204774      6000        6000            6000  36 months     6.67
## 2262 204789      7625        7625            7625  36 months    13.56
## 2275 205601      3000        3000            3000  36 months    15.02
## 2284 205933     15000       15000           15000  60 months    14.47
## 2313 207367     16800       16800           16800  60 months    16.91
## 2314 207426      6000        6000            6000  36 months    13.56
## 2332 208268      4200        4200            4200  36 months    11.06
## 2333 208352     15000       15000           15000  36 months    13.56
## 2334 208442     10000       10000           10000  60 months    13.56
## 2344 208864      6000        6000            6000  36 months    16.91
## 2346 209033     10000       10000           10000  36 months    20.89
## 2349 209109     10000       10000           10000  60 months    14.47
## 2352 209240      5000        5000            5000  36 months    12.73
## 2359 209409     12000       12000           12000  36 months    18.94
## 2364 209623      7000        7000            6750  36 months    11.55
## 2371 209885     12000       12000           12000  60 months    20.89
## 2380 210288     15000       15000           15000  60 months    20.89
## 2388 210541     40000       40000           40000  36 months    11.55
## 2398 210821      1200        1200            1200  36 months    16.14
## 2400 210895      8400        8400            8400  36 months    18.94
## 2401 210949      9800        9800            9800  36 months    19.92
## 2408 211338     10000       10000           10000  36 months     6.11
## 2410 211417     10000       10000           10000  36 months    10.08
## 2415 211727      7500        7500            7500  36 months    17.97
## 2424 212069     35000       35000           35000  60 months    13.56
## 2427 212165      5125        5125            5125  36 months    13.56
## 2428 212287      7000        7000            7000  36 months     7.21
## 2445 213105      3500        3500            3500  36 months    14.47
## 2454 213444      3000        3000            3000  36 months    11.55
## 2458 213704      2000        2000            2000  36 months    11.06
## 2459 213717      5000        5000            5000  36 months    10.08
## 2461 213761      2500        2500            2500  36 months    23.40
## 2475 214549      2000        2000            2000  36 months    12.73
## 2479 214679      4000        4000            4000  36 months    30.84
## 2482 214759      3000        3000            3000  36 months    20.89
## 2497 215451     16000       16000           15725  36 months    11.55
## 2506 216207     14000       14000           14000  60 months     6.11
## 2508 216289     10000       10000           10000  36 months    12.73
## 2518 216851      5000        5000            5000  36 months    15.02
```

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## 2521 216942     30000       30000           30000  60 months    18.94
## 2526 217109     10000       10000           10000  36 months    23.40
## 2528 217137     12000       12000           12000  36 months    11.55
## 2532 217204     15000       15000           15000  36 months    15.02
## 2534 217289     20000       20000           20000  60 months    16.14
## 2537 217412      5000        5000            5000  36 months    19.92
## 2543 217570      3000        3000            3000  36 months    19.92
## 2555 218191     10000       10000           10000  36 months    16.14
## 2559 218311     12000       12000           12000  60 months    10.47
## 2565 218548     35000       35000           35000  36 months     7.84
## 2569 218637     16800       16800           16775  36 months    10.47
## 2575 218846     40000       40000           40000  60 months    11.55
## 2577 218997      4000        4000            4000  36 months    10.08
## 2584 219322     10725       10725           10725  36 months    12.73
## 2586 219439      2400        2400            2400  36 months    12.73
## 2610 220729     15000       15000           15000  36 months     7.84
## 2621 221044      8000        8000            8000  36 months    11.06
## 2634 221683      9600        9600            9600  36 months    18.94
## 2646 222069      6000        6000            6000  36 months    10.08
## 2653 222492      2800        2800            2800  36 months    14.47
## 2656 222524     13000       13000           13000  60 months    13.56
## 2664 222952      8000        8000            8000  36 months     7.84
## 2668 223261      3600        3600            3600  36 months     7.84
## 2669 223335      3500        3500            3500  36 months    16.14
## 2675 223551     18000       18000           18000  36 months    14.47
## 2676 223559     38400       38400           38400  60 months    15.02
## 2685 224129     20000       20000           20000  36 months    13.56
## 2699 224555     10000       10000           10000  36 months     6.11
## 2706 224771      1500        1500            1500  36 months    15.02
## 2711 224905      8000        8000            8000  36 months    12.73
## 2717 225321     14000       14000           14000  60 months    13.56
## 2719 225387      8725        8725            8725  36 months    16.14
## 2720 225388     20000       20000           19975  36 months    15.02
## 2728 225794     40000       40000           40000  60 months     8.46
## 2737 226259      4000        4000            4000  36 months    11.55
## 2740 226330     18000       18000           17750  36 months    10.47
## 2746 226770      9800        9800            9800  36 months    17.97
## 2748 226800     32000       32000           32000  60 months    14.47
## 2759 227376      4000        4000            4000  36 months    16.14
## 2760 227402      5500        5500            5500  36 months    11.06
## 2783 228393      6000        6000            6000  36 months    16.91
## 2784 228434      8000        8000            8000  36 months    10.08
## 2793 229055     25200       25200           25200  60 months    19.92
## 2794 229070     15000       15000           15000  36 months    17.97
## 2804 229439     16000       16000           16000  60 months    27.27
## 2809 229724     30000       30000           30000  36 months    17.97
## 2815 229960     14025       14025           14025  36 months     7.21
## 2823 230142     15000       15000           15000  36 months    22.35
## 2828 230429     19200       19200           19200  60 months    27.27
## 2829 230435     16100       16100           16100  36 months    24.37
## 2836 230558     15000       15000           15000  36 months    20.89
## 2849 231238      7000        7000            7000  36 months    11.06
## 2862 231681     20000       20000           20000  36 months    13.56
## 2864 231773      9500        9500            9500  36 months     8.46
## 2870 231993      5500        5500            5500  36 months     8.46
## 2871 232063      3850        3850            3850  36 months     8.46
## 2881 232649     35000       35000           35000  60 months    19.92
## 2890 232890     11000       11000           11000  36 months     7.84
## 2902 233389     14000       14000           14000  36 months    18.94
## 2904 233412     25600       25600           25600  60 months    17.97
## 2905 233440     12000       12000           12000  60 months    20.89
## 2909 233585     13000       13000           13000  60 months    15.02
## 2910 233613      6000        6000            6000  36 months    19.92
## 2921 234175     10000       10000           10000  36 months     7.21
## 2926 234569      5000        5000            5000  36 months    16.91
## 2937 235195      4500        4500            4500  36 months    13.56
## 2943 235400     18000       18000           18000  36 months    16.91
## 2945 235452     25000       25000           25000  36 months    14.47
## 2953 235638     15000       15000           15000  36 months    11.06
## 2963 236060     35000       35000           35000  60 months    16.14
## 2964 236076     15000       15000           15000  36 months    18.94
## 2987 237184      5000        5000            5000  36 months     7.21
## 2990 237294     14500       14500           14500  36 months    11.06
## 2996 237380      5000        5000            5000  36 months    18.94
## 2997 237422     13000       13000           13000  60 months    15.49
## 2998 237427     35000       35000           35000  36 months    13.56
## 3011 237915      4000        4000            4000  36 months    16.91
## 3013 237937     10000       10000           10000  36 months     8.46
## 3014 237994      8400        8400            8400  36 months     7.21
## 3015 238003      3200        3200            3200  36 months    16.14
## 3019 238138     24000       24000           24000  36 months    11.55
## 3020 238223     12000       12000           12000  36 months     8.46
## 3038 238799      3000        3000            3000  36 months    10.47
## 3046 239257     17000       17000           17000  36 months    15.02
## 3055 239668     10000       10000           10000  36 months     7.21
## 3066 240273     30000       30000           30000  60 months    27.27
## 3068 240325      7200        7200            7200  36 months    11.55
## 3069 240520      6000        6000            6000  36 months    15.02
## 3077 241137     20000       20000           19725  36 months    11.55
## 3091 241711      9650        9650            9650  36 months    11.06
## 3109 242455     23000       23000           23000  60 months    14.47
## 3110 242465      7700        7700            7700  36 months    10.08
## 3111 242494     12800       12800           12800  36 months    17.97
## 3114 242598     14000       14000           14000  60 months    16.91
## 3115 242621      8000        8000            8000  36 months     8.46
## 3127 243169     10000       10000           10000  60 months    20.89
## 3128 243221     24000       24000           24000  36 months    16.91
## 3129 243227     12000       12000           12000  36 months    12.73
```

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## 3139 243711     16000       16000           16000  36 months    12.73
## 3144 244071      2800        2800            2800  36 months    14.47
## 3148 244181     20000       20000           20000  60 months    27.27
## 3157 244459     30000       30000           30000  36 months    17.97
## 3167 244793      2000        2000            2000  36 months    16.91
## 3168 244823      3500        3500            3500  36 months    17.97
## 3191 245807     40000       40000           40000  36 months    10.47
## 3192 245820      6000        6000            6000  36 months    18.94
## 3195 245868     15000       15000           14975  36 months    15.02
## 3197 246015      2000        2000            2000  36 months    10.08
## 3207 246172     15000       15000           15000  36 months    16.14
## 3220 246602     40000       40000           40000  60 months    15.02
## 3235 247225      5000        5000            5000  36 months    10.08
## 3240 247357     28025       28025           28025  36 months    18.94
## 3242 247472     16500       16500           16500  36 months    14.47
## 3245 247553      4000        4000            4000  36 months    12.73
## 3248 247606     32000       32000           32000  36 months    16.46
## 3249 247631      5000        5000            5000  36 months     8.46
## 3250 247659     27000       27000           27000  36 months    11.06
## 3253 247695     16000       16000           16000  36 months     8.46
## 3255 247716     10000       10000           10000  36 months     6.83
## 3263 248253      8000        8000            8000  36 months     7.21
## 3264 248260      2000        2000            2000  36 months    12.13
## 3275 248570     21000       21000           21000  60 months    12.13
## 3284 249065     16000       16000           16000  36 months    19.92
## 3301 249768      7200        7200            7200  36 months    11.05
## 3324 250480      6700        6700            6700  36 months     9.58
## 3327 250644      9600        9600            9600  36 months     6.67
## 3328 250701      9000        9000            9000  36 months    14.47
## 3338 251048      5500        5500            5500  36 months    10.07
## 3340 251149     21000       21000           21000  60 months    20.89
## 3348 251521     10000       10000           10000  36 months    15.02
## 3373 252557      9500        9500            9500  36 months    15.02
## 3375 252712      5600        5600            5600  36 months    16.91
## 3377 252780     20000       20000           20000  36 months    14.52
## 3382 252843      6025        6025            6025  36 months    11.55
## 3385 252945     10000       10000           10000  36 months    11.06
## 3390 253083      3200        3200            3200  36 months    10.47
## 3391 253122     10000       10000           10000  60 months    21.85
## 3405 253506     15000       15000           15000  36 months     8.08
## 3414 253875      6000        6000            6000  36 months    12.73
## 3415 253904     12000       12000           12000  60 months    15.02
## 3418 253951      5000        5000            5000  36 months     8.08
## 3423 254088     20000       20000           20000  36 months    16.91
## 3437 254571      1200        1200            1200  36 months    11.55
## 3452 255112     11775       11775           11775  60 months    14.47
## 3461 255415      1000        1000            1000  36 months    15.49
## 3468 255659     18600       18600           18600  60 months    30.79
## 3470 255696     19000       19000           19000  60 months    12.13
## 3473 255813      2500        2500            2500  36 months    11.05
## 3476 256087     11000       11000           11000  60 months     7.46
## 3478 256138      7400        7400            7400  36 months     9.58
## 3495 256636      6000        6000            6000  36 months    22.90
## 3496 256780      6500        6500            6500  36 months    14.03
## 3499 256853      1200        1200            1200  36 months    19.42
## 3512 257439      2000        2000            2000  36 months     6.19
## 3514 257543     10000       10000           10000  36 months    13.06
## 3524 257891     20000       20000           20000  36 months    15.49
## 3526 257972     20000       20000           20000  60 months    21.85
## 3528 258071     10000       10000           10000  36 months     6.19
## 3529 258079     17000       17000           17000  60 months    17.47
## 3533 258332     13925       13925           13925  36 months     9.58
## 3549 258910      5000        5000            5000  36 months    24.84
## 3551 258972     12000       12000           12000  36 months    15.49
## 3552 258986      8000        8000            8000  36 months    21.85
## 3563 259315      6000        6000            6000  36 months     7.46
## 3570 259417      6000        6000            6000  36 months     9.58
## 3573 259591     40000       40000           40000  60 months    13.06
## 3583 259877     10000       10000           10000  36 months    10.56
## 3587 260112     20000       20000           20000  36 months    11.05
## 3597 260660     19000       19000           19000  36 months    13.06
## 3601 260816     14400       14400           14400  60 months    16.46
## 3609 261136     13000       13000           13000  60 months    20.39
## 3618 261827     19200       19200           19200  60 months    14.03
## 3620 261890     40000       40000           40000  60 months    14.03
## 3626 262486     32000       32000           32000  60 months    15.49
## 3627 262519      8500        8500            8475  36 months    16.46
## 3638 263078     35000       35000           35000  36 months     8.08
## 3643 263200      5400        5400            5400  36 months    13.06
## 3647 263287     35000       35000           35000  60 months    17.47
## 3652 263561      5000        5000            5000  36 months    20.39
## 3654 263568      4025        4025            4025  36 months    14.03
## 3664 264046     15000       15000           15000  60 months    10.07
## 3669 264174      7200        7200            7200  36 months    18.45
## 3676 264371     10500       10500           10500  60 months    26.77
## 3677 264394      6000        6000            6000  36 months    11.05
## 3689 264927     10000       10000           10000  60 months    16.46
## 3694 265164     10000       10000           10000  36 months    11.05
## 3695 265170     12000       12000           12000  36 months    12.13
## 3696 265203     25000       25000           25000  60 months    26.77
## 3724 265863     18200       18200           18200  36 months    10.56
## 3725 265920      6000        6000            6000  36 months    13.06
## 3753 266862      7000        7000            7000  36 months    21.85
## 3772 267592     13000       13000           13000  36 months    19.42
## 3792 268354     22000       22000           22000  60 months    13.06
## 3793 268394     21600       21600           21600  36 months    12.13
## 3795 268409     13725       13725           13725  60 months    12.13
## 3797 268580     16850       16850           16850  60 months    28.72
```

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## 3798 268596      8000        8000            8000  36 months    10.07
## 3806 268880      7500        7500            7500  36 months    21.85
## 3812 269115     10000       10000           10000  60 months    18.45
## 3818 269320     15000       15000           15000  36 months    10.07
## 3820 269469      6000        6000            6000  36 months    12.13
## 3823 269503     16000       16000           16000  36 months    10.07
## 3829 269631     12500       12500           12500  36 months    11.05
## 3838 269996     35000       35000           35000  60 months    15.49
## 3842 270060     30000       30000           30000  36 months     8.08
## 3848 270293      1500        1500            1500  36 months     9.58
## 3863 270713     32000       32000           32000  60 months    14.52
## 3866 270786     10000       10000           10000  36 months    17.47
## 3867 270968     30000       30000           30000  36 months     6.83
## 3871 271107     10000       10000           10000  36 months    14.52
## 3880 271461     16000       16000           16000  36 months    20.39
## 3883 271504     28000       28000           28000  36 months    12.13
## 3891 271704      6000        6000            6000  36 months    19.42
## 3895 271956     16000       16000           15975  36 months    15.49
## 3896 271962     24000       24000           24000  60 months    28.72
## 3898 272040     20000       20000           20000  36 months     6.19
## 3903 272516      5000        5000            5000  36 months    14.52
## 3916 273044     12000       12000           12000  60 months    24.84
## 3928 273427      4000        4000            4000  36 months    13.06
## 3930 273475      1600        1600            1600  36 months    19.42
## 3940 273558     11000       11000           11000  60 months    14.52
## 3957 273929     20000       20000           20000  36 months    13.06
## 3966 274105      2000        2000            2000  36 months    10.56
## 3992 275210     10000       10000           10000  36 months    14.03
## 3993 275215     19200       19200           19175  36 months    15.49
## 4000 275462     10000       10000           10000  60 months    26.77
## 4004 275541      8200        8200            8200  36 months    15.49
## 4012 275822     18000       18000           18000  36 months     7.46
## 4014 275839     22000       22000           22000  36 months     9.58
## 4025 276170      4000        4000            4000  36 months     6.83
## 4029 276259     35000       35000           35000  60 months    19.42
## 4032 276430      9000        9000            9000  36 months    18.45
## 4033 276444     15000       15000           15000  36 months     6.19
## 4059 277370      8000        8000            8000  36 months    12.13
## 4066 277569     35000       35000           35000  36 months    14.52
## 4067 277582     35000       35000           34750  36 months    11.05
## 4077 278176     19000       19000           19000  36 months     9.58
## 4087 278636     12000       12000           12000  36 months     8.08
## 4088 278663      3000        3000            3000  36 months    22.90
## 4091 278683     35000       35000           35000  36 months     6.83
## 4102 279269     22000       22000           22000  36 months    13.06
## 4106 279405     10000       10000           10000  36 months    12.13
## 4112 279488     30000       30000           30000  36 months    16.46
## 4127 280021      4000        4000            4000  36 months    12.13
## 4129 280145     25000       25000           25000  36 months    23.87
## 4130 280147      8400        8400            8400  36 months    14.52
## 4134 280312     12000       12000           12000  36 months    22.90
## 4145 280813     13300       13300           13300  36 months    19.42
## 4156 281023      9000        9000            9000  36 months     6.83
## 4158 281033     30000       30000           30000  36 months    12.13
## 4166 281316      4000        4000            4000  36 months     7.46
## 4167 281367      5025        5025            5025  36 months    13.06
## 4168 281379     11000       11000           11000  36 months     6.19
## 4171 281522     25000       25000           25000  36 months    15.49
## 4176 281677     20000       20000           20000  36 months    14.03
## 4182 281862      8000        8000            8000  36 months    11.05
## 4183 281867     28500       28500           28500  60 months    17.47
## 4184 281872     14000       14000           14000  60 months    19.42
## 4187 282036     35000       35000           35000  60 months    13.06
## 4190 282096     10000       10000           10000  36 months    15.49
## 4192 282100     25000       25000           25000  36 months    10.56
## 4195 282148     16000       16000           16000  36 months    18.45
## 4218 282962      7000        7000            6750  36 months    10.56
## 4223 283178      5400        5400            5400  36 months    11.05
## 4226 283231     12000       12000           12000  36 months    14.52
## 4227 283265     20000       20000           20000  60 months    14.52
## 4242 283498      8500        8500            8500  36 months    14.52
## 4244 283538      5000        5000            5000  36 months    12.13
## 4246 283577     14000       14000           14000  60 months    16.46
## 4250 283658      4000        4000            4000  36 months    12.13
## 4264 283879     20000       20000           20000  60 months    18.45
## 4276 284209      5500        5500            5500  36 months    16.46
## 4281 284391      2500        2500            2500  36 months    14.52
## 4288 284585     10000       10000           10000  60 months    15.49
## 4296 284732      3200        3200            3200  36 months    14.03
## 4299 284800     17000       17000           17000  36 months    10.07
## 4302 284859      6500        6500            6500  36 months    15.49
## 4312 285167     10000       10000           10000  36 months     6.83
## 4315 285219     35000       35000           35000  36 months    14.03
## 4319 285334     24000       24000           24000  60 months    11.05
## 4327 285577     10000       10000           10000  36 months    19.42
## 4329 285677      1200        1200            1200  36 months    15.49
## 4332 285736     12000       12000           12000  36 months     7.46
## 4339 285974      3500        3500            3500  36 months    11.05
## 4340 286007      8000        8000            8000  36 months    10.56
## 4343 286097      7500        7500            7500  36 months    12.13
## 4345 286127     17000       17000           17000  60 months    29.69
## 4359 286691     12000       12000           12000  60 months    24.84
## 4361 286706      5000        5000            5000  36 months    13.06
## 4366 286745     15000       15000           15000  36 months    10.07
## 4373 286976      3000        3000            3000  36 months    19.42
## 4374 286977     30000       30000           30000  60 months    26.77
## 4384 287432     30000       30000           30000  60 months    13.06
## 4393 287667     25000       25000           25000  60 months    13.06
```

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## 4396 287841      8000        8000            8000  36 months    13.06
## 4409 288208     20000       20000           20000  36 months    14.52
## 4417 288397      6000        6000            6000  36 months    11.05
## 4422 288632      7900        7900            7900  36 months     7.46
## 4434 288852     15000       15000           15000  60 months    25.81
## 4438 289213      3500        3500            3500  36 months     7.46
## 4439 289251      5000        5000            5000  36 months     6.19
## 4444 289521     10000       10000           10000  36 months    11.05
## 4446 289532     10000       10000           10000  36 months    10.56
## 4454 289855     15600       15600           15600  36 months    15.49
## 4457 289940     10000       10000           10000  60 months    25.81
## 4460 290081     18000       18000           18000  36 months    10.56
## 4462 290167      6500        6500            6500  36 months    14.52
## 4467 290334     24000       24000           24000  36 months    12.13
## 4475 290620     15000       15000           15000  60 months    10.07
## 4480 290748      5000        5000            5000  36 months     9.58
## 4493 291285     13000       13000           12975  36 months    18.45
## 4496 291470     25000       25000           25000  60 months    11.05
## 4508 292018      1500        1500            1500  36 months    10.56
## 4513 292144     10000       10000           10000  36 months    12.13
## 4515 292210     12000       12000           12000  60 months    28.72
## 4521 292298      2000        2000            2000  36 months    14.52
## 4541 293023      8525        8525            8525  36 months    15.49
## 4542 293081     11000       11000           11000  36 months     9.58
## 4549 293240      8500        8500            8500  36 months     8.08
## 4556 293485     32500       32500           32500  36 months     7.46
## 4559 293507     30000       30000           30000  60 months    13.06
## 4560 293519      7800        7800            7800  36 months    18.45
## 4570 293855      6000        6000            6000  36 months     7.46
## 4572 294056     25000       25000           25000  60 months    14.52
## 4574 294086      6000        6000            6000  36 months    20.39
## 4578 294142     23000       23000           23000  60 months    17.47
## 4582 294379     20000       20000           20000  60 months    16.46
## 4596 294702     14000       14000           14000  36 months    13.06
## 4600 294793     24000       24000           24000  60 months    21.85
## 4612 295294     28750       28750           28750  36 months    13.06
## 4619 295767     30000       30000           30000  36 months    19.42
## 4628 296103      4000        4000            4000  36 months    18.45
## 4637 296379      4800        4800            4800  36 months    12.13
## 4652 296892     21000       21000           20975  36 months    21.85
## 4655 296967     25000       25000           25000  60 months    17.47
## 4657 297047     18000       18000           18000  60 months    24.84
## 4666 297375     35000       35000           35000  60 months    20.39
## 4686 297755     30000       30000           30000  36 months     8.08
## 4689 297827     10000       10000           10000  36 months    12.13
## 4693 297893     20000       20000           20000  60 months    26.77
## 4694 297909     22550       22550           22550  60 months    14.03
## 4702 298236     23000       23000           23000  36 months    12.13
## 4705 298282     12000       12000           12000  36 months     9.58
## 4707 298370     20000       20000           20000  60 months    17.47
## 4713 298488      3000        3000            3000  36 months    14.52
## 4716 298526     40000       40000           40000  60 months    15.49
## 4727 298964      5000        5000            5000  36 months    14.52
## 4733 299235     10000       10000           10000  60 months    25.81
## 4740 299426     10000       10000           10000  36 months    10.07
## 4752 299795      4800        4800            4800  36 months    23.87
## 4757 299927     15000       15000           15000  36 months     6.19
## 4759 299943      5250        5250            5250  36 months    10.56
## 4761 299978      6000        6000            6000  36 months     9.58
## 4773 300245     20000       20000           20000  36 months    10.56
## 4782 300480     18325       18325           18325  60 months    30.79
## 4787 300655      5000        5000            5000  36 months    21.85
## 4789 300691     15000       15000           15000  36 months    18.45
## 4803 301131     10000       10000           10000  36 months    18.45
## 4826 302042      8000        8000            8000  36 months    13.06
## 4827 302061     20000       20000           20000  36 months    10.07
## 4828 302070      3000        3000            3000  36 months     5.31
## 4855 302813     15000       15000           15000  36 months     5.31
## 4857 302825      6500        6500            6500  36 months     8.08
## 4866 303055     12000       12000           11725  36 months    10.07
## 4869 303114     20700       20700           20700  36 months     5.31
## 4877 303242     10000       10000           10000  36 months     6.83
## 4881 303386     35000       35000           35000  36 months     7.46
## 4883 303431     10000       10000           10000  60 months    13.06
## 4919 304648      5600        5600            5600  36 months    12.13
## 4924 304715      8100        8100            8100  36 months    14.03
## 4932 304973     20000       20000           20000  60 months    18.45
## 4936 305123     10000       10000           10000  60 months    18.45
## 4939 305163     18000       18000           18000  60 months    15.49
## 4942 305207      9200        9200            9200  36 months    15.49
## 4964 305603     17000       17000           16975  36 months    14.03
## 4969 305811     18000       18000           18000  36 months     7.46
## 4994 306295     22000       22000           22000  36 months    11.05
## 5000 306429      4000        4000            4000  36 months    19.42
## 5002 306487     35000       35000           35000  36 months    16.46
## 5004 306494      3500        3500            3500  36 months    10.56
## 5005 306562     20000       20000           20000  36 months     9.58
## 5012 306866      8400        8400            8400  36 months     6.83
## 5013 306910     10000       10000           10000  60 months    15.49
## 5019 306999     12000       12000           12000  36 months    19.42
## 5028 307370     10000       10000           10000  36 months    16.46
## 5033 307487      4800        4800            4800  36 months    14.52
## 5056 308166      2500        2500            2500  36 months     6.19
## 5062 308267      1000        1000            1000  36 months    10.07
## 5067 308364     40000       40000           40000  36 months     9.58
## 5085 308859     16000       16000           16000  60 months    11.05
## 5101 309340      1500        1500            1500  36 months    21.85
## 5111 309727      4000        4000            4000  36 months    12.13
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## 5113 309843     12000       12000           12000  60 months    25.81
## 5119 310008     18000       18000           18000  60 months    16.46
## 5121 310021     16000       16000           16000  36 months    18.45
## 5127 310293     30000       30000           30000  36 months    17.47
## 5129 310399     12000       12000           12000  36 months     6.19
## 5144 310849     18000       18000           18000  36 months    19.42
## 5146 310931      4800        4800            4800  36 months    12.13
## 5149 311005     21650       21650           21650  36 months    21.85
## 5153 311067      4000        4000            4000  36 months    17.47
## 5172 311518      9500        9500            9500  36 months    10.07
## 5175 311656     25000       25000           25000  60 months    18.45
## 5178 311725     35000       35000           35000  36 months     6.07
## 5189 311969     15000       15000           15000  36 months    14.03
## 5198 312236     16000       16000           16000  60 months    13.06
## 5199 312296      2500        2500            2500  36 months    14.52
## 5208 312526      9000        9000            9000  36 months    16.46
## 5222 312886      6000        6000            6000  36 months    11.05
## 5226 312970     19000       19000           19000  36 months     6.83
## 5227 312989      5000        5000            5000  36 months    12.13
## 5231 313036      5600        5600            5600  36 months    20.39
## 5253 313537     24000       24000           24000  60 months    24.84
## 5263 313991     11200       11200           11200  36 months    13.06
## 5272 314195     10000       10000           10000  36 months     6.19
## 5280 314408      7000        7000            7000  36 months     6.71
## 5288 314665     20000       20000           20000  36 months     7.46
## 5289 314687     20000       20000           20000  36 months    13.06
## 5293 314765     25000       25000           25000  36 months     7.34
## 5296 314835     24000       24000           24000  60 months    15.49
## 5318 315330      6000        6000            6000  36 months    12.61
## 5323 315415     18000       18000           18000  36 months     6.19
## 5338 316027     13000       13000           13000  36 months     7.46
## 5366 316826      8000        8000            8000  36 months    18.45
## 5374 317057     12000       12000           12000  36 months    14.03
## 5378 317155      9600        9600            9600  36 months    13.06
## 5386 317484     35000       35000           35000  36 months     8.08
## 5391 317703     25000       25000           25000  60 months    18.45
## 5398 317941      8000        8000            8000  36 months    13.06
## 5414 318450     10000       10000           10000  60 months    16.46
## 5423 318591     15000       15000           15000  60 months    14.52
## 5426 318696     32000       32000           32000  60 months    21.85
## 5430 318834     11000       11000           11000  60 months    16.01
## 5434 318882      3000        3000            3000  36 months    19.42
## 5439 318974     15500       15500           15500  36 months     9.43
## 5457 319473     16700       16700           16700  60 months    13.06
## 5461 319646     36000       36000           36000  36 months    10.56
## 5463 319662     10000       10000           10000  36 months    18.45
## 5469 319894     10000       10000           10000  36 months    12.61
## 5471 319974      3200        3200            3200  36 months    17.47
## 5487 320322     15000       15000           15000  36 months     9.58
## 5489 320392     13000       13000           13000  60 months    14.52
## 5493 320438      7500        7500            7500  36 months    10.56
## 5495 320454     22000       22000           22000  36 months    16.46
## 5504 320612     25000       25000           25000  60 months    15.49
## 5512 320882      8500        8500            8250  36 months     9.58
## 5520 321072     21425       21425           21425  60 months    26.77
## 5526 321150     20000       20000           20000  60 months    18.45
## 5528 321176      4500        4500            4500  36 months    14.52
## 5530 321221     20000       20000           20000  36 months    10.07
## 5542 321574     35000       35000           35000  60 months    15.49
## 5546 321807     12400       12400           12400  36 months    22.90
## 5560 322111     20000       20000           20000  36 months     7.46
## 5572 322320      1000        1000            1000  36 months    10.56
## 5606 323165     16000       16000           16000  60 months    21.85
## 5617 323423      9000        9000            9000  36 months    14.52
## 5618 323443      8000        8000            8000  36 months    13.06
## 5631 323984      7000        7000            7000  36 months     8.08
## 5644 324371     17000       17000           17000  60 months    26.77
## 5645 324407     12000       12000           12000  60 months    15.49
## 5650 324517     20000       20000           20000  60 months    26.77
## 5652 324623      5000        5000            5000  36 months    15.49
## 5653 324626     40000       40000           40000  60 months     9.92
## 5655 324636     10000       10000           10000  36 months    20.39
## 5657 324666     10000       10000           10000  36 months     5.31
## 5662 324757     13000       13000           13000  36 months    12.13
## 5678 325202     12000       12000           12000  60 months    13.06
## 5682 325278      5500        5500            5500  36 months    18.45
## 5686 325403     16000       16000           16000  60 months    25.81
## 5691 325543      3000        3000            3000  36 months     9.58
## 5701 325929     24000       24000           24000  36 months    13.58
## 5702 325987     17000       17000           17000  60 months    17.47
## 5713 326191     24000       24000           24000  60 months    19.42
## 5714 326238     30000       30000           30000  60 months    17.47
## 5719 326348     18000       18000           18000  36 months     7.46
## 5726 326459      9000        9000            9000  36 months    18.45
## 5730 326534      6000        6000            6000  36 months    16.46
## 5735 326718     15000       15000           15000  36 months    15.49
## 5738 326759     23000       23000           23000  36 months    22.90
## 5740 326873     30000       30000           30000  60 months    12.61
## 5742 326989     13500       13500           13500  60 months    21.85
## 5746 327075      1000        1000            1000  36 months    15.49
## 5748 327127      5600        5600            5600  36 months    21.85
## 5755 327188     30000       30000           30000  36 months    19.42
## 5774 327838     13825       13825           13825  36 months    16.01
## 5780 328022      8000        8000            8000  36 months    18.45
## 5790 328331      7850        7850            7850  36 months    22.90
## 5805 328656     20000       20000           20000  36 months    15.04
## 5813 328846     10000       10000           10000  36 months     7.34
## 5829 329378      6000        6000            6000  36 months    21.85
```

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## 5837 329540     18000       18000           18000  36 months    16.01
## 5839 329573     16000       16000           16000  36 months    14.52
## 5855 330015      2800        2800            2800  36 months    13.58
## 5864 330162     12800       12800           12800  60 months    25.81
## 5871 330313     24000       24000           24000  60 months    11.98
## 5879 330627     15000       15000           15000  60 months    28.72
## 5894 331075     20000       20000           20000  60 months    14.07
## 5900 331184     35000       35000           35000  36 months    13.58
## 5905 331348     35000       35000           35000  36 months    12.61
## 5909 331570     16200       16200           16200  36 months     5.31
## 5911 331608      5000        5000            5000  36 months    14.07
## 5920 331855      2500        2500            2500  36 months    18.45
## 5926 332056     11000       11000           11000  36 months    13.58
## 5934 332280     35000       35000           35000  36 months     7.34
## 5937 332349     10000       10000           10000  60 months    20.39
## 5939 332438     25000       25000           25000  36 months    10.90
## 5941 332471     25000       25000           25000  36 months     6.71
## 5945 332513      4500        4500            4500  36 months     7.96
##      installment grade sub_grade                          emp_title
## 1         147.99     B        B3                  Accounts Examiner III
## 13        314.25     A        A4                  Customer Service Agent
## 26        975.71     C        C4                                  Driver
## 29        188.64     B        B5            Lead Inspector/Risk Assessor
## 56        534.12     C        C5                Intake Reimbursement Sr.
## 58        118.39     B        B3                              press room
## 62        194.54     B        B1             Principal Software Engineer
## 79        388.62     D        D2
## 81        308.87     A        A2                     Program Coordinator
## 85        163.04     B        B2                          Team Leader II
## 89       1232.92     C        C4                         Account Manager
## 94         42.92     G        G2                                 manager
## 95         35.61     B        B4                  Instructor Integrator
## 100       679.29     C        C1                               President
## 123       243.93     C        C4              Documentation Adminstrator
## 129        71.22     C        C5                            Veterinarian
## 131       137.84     A        A1                             Social Work
## 146       483.86     C        C1                     Provider Relations
## 157       170.92     C        C5                     Patien Coordinator
## 177       314.25     A        A4            SVP Global Head of Risk Mngt
## 188      1358.58     C        C1                             Executive VP
## 189       201.45     D        D2                         Claims associate
## 209       647.69     D        D2                          Staff Sergeant
## 211       293.41     B        B4                        Resident Engineer
## 214       293.01     D        D2   Compliance Safety and Health Officer
## 223       486.34     B        B1                 Shipping and Receiving
## 228       195.64     B        B2
## 237       648.45     B        B1                                Attorney
## 256       122.53     A        A1                           QA Specialist
## 266       704.53     C        C4                               AV/IT tech
## 280       823.79     B        B3
## 282       657.72     B        B3                           Office manager
## 288       761.62     C        C3                Sr. quality engineer lead
## 289       370.64     A        A2      Director of Finance and Operations
## 291       134.78     A        A5             Masterflex printer operator
## 293       354.30     B        B4                            Sr Director
## 299        88.07     C        C4                              Supervisor
## 300       126.85     A        A5                                mechanic
## 303       165.60     B        B4                           Cell operator
## 320       809.75     D        D4                                     CNA
## 333       475.68     A        A5                         Program Director
## 339       253.63     C        C4                         Environmentalist
## 342       834.55     D        D5                                  Teacher
## 363       498.15     A        A3                         Business Manager
## 372       657.72     B        B3                                       RN
## 380      1292.20     B        B1                 SR Dir of Service Sales
## 398       204.26     A        A4                              Firefighter
## 401       886.53     E        E3
## 404       198.72     B        B4              Director Client Operations
## 437       119.23     B        B4                              Accountant
## 447       230.41     C        C1                  Logistics coordinator
## 448       601.90     D        D4                   fleet finance manager
## 449       975.71     D        D1                          Superintendent
## 457       757.72     F        F1                            Truck Driver
## 463       612.01     D        D5                          Branch Manager
## 472       752.38     D        D4
## 478       325.24     D        D1                         Systems Engineer
## 489       445.48     D        D3              Finance Operations Manager
## 492       236.78     B        B3
## 498       906.77     D        D2                       Executive Director
## 510       290.95     D        D3                      Iron Worker Foreman
## 511       929.20     A        A3                          Senior Engineer
## 521       315.42     E        E2                                superviser
## 522        75.16     F        F1                   Head Security Monitor
## 534       495.00     B        B4        Fleet Manager/Operations Manager
## 535       528.99     D        D3                            Store Leader
## 538       258.44     B        B1
## 539       468.94     A        A4                          Police officer
## 554       693.51     C        C3                         Sr. Coordinator
## 557       536.34     A        A5           Director of cultural affairs
## 573        73.26     D        D2                         Registered Nurse
## 574       774.34     A        A3                        Sales consultant
## 586       975.71     C        C4                         Paraprofessional
## 595       543.74     B        B5                              Lab Analyst
## 599       294.25     A        A3                       Production Manager
## 603       357.62     B        B1         Senior User Experience Designer
## 604       167.83     B        B5         Customer Service Representative
## 633        78.16     A        A4                Media Control Specialist
## 643       116.96     B        B2                                Paramedic
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## 657      584.79    B       B2                Business Analyst Senior
## 661      487.33    B       B2                            Electrician
## 666      131.07    B       B3                              TEAM LEAD
## 686      105.19    E       E4
## 693      178.19    D       D3                                Lender
## 701      269.92    D       D4                mental health counselor
## 714      211.36    C       C4                                Packer
## 723      619.32    C       C2
## 732      323.90    D       D4                      Recovery Manager
## 733      312.63    A       A4
## 735      759.89    E       E1                                 Pilot
## 736       73.26    D       D2                     Warehouse manager
## 741      688.13    C       C2             Case Manager/Social Worker
## 742      188.10    D       D4                        Manager, FP&A
## 751      613.80    B       B1                   Associate Professor
## 756      396.75    D       D3               verification Specialist
## 759      101.90    C       C1                  Operations Supervisor
## 762      852.63    E       E1                              Partner
## 763      189.30    A       A5
## 765      484.58    B       B1                          TRUCK DRIVER
## 768       89.88    A       A4
## 773      327.68    B       B3                      Medical Assistant
## 774      271.72    C       C1                     Nurse Practitioner
## 776     1023.24    E       E5                       Registered Nurse
## 783      173.38    C       C3               Customer Service Engineer
## 785      218.84    A       A4                                Bakery
## 842      403.81    B       B1                              Producer
## 864      622.70    E       E1                Assistant Vice president
## 865      412.88    C       C2                     Software Developer
## 868      184.80    B       B4               Project Manager Assistant
## 876     1264.81    D       D1                              Director
## 888      176.68    A       A5                             Warehouse
## 927      128.19    D       D2                                Driver
## 929      625.26    A       A4                  Director of Operations
## 941      512.12    E       E4                    Broadcast Operations
## 944      335.65    B       B5                         Product Manager
## 947      751.77    B       B2           Manager, Patient care systems
## 948      245.76    B       B3                     Operations Officer
## 959      292.72    C       C4        Director of Elementary Education
## 970      762.04    B       B3                     Ed Tech Specialist
## 973      915.65    D       D2
## 979      389.86    B       B2                    Shipping/Receiving
## 980      211.36    C       C4                              Manager
## 981      413.86    B       B5
## 987      284.23    D       D1
## 991      134.26    B       B5                                 Owner
## 1001     630.99    A       A5             Exchange Operations Manager
## 1004     126.49    D       D1                       revenue recovery
## 1010     503.47    B       B5                                  MPE
## 1016     563.62    C       C4                                Owner
## 1018     761.80    A       A1                            IT Analyst
## 1019      63.10    A       A5                                    pa
## 1042     104.03    C       C3          Implementation Project Manager
## 1079      63.43    F       F2                   Project Coordinator
## 1087     356.08    C       C5                     meduical assistant
## 1093    1252.78    B       B5
## 1103     468.94    A       A4 Vice President Public Relations & Brand
## 1127     368.72    A       A2                     nurse practitioner
## 1132     156.32    A       A4                        Field Inspector
## 1137     339.23    B       B5                     nurse practitioner
## 1138     113.95    C       C5                                 CDQAR
## 1140     346.92    D       D1                            HR Manager
## 1144     231.00    B       B4                          Receptionist
## 1145     284.99    D       D2                              Paralegal
## 1154     361.38    D       D1                               CPD TECH
## 1156     550.68    E       E2                        Personal banker
## 1157     345.62    C       C1                          Store manager
## 1160     357.01    C       C3                                Fireman
## 1162     366.26    D       D2                            Care Giver
## 1165     384.57    D       D2                                    RN
## 1176     245.12    C       C2                             Supervisor
## 1180     511.17    B       B3                   Maintenance Foreman
## 1182     956.74    D       D1                        Sales Manager
## 1183     369.90    B       B4               Loan Document Specialist
## 1184     693.51    C       C3                            Process Tech
## 1185     296.99    D       D3               Operations Support Lead
## 1201     556.37    D       D5                             Assembler
## 1204     243.93    C       C4                  Senior Vice President
## 1234     312.08    C       C3                     Paraprofessional
## 1235     361.85    B       B5                              Operator
## 1236     310.90    D       D2                             Professor
## 1240     752.38    D       D4                     Associate Director
## 1288     225.72    D       D4                          Chief Dentist
## 1289     250.11    A       A4                                Teacher
## 1297     722.54    C       C2                         Quality Liason
## 1303     539.84    D       D4                                Analyst
## 1305      73.87    D       D5                            Supervisor
## 1318     109.70    A       A1                   Customer Service Rep
## 1331     176.14    C       C4             Manager of transit studies
## 1332     192.68    C       C2                   Commercial Engineer
## 1333     172.04    C       C2                       Project Manager
## 1350     834.55    D       D5                        Purchasing Mgr
## 1358     163.03    C       C1                Sr. Executive Assistant
## 1359      40.76    C       C1                         Auditor Expert
## 1364     333.82    D       D5
## 1370     614.53    A       A2                  Maintenance Supervisor
## 1372     346.06    B       B4                   Chief Warrant Officer
## 1377    1250.51    A       A4       Sr. Consultant Engagement Manager
```

```
## 1381      206.44     C        C2                          adminstrative
## 1387      387.68     A        A1                             Controller
## 1401      578.20     D        D1                        Front Desk Agent
## 1405      185.62     D        D3
## 1417      658.83     C        C3         Ocular Specialty Representative
## 1423      271.04     D        D1                             it manager
## 1426      162.45     B        B2                               mechanic
## 1429      195.75     B        B2              Talent Development Manager
## 1436      295.71     E        E2                        Sr. Underwriter
## 1448      275.23     B        B4                 Laboratory Technician
## 1454      231.00     B        B4         Portfolio Management Specialist
## 1458      365.67     A        A1                       Litigation Support
## 1467      723.69     B        B5                            store manager
## 1471      460.90     A        A2                 Senior DE Underwriter 3
## 1474      148.50     B        B4                        Division Manager
## 1491      250.11     A        A4                                 Manager
## 1495      868.15     C        C5                             AUTO DAMAGE
## 1498      165.00     B        B4            Senior Insurance Specialist
## 1508      278.19     D        D5      Administrative Services Specialist
## 1515      163.84     B        B3                                    Chef
## 1528      804.96     C        C4                       Operation Manager
## 1536      166.45     C        C3                               Professor
## 1541      777.23     D        D2                  Senior Project Manager
## 1549      220.18     B        B4                       Account Executive
## 1556      412.88     C        C2                          Branch Manager
## 1561      220.85     A        A5               Senior billing associate
## 1563      361.85     B        B5                          HR Specialist
## 1565      332.89     C        C3                Administrative Assistant
## 1586      157.57     B        B2                 UC Claims Adjudictor II
## 1587      119.77     C        C4                    Intelligence Analyst
## 1589      406.04     D        D1                   Training Coordinator
## 1602      205.88     E        E5                    Payroll Coordinator
## 1615      193.83     B        B1                                  Nurse
## 1625      285.31     C        C1                            Inside Sales
## 1630      867.30     D        D1                       Field Account Rep
## 1635       52.84     C        C4                               Custodial
## 1654      650.48     D        D1                                     LPN
## 1655      116.96     B        B2                          Outdoor sales
## 1670      545.81     B        B2                        Armored messager
## 1682     1127.24     C        C4                                 Teacher
## 1687      138.27     A        A2                           Scrum Master
## 1690      197.14     E        E2        Disability Management Specialist
## 1694      245.82     A        A2                        Senior Geologist
## 1695      260.07     C        C3                            Maintenance
## 1697      601.90     D        D4
## 1698      176.14     C        C4
## 1705      718.62     C        C4                        Office Assistant
## 1709      312.63     A        A4
## 1719      376.19     D        D4            Physical Therapist Assistant
## 1720      340.71     A        A3                          Assistant Dean
## 1731      975.10     A        A1                                      RN
## 1736      326.16     D        D5                 Director of operations
## 1740      361.50     E        E4                                 driving
## 1745      215.09     A        A2                     Telecommunications
## 1746      869.50     E        E2                             Controller
## 1758      808.50     B        B4                        Science Teacher
## 1769      289.84     E        E2                Administrative Assistant
## 1778      495.00     B        B4                        Registered Nurse
## 1793      260.07     C        C3                        Document Analyst
## 1795      137.63     C        C2                        Lead technichian
## 1797      457.08     A        A1                             Maintenance
## 1800      219.76     D        D2                               Bartender
## 1807      291.56     C        C2                           Title Officer
## 1815      276.49     C        C1                           Hr Generalist
## 1818      108.41     A        A3
## 1826      387.66     B        B1                             Executive I
## 1827      888.20     D        D1                           lead operator
## 1835      220.85     A        A5                              Bookkeeper
## 1837      344.07     C        C2
## 1840      315.50     A        A5                             Consultant
## 1845     1155.00     B        B4                        Product Director
## 1851      447.29     C        C2                     MASTER TECHNOLOGIST
## 1859      339.65     C        C1                             schedualer
## 1863      411.37     A        A1                       Operations Manager
## 1878      476.25     C        C5              Regional Solutions Manager
## 1903      380.18     C        C1                  Director of Operations
## 1909      238.07     D        D2                     Facility Coordinator
## 1914      383.72     D        D5                    Line crew supervisor
## 1928      561.47     E        E3                                 Teacher
## 1947      296.99     D        D3                Carrier Capacity Manager
## 1953      173.52     A        A5                                Scientist
## 1955      387.66     B        B1                        registered nurse
## 1965      925.73     D        D3                         Finance Auditor
## 1978      849.11     C        C1                      Executive Producer
## 1980      330.00     B        B4                   Dental network liaison
## 2007      524.28     B        B3                  Cash Management Manager
## 2009      269.92     D        D4                             Hub engineer
## 2031      173.38     C        C3
## 2040      108.42     D        D1                          medical billing
## 2044      230.41     C        C1                  Official Court Reporter
## 2049      113.58     A        A5                      Executive Director
## 2052      509.47     C        C1                          owner-operator
## 2057      368.28     B        B1                         LAW ENFORCEMENT
## 2059       57.56     D        D5                                     MSR
## 2063      280.52     C        C4                                 Courier
## 2067      218.84     A        A4                                   Nurse
## 2097       70.46     C        C4                       Front Load Driver
## 2102      214.50     B        B4                      Correction officer
```

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## 2106      783.38     C        C5    Healing justice program coordinator
## 2111      324.89     B        B2                     production designer
## 2112       78.02     C        C3                        receiving  clerk
## 2113      823.78     B        B1                                SERGEANT
## 2118      283.95     A        A5               Water quality field tech
## 2120      157.75     A        A5                    Industrial Engineer
## 2122      153.49     D        D5                  Radiology technologist
## 2125       98.28     B        B2                          Server/manager
## 2130      144.55     D        D1      Director of Curriculum Development
## 2133      645.33     C        C1                    Executive Assistant
## 2139      306.97     E        E5                           service tech
## 2144       35.23     C        C4                        Testing Analyst
## 2156      468.94     A        A4                         Coach Operator
## 2160      132.00     B        B4                        Sales Associate
## 2182      516.52     C        C4                      Equipment Operator
## 2183      528.99     D        D3                           Outside sales
## 2186      264.00     B        B4                                Operator
## 2210      227.42     B        B2                               Associate
## 2221      512.76     D        D2                          Loan processor
## 2233      204.64     C        C1
## 2235      581.49     B        B1                               PRESIDENT
## 2240      148.68     A        A3                          Sr Assistant
## 2247       94.65     A        A5
## 2249      248.05     C        C5            Senior Marketing Coordinator
## 2251      297.66     C        C5                       RECOVERY ANALYST
## 2261      184.36     A        A2                                  Labor
## 2262      258.98     C        C1                    Teachers assistant
## 2275      104.03     C        C3                 Senior Project Manager
## 2284      352.69     C        C2             Maternal fetal Sonographer
## 2313      416.72     C        C5                        Meat Dept Manager
## 2314      203.79     C        C1       Syndication's Account Coordinator
## 2332      137.63     B        B3                  Client Service Manager
## 2333      509.47     C        C1            Cargo Customer Service Agent
## 2334      230.41     C        C1                    Quality Technician
## 2344      213.65     C        C5                        Legal assistant
## 2346      376.19     D        D4               Transplant Center Liaison
## 2349      235.13     C        C2                  Merchandising manager
## 2352      167.83     B        B5                             ACCOUNTANT
## 2359      439.51     D        D2                   IT Governance Analyst
## 2364      231.00     B        B4                                   Nanny
## 2371      323.90     D        D4                       Registered Nurse
## 2380      404.88     D        D4                            Route Sales
## 2388     1320.00     B        B4                            Ops Manager
## 2398       42.28     C        C4                     Security Supervisor
## 2400      307.66     D        D2                          Lead Machinest
## 2401      363.81     D        D3
## 2408      304.72     A        A1                      Nurse Practitioner
## 2410      323.05     B        B1                     Benefits Coordinator
## 2415      271.04     D        D1                       clinical secretary
## 2424      806.43     C        C1                                Recruiter
## 2427      174.07     C        C1                         Project Analyst
## 2428      216.82     A        A3                         Safety Engineer
## 2445      120.43     C        C2                                 Manager
## 2454       99.00     B        B4                                Caregiver
## 2458       65.54     B        B3                                  Teacher
## 2459      161.53     B        B1                      MACHINE OPERATOR 2
## 2461       97.30     E        E1                     Border Patrol Agent
## 2475       67.13     B        B5                           OT Assistant
## 2479      171.66     G        G2                              Supervisor
## 2482      112.86     D        D4                  Certified Machine Tech
## 2497      528.00     B        B4                       Registered Nurse
## 2506      271.38     A        A1                                 Manager
## 2508      335.65     B        B5                     Dialysis Technician
## 2518      173.38     C        C3                             Senior BMET
## 2521      777.23     D        D2                                   Owner
## 2526      389.19     E        E1                       journeyman baker
## 2528      396.00     B        B4                  Chief Operating Officer
## 2532      520.13     C        C3                               Job Coach
## 2534      487.86     C        C4                Associate vice president
## 2537      185.62     D        D3
## 2543      111.37     D        D3                                  Teacher
## 2555      352.27     C        C4                     Executive Assistant
## 2559      257.75     B        B2                        Business Manager
## 2565     1094.20     A        A4           Business Intelligence Analyst
## 2569      545.81     B        B2                              Team member
## 2575      880.71     B        B4                         Financial Advisor
## 2577      129.22     B        B1                           Administrator
## 2584      359.98     B        B5                                 Manager
## 2586       80.56     B        B5                               Principal
## 2610      468.94     A        A4                     Customer service rep
## 2621      262.14     B        B3                                 Officer
## 2634      351.61     D        D2   Coordinator of Admissions Operations
## 2646      193.83     B        B1                      Nuclear technician
## 2653       96.34     C        C2                          Chief engineer
## 2656      299.53     C        C1                        Dental hygienist
## 2664      250.11     A        A4                      Wealth strategist
## 2668      112.55     A        A4                              Accountant
## 2669      123.30     C        C4                         Quality Manager
## 2675      619.32     C        C2                  Mortgage Sales Manager
## 2676      913.94     C        C3                              Purchssing
## 2685      679.29     C        C1                      Account Executive
## 2699      304.72     A        A1                                 Manager
## 2706       52.02     C        C3                              Associates
## 2711      268.52     B        B5                                   Cptech
## 2717      322.58     C        C1                           Area Manager
## 2719      307.35     C        C4                                 Soldier
## 2720      693.51     C        C3     Senior Bus Sys & Financial Analyst
## 2728      819.90     A        A5                               President
```

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## 2737      132.00     B        B4                          Service Clerk
## 2740      584.79     B        B2                         Police officer
## 2746      354.15     D        D1                               Engineer
## 2748      752.41     C        C2                             IT Manager
## 2759      140.91     C        C4         Documentation integrity auditor
## 2760      180.22     B        B3                                    CEO
## 2783      213.65     C        C5                         Office Manager
## 2784      258.44     B        B1                                Attorney
## 2793      666.53     D        D3                   IDS Assistant Manager
## 2794      542.07     D        D1                         Director of IT
## 2804      491.16     E        E5 Compliance Specialist (Remote Employee)
## 2809     1084.13     D        D1                               Engineer
## 2815      434.40     A        A3                 Regional Vice President
## 2823      575.58     D        D5              Recertification Specialist
## 2828      589.39     E        E5     Associate Director Network Planning
## 2829      634.79     E        E2                       Operation Manager
## 2836      564.28     D        D4     Talent Agent Television production
## 2849      229.37     B        B3                               Mechanic
## 2862      679.29     C        C1                             Sign Hanger
## 2864      299.72     A        A5                         Press Operator
## 2870      173.52     A        A5                         Budget Analyst
## 2871      121.47     A        A5                             Supervisor
## 2881      925.73     D        D3                                Teacher
## 2890      343.89     A        A4            Insurance Resolution Manager
## 2902      512.76     D        D2                 Health Insur Specialist
## 2904      649.66     D        D1                       Registered Nurse
## 2905      323.90     D        D4                                payroll
## 2909      309.41     C        C3                       Master mechanic
## 2910      222.74     D        D3                 license practical nurse
## 2921      309.74     A        A3                                 OWNER
## 2926      178.04     C        C5
## 2937      152.84     C        C1              licensed massage therapist
## 2943      640.95     C        C5                   ELIGIBILTY SPECIALIST
## 2945      860.16     C        C2                          Store manager
## 2953      491.51     B        B3                       General Manager
## 2963      853.74     C        C4                        Security Guard
## 2964      549.39     D        D2                             secretary
## 2987      154.87     A        A3                   Environmental Manager
## 2990      475.13     B        B3                          Client Manager
## 2996      183.13     D        D2                               Counselor
## 2997      312.63     C        C4                          Plant Manager
## 2998     1188.76     C        C1                Maintenance Coordinator
## 3011      142.44     C        C5                     Facilities Manager
## 3013      315.50     A        A5                                Teacher
## 3014      260.18     A        A3                                    Fsm
## 3015      112.73     C        C4                             Supervisor
## 3019      792.00     B        B4                          Audit Manager
## 3020      378.59     A        A5                        Project Manager
## 3038       97.47     B        B2                        Personal Banker
## 3046      589.48     C        C3                       Registered Nurse
## 3055      309.74     A        A3                                Teacher
## 3066      920.91     E        E5                       Senior Law Clerk
## 3068      237.60     B        B4                   Front Desk Supervisor
## 3069      208.06     C        C3                                Cashier
## 3077      660.00     B        B4                       Claims Adjuster
## 3091      316.21     B        B3                  Eligibility supervisor
## 3109      540.80     C        C2      vendor implementation coordinator
## 3110      248.75     B        B1                  Claims representative
## 3111      462.56     D        D1                                Manager
## 3114      347.26     C        C5                     Mortgage Consultant
## 3115      252.40     A        A5                         Canine Handler
## 3127      269.92     D        D4                     IT PROJECT MANAGER
## 3128      854.60     C        C5             Director Of Medical records
## 3129      402.77     B        B5      unit secretary/ nursing assistant
## 3139      537.03     B        B5                           Shift Leader
## 3144       96.34     C        C2
## 3148      613.94     E        E5                                Manager
## 3157     1084.13     D        D1                                Teacher
## 3167       71.22     C        C5                     Happiness Engineer
## 3168      126.49     D        D1                        Branch Manager
## 3191     1299.54     B        B2                        Project Manager
## 3192      219.76     D        D2             Customer Pickup Coordinator
## 3195      520.13     C        C3                      Schematic Analyst
## 3197       64.61     B        B1                     Owner / Consultant
## 3207      528.40     C        C4                         Branch Manager
## 3220      952.02     C        C3                        police officer
## 3235      161.53     B        B1                        Project Manager
## 3240     1026.44     D        D2                      Managing Director
## 3242      567.71     C        C2                           Radiographer
## 3245      134.26     B        B5                                     RN
## 3248     1132.31     C        C5
## 3249      157.75     A        A5                          Rural carrier
## 3250      884.72     B        B3         Emergency Management Specialist
## 3253      504.79     A        A5                                Manager
## 3255      308.00     A        A3                               Director
## 3263      247.79     A        A3
## 3264       66.56     B        B5                       HR Administrator
## 3275      468.52     B        B5                         Homehealthaide
## 3284      593.97     D        D3                        Legal Secretary
## 3301      235.89     B        B4                           Iron worker
## 3324      214.88     B        B1                                Manager
## 3327      294.98     A        A2                      Assistant Manager
## 3328      309.66     C        C2                                Manager
## 3338      177.66     B        B2                             OTR driver
## 3340      566.83     D        D4                                Manager
## 3348      346.76     C        C3                        Project Manager
## 3373      329.42     C        C3           Payment Accuracy Specialist I
## 3375      199.41     C        C5                            BANK OFFICER
```

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## 3377      688.62     C        C3        Contamination Control Technician
## 3382      198.83     B        B4                      Nurse Practitoner
## 3385      327.68     B        B3                       Admin Specialist
## 3390      103.97     B        B2                       Practice Manager
## 3391      275.34     D        D5                      Paatient Accounts
## 3405      470.60     A        A5                               Operator
## 3414      201.39     B        B5             software support / trainer
## 3415      285.61     C        C3                 Senior Project Manager
## 3418      156.87     A        A5                     Department Manager
## 3423      712.16     C        C5                                 driver
## 3437       39.60     B        B4                                  Sales
## 3452      276.87     C        C2                           Professional
## 3461       34.91     C        C4
## 3468      610.83     G        G1
## 3470      423.90     B        B5                          Local Manager
## 3473       81.91     B        B4                   Affordable Home Care
## 3476      220.21     A        A4                      Inventory Manager
## 3478      237.33     B        B1      Human Resources Business Partner
## 3495      231.95     E        E1                         Office Manager
## 3496      222.25     C        C2                             Technician
## 3499       44.25     D        D3                         Office Manager
## 3512       61.02     A        A2                            Group lead
## 3514      337.23     C        C1                             SECRETARY
## 3524      698.12     C        C4
## 3526      550.68     D        D5                     Production laborer
## 3528      305.09     A        A2    Regional Clinical Practice Director
## 3529      426.81     D        D1           Director Business Development
## 3533      446.58     B        B1                   Service Desk Analyst
## 3549      198.38     E        E3                             accountant
## 3551      418.87     C        C4                        Project Manager
## 3552      304.91     D        D5              Recreation Superintendent
## 3563      186.53     A        A4                        Talent Recruiter
## 3570      192.43     B        B1                             HR Manager
## 3573      911.36     C        C1            Nuclear Medicine Technician
## 3583      325.31     B        B3                   Site Superintendent
## 3587      655.25     B        B4                      Senior Accountant
## 3597      640.74     C        C1                                    CEO
## 3601      353.71     C        C5                                Manager
## 3609      347.25     D        D4                         Config analyst
## 3618      447.05     C        C2              Real Estate Asset Manager
## 3620      931.36     C        C2                      Software Engineer
## 3626      769.54     C        C4                              sales rep
## 3627      300.77     C        C5                  GENERAL SALES MANAGER
## 3638     1098.07     A        A5                                  Owner
## 3643      182.11     C        C1                        Insurance Sales
## 3647      878.71     D        D1          Petroleum Delivery Specialist
## 3652      186.82     D        D4                          press operator
## 3654      137.63     C        C2                  Senior tax accountant
## 3664      319.23     B        B2                      Project Executive
## 3669      261.93     D        D2
## 3676      319.18     E        E5                        Data Technician
## 3677      196.58     B        B4                      Intake Specialist
## 3689      245.64     C        C5
## 3694      327.63     B        B4                             HVAC Tech
## 3695      399.32     B        B5                               mechanic
## 3696      759.96     E        E5                               Director
## 3724      592.06     B        B3                 Operations Manager Food
## 3725      202.34     C        C1                  Scheduler, insurance
## 3753      266.80     D        D5                     Police Department
## 3772      479.30     D        D3                       Practice Manager
## 3792      501.25     C        C1                   Field Superintendent
## 3793      718.78     B        B5                  Program administrator
## 3795      306.21     B        B5                        Closing Manager
## 3797      531.99     F        F1
## 3798      258.41     B        B2    Child Support Enforcement Specialist
## 3806      285.85     D        D5        Senior Consumer Insights Analyst
## 3812      256.39     D        D2                            edi analyst
## 3818      484.51     B        B2                           service tech
## 3820      199.66     B        B5                     Quality Assurance
## 3823      516.81     B        B2                                Teacher
## 3829      409.54     B        B4                           Distributor
## 3838      841.68     C        C4                             ACCOUNTANT
## 3842      941.20     A        A5                     Managing Director
## 3848       48.11     B        B1                Senior Financial Analyst
## 3863      753.24     C        C3                                Manager
## 3866      358.88     D        D1                   Warehouse manager
## 3867      923.99     A        A3                             IT Support
## 3871      344.31     C        C3                               Assembly
## 3880      597.81     D        D4                                  Owner
## 3883      931.75     B        B5                     Account Executive
## 3891      221.22     D        D3                  Development Coordinator
## 3895      558.50     C        C4                      Senior Estimating
## 3896      757.72     F        F1                               Enlisted
## 3898      610.17     A        A2                                    Cfo
## 3903      172.16     C        C3                                 CSRIII
## 3916      351.10     E        E3                          Manufacturing
## 3928      134.90     C        C1                    Mechanic technician
## 3930       58.99     D        D3                         Superintendent
## 3940      258.93     C        C3                                 driver
## 3957      674.46     C        C1                              President
## 3966       65.07     B        B3                       Customer service
## 3992      341.93     C        C2                        Project Manager
## 3993      670.20     C        C4    Learning and Development Coordinator
## 4000      303.99     E        E5                             Accounting
## 4004      286.23     C        C4                    Operations Processor
## 4012      559.59     A        A4                     Mechanical designer
## 4014      705.55     B        B1                 Manager Legal Sales L&D
## 4025      123.20     A        A3
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## 4029      916.03     D        D3              Water treatment opperator
## 4032      327.41     D        D2                                Manager
## 4033      457.63     A        A2                           Flight Nurse
## 4059      266.22     B        B5           Vice President of Operations
## 4066     1205.08     C        C3              Supply Chain Coordinator
## 4067     1146.69     B        B4                      Regional Manager
## 4077      609.34     B        B1                        Warrants clerk
## 4087      376.48     A        A5                             Collector
## 4088      115.98     E        E1                           Truck Driver
## 4091     1077.99     A        A3                                  owner
## 4102      741.91     C        C1                                    AVP
## 4106      332.77     B        B5       Transpoatation Systems Supervisor
## 4112     1061.54     C        C5                     Head of marketing
## 4127      133.11     B        B5                Maintenance Electrician
## 4129      979.12     E        E2                                  Agent
## 4130      289.22     C        C3                    Equipment operator
## 4134      463.90     E        E1                 Director of Technology
## 4145      490.36     D        D3                          Program Aide
## 4156      277.20     A        A3                   Marketing Specialist
## 4158      998.30     B        B5                                 Driver
## 4166      124.36     A        A4                                Manager
## 4167      169.46     C        C1                      Sales Consultant
## 4168      335.59     A        A2                        Speical Agent
## 4171      872.65     C        C4                Territory Sales Manager
## 4176      683.85     C        C2
## 4182      262.10     B        B4                           dsd receiver
## 4183      715.53     D        D1         Senior Administrative Assistant
## 4184      366.42     D        D3                          General Labor
## 4187      797.44     C        C1                                 Editor
## 4190      349.06     C        C4         Principal Maintenance Inspector
## 4192      813.27     B        B3                    warehouse examiner
## 4195      582.06     D        D2                             Detective
## 4218      227.72     B        B3                               teacher
## 4223      176.92     B        B4                      Shift Supervisor
## 4226      413.17     C        C3            Medical Records coordinator
## 4227      470.78     C        C3             Wine and Spirits consultant
## 4242      292.67     C        C3                   Service Desk Tech II
## 4244      166.39     B        B5                                Manager
## 4246      343.89     C        C5                       Sr Finance Mgr
## 4250      133.11     B        B5                        Id specialist
## 4264      512.78     D        D2                         Nutritionist
## 4276      194.62     C        C5                               Ct tech
## 4281       86.08     C        C3                                Manager
## 4288      240.48     C        C4                       floral designer
## 4296      109.42     C        C2
## 4299      549.11     B        B2                      Process Engineer
## 4302      226.89     C        C4                            Accounting
## 4312      308.00     A        A3                 sanatition coodinator
## 4315     1196.73     C        C2                       Vice President
## 4319      522.42     B        B4                                Manager
## 4327      368.69     D        D3                      Auto technician
## 4329       41.89     C        C4                                   CSR
## 4332      373.06     A        A4
## 4339      114.67     B        B4                   Housekeeping Officer
## 4340      260.25     B        B3                      Registered Nurse
## 4343      249.58     B        B5             Health Service Coordinator
## 4345      546.78     F        F2               Traffic Signal Repairman
## 4359      351.10     E        E3                                Manager
## 4361      168.62     C        C1
## 4366      484.51     B        B2                             Millwright
## 4373      110.61     D        D3                              Recruiter
## 4374      911.95     E        E5                      Registered Nurse
## 4384      683.52     C        C1
## 4393      569.60     C        C1               Senior Software Engineer
## 4396      269.79     C        C1            proffessional medical coder
## 4409      688.62     C        C3                          Cartographer
## 4417      196.58     B        B4                          Supervisior
## 4422      245.60     A        A4                                   VP
## 4434      447.43     E        E4                   Mechanical Designer
## 4438      108.81     A        A4                   Executive Secretary
## 4439      152.55     A        A2
## 4444      327.63     B        B4                   Account Coordinator
## 4446      325.31     B        B3                       Vice President
## 4454      544.53     C        C4             Implementation Coordinator
## 4457      298.29     E        E4                      Platoon Sergeant
## 4460      585.56     B        B3                               HME MGR
## 4462      223.80     C        C3              Payroll Inception Manager
## 4467      798.64     B        B5     OFFENDER REHABILITATION COORDINATOR
## 4475      319.23     B        B2          Senior Enrollment Proffesional
## 4480      160.36     B        B1                             Full time
## 4493      472.93     D        D2                                Manager
## 4496      544.19     B        B4                            Caseworker
## 4508       48.80     B        B3
## 4513      332.77     B        B5                    Physical Therapist
## 4515      378.86     F        F1                   Service Team Leader
## 4521       68.87     C        C3                     Business Manager
## 4541      297.58     C        C4                    Executive Director
## 4542      352.78     B        B1                    Dean of Enrollment
## 4549      266.68     A        A5                            Consultant
## 4556     1010.36     A        A4                   Assistant Professor
## 4559      683.52     C        C1                       Police Officer
## 4560      283.76     D        D2                               Teacher
## 4570      186.53     A        A4                     Project Manager
## 4572      588.47     C        C3                               Teacher
## 4574      224.18     D        D4                               Laborer
## 4578      577.44     D        D1                           Supervisor
## 4582      491.27     C        C5          Application Support Specialist
## 4596      472.13     C        C1              Supervisor Program Analyst
```

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## 4600      660.81     D        D5                              Detective
## 4612      969.54     C        C1                                Manager
## 4619     1106.07     D        D3                     Machine operator
## 4628      145.52     D        D2        Manager Application Development
## 4637      159.73     B        B5                     Customs Brokerage
## 4652      800.38     D        D5                            HR Manager
## 4655      627.65     D        D1              Administrator Coordinator
## 4657      526.64     E        E3                               Attorney
## 4666      934.90     D        D4                              Clinician
## 4686      941.20     A        A5                 Senior Product Manager
## 4689      332.77     B        B5                        Project Manager
## 4693      607.97     E        E5                      Produce Manager
## 4694      525.05     C        C2                Assistant Vice President
## 4702      765.36     B        B5                Registered Nurse Manager
## 4705      384.85     B        B1                           Service tech
## 4707      502.12     D        D1                      Registered Nurse
## 4713      103.30     C        C3                       Legal Secretary
## 4716      961.92     C        C4                     Security Engineer
## 4727      172.16     C        C3                  Clearance Technician
## 4733      298.29     E        E4                   First Vice President
## 4740      323.01     B        B2                         Pharmacy tech
## 4752      188.00     E        E2                    meduical assistant
## 4757      457.63     A        A2           Customer Service Coordinator
## 4759      170.79     B        B3                             Supervisor
## 4761      192.43     B        B1                     Operations manager
## 4773      650.62     B        B3                                  Owner
## 4782      601.80     G        G1                               MANAGER
## 4787      190.57     D        D5                               Senior
## 4789      545.68     D        D2                        Branch manager
## 4803      363.79     D        D2                  Project Safety Manager
## 4826      269.79     C        C1                             Secretary
## 4827      646.01     B        B2                               Director
## 4828       90.34     A        A1                          Bank Examiner
## 4855      451.66     A        A1                   Underwriting Counsel
## 4857      203.93     A        A5                             Instructor
## 4866      387.61     B        B2                                Manager
## 4869      623.29     A        A1                              President
## 4877      308.00     A        A3                         Police officer
## 4881     1088.08     A        A4                         Office manager
## 4883      227.84     C        C1                               Collector
## 4919      186.35     B        B5                Assistant Branch Manager
## 4924      276.96     C        C2                        Assembly worker
## 4932      512.78     D        D2     Senior Project Manager (Facilities)
## 4936      256.39     D        D2                         Office manager
## 4939      432.87     C        C4                       Dental Hygienist
## 4942      321.14     C        C4                           Trade driver
## 4964      581.27     C        C2                         Marketing NCOIC
## 4969      559.59     A        A4                         Law Enforcement
## 4994      720.78     B        B4                  Service Representative
## 5000      147.48     D        D3                             Supervisor
## 5002     1238.46     C        C5                         Service Manager
## 5004      113.86     B        B3                       Dental Assistant
## 5005      641.41     B        B1                          PEI Inspector
## 5012      258.72     A        A3                     Correction Officer
## 5013      240.48     C        C4
## 5019      442.43     D        D3                            Technician
## 5028      353.85     C        C5
## 5033      165.27     C        C3                         Station Manager
## 5056       76.28     A        A2                             Pre K Inst.
## 5062       32.31     B        B2                         Finisher Racker
## 5067     1282.82     B        B1                              Recruiter
## 5085      348.28     B        B4                               Manager
## 5101       57.17     D        D5                                TRAINER
## 5111      133.11     B        B5                          Loan procesor
## 5113      357.94     E        E4                           Receptionist
## 5119      442.14     C        C5
## 5121      582.06     D        D2                     Machine Technician
## 5127     1076.62     D        D1                      Solution Architect
## 5129      366.10     A        A2                        Business Analyst
## 5144      663.64     D        D3                               fieldtech
## 5146      159.73     B        B5
## 5149      825.15     D        D5                Wholesale Risk Executive
## 5153      143.55     D        D1                                     LMT
## 5172      306.86     B        B2       Admissions & Occupancy Specialist
## 5175      640.98     D        D2                      Senior Consultant
## 5178     1065.88     A        A2                               Attorney
## 5189      512.89     C        C2                        Account Manager
## 5198      364.55     C        C1                         Legal Assistant
## 5199       86.08     C        C3               Guest Service Team Member
## 5208      318.47     C        C5                          Line inspector
## 5222      196.58     B        B4                             Pipe fitter
## 5226      585.19     A        A3                     Director of Nursing
## 5227      166.39     B        B5
## 5231      209.24     D        D4                       District Manager
## 5253      702.19     E        E3                                Manager
## 5263      377.70     C        C1                 Electronics technician
## 5272      305.09     A        A2                             Consultant
## 5280      215.22     A        A3                                 server
## 5288      621.76     A        A4                  Filter Plant Operator
## 5289      674.46     C        C1                               Paralegal
## 5293      775.82     A        A4                             Detective
## 5296      577.15     C        C4        Senior Quality Assurance Manager
## 5318      201.04     C        C1                       Product support
## 5323      549.15     A        A2                         Manager Coding
## 5338      404.15     A        A4                                mechanic
## 5366      291.03     D        D2                       Material handler
## 5374      410.31     C        C2
## 5378      323.74     C        C1                                     IT
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## 5386     1098.07     A        A5                                Manager
## 5391      640.98     D        D2                            Truck driver
## 5398      269.79     C        C1              Assistant Service Manager
## 5414      245.64     C        C5                        union bricklayer
## 5423      353.09     C        C3                         Senior Director
## 5426      881.08     D        D5                 EDUCATION ADMINISTRATOR
## 5430      267.56     C        C5
## 5434      110.61     D        D3                 Applications Technician
## 5439      496.01     B        B1                                  owner
## 5457      380.49     C        C1                              Professor
## 5461     1171.11     B        B3                                  Batch
## 5463      363.79     D        D2                                    CNA
## 5469      335.07     C        C1                             Bus driver
## 5471      114.84     D        D1                            Maintenance
## 5487      481.06     B        B1                         Sales Engineer
## 5489      306.01     C        C3                                 Driver
## 5493      243.99     B        B3                                Analyst
## 5495      778.47     C        C5                      Territory Manager
## 5504      601.20     C        C4                                Manager
## 5512      272.60     B        B1                   Accounting Assistant
## 5520      651.28     E        E5              Detention Deputy Sergeant
## 5526      512.78     D        D2                                 Driver
## 5528      154.94     C        C3                                    A1C
## 5530      646.01     B        B2                          Psychologist
## 5542      841.68     C        C4                              Engineer
## 5546      479.36     E        E1                         Quality Contro
## 5560      621.76     A        A4                   National Coordinator
## 5572       32.54     B        B3                  Nutrition Staff Worker
## 5606      440.54     D        D5                             Bank Teller
## 5617      309.88     C        C3                            Merchandise
## 5618      269.79     C        C1                     It business analyst
## 5631      219.62     A        A5                              Management
## 5644      516.77     E        E5                          house keeping
## 5645      288.58     C        C4                                 Pastor
## 5650      607.97     E        E5                             Backtender
## 5652      174.53     C        C4                       Senior specialist
## 5653      848.31     B        B2                                    CEO
## 5655      373.63     D        D4                            Loan Officer
## 5657      301.11     A        A1                             SRM Analyst
## 5662      432.60     B        B5          Division Merchandising Manager
## 5678      273.41     C        C1           Registered Nurse/Case Manager
## 5682      200.09     D        D2
## 5686      477.25     E        E4
## 5691       96.22     B        B1                Estimating Administrator
## 5701      815.38     C        C2                   Lvn/ medical records
## 5702      426.81     D        D1                      Senior Accountant
## 5713      628.14     D        D3              Chief of Business Services
## 5714      753.18     D        D1                               Engineer
## 5719      559.59     A        A4                        Body technician
## 5726      327.41     D        D2                                VP Sales
## 5730      212.31     C        C5                             Machinist
## 5735      523.59     C        C4                                   SVP
## 5738      889.13     E        E1           Business Development Director
## 5740      676.62     C        C1                                  Nurse
## 5742      371.71     D        D5
## 5746       34.91     C        C4                   Director - Standards
## 5748      213.44     D        D5                      Signal Maintainer
## 5755     1106.07     D        D3                         Vice President
## 5774      486.12     C        C5                                   USAF
## 5780      291.03     D        D2                         Cost Accountant
## 5790      303.47     E        E1                               Pest Tech
## 5805      693.70     C        C4                         Claims Adjuster
## 5813      310.33     A        A4                                  Banker
## 5829      228.68     D        D5                          Sales Engineer
## 5837      632.92     C        C5                        Regional Manager
## 5839      550.90     C        C3
## 5855       95.13     C        C2
## 5864      381.80     E        E4
## 5871      533.63     B        B5                             Lead driver
## 5879      473.58     F        F1          Support Services Administrator
## 5894      466.10     C        C3                                   Owner
## 5900     1189.09     C        C2                      Registered nurse
## 5905     1172.73     C        C1                  Maintenance Supervisor
## 5909      487.79     A        A1                        Network Engineer
## 5911      171.06     C        C3                  Field Service Engineer
## 5920       90.95     D        D2                                Line Cook
## 5926      373.72     C        C2                  Care Manager Supervisor
## 5934     1086.15     A        A4      Corp. Director of Human Resources
## 5937      267.12     D        D4                         Business Analyst
## 5939      817.29     B        B4                              Management
## 5941      768.62     A        A3                                 Manager
## 5945      140.94     A        A5          patient service representative
##      emp_length home_ownership annual_inc verification_status  issue_d
## 1     10+ years           RENT   38500.00        Not Verified Dec-2018
## 13    10+ years            OWN   50000.00     Source Verified Dec-2018
## 26     7 years           RENT   60500.00     Source Verified Dec-2018
## 29    10+ years            OWN   52000.00        Not Verified Dec-2018
## 56     3 years           RENT   68000.00     Source Verified Dec-2018
## 58    10+ years            OWN   80000.00     Source Verified Dec-2018
## 62     7 years           RENT  205000.00        Not Verified Dec-2018
## 79                    MORTGAGE   70000.00     Source Verified Dec-2018
## 81     7 years       MORTGAGE   82000.00        Not Verified Dec-2018
## 85    10+ years       MORTGAGE   95000.00     Source Verified Dec-2018
## 89     2 years           RENT  105000.00     Source Verified Dec-2018
## 94    10+ years       MORTGAGE   35000.00        Not Verified Dec-2018
## 95     5 years           RENT   57000.00        Not Verified Dec-2018
## 100    4 years       MORTGAGE  183000.00        Not Verified Dec-2018
## 123    < 1 year           RENT   50000.00     Source Verified Dec-2018
```

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## 129     2 years       MORTGAGE  103000.00        Not Verified Dec-2018
## 131    10+ years            OWN   90000.00        Not Verified Dec-2018
## 146     3 years       MORTGAGE  125000.00     Source Verified Dec-2018
## 157     3 years           RENT   40000.00        Not Verified Dec-2018
## 177     3 years           RENT  550000.00     Source Verified Dec-2018
## 188     2 years       MORTGAGE  425000.00            Verified Dec-2018
## 189     2 years           RENT   37277.00     Source Verified Dec-2018
## 209    10+ years       MORTGAGE   60000.00            Verified Dec-2018
## 211    10+ years       MORTGAGE  110000.00        Not Verified Dec-2018
## 214     3 years           RENT   85000.00     Source Verified Dec-2018
## 223      1 year       MORTGAGE   65000.00     Source Verified Dec-2018
## 228     < 1 year           RENT   60000.00        Not Verified Dec-2018
## 237    10+ years       MORTGAGE   95000.00        Not Verified Nov-2018
## 256     2 years           RENT   63200.00     Source Verified Nov-2018
## 266     2 years            OWN   72000.00     Source Verified Nov-2018
## 280     < 1 year       MORTGAGE  119000.00        Not Verified Nov-2018
## 282    10+ years            OWN   58000.00     Source Verified Nov-2018
## 288     2 years           RENT  120000.00     Source Verified Nov-2018
## 289     < 1 year       MORTGAGE   95000.00        Not Verified Nov-2018
## 291    10+ years       MORTGAGE   60000.00     Source Verified Nov-2018
## 293     3 years       MORTGAGE  175000.00            Verified Nov-2018
## 299    10+ years       MORTGAGE  104000.00     Source Verified Nov-2018
## 300     6 years       MORTGAGE   85000.00        Not Verified Nov-2018
## 303      1 year            OWN   30000.00        Not Verified Nov-2018
## 320      1 year           RENT   56000.00     Source Verified Nov-2018
## 333     5 years       MORTGAGE  112000.00        Not Verified Nov-2018
## 339    10+ years       MORTGAGE   89844.00        Not Verified Nov-2018
## 342    10+ years       MORTGAGE   51000.00        Not Verified Nov-2018
## 363     7 years       MORTGAGE   90000.00     Source Verified Nov-2018
## 372      1 year       MORTGAGE   72000.00     Source Verified Nov-2018
## 380    10+ years       MORTGAGE  600000.00            Verified Nov-2018
## 398     4 years           RENT   59634.00        Not Verified Nov-2018
## 401    10+ years       MORTGAGE   45000.00        Not Verified Nov-2018
## 404    10+ years           RENT  168000.00     Source Verified Nov-2018
## 437     8 years            OWN   95000.00        Not Verified Nov-2018
## 447     5 years       MORTGAGE   45000.00     Source Verified Nov-2018
## 448     3 years       MORTGAGE  120000.00     Source Verified Nov-2018
## 449     4 years       MORTGAGE   60000.00        Not Verified Nov-2018
## 457    10+ years       MORTGAGE   80000.00            Verified Nov-2018
## 463    10+ years       MORTGAGE   58000.00            Verified Nov-2018
## 472                         OWN   96000.00        Not Verified Nov-2018
## 478     7 years       MORTGAGE  102000.00        Not Verified Nov-2018
## 489     5 years       MORTGAGE   96000.00     Source Verified Nov-2018
## 492     < 1 year       MORTGAGE   65000.00        Not Verified Nov-2018
## 498     8 years       MORTGAGE  324000.00        Not Verified Nov-2018
## 510    10+ years       MORTGAGE  112000.00        Not Verified Nov-2018
## 511    10+ years       MORTGAGE  150000.00     Source Verified Nov-2018
## 521    10+ years            OWN   66000.00        Not Verified Nov-2018
## 522    10+ years           RENT   42000.00     Source Verified Nov-2018
## 534     5 years       MORTGAGE   43000.00     Source Verified Nov-2018
## 535     3 years           RENT   80000.00            Verified Nov-2018
## 538                   MORTGAGE  126000.00        Not Verified Nov-2018
## 539    10+ years       MORTGAGE   82000.00        Not Verified Nov-2018
## 554    10+ years           RENT   75000.00     Source Verified Nov-2018
## 557    10+ years           RENT   88900.00        Not Verified Nov-2018
## 573     2 years       MORTGAGE   62500.00     Source Verified Oct-2018
## 574     9 years       MORTGAGE  135000.00     Source Verified Oct-2018
## 586    10+ years            OWN   71000.00            Verified Oct-2018
## 595    10+ years       MORTGAGE  150000.00        Not Verified Oct-2018
## 599     5 years       MORTGAGE   54000.00        Not Verified Oct-2018
## 603     2 years       MORTGAGE  141750.00        Not Verified Oct-2018
## 604     3 years            OWN   50000.00        Not Verified Oct-2018
## 633     4 years       MORTGAGE   76000.00     Source Verified Oct-2018
## 643     7 years       MORTGAGE  100000.00        Not Verified Oct-2018
## 657    10+ years           RENT  128300.00            Verified Oct-2018
## 661     8 years       MORTGAGE  110000.00     Source Verified Oct-2018
## 666     9 years           RENT   85000.00        Not Verified Oct-2018
## 686                         OWN   25000.00     Source Verified Oct-2018
## 693    10+ years       MORTGAGE   75000.00            Verified Oct-2018
## 701    10+ years       MORTGAGE   62000.00        Not Verified Oct-2018
## 714     6 years           RENT   30000.00     Source Verified Oct-2018
## 723     < 1 year           RENT  135000.00        Not Verified Oct-2018
## 732     6 years           RENT   63000.00     Source Verified Oct-2018
## 733                   MORTGAGE  147000.00        Not Verified Oct-2018
## 735    10+ years       MORTGAGE  300000.00     Source Verified Oct-2018
## 736     8 years           RENT   32000.00        Not Verified Oct-2018
## 741    10+ years       MORTGAGE   82000.00     Source Verified Oct-2018
## 742     2 years           RENT  140000.00        Not Verified Oct-2018
## 751    10+ years       MORTGAGE   62000.00            Verified Oct-2018
## 756      1 year       MORTGAGE   50000.00     Source Verified Oct-2018
## 759    10+ years       MORTGAGE   60548.00        Not Verified Oct-2018
## 762     5 years       MORTGAGE  212000.00     Source Verified Oct-2018
## 763     < 1 year       MORTGAGE   60000.00     Source Verified Oct-2018
## 765     2 years       MORTGAGE   85560.00        Not Verified Oct-2018
## 768     < 1 year       MORTGAGE   45000.00     Source Verified Oct-2018
## 773    10+ years       MORTGAGE   62000.00        Not Verified Oct-2018
## 774     3 years       MORTGAGE   95000.00        Not Verified Oct-2018
## 776    10+ years       MORTGAGE  180000.00            Verified Oct-2018
## 783    10+ years       MORTGAGE   91000.00            Verified Oct-2018
## 785     3 years            OWN   25000.00     Source Verified Oct-2018
## 842    10+ years       MORTGAGE  130000.00     Source Verified Oct-2018
## 864     6 years       MORTGAGE  155000.00     Source Verified Oct-2018
## 865      1 year           RENT  125500.00        Not Verified Oct-2018
## 868      1 year           RENT   66000.00        Not Verified Oct-2018
## 876     5 years       MORTGAGE  800000.00            Verified Oct-2018
## 888     7 years       MORTGAGE   55000.00     Source Verified Oct-2018
## 927     3 years           RENT   48000.00        Not Verified Oct-2018
## 929    10+ years       MORTGAGE   86004.00     Source Verified Oct-2018
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## 941   10+ years          RENT   72000.00        Not Verified Oct-2018
## 944   10+ years          RENT  136000.00        Not Verified Oct-2018
## 947     8 years      MORTGAGE  116000.00     Source Verified Oct-2018
## 948   10+ years          RENT   85000.00     Source Verified Oct-2018
## 959     7 years      MORTGAGE  128000.00     Source Verified Oct-2018
## 970   10+ years          RENT  250000.00     Source Verified Oct-2018
## 973    < 1 year           OWN   85000.00     Source Verified Oct-2018
## 979   10+ years           OWN   57000.00            Verified Oct-2018
## 980   10+ years           OWN   80000.00     Source Verified Oct-2018
## 981                  MORTGAGE   74652.00        Not Verified Oct-2018
## 987                       OWN   65000.00     Source Verified Oct-2018
## 991      1 year      MORTGAGE   50000.00     Source Verified Oct-2018
## 1001    8 years          RENT   75000.00        Not Verified Oct-2018
## 1004  10+ years      MORTGAGE   68000.00     Source Verified Oct-2018
## 1010  10+ years      MORTGAGE   65000.00            Verified Oct-2018
## 1016     1 year          RENT   70000.00     Source Verified Oct-2018
## 1018  10+ years      MORTGAGE   98000.00        Not Verified Oct-2018
## 1019    7 years      MORTGAGE  130000.00        Not Verified Oct-2018
## 1042    4 years      MORTGAGE   86000.00     Source Verified Sep-2018
## 1079    6 years          RENT   42500.00            Verified Sep-2018
## 1087    3 years          RENT   78000.00     Source Verified Sep-2018
## 1093    < 1 year         RENT   80000.00        Not Verified Sep-2018
## 1103    < 1 year     MORTGAGE  175000.00        Not Verified Sep-2018
## 1127    2 years      MORTGAGE   95000.00        Not Verified Sep-2018
## 1132    < 1 year     MORTGAGE   75000.00        Not Verified Sep-2018
## 1137    < 1 year     MORTGAGE  112000.00     Source Verified Sep-2018
## 1138    8 years          RENT  105000.00        Not Verified Sep-2018
## 1140    8 years           OWN   48000.00     Source Verified Sep-2018
## 1144    3 years          RENT   44000.00     Source Verified Sep-2018
## 1145    5 years      MORTGAGE   48000.00     Source Verified Sep-2018
## 1154    8 years      MORTGAGE   55000.00            Verified Sep-2018
## 1156    4 years          RENT   63000.00            Verified Sep-2018
## 1157  10+ years      MORTGAGE  115000.00            Verified Sep-2018
## 1160  10+ years      MORTGAGE  119668.00            Verified Sep-2018
## 1162    6 years      MORTGAGE   85000.00            Verified Sep-2018
## 1165  10+ years      MORTGAGE   72000.00     Source Verified Sep-2018
## 1176    8 years      MORTGAGE  125000.00     Source Verified Sep-2018
## 1180    5 years      MORTGAGE   98260.00     Source Verified Sep-2018
## 1182    8 years          RENT  130000.00     Source Verified Sep-2018
## 1183  10+ years      MORTGAGE   84000.00     Source Verified Sep-2018
## 1184    5 years          RENT   70000.00            Verified Sep-2018
## 1185    3 years          RENT  118000.00        Not Verified Sep-2018
## 1201  10+ years          RENT  120000.00            Verified Sep-2018
## 1204  10+ years          RENT  100000.00        Not Verified Sep-2018
## 1234  10+ years      MORTGAGE   43000.00        Not Verified Sep-2018
## 1235    7 years          RENT   48000.00        Not Verified Sep-2018
## 1236  10+ years          RENT   89000.00        Not Verified Sep-2018
## 1240    4 years          RENT  175000.00        Not Verified Sep-2018
## 1288    5 years      MORTGAGE  220000.00        Not Verified Sep-2018
## 1289    4 years          RENT   52872.00        Not Verified Sep-2018
## 1297  10+ years      MORTGAGE   43600.00     Source Verified Sep-2018
## 1303  10+ years          RENT   76000.00            Verified Sep-2018
## 1305  10+ years          RENT   65000.00            Verified Sep-2018
## 1318    4 years          RENT   50000.00        Not Verified Sep-2018
## 1331    4 years          RENT  125000.00     Source Verified Sep-2018
## 1332     1 year      MORTGAGE   90000.00        Not Verified Sep-2018
## 1333  10+ years           OWN  102500.00     Source Verified Sep-2018
## 1350  10+ years      MORTGAGE   80000.00        Not Verified Sep-2018
## 1358  10+ years      MORTGAGE   95000.00     Source Verified Sep-2018
## 1359    5 years          RENT   43000.00        Not Verified Sep-2018
## 1364    < 1 year         RENT  120000.00        Not Verified Sep-2018
## 1370  10+ years          RENT   72000.00     Source Verified Sep-2018
## 1372  10+ years      MORTGAGE  128857.44     Source Verified Sep-2018
## 1377  10+ years      MORTGAGE  156000.00            Verified Sep-2018
## 1381  10+ years           OWN   40000.00     Source Verified Sep-2018
## 1387  10+ years           OWN  142000.00        Not Verified Sep-2018
## 1401     1 year          RENT   42000.00     Source Verified Sep-2018
## 1405    < 1 year     MORTGAGE   54000.00     Source Verified Sep-2018
## 1417    3 years          RENT  140000.00            Verified Sep-2018
## 1423    7 years      MORTGAGE  190000.00        Not Verified Sep-2018
## 1426  10+ years      MORTGAGE   68000.00        Not Verified Sep-2018
## 1429    < 1 year     MORTGAGE   86160.00        Not Verified Sep-2018
## 1436    2 years      MORTGAGE   72000.00            Verified Sep-2018
## 1448    4 years          RENT   50000.00        Not Verified Sep-2018
## 1454  10+ years          RENT  112000.00     Source Verified Sep-2018
## 1458  10+ years      MORTGAGE  100000.00        Not Verified Sep-2018
## 1467    2 years      MORTGAGE   85000.00     Source Verified Sep-2018
## 1471  10+ years      MORTGAGE   90000.00            Verified Sep-2018
## 1474  10+ years      MORTGAGE  108000.00        Not Verified Sep-2018
## 1491  10+ years      MORTGAGE  150000.00     Source Verified Sep-2018
## 1495    5 years          RENT   68000.00            Verified Sep-2018
## 1498    3 years          RENT   62000.00     Source Verified Sep-2018
## 1508  10+ years      MORTGAGE   54000.00     Source Verified Sep-2018
## 1515    8 years          RENT   65000.00        Not Verified Sep-2018
## 1528    2 years          RENT   85000.00        Not Verified Sep-2018
## 1536    6 years      MORTGAGE  135000.00        Not Verified Sep-2018
## 1541    7 years      MORTGAGE   95000.00        Not Verified Sep-2018
## 1549    9 years      MORTGAGE   51680.00     Source Verified Sep-2018
## 1556  10+ years          RENT  197000.00     Source Verified Sep-2018
## 1561    3 years          RENT   85880.00        Not Verified Sep-2018
## 1563  10+ years      MORTGAGE  110000.00     Source Verified Sep-2018
## 1565  10+ years      MORTGAGE   85000.00        Not Verified Sep-2018
## 1586  10+ years           OWN   75000.00        Not Verified Sep-2018
## 1587     1 year      MORTGAGE   93840.00        Not Verified Sep-2018
## 1589  10+ years      MORTGAGE   70000.00            Verified Sep-2018
## 1602    7 years      MORTGAGE   37000.00            Verified Sep-2018
## 1615  10+ years          RENT   49000.00        Not Verified Aug-2018
## 1625    4 years      MORTGAGE   54600.00        Not Verified Aug-2018
```

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## 1630     1 year          RENT   70000.00     Source Verified Aug-2018
## 1635    9 years           OWN   30000.00     Source Verified Aug-2018
## 1654    4 years          RENT   95000.00        Not Verified Aug-2018
## 1655    3 years      MORTGAGE   50000.00        Not Verified Aug-2018
## 1670  10+ years      MORTGAGE   55000.00     Source Verified Aug-2018
## 1682  10+ years          RENT   76000.00            Verified Aug-2018
## 1687    7 years      MORTGAGE   66000.00     Source Verified Aug-2018
## 1690  10+ years          RENT   82000.00     Source Verified Aug-2018
## 1694    4 years      MORTGAGE  174000.00        Not Verified Aug-2018
## 1695  10+ years          RENT   90000.00        Not Verified Aug-2018
## 1697   < 1 year          RENT   38000.00        Not Verified Aug-2018
## 1698    3 years      MORTGAGE   65000.00     Source Verified Aug-2018
## 1705   < 1 year      MORTGAGE   55000.00     Source Verified Aug-2018
## 1709   < 1 year           OWN   70000.00     Source Verified Aug-2018
## 1719    3 years          RENT   69000.00        Not Verified Aug-2018
## 1720  10+ years      MORTGAGE  163705.00     Source Verified Aug-2018
## 1731  10+ years      MORTGAGE  100000.00     Source Verified Aug-2018
## 1736  10+ years      MORTGAGE   70000.00            Verified Aug-2018
## 1740    6 years          RENT   49000.00            Verified Aug-2018
## 1745    3 years      MORTGAGE   75000.00        Not Verified Aug-2018
## 1746   < 1 year      MORTGAGE   95000.00     Source Verified Aug-2018
## 1758  10+ years      MORTGAGE   70000.00            Verified Aug-2018
## 1769  10+ years      MORTGAGE   56000.00            Verified Aug-2018
## 1778  10+ years      MORTGAGE  130000.00            Verified Aug-2018
## 1793  10+ years           OWN   57652.00        Not Verified Aug-2018
## 1795  10+ years           OWN   70000.00            Verified Aug-2018
## 1797  10+ years          RENT  106000.00        Not Verified Aug-2018
## 1800  10+ years      MORTGAGE   65000.00     Source Verified Aug-2018
## 1807    4 years      MORTGAGE  105000.00            Verified Aug-2018
## 1815   < 1 year          RENT   55000.00     Source Verified Aug-2018
## 1818                 MORTGAGE   35000.00            Verified Aug-2018
## 1826  10+ years      MORTGAGE   70000.00     Source Verified Aug-2018
## 1827  10+ years      MORTGAGE  139000.00     Source Verified Aug-2018
## 1835    4 years      MORTGAGE   54600.00     Source Verified Aug-2018
## 1837                 MORTGAGE   80000.00        Not Verified Aug-2018
## 1840  10+ years      MORTGAGE  110000.00        Not Verified Aug-2018
## 1845  10+ years      MORTGAGE  152000.00            Verified Aug-2018
## 1851  10+ years      MORTGAGE  104000.00     Source Verified Aug-2018
## 1859  10+ years          RENT   58000.00        Not Verified Aug-2018
## 1863   < 1 year      MORTGAGE   80000.00        Not Verified Aug-2018
## 1878    8 years      MORTGAGE  100000.00     Source Verified Aug-2018
## 1903     1 year      MORTGAGE   93000.00        Not Verified Aug-2018
## 1909    8 years           OWN  103254.00            Verified Aug-2018
## 1914  10+ years      MORTGAGE  150000.00        Not Verified Aug-2018
## 1928  10+ years          RENT  120000.00     Source Verified Aug-2018
## 1947     1 year      MORTGAGE   90000.00     Source Verified Aug-2018
## 1953    6 years      MORTGAGE  100000.00            Verified Aug-2018
## 1955  10+ years      MORTGAGE   87000.00     Source Verified Aug-2018
## 1965    2 years      MORTGAGE  130000.00     Source Verified Aug-2018
## 1978    3 years          RENT  115000.00        Not Verified Aug-2018
## 1980    3 years          RENT   81000.00        Not Verified Aug-2018
## 2007  10+ years      MORTGAGE  105060.00        Not Verified Aug-2018
## 2009  10+ years          RENT  110000.00        Not Verified Aug-2018
## 2031                 MORTGAGE   36000.00        Not Verified Aug-2018
## 2040    2 years           OWN   46000.00        Not Verified Aug-2018
## 2044  10+ years      MORTGAGE   95000.00        Not Verified Aug-2018
## 2049    3 years      MORTGAGE   74200.00     Source Verified Aug-2018
## 2052  10+ years      MORTGAGE   80000.00        Not Verified Aug-2018
## 2057  10+ years      MORTGAGE  100000.00     Source Verified Aug-2018
## 2059    3 years      MORTGAGE   40000.00            Verified Aug-2018
## 2063  10+ years          RENT   47000.00     Source Verified Aug-2018
## 2067  10+ years           OWN   80000.00     Source Verified Aug-2018
## 2097    9 years      MORTGAGE   60000.00            Verified Aug-2018
## 2102    2 years          RENT   55000.00            Verified Aug-2018
## 2106    2 years          RENT   58000.00     Source Verified Aug-2018
## 2111    2 years          RENT   80000.00     Source Verified Aug-2018
## 2112  10+ years      MORTGAGE   31000.00        Not Verified Aug-2018
## 2113  10+ years      MORTGAGE  160000.00        Not Verified Aug-2018
## 2118  10+ years          RENT   53000.00        Not Verified Aug-2018
## 2120    3 years      MORTGAGE   67000.00     Source Verified Aug-2018
## 2122  10+ years          RENT   67000.00        Not Verified Aug-2018
## 2125    2 years      MORTGAGE   80000.00        Not Verified Aug-2018
## 2130    2 years          RENT  175000.00            Verified Aug-2018
## 2133  10+ years           OWN   89600.00        Not Verified Aug-2018
## 2139  10+ years      MORTGAGE   65000.00     Source Verified Aug-2018
## 2144     1 year      MORTGAGE   77300.00        Not Verified Aug-2018
## 2156  10+ years      MORTGAGE   50000.00            Verified Aug-2018
## 2160  10+ years      MORTGAGE   50000.00            Verified Aug-2018
## 2182     1 year      MORTGAGE   94000.00     Source Verified Aug-2018
## 2183  10+ years           OWN  102000.00            Verified Aug-2018
## 2186    7 years      MORTGAGE   50000.00     Source Verified Aug-2018
## 2210    3 years          RENT   45000.00     Source Verified Aug-2018
## 2221    4 years          RENT   87000.00     Source Verified Aug-2018
## 2233   < 1 year          RENT   15000.00     Source Verified Aug-2018
## 2235    4 years          RENT  240000.00        Not Verified Aug-2018
## 2240  10+ years           OWN   63300.00        Not Verified Aug-2018
## 2247                      OWN   75000.00     Source Verified Aug-2018
## 2249    6 years          RENT   58100.00        Not Verified Aug-2018
## 2251    3 years           OWN   78000.00     Source Verified Aug-2018
## 2261  10+ years          RENT  120000.00        Not Verified Aug-2018
## 2262    3 years           OWN   60000.00     Source Verified Aug-2018
## 2275  10+ years      MORTGAGE  140000.00        Not Verified Aug-2018
## 2284    4 years      MORTGAGE   91000.00     Source Verified Aug-2018
## 2313  10+ years      MORTGAGE   65000.00     Source Verified Aug-2018
## 2314    6 years          RENT   52000.00     Source Verified Aug-2018
## 2332    2 years           OWN   45000.00     Source Verified Aug-2018
## 2333    3 years          RENT   35476.00     Source Verified Aug-2018
## 2334  10+ years      MORTGAGE   85000.00        Not Verified Aug-2018
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## 2344  10+ years       MORTGAGE   82000.00     Source Verified Aug-2018
## 2346    6 years       MORTGAGE   81000.00        Not Verified Aug-2018
## 2349  10+ years            OWN   78000.00        Not Verified Aug-2018
## 2352    4 years       MORTGAGE  175000.00     Source Verified Aug-2018
## 2359    6 years       MORTGAGE  155000.00     Source Verified Aug-2018
## 2364  10+ years            OWN   65000.00     Source Verified Aug-2018
## 2371    8 years       MORTGAGE  110000.00        Not Verified Aug-2018
## 2380  10+ years       MORTGAGE   88000.00     Source Verified Aug-2018
## 2388     1 year           RENT   98800.00            Verified Aug-2018
## 2398    3 years           RENT   68000.00        Not Verified Aug-2018
## 2400    2 years       MORTGAGE   78000.00     Source Verified Aug-2018
## 2401                  MORTGAGE   54200.00            Verified Aug-2018
## 2408    6 years       MORTGAGE  114000.00     Source Verified Aug-2018
## 2410     1 year            OWN   50000.00        Not Verified Aug-2018
## 2415    9 years           RENT   45000.00            Verified Aug-2018
## 2424   < 1 year       MORTGAGE  125000.00            Verified Aug-2018
## 2427     1 year           RENT   67800.00        Not Verified Aug-2018
## 2428    2 years       MORTGAGE   82500.00        Not Verified Aug-2018
## 2445    3 years           RENT   83000.00     Source Verified Aug-2018
## 2454    5 years       MORTGAGE   35000.00     Source Verified Jul-2018
## 2458  10+ years            OWN   90000.00     Source Verified Jul-2018
## 2459  10+ years            OWN   43000.00        Not Verified Jul-2018
## 2461  10+ years       MORTGAGE  110000.00        Not Verified Jul-2018
## 2475    7 years       MORTGAGE   67000.00        Not Verified Jul-2018
## 2479    6 years       MORTGAGE   40000.00        Not Verified Jul-2018
## 2482  10+ years           RENT   57800.00        Not Verified Jul-2018
## 2497    3 years       MORTGAGE   86000.00     Source Verified Aug-2018
## 2506    8 years       MORTGAGE   51492.00        Not Verified Jul-2018
## 2508  10+ years       MORTGAGE   60000.00        Not Verified Jul-2018
## 2518  10+ years           RENT   84000.00        Not Verified Jul-2018
## 2521  10+ years       MORTGAGE   75000.00     Source Verified Jul-2018
## 2526  10+ years       MORTGAGE   57000.00            Verified Jul-2018
## 2528    4 years       MORTGAGE  183000.00        Not Verified Jul-2018
## 2532    7 years       MORTGAGE   52000.00            Verified Jul-2018
## 2534  10+ years       MORTGAGE  195000.00     Source Verified Jul-2018
## 2537                      RENT   40000.00        Not Verified Jul-2018
## 2543  10+ years       MORTGAGE   64000.00        Not Verified Jul-2018
## 2555    3 years       MORTGAGE   68000.00     Source Verified Jul-2018
## 2559    5 years            OWN   55000.00     Source Verified Jul-2018
## 2565    2 years           RENT   99998.00        Not Verified Jul-2018
## 2569  10+ years       MORTGAGE   65000.00        Not Verified Jul-2018
## 2575    2 years       MORTGAGE   90000.00     Source Verified Jul-2018
## 2577    4 years           RENT   84000.00        Not Verified Jul-2018
## 2584  10+ years           RENT  187000.00        Not Verified Jul-2018
## 2586  10+ years       MORTGAGE   90000.00        Not Verified Jul-2018
## 2610    3 years           RENT   40900.00     Source Verified Jul-2018
## 2621    5 years           RENT  105000.00     Source Verified Jul-2018
## 2634  10+ years       MORTGAGE   42000.00            Verified Jul-2018
## 2646  10+ years       MORTGAGE  142000.00     Source Verified Jul-2018
## 2653  10+ years       MORTGAGE  148500.00        Not Verified Jul-2018
## 2656  10+ years       MORTGAGE   60000.00        Not Verified Jul-2018
## 2664    5 years       MORTGAGE  180000.00     Source Verified Jul-2018
## 2668    3 years           RENT   66000.00        Not Verified Jul-2018
## 2669    5 years       MORTGAGE   50000.00     Source Verified Jul-2018
## 2675   < 1 year       MORTGAGE   90000.00            Verified Jul-2018
## 2676  10+ years       MORTGAGE   74000.00            Verified Jul-2018
## 2685  10+ years       MORTGAGE   85000.00     Source Verified Jul-2018
## 2699    7 years       MORTGAGE   49000.00     Source Verified Jul-2018
## 2706   < 1 year           RENT   31580.00        Not Verified Jul-2018
## 2711  10+ years           RENT   60000.00        Not Verified Jul-2018
## 2717  10+ years       MORTGAGE   95000.00        Not Verified Jul-2018
## 2719    6 years       MORTGAGE   60000.00        Not Verified Jul-2018
## 2720   < 1 year       MORTGAGE   96000.00     Source Verified Jul-2018
## 2728    2 years       MORTGAGE  150000.00        Not Verified Jul-2018
## 2737    2 years           RENT   47477.00        Not Verified Jul-2018
## 2740     1 year           RENT   80000.00     Source Verified Jul-2018
## 2746  10+ years       MORTGAGE  118000.00        Not Verified Jul-2018
## 2748   < 1 year           RENT  135000.00     Source Verified Jul-2018
## 2759  10+ years            OWN   37000.00        Not Verified Jul-2018
## 2760    3 years           RENT  120000.00        Not Verified Jul-2018
## 2783  10+ years           RENT   67000.00     Source Verified Jul-2018
## 2784  10+ years           RENT  192000.00        Not Verified Jul-2018
## 2793  10+ years       MORTGAGE   77000.00            Verified Jul-2018
## 2794  10+ years       MORTGAGE  114000.00            Verified Jul-2018
## 2804     1 year           RENT   50000.00            Verified Jul-2018
## 2809    2 years       MORTGAGE  110000.00     Source Verified Jul-2018
## 2815    3 years            OWN  300000.00     Source Verified Jul-2018
## 2823    6 years           RENT   35000.00            Verified Jul-2018
## 2828    6 years           RENT   98935.00            Verified Jul-2018
## 2829    2 years       MORTGAGE   77000.00     Source Verified Jul-2018
## 2836  10+ years           RENT  225000.00     Source Verified Jul-2018
## 2849  10+ years       MORTGAGE   71800.00        Not Verified Jul-2018
## 2862    6 years       MORTGAGE   65000.00     Source Verified Jul-2018
## 2864    4 years           RENT   45000.00        Not Verified Jul-2018
## 2870     1 year       MORTGAGE   95000.00     Source Verified Jul-2018
## 2871     1 year           RENT   40000.00        Not Verified Jul-2018
## 2881  10+ years       MORTGAGE  130000.00            Verified Jul-2018
## 2890    2 years       MORTGAGE   55000.00            Verified Jul-2018
## 2902    2 years            OWN   55000.00            Verified Jul-2018
## 2904    8 years       MORTGAGE  120000.00            Verified Jul-2018
## 2905    7 years       MORTGAGE   48000.00        Not Verified Jul-2018
## 2909  10+ years       MORTGAGE  130000.00        Not Verified Jul-2018
## 2910  10+ years            OWN   55000.00     Source Verified Jul-2018
## 2921  10+ years       MORTGAGE  125000.00     Source Verified Jul-2018
## 2926                      RENT   45600.00        Not Verified Jul-2018
## 2937    9 years           RENT   27000.00        Not Verified Jul-2018
## 2943  10+ years            OWN   75000.00     Source Verified Jul-2018
## 2945  10+ years           RENT   40536.85            Verified Jul-2018
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## 2953  10+ years       MORTGAGE   72500.00            Verified Jul-2018
## 2963     1 year            OWN  105000.00     Source Verified Jul-2018
## 2964  10+ years           RENT   48000.00            Verified Jul-2018
## 2987    2 years       MORTGAGE  160000.00        Not Verified Jul-2018
## 2990     1 year           RENT  115000.00        Not Verified Jul-2018
## 2996    4 years           RENT   41366.00     Source Verified Jul-2018
## 2997    4 years            OWN   62000.00     Source Verified Jul-2018
## 2998  10+ years       MORTGAGE   97000.00            Verified Jul-2018
## 3011    4 years           RENT   98500.00        Not Verified Jul-2018
## 3013  10+ years           RENT  110000.00        Not Verified Jul-2018
## 3014    7 years       MORTGAGE  125000.00        Not Verified Jul-2018
## 3015  10+ years       MORTGAGE  135000.00        Not Verified Jul-2018
## 3019    3 years       MORTGAGE  123850.00        Not Verified Jul-2018
## 3020   < 1 year       MORTGAGE   89000.00        Not Verified Jul-2018
## 3038    5 years       MORTGAGE   40000.00     Source Verified Jul-2018
## 3046   < 1 year       MORTGAGE   90000.00            Verified Jul-2018
## 3055  10+ years       MORTGAGE   61000.00        Not Verified Jul-2018
## 3066    5 years       MORTGAGE   74000.00            Verified Jul-2018
## 3068  10+ years           RENT   36000.00        Not Verified Jul-2018
## 3069  10+ years       MORTGAGE   46000.00     Source Verified Jul-2018
## 3077  10+ years            OWN   75000.00     Source Verified Jul-2018
## 3091  10+ years           RENT   64000.00     Source Verified Jul-2018
## 3109  10+ years       MORTGAGE   58000.00            Verified Jul-2018
## 3110    2 years           RENT   65000.00        Not Verified Jul-2018
## 3111  10+ years       MORTGAGE  126000.00            Verified Jul-2018
## 3114    7 years       MORTGAGE  100000.00        Not Verified Jul-2018
## 3115    7 years           RENT   80000.00     Source Verified Jul-2018
## 3127     1 year       MORTGAGE  125000.00        Not Verified Jul-2018
## 3128    5 years       MORTGAGE   72000.00            Verified Jul-2018
## 3129  10+ years           RENT   41000.00     Source Verified Jul-2018
## 3139    3 years           RENT   49000.00        Not Verified Jul-2018
## 3144                  MORTGAGE   42000.00     Source Verified Jul-2018
## 3148    5 years       MORTGAGE   73000.00            Verified Jul-2018
## 3157  10+ years       MORTGAGE   70000.00     Source Verified Jul-2018
## 3167    2 years           RENT   68000.00        Not Verified Jul-2018
## 3168    5 years           RENT   70000.00     Source Verified Jul-2018
## 3191   < 1 year       MORTGAGE  170000.00     Source Verified Jul-2018
## 3192  10+ years       MORTGAGE   49000.00            Verified Jul-2018
## 3195    2 years           RENT   84000.00        Not Verified Jul-2018
## 3197    7 years       MORTGAGE  110000.00        Not Verified Jul-2018
## 3207    4 years       MORTGAGE   78000.00     Source Verified Jul-2018
## 3220  10+ years       MORTGAGE  130000.00            Verified Jul-2018
## 3235    6 years           RENT  100000.00     Source Verified Jul-2018
## 3240  10+ years           RENT 2500000.00     Source Verified Jul-2018
## 3242  10+ years       MORTGAGE   90000.00     Source Verified Jul-2018
## 3245    9 years       MORTGAGE  108000.00     Source Verified Jul-2018
## 3248                  MORTGAGE   72000.00        Not Verified Jul-2018
## 3249    8 years           RENT   55000.00        Not Verified Jul-2018
## 3250  10+ years           RENT   97772.00        Not Verified Jul-2018
## 3253  10+ years       MORTGAGE  108000.00     Source Verified Jul-2018
## 3255    3 years           RENT  190000.00        Not Verified Jul-2018
## 3263                  MORTGAGE   50000.00            Verified Jul-2018
## 3264    3 years           RENT   68000.00     Source Verified Jul-2018
## 3275    4 years            OWN   82000.00     Source Verified Jul-2018
## 3284  10+ years           RENT   54000.00     Source Verified Jul-2018
## 3301    2 years           RENT   35000.00        Not Verified Jul-2018
## 3324    8 years            OWN   45000.00            Verified Jul-2018
## 3327    2 years       MORTGAGE   75000.00        Not Verified Jul-2018
## 3328    9 years           RENT   85000.00        Not Verified Jul-2018
## 3338    9 years       MORTGAGE   67000.00        Not Verified Jul-2018
## 3340  10+ years           RENT   65000.00        Not Verified Jul-2018
## 3348  10+ years       MORTGAGE   95000.00        Not Verified Jul-2018
## 3373     1 year            OWN   86426.00     Source Verified Jul-2018
## 3375  10+ years           RENT   68000.00     Source Verified Jul-2018
## 3377    3 years            OWN   66000.00            Verified Jul-2018
## 3382    9 years            OWN  170000.00     Source Verified Jul-2018
## 3385  10+ years       MORTGAGE  132000.00     Source Verified Jul-2018
## 3390    5 years           RENT   60000.00        Not Verified Jul-2018
## 3391  10+ years           RENT   36000.00            Verified Jul-2018
## 3405    3 years           RENT   65000.00            Verified Jul-2018
## 3414  10+ years       MORTGAGE   61000.00     Source Verified Jul-2018
## 3415    2 years       MORTGAGE   91000.00        Not Verified Jul-2018
## 3418    2 years           RENT   38000.00        Not Verified Jul-2018
## 3423    5 years       MORTGAGE   80000.00            Verified Jul-2018
## 3437  10+ years       MORTGAGE   84000.00     Source Verified Jul-2018
## 3452    9 years       MORTGAGE  250000.00     Source Verified Jul-2018
## 3461                  MORTGAGE   35000.00        Not Verified Jul-2018
## 3468                  MORTGAGE   75000.00            Verified Jul-2018
## 3470  10+ years            OWN  140000.00        Not Verified Jul-2018
## 3473    5 years            ANY   72000.00        Not Verified Jul-2018
## 3476     1 year       MORTGAGE  105000.00     Source Verified Jul-2018
## 3478    2 years       MORTGAGE  100000.00        Not Verified Jul-2018
## 3495    6 years            OWN   74000.00        Not Verified Jun-2018
## 3496    3 years       MORTGAGE   31200.00            Verified Jun-2018
## 3499    3 years           RENT   30000.00        Not Verified Jun-2018
## 3512  10+ years           RENT   95000.00        Not Verified Jun-2018
## 3514    3 years           RENT   33000.00        Not Verified Jun-2018
## 3524                  MORTGAGE   59835.00        Not Verified Jun-2018
## 3526    6 years           RENT   35000.00     Source Verified Jun-2018
## 3528    7 years           RENT  140000.00        Not Verified Jun-2018
## 3529    7 years       MORTGAGE   68000.00        Not Verified Jun-2018
## 3533   < 1 year            OWN   55000.00            Verified Jun-2018
## 3549    5 years            OWN   96000.00        Not Verified Jun-2018
## 3551    6 years       MORTGAGE  102000.00     Source Verified Jun-2018
## 3552  10+ years       MORTGAGE  100000.00            Verified Jun-2018
## 3563   < 1 year           RENT   75000.00        Not Verified Jun-2018
## 3570    5 years       MORTGAGE   93000.00        Not Verified Jun-2018
## 3573  10+ years           RENT  150000.00     Source Verified Jun-2018
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## 3583    4 years       MORTGAGE  125000.00     Source Verified Jun-2018
## 3587    2 years            OWN   83500.00     Source Verified Jun-2018
## 3597  10+ years           RENT   40000.00     Source Verified Jun-2018
## 3601    5 years           RENT   60000.00     Source Verified Jun-2018
## 3609    9 years       MORTGAGE   83150.00     Source Verified Jun-2018
## 3618    4 years       MORTGAGE   89400.00            Verified Jun-2018
## 3620    6 years           RENT  106000.00     Source Verified Jun-2018
## 3626    3 years           RENT   78000.00     Source Verified Jun-2018
## 3627    4 years           RENT  130000.00            Verified Jun-2018
## 3638    5 years       MORTGAGE   96000.00     Source Verified Jun-2018
## 3643    7 years       MORTGAGE   85000.00     Source Verified Jun-2018
## 3647     1 year       MORTGAGE   84000.00     Source Verified Jun-2018
## 3652  10+ years           RENT   30000.00        Not Verified Jun-2018
## 3654    3 years           RENT   76000.00     Source Verified Jun-2018
## 3664    3 years       MORTGAGE  260000.00        Not Verified Jun-2018
## 3669                       OWN   31700.00        Not Verified Jun-2018
## 3676  10+ years           RENT   49000.00        Not Verified Jun-2018
## 3677   < 1 year           RENT   35000.00     Source Verified Jun-2018
## 3689                      RENT   47658.00     Source Verified Jun-2018
## 3694    3 years           RENT   47548.00     Source Verified Jun-2018
## 3695  10+ years       MORTGAGE   98000.00        Not Verified Jun-2018
## 3696   < 1 year            OWN   50000.00        Not Verified Jun-2018
## 3724  10+ years       MORTGAGE   57000.00     Source Verified Jun-2018
## 3725  10+ years           RENT   54000.00     Source Verified Jun-2018
## 3753  10+ years            OWN   50000.00            Verified Jun-2018
## 3772     1 year       MORTGAGE   68640.00            Verified Jun-2018
## 3792    3 years       MORTGAGE   93000.00     Source Verified Jun-2018
## 3793    2 years            OWN   37492.00     Source Verified Jun-2018
## 3795  10+ years           RENT   67000.00        Not Verified Jun-2018
## 3797                  MORTGAGE   50000.00            Verified Jun-2018
## 3798    6 years       MORTGAGE   50000.00     Source Verified Jun-2018
## 3806   < 1 year            OWN   60000.00        Not Verified Jun-2018
## 3812  10+ years           RENT   76000.00        Not Verified Jun-2018
## 3818    4 years            OWN   64000.00     Source Verified Jun-2018
## 3820    3 years           RENT   40000.00     Source Verified Jun-2018
## 3823  10+ years       MORTGAGE   53000.00        Not Verified Jun-2018
## 3829  10+ years       MORTGAGE  100000.00     Source Verified Jun-2018
## 3838  10+ years       MORTGAGE   74000.00     Source Verified Jun-2018
## 3842    8 years           RENT  980000.00            Verified Jun-2018
## 3848    2 years       MORTGAGE  103380.00     Source Verified Jun-2018
## 3863    3 years           RENT  120000.00     Source Verified Jun-2018
## 3866  10+ years       MORTGAGE   51000.00     Source Verified Jun-2018
## 3867    4 years           RENT   79000.00     Source Verified Jun-2018
## 3871  10+ years            OWN   55000.00        Not Verified Jun-2018
## 3880    4 years       MORTGAGE  150000.00        Not Verified Jun-2018
## 3883     1 year       MORTGAGE  225000.00     Source Verified Jun-2018
## 3891    2 years            OWN   40000.00        Not Verified Jun-2018
## 3895    3 years            OWN   75400.00        Not Verified Jun-2018
## 3896  10+ years            OWN   90000.00            Verified Jun-2018
## 3898  10+ years       MORTGAGE  205000.00     Source Verified Jun-2018
## 3903    7 years       MORTGAGE   62000.00     Source Verified Jun-2018
## 3916  10+ years       MORTGAGE   70000.00            Verified Jun-2018
## 3928  10+ years       MORTGAGE  120000.00     Source Verified Jun-2018
## 3930  10+ years           RENT  135000.00        Not Verified Jun-2018
## 3940  10+ years           RENT   65000.00            Verified Jun-2018
## 3957    2 years           RENT   80000.00        Not Verified Jun-2018
## 3966  10+ years           RENT   30000.00        Not Verified Jun-2018
## 3992    4 years           RENT   82000.00            Verified Jun-2018
## 3993     1 year           RENT   75250.00     Source Verified Jun-2018
## 4000    6 years       MORTGAGE   55000.00            Verified Jun-2018
## 4004    3 years           RENT   32000.00     Source Verified Jun-2018
## 4012   < 1 year       MORTGAGE   62800.00        Not Verified Jun-2018
## 4014    2 years       MORTGAGE  160000.00        Not Verified Jun-2018
## 4025                  MORTGAGE  102408.00        Not Verified Jun-2018
## 4029  10+ years            OWN   54000.00            Verified Jun-2018
## 4032    9 years       MORTGAGE   65000.00            Verified Jun-2018
## 4033    3 years       MORTGAGE   79000.00        Not Verified Jun-2018
## 4059  10+ years            OWN  230000.00     Source Verified Jun-2018
## 4066    7 years       MORTGAGE   62000.00            Verified Jun-2018
## 4067  10+ years       MORTGAGE   98000.00            Verified Jun-2018
## 4077  10+ years           RENT   70000.00            Verified Jun-2018
## 4087    6 years       MORTGAGE   80000.00        Not Verified Jun-2018
## 4088   < 1 year       MORTGAGE   40000.00     Source Verified Jun-2018
## 4091    7 years       MORTGAGE  108000.00     Source Verified Jun-2018
## 4102     1 year       MORTGAGE  125000.00        Not Verified Jun-2018
## 4106    3 years       MORTGAGE   73000.00     Source Verified Jun-2018
## 4112    5 years       MORTGAGE  120000.00            Verified Jun-2018
## 4127     1 year           RENT   52000.00            Verified Jun-2018
## 4129    5 years       MORTGAGE  140800.00        Not Verified Jun-2018
## 4130  10+ years       MORTGAGE   32000.00            Verified Jun-2018
## 4134    4 years       MORTGAGE  110000.00        Not Verified Jun-2018
## 4145  10+ years           RENT   54000.00        Not Verified Jun-2018
## 4156     1 year            OWN   57500.00        Not Verified Jun-2018
## 4158    4 years           RENT  100000.00        Not Verified Jun-2018
## 4166   < 1 year           RENT   90000.00        Not Verified Jun-2018
## 4167  10+ years            OWN  175000.00     Source Verified Jun-2018
## 4168    6 years       MORTGAGE   91000.00            Verified Jun-2018
## 4171  10+ years           RENT   64000.00        Not Verified Jun-2018
## 4176                  MORTGAGE   96000.00     Source Verified Jun-2018
## 4182  10+ years       MORTGAGE   33000.00        Not Verified Jun-2018
## 4183  10+ years            OWN   75000.00     Source Verified Jun-2018
## 4184     1 year       MORTGAGE   34344.00        Not Verified Jun-2018
## 4187  10+ years            OWN  154000.00            Verified Jun-2018
## 4190  10+ years       MORTGAGE  120000.00        Not Verified Jun-2018
## 4192    4 years       MORTGAGE   70000.00     Source Verified Jun-2018
## 4195    9 years           RENT   98000.00            Verified Jun-2018
## 4218  10+ years       MORTGAGE   65000.00        Not Verified Jun-2018
## 4223    2 years           RENT   24000.00     Source Verified Jun-2018
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## 4226  10+ years          RENT   40000.00     Source Verified Jun-2018
## 4227  10+ years           OWN  168000.00        Not Verified Jun-2018
## 4242  10+ years           OWN   60450.00        Not Verified Jun-2018
## 4244     1 year          RENT  120000.00        Not Verified Jun-2018
## 4246  10+ years      MORTGAGE  145000.00     Source Verified Jun-2018
## 4250  10+ years          RENT   55000.00        Not Verified Jun-2018
## 4264    2 years          RENT   50000.00        Not Verified Jun-2018
## 4276    4 years          RENT   88000.00        Not Verified Jun-2018
## 4281  10+ years      MORTGAGE   95000.00            Verified Jun-2018
## 4288    5 years      MORTGAGE   43200.00        Not Verified Jun-2018
## 4296                     RENT   95000.00     Source Verified Jun-2018
## 4299    3 years          RENT   78000.00            Verified Jun-2018
## 4302  10+ years          RENT   56000.00        Not Verified Jun-2018
## 4312  10+ years      MORTGAGE   70000.00        Not Verified Jun-2018
## 4315  10+ years          RENT   85000.00            Verified Jun-2018
## 4319     1 year      MORTGAGE  135000.00     Source Verified Jun-2018
## 4327     1 year          RENT  140000.00        Not Verified Jun-2018
## 4329     1 year           OWN   25000.00     Source Verified Jun-2018
## 4332                 MORTGAGE   71000.00        Not Verified Jun-2018
## 4339  10+ years      MORTGAGE   75000.00            Verified Jun-2018
## 4340    2 years           OWN   38000.00        Not Verified Jun-2018
## 4343    4 years           OWN   47000.00     Source Verified Jun-2018
## 4345    2 years      MORTGAGE   42000.00            Verified Jun-2018
## 4359  10+ years           OWN   45000.00     Source Verified Jun-2018
## 4361                 MORTGAGE   48000.00            Verified Jun-2018
## 4366    5 years      MORTGAGE   65000.00     Source Verified Jun-2018
## 4373    2 years          RENT   62000.00     Source Verified Jun-2018
## 4374  10+ years      MORTGAGE   62000.00            Verified Jun-2018
## 4384                 MORTGAGE   80000.00        Not Verified Jun-2018
## 4393    4 years          RENT   71500.00     Source Verified Jun-2018
## 4396  10+ years      MORTGAGE  100000.00     Source Verified Jun-2018
## 4409  10+ years      MORTGAGE   66000.00            Verified Jun-2018
## 4417  10+ years      MORTGAGE   98000.00        Not Verified Jun-2018
## 4422  10+ years           OWN   51000.00        Not Verified Jun-2018
## 4434    8 years      MORTGAGE   88150.00            Verified Jun-2018
## 4438  10+ years      MORTGAGE   77500.00     Source Verified Jun-2018
## 4439                      OWN   48000.00        Not Verified Jun-2018
## 4444     1 year          RENT   78000.00     Source Verified Jun-2018
## 4446    6 years          RENT  190000.00        Not Verified Jun-2018
## 4454    2 years      MORTGAGE   60000.00     Source Verified Jun-2018
## 4457  10+ years      MORTGAGE   57000.00     Source Verified Jun-2018
## 4460  10+ years          RENT   48500.00        Not Verified Jun-2018
## 4462    6 years           OWN   70000.00        Not Verified Jun-2018
## 4467  10+ years           OWN  101000.00     Source Verified Jun-2018
## 4475    7 years      MORTGAGE   60471.00     Source Verified Jun-2018
## 4480  10+ years           OWN   72000.00        Not Verified Jun-2018
## 4493     1 year          RENT  102500.00     Source Verified Jun-2018
## 4496  10+ years          RENT   85000.00     Source Verified Jun-2018
## 4508                     RENT   30000.00     Source Verified Jun-2018
## 4513    4 years          RENT   75000.00     Source Verified Jun-2018
## 4515    5 years      MORTGAGE   43000.00            Verified Jun-2018
## 4521    6 years          RENT   96000.00        Not Verified Jun-2018
## 4541    3 years      MORTGAGE   32500.00            Verified Jun-2018
## 4542    2 years      MORTGAGE   70000.00     Source Verified Jun-2018
## 4549    2 years      MORTGAGE  110000.00     Source Verified Jun-2018
## 4556     1 year      MORTGAGE   65000.00        Not Verified Jun-2018
## 4559  10+ years      MORTGAGE   78000.00     Source Verified Jun-2018
## 4560    5 years          RENT   50000.00     Source Verified Jun-2018
## 4570  10+ years      MORTGAGE   68000.00        Not Verified Jun-2018
## 4572  10+ years      MORTGAGE   85000.00            Verified Jun-2018
## 4574  10+ years          RENT   80000.00     Source Verified Jun-2018
## 4578  10+ years      MORTGAGE   92000.00        Not Verified Jun-2018
## 4582  10+ years          RENT   82000.00        Not Verified Jun-2018
## 4596    4 years          RENT  210000.00     Source Verified Jun-2018
## 4600    8 years      MORTGAGE  160000.00        Not Verified Jun-2018
## 4612  10+ years      MORTGAGE   78500.00        Not Verified Jun-2018
## 4619    4 years      MORTGAGE   82000.00            Verified Jun-2018
## 4628  10+ years      MORTGAGE   94409.32            Verified Jun-2018
## 4637   < 1 year          RENT   39000.00        Not Verified Jun-2018
## 4652    2 years          RENT  100000.00     Source Verified Jun-2018
## 4655    9 years          RENT   83000.00     Source Verified Jun-2018
## 4657    3 years      MORTGAGE  146000.00        Not Verified Jun-2018
## 4666    3 years      MORTGAGE  120000.00        Not Verified May-2018
## 4686  10+ years      MORTGAGE  151000.00            Verified Jun-2018
## 4689  10+ years      MORTGAGE   75000.00     Source Verified May-2018
## 4693    4 years          RENT   30000.00            Verified May-2018
## 4694    5 years           OWN  100000.00        Not Verified Jun-2018
## 4702  10+ years      MORTGAGE  120000.00            Verified May-2018
## 4705    5 years      MORTGAGE   60000.00        Not Verified May-2018
## 4707    6 years           OWN  190000.00     Source Verified May-2018
## 4713    4 years      MORTGAGE   42000.00            Verified May-2018
## 4716    3 years      MORTGAGE  160000.00            Verified May-2018
## 4727  10+ years          RENT   57000.00     Source Verified May-2018
## 4733    2 years      MORTGAGE  200000.00     Source Verified May-2018
## 4740  10+ years      MORTGAGE   76000.00        Not Verified May-2018
## 4752    2 years          RENT   78000.00        Not Verified May-2018
## 4757  10+ years          RENT   73600.00        Not Verified May-2018
## 4759    7 years      MORTGAGE   56700.00     Source Verified May-2018
## 4761  10+ years      MORTGAGE  155000.00        Not Verified May-2018
## 4773  10+ years      MORTGAGE   48000.00     Source Verified May-2018
## 4782    4 years          RENT  100000.00     Source Verified May-2018
## 4787    4 years          RENT  120000.00        Not Verified May-2018
## 4789    3 years           OWN   75000.00     Source Verified May-2018
## 4803    3 years          RENT   82000.00        Not Verified Jun-2018
## 4826    2 years      MORTGAGE   32000.00        Not Verified May-2018
## 4827  10+ years          RENT  171000.00     Source Verified May-2018
## 4828    9 years      MORTGAGE  158000.00        Not Verified May-2018
## 4855  10+ years      MORTGAGE  178000.00        Not Verified May-2018
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## 4857  10+ years       MORTGAGE   44000.00            Verified May-2018
## 4866    4 years           RENT   62000.00     Source Verified Jun-2018
## 4869  10+ years       MORTGAGE  136000.00        Not Verified May-2018
## 4877  10+ years       MORTGAGE  120000.00        Not Verified May-2018
## 4881    2 years            OWN   52000.00            Verified May-2018
## 4883  10+ years       MORTGAGE   65000.00     Source Verified May-2018
## 4919   < 1 year           RENT   48500.00     Source Verified May-2018
## 4924  10+ years            OWN   62000.00            Verified May-2018
## 4932   < 1 year       MORTGAGE  146335.00     Source Verified May-2018
## 4936  10+ years           RENT   40000.00        Not Verified May-2018
## 4939    2 years       MORTGAGE   84000.00     Source Verified May-2018
## 4942    2 years            OWN   54900.00            Verified May-2018
## 4964  10+ years       MORTGAGE   85000.00     Source Verified Jun-2018
## 4969   < 1 year       MORTGAGE   91000.00     Source Verified May-2018
## 4994  10+ years       MORTGAGE  135867.64            Verified May-2018
## 5000  10+ years       MORTGAGE   40000.00            Verified May-2018
## 5002  10+ years       MORTGAGE   77241.00        Not Verified May-2018
## 5004    2 years            OWN   30000.00     Source Verified May-2018
## 5005    5 years       MORTGAGE  119200.00            Verified May-2018
## 5012    5 years       MORTGAGE   45000.00            Verified May-2018
## 5013                       OWN   86000.00            Verified May-2018
## 5019     1 year           RENT   65000.00     Source Verified May-2018
## 5028                  MORTGAGE   40000.00        Not Verified May-2018
## 5033   < 1 year       MORTGAGE   98940.00        Not Verified May-2018
## 5056  10+ years       MORTGAGE   53000.00     Source Verified May-2018
## 5062    5 years           RENT   45000.00            Verified May-2018
## 5067   < 1 year       MORTGAGE  197000.00     Source Verified May-2018
## 5085  10+ years       MORTGAGE   49000.00     Source Verified May-2018
## 5101  10+ years       MORTGAGE   89000.00     Source Verified May-2018
## 5111  10+ years           RENT   43000.00     Source Verified May-2018
## 5113    9 years           RENT   30000.00            Verified May-2018
## 5119                  MORTGAGE   71000.00        Not Verified May-2018
## 5121    2 years           RENT   38395.00            Verified May-2018
## 5127    7 years       MORTGAGE  144000.00            Verified May-2018
## 5129    6 years           RENT   67000.00        Not Verified May-2018
## 5144  10+ years           RENT   90000.00     Source Verified May-2018
## 5146                      RENT   25000.00            Verified May-2018
## 5149    5 years       MORTGAGE  375000.00            Verified May-2018
## 5153     1 year           RENT   33000.00     Source Verified May-2018
## 5172    3 years           RENT   43832.00     Source Verified May-2018
## 5175   < 1 year       MORTGAGE  144840.00     Source Verified May-2018
## 5178  10+ years            OWN  450000.00            Verified May-2018
## 5189    2 years       MORTGAGE  120000.00     Source Verified May-2018
## 5198    6 years       MORTGAGE   85000.00            Verified May-2018
## 5199   < 1 year           RENT   28000.00        Not Verified May-2018
## 5208  10+ years       MORTGAGE   81000.00        Not Verified May-2018
## 5222  10+ years           RENT   40000.00        Not Verified May-2018
## 5226    6 years       MORTGAGE   91000.00        Not Verified May-2018
## 5227                       OWN   37000.00        Not Verified May-2018
## 5231  10+ years       MORTGAGE   93000.00        Not Verified May-2018
## 5253    6 years            OWN   55000.00            Verified May-2018
## 5263  10+ years       MORTGAGE   60000.00        Not Verified May-2018
## 5272  10+ years       MORTGAGE  107000.00        Not Verified May-2018
## 5280    6 years           RENT   40000.00        Not Verified May-2018
## 5288    8 years       MORTGAGE   60000.00        Not Verified May-2018
## 5289  10+ years       MORTGAGE   79000.00     Source Verified May-2018
## 5293  10+ years       MORTGAGE  140000.00            Verified May-2018
## 5296    5 years       MORTGAGE  119250.00        Not Verified May-2018
## 5318   < 1 year       MORTGAGE   48000.00     Source Verified May-2018
## 5323    6 years       MORTGAGE  158000.00        Not Verified May-2018
## 5338  10+ years           RENT   60000.00     Source Verified May-2018
## 5366    3 years           RENT   38000.00        Not Verified May-2018
## 5374                       OWN   72000.00        Not Verified May-2018
## 5378    6 years       MORTGAGE   55952.00        Not Verified May-2018
## 5386    3 years       MORTGAGE  171000.00     Source Verified May-2018
## 5391  10+ years       MORTGAGE   90000.00     Source Verified May-2018
## 5398    2 years           RENT   52000.00        Not Verified May-2018
## 5414    6 years       MORTGAGE   90000.00     Source Verified May-2018
## 5423     1 year           RENT  134100.00        Not Verified May-2018
## 5426    4 years           RENT   98000.00            Verified May-2018
## 5430                      RENT  115000.00     Source Verified May-2018
## 5434  10+ years       MORTGAGE   80000.00     Source Verified May-2018
## 5439  10+ years           RENT   65000.00     Source Verified May-2018
## 5457  10+ years       MORTGAGE  113000.00        Not Verified May-2018
## 5461    9 years           RENT   69000.00     Source Verified May-2018
## 5463     1 year           RENT   32000.00        Not Verified May-2018
## 5469  10+ years           RENT   65000.00     Source Verified May-2018
## 5471    5 years            OWN   52000.00     Source Verified May-2018
## 5487  10+ years       MORTGAGE   65000.00     Source Verified May-2018
## 5489  10+ years       MORTGAGE   85000.00            Verified May-2018
## 5493    2 years       MORTGAGE   53000.00        Not Verified May-2018
## 5495     1 year       MORTGAGE   90000.00     Source Verified May-2018
## 5504  10+ years            OWN  115000.00        Not Verified May-2018
## 5512     1 year           RENT   30843.00     Source Verified May-2018
## 5520  10+ years           RENT  105000.00            Verified May-2018
## 5526    6 years       MORTGAGE   58000.00            Verified May-2018
## 5528    3 years           RENT   29000.00     Source Verified May-2018
## 5530  10+ years       MORTGAGE  255000.00     Source Verified May-2018
## 5542    3 years       MORTGAGE  110000.00     Source Verified May-2018
## 5546  10+ years           RENT   57000.00            Verified May-2018
## 5560   < 1 year       MORTGAGE  110000.00        Not Verified May-2018
## 5572  10+ years            OWN   24000.00     Source Verified May-2018
## 5606  10+ years            OWN   56000.00     Source Verified May-2018
## 5617  10+ years       MORTGAGE   50000.00        Not Verified May-2018
## 5618    5 years       MORTGAGE   55000.00        Not Verified May-2018
## 5631  10+ years           RENT   56000.00        Not Verified May-2018
## 5644  10+ years            OWN   40000.00            Verified May-2018
## 5645  10+ years       MORTGAGE   75000.00     Source Verified May-2018
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## 5650  10+ years       MORTGAGE   91000.00     Source Verified May-2018
## 5652    8 years       MORTGAGE   50000.00     Source Verified May-2018
## 5653    4 years       MORTGAGE   68000.00            Verified May-2018
## 5655   < 1 year           RENT  125000.00        Not Verified May-2018
## 5657    2 years       MORTGAGE  124000.00        Not Verified May-2018
## 5662  10+ years           RENT  103000.00        Not Verified May-2018
## 5678   < 1 year       MORTGAGE   78000.00     Source Verified May-2018
## 5682                  MORTGAGE   32000.00        Not Verified May-2018
## 5686                  MORTGAGE   58000.00            Verified May-2018
## 5691  10+ years       MORTGAGE   94500.00     Source Verified May-2018
## 5701    4 years            OWN   60000.00            Verified May-2018
## 5702    9 years       MORTGAGE   52130.00            Verified May-2018
## 5713  10+ years       MORTGAGE  106000.00            Verified May-2018
## 5714  10+ years       MORTGAGE  125000.00     Source Verified May-2018
## 5719     1 year       MORTGAGE   95000.00        Not Verified May-2018
## 5726  10+ years       MORTGAGE   76700.00            Verified May-2018
## 5730  10+ years       MORTGAGE   60000.00            Verified May-2018
## 5735  10+ years           RENT  330000.00        Not Verified May-2018
## 5738   < 1 year       MORTGAGE  145000.00     Source Verified May-2018
## 5740    3 years       MORTGAGE  135000.00     Source Verified May-2018
## 5742                      RENT   60000.00        Not Verified May-2018
## 5746    8 years            OWN  112000.00        Not Verified May-2018
## 5748  10+ years            OWN  100000.00     Source Verified May-2018
## 5755  10+ years       MORTGAGE  223000.00     Source Verified May-2018
## 5774    4 years       MORTGAGE   52000.00        Not Verified May-2018
## 5780    4 years            OWN   55000.00        Not Verified May-2018
## 5790    4 years       MORTGAGE   32000.00            Verified May-2018
## 5805    3 years            OWN   64000.00        Not Verified May-2018
## 5813    6 years       MORTGAGE   72000.00     Source Verified May-2018
## 5829   < 1 year           RENT  150000.00        Not Verified May-2018
## 5837    2 years           RENT   80000.00     Source Verified May-2018
## 5839                  MORTGAGE   70000.00        Not Verified May-2018
## 5855                       OWN   30000.00     Source Verified May-2018
## 5864                  MORTGAGE   56250.00            Verified May-2018
## 5871     1 year           RENT   80000.00     Source Verified May-2018
## 5879  10+ years       MORTGAGE   47000.00     Source Verified May-2018
## 5894    9 years       MORTGAGE  129000.00            Verified May-2018
## 5900  10+ years       MORTGAGE   90000.00     Source Verified May-2018
## 5905    8 years       MORTGAGE   81200.00        Not Verified May-2018
## 5909    9 years       MORTGAGE  100000.00            Verified May-2018
## 5911     1 year           RENT   70000.00     Source Verified May-2018
## 5920     1 year            OWN   14064.00        Not Verified May-2018
## 5926    3 years           RENT   44000.00        Not Verified May-2018
## 5934    4 years            OWN  150000.00     Source Verified May-2018
## 5937  10+ years       MORTGAGE  120000.00        Not Verified May-2018
## 5939  10+ years            OWN  100000.00     Source Verified May-2018
## 5941    6 years       MORTGAGE  110000.00     Source Verified May-2018
## 5945  10+ years            OWN   51000.00     Source Verified May-2018
##      loan_status pymnt_plan desc            purpose                   title
## 1     Fully Paid          n             credit_card Credit card refinancing
## 13    Fully Paid          n                   other                   Other
## 26    Fully Paid          n          small_business                Business
## 29    Fully Paid          n             credit_card Credit card refinancing
## 56    Fully Paid          n                   other                   Other
## 58    Fully Paid          n        home_improvement        Home improvement
## 62    Fully Paid          n                   other                   Other
## 79    Fully Paid          n      debt_consolidation      Debt consolidation
## 81    Fully Paid          n        home_improvement        Home improvement
## 85    Fully Paid          n                   other                   Other
## 89    Fully Paid          n      debt_consolidation      Debt consolidation
## 94    Fully Paid          n                   house             Home buying
## 95    Fully Paid          n                   other                   Other
## 100   Fully Paid          n      debt_consolidation      Debt consolidation
## 123   Fully Paid          n      debt_consolidation      Debt consolidation
## 129   Fully Paid          n        home_improvement        Home improvement
## 131   Fully Paid          n      debt_consolidation      Debt consolidation
## 146   Fully Paid          n             credit_card Credit card refinancing
## 157   Fully Paid          n             credit_card Credit card refinancing
## 177   Fully Paid          n             credit_card Credit card refinancing
## 188   Fully Paid          n      debt_consolidation      Debt consolidation
## 189   Fully Paid          n                   other                   Other
## 209   Fully Paid          n      debt_consolidation      Debt consolidation
## 211   Fully Paid          n                     car           Car financing
## 214   Fully Paid          n             credit_card Credit card refinancing
## 223   Fully Paid          n             credit_card Credit card refinancing
## 228   Fully Paid          n          small_business                Business
## 237   Fully Paid          n      debt_consolidation      Debt consolidation
## 256   Fully Paid          n      debt_consolidation      Debt consolidation
## 266   Fully Paid          n                   other                   Other
## 280   Fully Paid          n      debt_consolidation      Debt consolidation
## 282   Fully Paid          n        home_improvement        Home improvement
## 288   Fully Paid          n          major_purchase          Major purchase
## 289   Fully Paid          n        home_improvement        Home improvement
## 291   Fully Paid          n          major_purchase          Major purchase
## 293   Fully Paid          n      debt_consolidation      Debt consolidation
## 299   Fully Paid          n             credit_card Credit card refinancing
## 300   Fully Paid          n                 medical        Medical expenses
## 303   Fully Paid          n             credit_card Credit card refinancing
## 320   Fully Paid          n      debt_consolidation      Debt consolidation
## 333   Fully Paid          n             credit_card Credit card refinancing
## 339   Fully Paid          n        home_improvement        Home improvement
## 342   Fully Paid          n             credit_card Credit card refinancing
## 363   Fully Paid          n      debt_consolidation      Debt consolidation
## 372   Fully Paid          n      debt_consolidation      Debt consolidation
## 380   Fully Paid          n        home_improvement        Home improvement
## 398   Fully Paid          n             credit_card Credit card refinancing
## 401   Fully Paid          n        home_improvement        Home improvement
## 404   Fully Paid          n      debt_consolidation      Debt consolidation
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## 437   Fully Paid          n          major_purchase          Major purchase
## 447   Fully Paid          n             credit_card Credit card refinancing
## 448   Fully Paid          n        home_improvement        Home improvement
## 449   Fully Paid          n      debt_consolidation      Debt consolidation
## 457   Fully Paid          n      debt_consolidation      Debt consolidation
## 463   Fully Paid          n      debt_consolidation      Debt consolidation
## 472   Fully Paid          n        home_improvement        Home improvement
## 478   Fully Paid          n      debt_consolidation      Debt consolidation
## 489   Fully Paid          n      debt_consolidation      Debt consolidation
## 492  Charged Off          n      debt_consolidation      Debt consolidation
## 498   Fully Paid          n      debt_consolidation      Debt consolidation
## 510   Fully Paid          n      debt_consolidation      Debt consolidation
## 511   Fully Paid          n        home_improvement        Home improvement
## 521   Fully Paid          n      debt_consolidation      Debt consolidation
## 522   Fully Paid          n          major_purchase          Major purchase
## 534   Fully Paid          n      debt_consolidation      Debt consolidation
## 535   Fully Paid          n      debt_consolidation      Debt consolidation
## 538   Fully Paid          n        home_improvement        Home improvement
## 539   Fully Paid          n             credit_card Credit card refinancing
## 554   Fully Paid          n             credit_card Credit card refinancing
## 557   Fully Paid          n      debt_consolidation      Debt consolidation
## 573   Fully Paid          n      debt_consolidation      Debt consolidation
## 574   Fully Paid          n             credit_card Credit card refinancing
## 586   Fully Paid          n      debt_consolidation      Debt consolidation
## 595   Fully Paid          n      debt_consolidation      Debt consolidation
## 599   Fully Paid          n                     car           Car financing
## 603   Fully Paid          n      debt_consolidation      Debt consolidation
## 604   Fully Paid          n      debt_consolidation      Debt consolidation
## 633   Fully Paid          n      debt_consolidation      Debt consolidation
## 643   Fully Paid          n             credit_card Credit card refinancing
## 657   Fully Paid          n                vacation                Vacation
## 661   Fully Paid          n      debt_consolidation      Debt consolidation
## 666   Fully Paid          n      debt_consolidation      Debt consolidation
## 686   Fully Paid          n                   other                   Other
## 693   Fully Paid          n                   other                   Other
## 701   Fully Paid          n      debt_consolidation      Debt consolidation
## 714   Fully Paid          n      debt_consolidation      Debt consolidation
## 723   Fully Paid          n      debt_consolidation      Debt consolidation
## 732   Fully Paid          n             credit_card Credit card refinancing
## 733   Fully Paid          n             credit_card Credit card refinancing
## 735   Fully Paid          n      debt_consolidation      Debt consolidation
## 736   Fully Paid          n                 medical        Medical expenses
## 741   Fully Paid          n      debt_consolidation      Debt consolidation
## 742   Fully Paid          n      debt_consolidation      Debt consolidation
## 751   Fully Paid          n      debt_consolidation      Debt consolidation
## 756   Fully Paid          n      debt_consolidation      Debt consolidation
## 759   Fully Paid          n             credit_card Credit card refinancing
## 762   Fully Paid          n             credit_card Credit card refinancing
## 763   Fully Paid          n             credit_card Credit card refinancing
## 765   Fully Paid          n      debt_consolidation      Debt consolidation
## 768   Fully Paid          n      debt_consolidation      Debt consolidation
## 773   Fully Paid          n        home_improvement        Home improvement
## 774   Fully Paid          n          major_purchase          Major purchase
## 776   Fully Paid          n                 medical        Medical expenses
## 783   Fully Paid          n                 medical        Medical expenses
## 785   Fully Paid          n                   other                   Other
## 842   Fully Paid          n             credit_card Credit card refinancing
## 864   Fully Paid          n      debt_consolidation      Debt consolidation
## 865   Fully Paid          n      debt_consolidation      Debt consolidation
## 868   Fully Paid          n      debt_consolidation      Debt consolidation
## 876   Fully Paid          n             credit_card Credit card refinancing
## 888   Fully Paid          n        home_improvement        Home improvement
## 927   Fully Paid          n      debt_consolidation      Debt consolidation
## 929   Fully Paid          n      debt_consolidation      Debt consolidation
## 941   Fully Paid          n      debt_consolidation      Debt consolidation
## 944   Fully Paid          n             credit_card Credit card refinancing
## 947   Fully Paid          n             credit_card Credit card refinancing
## 948   Fully Paid          n                   other                   Other
## 959   Fully Paid          n      debt_consolidation      Debt consolidation
## 970   Fully Paid          n      debt_consolidation      Debt consolidation
## 973   Fully Paid          n        home_improvement        Home improvement
## 979   Fully Paid          n                   other                   Other
## 980   Fully Paid          n                   house             Home buying
## 981   Fully Paid          n      debt_consolidation      Debt consolidation
## 987   Fully Paid          n      debt_consolidation      Debt consolidation
## 991   Fully Paid          n                   other                   Other
## 1001  Fully Paid          n             credit_card Credit card refinancing
## 1004  Fully Paid          n             credit_card Credit card refinancing
## 1010  Fully Paid          n                   house             Home buying
## 1016  Fully Paid          n          major_purchase          Major purchase
## 1018  Fully Paid          n      debt_consolidation      Debt consolidation
## 1019  Fully Paid          n                   other                   Other
## 1042  Fully Paid          n                   other                   Other
## 1079  Fully Paid          n                  moving   Moving and relocation
## 1087  Fully Paid          n                  moving   Moving and relocation
## 1093  Fully Paid          n                   other                   Other
## 1103  Fully Paid          n        home_improvement        Home improvement
## 1127  Fully Paid          n      debt_consolidation      Debt consolidation
## 1132  Fully Paid          n      debt_consolidation      Debt consolidation
## 1137  Fully Paid          n             credit_card Credit card refinancing
## 1138  Fully Paid          n                     car           Car financing
## 1140  Fully Paid          n        home_improvement        Home improvement
## 1144  Fully Paid          n      debt_consolidation      Debt consolidation
## 1145  Fully Paid          n        home_improvement        Home improvement
## 1154  Fully Paid          n      debt_consolidation      Debt consolidation
## 1156  Fully Paid          n      debt_consolidation      Debt consolidation
## 1157  Fully Paid          n             credit_card Credit card refinancing
## 1160  Fully Paid          n      debt_consolidation      Debt consolidation
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## 1162  Fully Paid          n      debt_consolidation      Debt consolidation
## 1165  Fully Paid          n      debt_consolidation      Debt consolidation
## 1176  Fully Paid          n      debt_consolidation      Debt consolidation
## 1180  Fully Paid          n      debt_consolidation      Debt consolidation
## 1182  Fully Paid          n                   house             Home buying
## 1183 Charged Off          n      debt_consolidation      Debt consolidation
## 1184  Fully Paid          n      debt_consolidation      Debt consolidation
## 1185  Fully Paid          n             credit_card Credit card refinancing
## 1201  Fully Paid          n      debt_consolidation      Debt consolidation
## 1204 Charged Off          n      debt_consolidation      Debt consolidation
## 1234  Fully Paid          n      debt_consolidation      Debt consolidation
## 1235  Fully Paid          n                     car           Car financing
## 1236  Fully Paid          n                   other                   Other
## 1240  Fully Paid          n      debt_consolidation      Debt consolidation
## 1288  Fully Paid          n      debt_consolidation      Debt consolidation
## 1289  Fully Paid          n                   other                   Other
## 1297  Fully Paid          n      debt_consolidation      Debt consolidation
## 1303  Fully Paid          n      debt_consolidation      Debt consolidation
## 1305 Charged Off          n                 medical        Medical expenses
## 1318  Fully Paid          n      debt_consolidation      Debt consolidation
## 1331  Fully Paid          n                   other                   Other
## 1332  Fully Paid          n      debt_consolidation      Debt consolidation
## 1333  Fully Paid          n      debt_consolidation      Debt consolidation
## 1350  Fully Paid          n      debt_consolidation      Debt consolidation
## 1358  Fully Paid          n      debt_consolidation      Debt consolidation
## 1359  Fully Paid          n      debt_consolidation      Debt consolidation
## 1364  Fully Paid          n      debt_consolidation      Debt consolidation
## 1370  Fully Paid          n      debt_consolidation      Debt consolidation
## 1372  Fully Paid          n      debt_consolidation      Debt consolidation
## 1377  Fully Paid          n        home_improvement        Home improvement
## 1381  Fully Paid          n             credit_card Credit card refinancing
## 1387  Fully Paid          n             credit_card Credit card refinancing
## 1401  Fully Paid          n                     car           Car financing
## 1405  Fully Paid          n                  moving   Moving and relocation
## 1417  Fully Paid          n             credit_card Credit card refinancing
## 1423  Fully Paid          n      debt_consolidation      Debt consolidation
## 1426  Fully Paid          n                 medical        Medical expenses
## 1429  Fully Paid          n        home_improvement        Home improvement
## 1436  Fully Paid          n      debt_consolidation      Debt consolidation
## 1448  Fully Paid          n      debt_consolidation      Debt consolidation
## 1454  Fully Paid          n             credit_card Credit card refinancing
## 1458  Fully Paid          n        home_improvement        Home improvement
## 1467  Fully Paid          n      debt_consolidation      Debt consolidation
## 1471  Fully Paid          n             credit_card Credit card refinancing
## 1474  Fully Paid          n          major_purchase          Major purchase
## 1491  Fully Paid          n             credit_card Credit card refinancing
## 1495  Fully Paid          n      debt_consolidation      Debt consolidation
## 1498  Fully Paid          n             credit_card Credit card refinancing
## 1508  Fully Paid          n        home_improvement        Home improvement
## 1515  Fully Paid          n      debt_consolidation      Debt consolidation
## 1528  Fully Paid          n      debt_consolidation      Debt consolidation
## 1536  Fully Paid          n      debt_consolidation      Debt consolidation
## 1541  Fully Paid          n             credit_card Credit card refinancing
## 1549  Fully Paid          n             credit_card Credit card refinancing
## 1556  Fully Paid          n          major_purchase          Major purchase
## 1561  Fully Paid          n      debt_consolidation      Debt consolidation
## 1563  Fully Paid          n      debt_consolidation      Debt consolidation
## 1565  Fully Paid          n             credit_card Credit card refinancing
## 1586  Fully Paid          n             credit_card Credit card refinancing
## 1587  Fully Paid          n          major_purchase          Major purchase
## 1589  Fully Paid          n      debt_consolidation      Debt consolidation
## 1602  Fully Paid          n        home_improvement        Home improvement
## 1615  Fully Paid          n      debt_consolidation      Debt consolidation
## 1625  Fully Paid          n      debt_consolidation      Debt consolidation
## 1630  Fully Paid          n      debt_consolidation      Debt consolidation
## 1635  Fully Paid          n        home_improvement        Home improvement
## 1654  Fully Paid          n      debt_consolidation      Debt consolidation
## 1655 Charged Off          n             credit_card Credit card refinancing
## 1670  Fully Paid          n             credit_card Credit card refinancing
## 1682  Fully Paid          n      debt_consolidation      Debt consolidation
## 1687  Fully Paid          n                   other                   Other
## 1690  Fully Paid          n             credit_card Credit card refinancing
## 1694  Fully Paid          n                     car           Car financing
## 1695  Fully Paid          n      debt_consolidation      Debt consolidation
## 1697  Fully Paid          n      debt_consolidation      Debt consolidation
## 1698  Fully Paid          n      debt_consolidation      Debt consolidation
## 1705  Fully Paid          n             credit_card Credit card refinancing
## 1709  Fully Paid          n      debt_consolidation      Debt consolidation
## 1719  Fully Paid          n      debt_consolidation      Debt consolidation
## 1720  Fully Paid          n                  moving   Moving and relocation
## 1731  Fully Paid          n      debt_consolidation      Debt consolidation
## 1736  Fully Paid          n      debt_consolidation      Debt consolidation
## 1740  Fully Paid          n      debt_consolidation      Debt consolidation
## 1745  Fully Paid          n        home_improvement        Home improvement
## 1746  Fully Paid          n      debt_consolidation      Debt consolidation
## 1758  Fully Paid          n      debt_consolidation      Debt consolidation
## 1769  Fully Paid          n      debt_consolidation      Debt consolidation
## 1778  Fully Paid          n      debt_consolidation      Debt consolidation
## 1793  Fully Paid          n        home_improvement        Home improvement
## 1795  Fully Paid          n        home_improvement        Home improvement
## 1797  Fully Paid          n      debt_consolidation      Debt consolidation
## 1800 Charged Off          n             credit_card Credit card refinancing
## 1807  Fully Paid          n      debt_consolidation      Debt consolidation
## 1815  Fully Paid          n      debt_consolidation      Debt consolidation
## 1818  Fully Paid          n             credit_card Credit card refinancing
## 1826  Fully Paid          n             credit_card Credit card refinancing
## 1827  Fully Paid          n      debt_consolidation      Debt consolidation
## 1835  Fully Paid          n      debt_consolidation      Debt consolidation
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## 1837  Fully Paid          n      debt_consolidation      Debt consolidation
## 1840  Fully Paid          n                   other                    Other
## 1845  Fully Paid          n             credit_card Credit card refinancing
## 1851  Fully Paid          n      debt_consolidation      Debt consolidation
## 1859  Fully Paid          n      debt_consolidation      Debt consolidation
## 1863  Fully Paid          n      debt_consolidation      Debt consolidation
## 1878  Fully Paid          n      debt_consolidation      Debt consolidation
## 1903  Fully Paid          n      debt_consolidation      Debt consolidation
## 1909  Fully Paid          n        home_improvement        Home improvement
## 1914  Fully Paid          n      debt_consolidation      Debt consolidation
## 1928 Charged Off          n      debt_consolidation      Debt consolidation
## 1947  Fully Paid          n      debt_consolidation      Debt consolidation
## 1953  Fully Paid          n        home_improvement        Home improvement
## 1955  Fully Paid          n             credit_card Credit card refinancing
## 1965  Fully Paid          n      debt_consolidation      Debt consolidation
## 1978  Fully Paid          n      debt_consolidation      Debt consolidation
## 1980  Fully Paid          n      debt_consolidation      Debt consolidation
## 2007  Fully Paid          n      debt_consolidation      Debt consolidation
## 2009  Fully Paid          n      debt_consolidation      Debt consolidation
## 2031  Fully Paid          n      debt_consolidation      Debt consolidation
## 2040  Fully Paid          n      debt_consolidation      Debt consolidation
## 2044  Fully Paid          n      debt_consolidation      Debt consolidation
## 2049  Fully Paid          n                   other                    Other
## 2052  Fully Paid          n      debt_consolidation      Debt consolidation
## 2057  Fully Paid          n      debt_consolidation      Debt consolidation
## 2059  Fully Paid          n                   other                    Other
## 2063  Fully Paid          n      debt_consolidation      Debt consolidation
## 2067  Fully Paid          n      debt_consolidation      Debt consolidation
## 2097  Fully Paid          n                vacation                 Vacation
## 2102  Fully Paid          n      debt_consolidation      Debt consolidation
## 2106  Fully Paid          n          major_purchase          Major purchase
## 2111  Fully Paid          n                  moving   Moving and relocation
## 2112  Fully Paid          n      debt_consolidation      Debt consolidation
## 2113  Fully Paid          n             credit_card Credit card refinancing
## 2118  Fully Paid          n      debt_consolidation      Debt consolidation
## 2120  Fully Paid          n                   other                    Other
## 2122  Fully Paid          n          major_purchase          Major purchase
## 2125  Fully Paid          n          major_purchase          Major purchase
## 2130  Fully Paid          n                   other                    Other
## 2133  Fully Paid          n             credit_card Credit card refinancing
## 2139  Fully Paid          n             credit_card Credit card refinancing
## 2144  Fully Paid          n      debt_consolidation      Debt consolidation
## 2156  Fully Paid          n      debt_consolidation      Debt consolidation
## 2160  Fully Paid          n      debt_consolidation      Debt consolidation
## 2182  Fully Paid          n      debt_consolidation      Debt consolidation
## 2183  Fully Paid          n      debt_consolidation      Debt consolidation
## 2186  Fully Paid          n                   other                    Other
## 2210  Fully Paid          n      debt_consolidation      Debt consolidation
## 2221  Fully Paid          n      debt_consolidation      Debt consolidation
## 2233 Charged Off          n      debt_consolidation      Debt consolidation
## 2235  Fully Paid          n          small_business                 Business
## 2240  Fully Paid          n      debt_consolidation      Debt consolidation
## 2247  Fully Paid          n                   other                    Other
## 2249  Fully Paid          n                 medical        Medical expenses
## 2251  Fully Paid          n          major_purchase          Major purchase
## 2261  Fully Paid          n      debt_consolidation      Debt consolidation
## 2262  Fully Paid          n                   house             Home buying
## 2275  Fully Paid          n        home_improvement        Home improvement
## 2284  Fully Paid          n      debt_consolidation      Debt consolidation
## 2313  Fully Paid          n        home_improvement        Home improvement
## 2314  Fully Paid          n                   other                    Other
## 2332  Fully Paid          n      debt_consolidation      Debt consolidation
## 2333 Charged Off          n      debt_consolidation      Debt consolidation
## 2334  Fully Paid          n      debt_consolidation      Debt consolidation
## 2344  Fully Paid          n      debt_consolidation      Debt consolidation
## 2346  Fully Paid          n             credit_card Credit card refinancing
## 2349  Fully Paid          n      debt_consolidation      Debt consolidation
## 2352  Fully Paid          n                   other                    Other
## 2359  Fully Paid          n          major_purchase          Major purchase
## 2364  Fully Paid          n                   other                    Other
## 2371  Fully Paid          n             credit_card Credit card refinancing
## 2380  Fully Paid          n      debt_consolidation      Debt consolidation
## 2388 Charged Off          n      debt_consolidation      Debt consolidation
## 2398  Fully Paid          n      debt_consolidation      Debt consolidation
## 2400 Charged Off          n      debt_consolidation      Debt consolidation
## 2401  Fully Paid          n      debt_consolidation      Debt consolidation
## 2408  Fully Paid          n        home_improvement        Home improvement
## 2410  Fully Paid          n             credit_card Credit card refinancing
## 2415 Charged Off          n          small_business                 Business
## 2424  Fully Paid          n      debt_consolidation      Debt consolidation
## 2427  Fully Paid          n             credit_card Credit card refinancing
## 2428  Fully Paid          n             credit_card Credit card refinancing
## 2445  Fully Paid          n             credit_card Credit card refinancing
## 2454  Fully Paid          n      debt_consolidation      Debt consolidation
## 2458  Fully Paid          n             credit_card Credit card refinancing
## 2459  Fully Paid          n      debt_consolidation      Debt consolidation
## 2461  Fully Paid          n        home_improvement        Home improvement
## 2475  Fully Paid          n      debt_consolidation      Debt consolidation
## 2479  Fully Paid          n                   other                    Other
## 2482  Fully Paid          n                 medical        Medical expenses
## 2497  Fully Paid          n      debt_consolidation      Debt consolidation
## 2506  Fully Paid          n      debt_consolidation      Debt consolidation
## 2508  Fully Paid          n      debt_consolidation      Debt consolidation
## 2518  Fully Paid          n      debt_consolidation      Debt consolidation
## 2521  Fully Paid          n      debt_consolidation      Debt consolidation
## 2526  Fully Paid          n      debt_consolidation      Debt consolidation
## 2528  Fully Paid          n                   house             Home buying
## 2532  Fully Paid          n      debt_consolidation      Debt consolidation
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## 2534  Fully Paid          n                  moving   Moving and relocation
## 2537  Fully Paid          n      debt_consolidation      Debt consolidation
## 2543  Fully Paid          n        home_improvement        Home improvement
## 2555  Fully Paid          n      debt_consolidation      Debt consolidation
## 2559  Fully Paid          n        home_improvement        Home improvement
## 2565  Fully Paid          n                   other                   Other
## 2569  Fully Paid          n      debt_consolidation      Debt consolidation
## 2575 Charged Off          n      debt_consolidation      Debt consolidation
## 2577  Fully Paid          n             credit_card Credit card refinancing
## 2584  Fully Paid          n      debt_consolidation      Debt consolidation
## 2586  Fully Paid          n        home_improvement        Home improvement
## 2610  Fully Paid          n          major_purchase          Major purchase
## 2621  Fully Paid          n        home_improvement        Home improvement
## 2634  Fully Paid          n      debt_consolidation      Debt consolidation
## 2646  Fully Paid          n      debt_consolidation      Debt consolidation
## 2653  Fully Paid          n                   other                   Other
## 2656  Fully Paid          n      debt_consolidation      Debt consolidation
## 2664  Fully Paid          n      debt_consolidation      Debt consolidation
## 2668  Fully Paid          n             credit_card Credit card refinancing
## 2669  Fully Paid          n      debt_consolidation      Debt consolidation
## 2675  Fully Paid          n             credit_card Credit card refinancing
## 2676  Fully Paid          n      debt_consolidation      Debt consolidation
## 2685  Fully Paid          n      debt_consolidation      Debt consolidation
## 2699  Fully Paid          n      debt_consolidation      Debt consolidation
## 2706  Fully Paid          n               vacation                Vacation
## 2711  Fully Paid          n      debt_consolidation      Debt consolidation
## 2717  Fully Paid          n             credit_card Credit card refinancing
## 2719  Fully Paid          n        home_improvement        Home improvement
## 2720  Fully Paid          n          major_purchase          Major purchase
## 2728  Fully Paid          n             credit_card Credit card refinancing
## 2737 Charged Off          n             credit_card Credit card refinancing
## 2740  Fully Paid          n      debt_consolidation      Debt consolidation
## 2746  Fully Paid          n             credit_card Credit card refinancing
## 2748  Fully Paid          n      debt_consolidation      Debt consolidation
## 2759  Fully Paid          n      debt_consolidation      Debt consolidation
## 2760  Fully Paid          n      debt_consolidation      Debt consolidation
## 2783  Fully Paid          n      debt_consolidation      Debt consolidation
## 2784  Fully Paid          n      debt_consolidation      Debt consolidation
## 2793  Fully Paid          n                   other                   Other
## 2794  Fully Paid          n      debt_consolidation      Debt consolidation
## 2804  Fully Paid          n      debt_consolidation      Debt consolidation
## 2809 Charged Off          n        home_improvement        Home improvement
## 2815  Fully Paid          n        home_improvement        Home improvement
## 2823  Fully Paid          n                   other                   Other
## 2828  Fully Paid          n      debt_consolidation      Debt consolidation
## 2829 Charged Off          n      debt_consolidation      Debt consolidation
## 2836  Fully Paid          n      debt_consolidation      Debt consolidation
## 2849  Fully Paid          n             credit_card Credit card refinancing
## 2862  Fully Paid          n      debt_consolidation      Debt consolidation
## 2864  Fully Paid          n             credit_card Credit card refinancing
## 2870  Fully Paid          n                     car           Car financing
## 2871  Fully Paid          n      debt_consolidation      Debt consolidation
## 2881 Charged Off          n             credit_card Credit card refinancing
## 2890  Fully Paid          n        home_improvement        Home improvement
## 2902  Fully Paid          n      debt_consolidation      Debt consolidation
## 2904  Fully Paid          n        home_improvement        Home improvement
## 2905  Fully Paid          n             credit_card Credit card refinancing
## 2909  Fully Paid          n      debt_consolidation      Debt consolidation
## 2910  Fully Paid          n        home_improvement        Home improvement
## 2921  Fully Paid          n        home_improvement        Home improvement
## 2926  Fully Paid          n                  moving   Moving and relocation
## 2937  Fully Paid          n      debt_consolidation      Debt consolidation
## 2943  Fully Paid          n      debt_consolidation      Debt consolidation
## 2945  Fully Paid          n      debt_consolidation      Debt consolidation
## 2953  Fully Paid          n      debt_consolidation      Debt consolidation
## 2963  Fully Paid          n        home_improvement        Home improvement
## 2964  Fully Paid          n      debt_consolidation      Debt consolidation
## 2987  Fully Paid          n               vacation                Vacation
## 2990  Fully Paid          n      debt_consolidation      Debt consolidation
## 2996 Charged Off          n                medical        Medical expenses
## 2997  Fully Paid          n             credit_card Credit card refinancing
## 2998  Fully Paid          n      debt_consolidation      Debt consolidation
## 3011  Fully Paid          n      debt_consolidation      Debt consolidation
## 3013  Fully Paid          n      debt_consolidation      Debt consolidation
## 3014  Fully Paid          n        home_improvement        Home improvement
## 3015  Fully Paid          n      debt_consolidation      Debt consolidation
## 3019  Fully Paid          n      debt_consolidation      Debt consolidation
## 3020  Fully Paid          n             credit_card Credit card refinancing
## 3038  Fully Paid          n             credit_card Credit card refinancing
## 3046  Fully Paid          n      debt_consolidation      Debt consolidation
## 3055  Fully Paid          n      debt_consolidation      Debt consolidation
## 3066  Fully Paid          n             credit_card Credit card refinancing
## 3068  Fully Paid          n             credit_card Credit card refinancing
## 3069  Fully Paid          n      debt_consolidation      Debt consolidation
## 3077  Fully Paid          n        home_improvement        Home improvement
## 3091  Fully Paid          n             credit_card Credit card refinancing
## 3109  Fully Paid          n             credit_card Credit card refinancing
## 3110  Fully Paid          n             credit_card Credit card refinancing
## 3111  Fully Paid          n      debt_consolidation      Debt consolidation
## 3114  Fully Paid          n      debt_consolidation      Debt consolidation
## 3115  Fully Paid          n      debt_consolidation      Debt consolidation
## 3127  Fully Paid          n        home_improvement        Home improvement
## 3128 Charged Off          n      debt_consolidation      Debt consolidation
## 3129  Fully Paid          n      debt_consolidation      Debt consolidation
## 3139  Fully Paid          n      debt_consolidation      Debt consolidation
## 3144  Fully Paid          n      debt_consolidation      Debt consolidation
## 3148  Fully Paid          n      debt_consolidation      Debt consolidation
## 3157  Fully Paid          n      debt_consolidation      Debt consolidation
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## 3167  Fully Paid          n             credit_card Credit card refinancing
## 3168  Fully Paid          n      debt_consolidation      Debt consolidation
## 3191  Fully Paid          n             credit_card Credit card refinancing
## 3192  Fully Paid          n      debt_consolidation      Debt consolidation
## 3195  Fully Paid          n             credit_card Credit card refinancing
## 3197  Fully Paid          n        home_improvement        Home improvement
## 3207  Fully Paid          n      debt_consolidation      Debt consolidation
## 3220  Fully Paid          n      debt_consolidation      Debt consolidation
## 3235  Fully Paid          n      debt_consolidation      Debt consolidation
## 3240  Fully Paid          n          small_business                Business
## 3242  Fully Paid          n             credit_card Credit card refinancing
## 3245  Fully Paid          n                 medical        Medical expenses
## 3248 Charged Off          n             credit_card Credit card refinancing
## 3249  Fully Paid          n      debt_consolidation      Debt consolidation
## 3250  Fully Paid          n      debt_consolidation      Debt consolidation
## 3253  Fully Paid          n      debt_consolidation      Debt consolidation
## 3255  Fully Paid          n        home_improvement        Home improvement
## 3263  Fully Paid          n             credit_card Credit card refinancing
## 3264  Fully Paid          n      debt_consolidation      Debt consolidation
## 3275  Fully Paid          n             credit_card Credit card refinancing
## 3284 Charged Off          n             credit_card Credit card refinancing
## 3301 Charged Off          n      debt_consolidation      Debt consolidation
## 3324  Fully Paid          n      debt_consolidation      Debt consolidation
## 3327  Fully Paid          n             credit_card Credit card refinancing
## 3328  Fully Paid          n             credit_card Credit card refinancing
## 3338  Fully Paid          n      debt_consolidation      Debt consolidation
## 3340  Fully Paid          n      debt_consolidation      Debt consolidation
## 3348  Fully Paid          n      debt_consolidation      Debt consolidation
## 3373  Fully Paid          n             credit_card Credit card refinancing
## 3375  Fully Paid          n      debt_consolidation      Debt consolidation
## 3377  Fully Paid          n             credit_card Credit card refinancing
## 3382  Fully Paid          n                   house             Home buying
## 3385  Fully Paid          n      debt_consolidation      Debt consolidation
## 3390  Fully Paid          n      debt_consolidation      Debt consolidation
## 3391 Charged Off          n      debt_consolidation      Debt consolidation
## 3405  Fully Paid          n             credit_card Credit card refinancing
## 3414  Fully Paid          n                   other                   Other
## 3415  Fully Paid          n      debt_consolidation      Debt consolidation
## 3418  Fully Paid          n      debt_consolidation      Debt consolidation
## 3423  Fully Paid          n      debt_consolidation      Debt consolidation
## 3437  Fully Paid          n        home_improvement        Home improvement
## 3452  Fully Paid          n      debt_consolidation      Debt consolidation
## 3461 Charged Off          n                   other                   Other
## 3468  Fully Paid          n      debt_consolidation      Debt consolidation
## 3470  Fully Paid          n             credit_card Credit card refinancing
## 3473  Fully Paid          n        home_improvement        Home improvement
## 3476  Fully Paid          n             credit_card Credit card refinancing
## 3478  Fully Paid          n             credit_card Credit card refinancing
## 3495  Fully Paid          n      debt_consolidation      Debt consolidation
## 3496 Charged Off          n                   other                   Other
## 3499  Fully Paid          n      debt_consolidation      Debt consolidation
## 3512  Fully Paid          n          major_purchase          Major purchase
## 3514 Charged Off          n             credit_card Credit card refinancing
## 3524  Fully Paid          n      debt_consolidation      Debt consolidation
## 3526 Charged Off          n                     car           Car financing
## 3528  Fully Paid          n             credit_card Credit card refinancing
## 3529  Fully Paid          n      debt_consolidation      Debt consolidation
## 3533  Fully Paid          n             credit_card Credit card refinancing
## 3549  Fully Paid          n        home_improvement        Home improvement
## 3551  Fully Paid          n      debt_consolidation      Debt consolidation
## 3552  Fully Paid          n             credit_card Credit card refinancing
## 3563  Fully Paid          n             credit_card Credit card refinancing
## 3570  Fully Paid          n             credit_card Credit card refinancing
## 3573 Charged Off          n          major_purchase          Major purchase
## 3583  Fully Paid          n      debt_consolidation      Debt consolidation
## 3587  Fully Paid          n      debt_consolidation      Debt consolidation
## 3597  Fully Paid          n      debt_consolidation      Debt consolidation
## 3601  Fully Paid          n      debt_consolidation      Debt consolidation
## 3609  Fully Paid          n      debt_consolidation      Debt consolidation
## 3618  Fully Paid          n      debt_consolidation      Debt consolidation
## 3620  Fully Paid          n          major_purchase          Major purchase
## 3626  Fully Paid          n      debt_consolidation      Debt consolidation
## 3627  Fully Paid          n             credit_card Credit card refinancing
## 3638  Fully Paid          n      debt_consolidation      Debt consolidation
## 3643  Fully Paid          n        home_improvement        Home improvement
## 3647  Fully Paid          n      debt_consolidation      Debt consolidation
## 3652  Fully Paid          n                   other                   Other
## 3654  Fully Paid          n             credit_card Credit card refinancing
## 3664  Fully Paid          n      debt_consolidation      Debt consolidation
## 3669  Fully Paid          n      debt_consolidation      Debt consolidation
## 3676  Fully Paid          n      debt_consolidation      Debt consolidation
## 3677  Fully Paid          n      debt_consolidation      Debt consolidation
## 3689 Charged Off          n      debt_consolidation      Debt consolidation
## 3694  Fully Paid          n      debt_consolidation      Debt consolidation
## 3695  Fully Paid          n      debt_consolidation      Debt consolidation
## 3696  Fully Paid          n             credit_card Credit card refinancing
## 3724  Fully Paid          n      debt_consolidation      Debt consolidation
## 3725  Fully Paid          n                   other                   Other
## 3753  Fully Paid          n      debt_consolidation      Debt consolidation
## 3772  Fully Paid          n        home_improvement        Home improvement
## 3792  Fully Paid          n      debt_consolidation      Debt consolidation
## 3793  Fully Paid          n      debt_consolidation      Debt consolidation
## 3795 Charged Off          n      debt_consolidation      Debt consolidation
## 3797  Fully Paid          n      debt_consolidation      Debt consolidation
## 3798  Fully Paid          n      debt_consolidation      Debt consolidation
## 3806 Charged Off          n      debt_consolidation      Debt consolidation
## 3812  Fully Paid          n      debt_consolidation      Debt consolidation
## 3818  Fully Paid          n      debt_consolidation      Debt consolidation
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## 3820  Fully Paid          n      debt_consolidation      Debt consolidation
## 3823  Fully Paid          n      debt_consolidation      Debt consolidation
## 3829  Fully Paid          n             credit_card Credit card refinancing
## 3838  Fully Paid          n             credit_card Credit card refinancing
## 3842  Fully Paid          n                vacation                Vacation
## 3848  Fully Paid          n                 medical        Medical expenses
## 3863 Charged Off          n      debt_consolidation      Debt consolidation
## 3866  Fully Paid          n      debt_consolidation      Debt consolidation
## 3867  Fully Paid          n                   other                   Other
## 3871  Fully Paid          n      debt_consolidation      Debt consolidation
## 3880 Charged Off          n                   house             Home buying
## 3883  Fully Paid          n      debt_consolidation      Debt consolidation
## 3891  Fully Paid          n                 medical        Medical expenses
## 3895  Fully Paid          n                 medical        Medical expenses
## 3896 Charged Off          n             credit_card Credit card refinancing
## 3898  Fully Paid          n      debt_consolidation      Debt consolidation
## 3903  Fully Paid          n                 medical        Medical expenses
## 3916  Fully Paid          n      debt_consolidation      Debt consolidation
## 3928  Fully Paid          n                   other                   Other
## 3930  Fully Paid          n      debt_consolidation      Debt consolidation
## 3940  Fully Paid          n        home_improvement        Home improvement
## 3957  Fully Paid          n                   other                   Other
## 3966  Fully Paid          n                 medical        Medical expenses
## 3992  Fully Paid          n      debt_consolidation      Debt consolidation
## 3993  Fully Paid          n             credit_card Credit card refinancing
## 4000  Fully Paid          n                 medical        Medical expenses
## 4004  Fully Paid          n      debt_consolidation      Debt consolidation
## 4012  Fully Paid          n             credit_card Credit card refinancing
## 4014  Fully Paid          n        home_improvement        Home improvement
## 4025  Fully Paid          n      debt_consolidation      Debt consolidation
## 4029 Charged Off          n      debt_consolidation      Debt consolidation
## 4032  Fully Paid          n                   other                   Other
## 4033  Fully Paid          n      debt_consolidation      Debt consolidation
## 4059  Fully Paid          n        home_improvement        Home improvement
## 4066  Fully Paid          n      debt_consolidation      Debt consolidation
## 4067  Fully Paid          n             credit_card Credit card refinancing
## 4077  Fully Paid          n      debt_consolidation      Debt consolidation
## 4087  Fully Paid          n      debt_consolidation      Debt consolidation
## 4088  Fully Paid          n      debt_consolidation      Debt consolidation
## 4091  Fully Paid          n      debt_consolidation      Debt consolidation
## 4102  Fully Paid          n      debt_consolidation      Debt consolidation
## 4106  Fully Paid          n      debt_consolidation      Debt consolidation
## 4112 Charged Off          n      debt_consolidation      Debt consolidation
## 4127 Charged Off          n                   other                   Other
## 4129  Fully Paid          n             credit_card Credit card refinancing
## 4130 Charged Off          n      debt_consolidation      Debt consolidation
## 4134  Fully Paid          n      debt_consolidation      Debt consolidation
## 4145 Charged Off          n             credit_card Credit card refinancing
## 4156  Fully Paid          n             credit_card Credit card refinancing
## 4158  Fully Paid          n          small_business                Business
## 4166  Fully Paid          n             credit_card Credit card refinancing
## 4167  Fully Paid          n             credit_card Credit card refinancing
## 4168  Fully Paid          n      debt_consolidation      Debt consolidation
## 4171  Fully Paid          n      debt_consolidation      Debt consolidation
## 4176  Fully Paid          n        home_improvement        Home improvement
## 4182  Fully Paid          n      debt_consolidation      Debt consolidation
## 4183  Fully Paid          n      debt_consolidation      Debt consolidation
## 4184 Charged Off          n                     car           Car financing
## 4187  Fully Paid          n             credit_card Credit card refinancing
## 4190  Fully Paid          n             credit_card Credit card refinancing
## 4192  Fully Paid          n      debt_consolidation      Debt consolidation
## 4195  Fully Paid          n      debt_consolidation      Debt consolidation
## 4218 Charged Off          n        home_improvement        Home improvement
## 4223  Fully Paid          n             credit_card Credit card refinancing
## 4226  Fully Paid          n      debt_consolidation      Debt consolidation
## 4227  Fully Paid          n                 medical        Medical expenses
## 4242  Fully Paid          n             credit_card Credit card refinancing
## 4244  Fully Paid          n          major_purchase          Major purchase
## 4246  Fully Paid          n      debt_consolidation      Debt consolidation
## 4250  Fully Paid          n             credit_card Credit card refinancing
## 4264  Fully Paid          n      debt_consolidation      Debt consolidation
## 4276  Fully Paid          n      debt_consolidation      Debt consolidation
## 4281  Fully Paid          n                vacation                Vacation
## 4288  Fully Paid          n      debt_consolidation      Debt consolidation
## 4296  Fully Paid          n             credit_card Credit card refinancing
## 4299  Fully Paid          n      debt_consolidation      Debt consolidation
## 4302  Fully Paid          n      debt_consolidation      Debt consolidation
## 4312  Fully Paid          n        home_improvement        Home improvement
## 4315  Fully Paid          n      debt_consolidation      Debt consolidation
## 4319  Fully Paid          n      debt_consolidation      Debt consolidation
## 4327  Fully Paid          n      debt_consolidation      Debt consolidation
## 4329  Fully Paid          n          major_purchase          Major purchase
## 4332  Fully Paid          n      debt_consolidation      Debt consolidation
## 4339  Fully Paid          n                   other                   Other
## 4340  Fully Paid          n      debt_consolidation      Debt consolidation
## 4343  Fully Paid          n             credit_card Credit card refinancing
## 4345  Fully Paid          n      debt_consolidation      Debt consolidation
## 4359 Charged Off          n        home_improvement        Home improvement
## 4361  Fully Paid          n                   other                   Other
## 4366  Fully Paid          n      debt_consolidation      Debt consolidation
## 4373  Fully Paid          n             credit_card Credit card refinancing
## 4374  Fully Paid          n                   other                   Other
## 4384  Fully Paid          n             credit_card Credit card refinancing
## 4393  Fully Paid          n        home_improvement        Home improvement
## 4396  Fully Paid          n      debt_consolidation      Debt consolidation
## 4409  Fully Paid          n      debt_consolidation      Debt consolidation
## 4417  Fully Paid          n        home_improvement        Home improvement
## 4422 Charged Off          n             credit_card Credit card refinancing
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## 4434 Charged Off          n      debt_consolidation      Debt consolidation
## 4438  Fully Paid          n             credit_card Credit card refinancing
## 4439  Fully Paid          n             credit_card Credit card refinancing
## 4444  Fully Paid          n      debt_consolidation      Debt consolidation
## 4446 Charged Off          n          major_purchase          Major purchase
## 4454  Fully Paid          n      debt_consolidation      Debt consolidation
## 4457  Fully Paid          n      debt_consolidation      Debt consolidation
## 4460  Fully Paid          n      debt_consolidation      Debt consolidation
## 4462  Fully Paid          n      debt_consolidation      Debt consolidation
## 4467  Fully Paid          n             credit_card Credit card refinancing
## 4475  Fully Paid          n                   house             Home buying
## 4480  Fully Paid          n                   other                   Other
## 4493  Fully Paid          n             credit_card Credit card refinancing
## 4496  Fully Paid          n      debt_consolidation      Debt consolidation
## 4508  Fully Paid          n             credit_card Credit card refinancing
## 4513  Fully Paid          n             credit_card Credit card refinancing
## 4515  Fully Paid          n      debt_consolidation      Debt consolidation
## 4521  Fully Paid          n             credit_card Credit card refinancing
## 4541  Fully Paid          n      debt_consolidation      Debt consolidation
## 4542  Fully Paid          n             credit_card Credit card refinancing
## 4549  Fully Paid          n        home_improvement        Home improvement
## 4556  Fully Paid          n      debt_consolidation      Debt consolidation
## 4559  Fully Paid          n        home_improvement        Home improvement
## 4560  Fully Paid          n      debt_consolidation      Debt consolidation
## 4570  Fully Paid          n      debt_consolidation      Debt consolidation
## 4572  Fully Paid          n      debt_consolidation      Debt consolidation
## 4574  Fully Paid          n      debt_consolidation      Debt consolidation
## 4578  Fully Paid          n             credit_card Credit card refinancing
## 4582  Fully Paid          n      debt_consolidation      Debt consolidation
## 4596  Fully Paid          n                 medical        Medical expenses
## 4600  Fully Paid          n      debt_consolidation      Debt consolidation
## 4612  Fully Paid          n      debt_consolidation      Debt consolidation
## 4619  Fully Paid          n      debt_consolidation      Debt consolidation
## 4628  Fully Paid          n      debt_consolidation      Debt consolidation
## 4637 Charged Off          n             credit_card Credit card refinancing
## 4652  Fully Paid          n      debt_consolidation      Debt consolidation
## 4655  Fully Paid          n      debt_consolidation      Debt consolidation
## 4657  Fully Paid          n             credit_card Credit card refinancing
## 4666  Fully Paid          n      debt_consolidation      Debt consolidation
## 4686  Fully Paid          n      debt_consolidation      Debt consolidation
## 4689  Fully Paid          n        home_improvement        Home improvement
## 4693  Fully Paid          n      debt_consolidation      Debt consolidation
## 4694  Fully Paid          n      debt_consolidation      Debt consolidation
## 4702  Fully Paid          n      debt_consolidation      Debt consolidation
## 4705  Fully Paid          n      debt_consolidation      Debt consolidation
## 4707  Fully Paid          n      debt_consolidation      Debt consolidation
## 4713 Charged Off          n      debt_consolidation      Debt consolidation
## 4716  Fully Paid          n        home_improvement        Home improvement
## 4727 Charged Off          n                   other                   Other
## 4733  Fully Paid          n      debt_consolidation      Debt consolidation
## 4740  Fully Paid          n      debt_consolidation      Debt consolidation
## 4752  Fully Paid          n      debt_consolidation      Debt consolidation
## 4757 Charged Off          n        home_improvement        Home improvement
## 4759  Fully Paid          n      debt_consolidation      Debt consolidation
## 4761  Fully Paid          n        home_improvement        Home improvement
## 4773  Fully Paid          n      debt_consolidation      Debt consolidation
## 4782 Charged Off          n      debt_consolidation      Debt consolidation
## 4787 Charged Off          n                 medical        Medical expenses
## 4789  Fully Paid          n      debt_consolidation      Debt consolidation
## 4803  Fully Paid          n                   other                   Other
## 4826  Fully Paid          n                   other                   Other
## 4827  Fully Paid          n      debt_consolidation      Debt consolidation
## 4828  Fully Paid          n          major_purchase          Major purchase
## 4855  Fully Paid          n        home_improvement        Home improvement
## 4857  Fully Paid          n      debt_consolidation      Debt consolidation
## 4866  Fully Paid          n             credit_card Credit card refinancing
## 4869  Fully Paid          n                   other                   Other
## 4877  Fully Paid          n      debt_consolidation      Debt consolidation
## 4881  Fully Paid          n        home_improvement        Home improvement
## 4883  Fully Paid          n      debt_consolidation      Debt consolidation
## 4919  Fully Paid          n             credit_card Credit card refinancing
## 4924  Fully Paid          n      debt_consolidation      Debt consolidation
## 4932  Fully Paid          n      debt_consolidation      Debt consolidation
## 4936  Fully Paid          n      debt_consolidation      Debt consolidation
## 4939  Fully Paid          n      debt_consolidation      Debt consolidation
## 4942  Fully Paid          n             credit_card Credit card refinancing
## 4964  Fully Paid          n                   house             Home buying
## 4969  Fully Paid          n      debt_consolidation      Debt consolidation
## 4994  Fully Paid          n      debt_consolidation      Debt consolidation
## 5000 Charged Off          n      debt_consolidation      Debt consolidation
## 5002  Fully Paid          n      debt_consolidation      Debt consolidation
## 5004  Fully Paid          n                   other                   Other
## 5005  Fully Paid          n      debt_consolidation      Debt consolidation
## 5012  Fully Paid          n                     car           Car financing
## 5013 Charged Off          n      debt_consolidation      Debt consolidation
## 5019  Fully Paid          n                   other                   Other
## 5028  Fully Paid          n      debt_consolidation      Debt consolidation
## 5033 Charged Off          n      debt_consolidation      Debt consolidation
## 5056  Fully Paid          n                   house             Home buying
## 5062  Fully Paid          n                vacation                Vacation
## 5067  Fully Paid          n        home_improvement        Home improvement
## 5085 Charged Off          n      debt_consolidation      Debt consolidation
## 5101  Fully Paid          n        home_improvement        Home improvement
## 5111  Fully Paid          n          major_purchase          Major purchase
## 5113 Charged Off          n                  moving   Moving and relocation
## 5119  Fully Paid          n        home_improvement        Home improvement
## 5121 Charged Off          n      debt_consolidation      Debt consolidation
## 5127  Fully Paid          n        home_improvement        Home improvement
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## 5129  Fully Paid          n      debt_consolidation      Debt consolidation
## 5144  Fully Paid          n             credit_card Credit card refinancing
## 5146  Fully Paid          n      debt_consolidation      Debt consolidation
## 5149  Fully Paid          n      debt_consolidation      Debt consolidation
## 5153  Fully Paid          n          major_purchase          Major purchase
## 5172  Fully Paid          n      debt_consolidation      Debt consolidation
## 5175 Charged Off          n             credit_card Credit card refinancing
## 5178  Fully Paid          n             credit_card Credit card refinancing
## 5189  Fully Paid          n        home_improvement        Home improvement
## 5198  Fully Paid          n      debt_consolidation      Debt consolidation
## 5199  Fully Paid          n          major_purchase          Major purchase
## 5208 Charged Off          n        home_improvement        Home improvement
## 5222  Fully Paid          n      debt_consolidation      Debt consolidation
## 5226  Fully Paid          n             credit_card Credit card refinancing
## 5227  Fully Paid          n             credit_card Credit card refinancing
## 5231  Fully Paid          n        home_improvement        Home improvement
## 5253 Charged Off          n      debt_consolidation      Debt consolidation
## 5263  Fully Paid          n      debt_consolidation      Debt consolidation
## 5272  Fully Paid          n             credit_card Credit card refinancing
## 5280 Charged Off          n             credit_card Credit card refinancing
## 5288  Fully Paid          n      debt_consolidation      Debt consolidation
## 5289  Fully Paid          n             credit_card Credit card refinancing
## 5293  Fully Paid          n        home_improvement        Home improvement
## 5296  Fully Paid          n      debt_consolidation      Debt consolidation
## 5318  Fully Paid          n             credit_card Credit card refinancing
## 5323  Fully Paid          n        home_improvement        Home improvement
## 5338  Fully Paid          n      debt_consolidation      Debt consolidation
## 5366 Charged Off          n                   other                   Other
## 5374  Fully Paid          n                   other                   Other
## 5378  Fully Paid          n      debt_consolidation      Debt consolidation
## 5386  Fully Paid          n             credit_card Credit card refinancing
## 5391  Fully Paid          n      debt_consolidation      Debt consolidation
## 5398 Charged Off          n      debt_consolidation      Debt consolidation
## 5414  Fully Paid          n                   house             Home buying
## 5423  Fully Paid          n        home_improvement        Home improvement
## 5426 Charged Off          n          major_purchase          Major purchase
## 5430  Fully Paid          n             credit_card Credit card refinancing
## 5434  Fully Paid          n      debt_consolidation      Debt consolidation
## 5439 Charged Off          n      debt_consolidation      Debt consolidation
## 5457  Fully Paid          n      debt_consolidation      Debt consolidation
## 5461  Fully Paid          n                   other                   Other
## 5463 Charged Off          n      debt_consolidation      Debt consolidation
## 5469  Fully Paid          n             credit_card Credit card refinancing
## 5471  Fully Paid          n        home_improvement        Home improvement
## 5487  Fully Paid          n      debt_consolidation      Debt consolidation
## 5489  Fully Paid          n             credit_card Credit card refinancing
## 5493  Fully Paid          n             credit_card Credit card refinancing
## 5495  Fully Paid          n      debt_consolidation      Debt consolidation
## 5504 Charged Off          n      debt_consolidation      Debt consolidation
## 5512  Fully Paid          n      debt_consolidation      Debt consolidation
## 5520  Fully Paid          n             credit_card Credit card refinancing
## 5526  Fully Paid          n      debt_consolidation      Debt consolidation
## 5528  Fully Paid          n                   other                   Other
## 5530  Fully Paid          n        home_improvement        Home improvement
## 5542  Fully Paid          n      debt_consolidation      Debt consolidation
## 5546 Charged Off          n             credit_card Credit card refinancing
## 5560  Fully Paid          n      debt_consolidation      Debt consolidation
## 5572 Charged Off          n          major_purchase          Major purchase
## 5606  Fully Paid          n      debt_consolidation      Debt consolidation
## 5617  Fully Paid          n      debt_consolidation      Debt consolidation
## 5618  Fully Paid          n                   other                   Other
## 5631  Fully Paid          n      debt_consolidation      Debt consolidation
## 5644 Charged Off          n                     car           Car financing
## 5645  Fully Paid          n                   other                   Other
## 5650  Fully Paid          n      debt_consolidation      Debt consolidation
## 5652  Fully Paid          n             credit_card Credit card refinancing
## 5653  Fully Paid          n          major_purchase          Major purchase
## 5655 Charged Off          n      debt_consolidation      Debt consolidation
## 5657  Fully Paid          n             credit_card Credit card refinancing
## 5662  Fully Paid          n             credit_card Credit card refinancing
## 5678  Fully Paid          n      debt_consolidation      Debt consolidation
## 5682  Fully Paid          n      debt_consolidation      Debt consolidation
## 5686  Fully Paid          n      debt_consolidation      Debt consolidation
## 5691  Fully Paid          n                vacation                Vacation
## 5701 Charged Off          n      debt_consolidation      Debt consolidation
## 5702  Fully Paid          n      debt_consolidation      Debt consolidation
## 5713  Fully Paid          n      debt_consolidation      Debt consolidation
## 5714  Fully Paid          n        home_improvement        Home improvement
## 5719  Fully Paid          n      debt_consolidation      Debt consolidation
## 5726  Fully Paid          n      debt_consolidation      Debt consolidation
## 5730  Fully Paid          n      debt_consolidation      Debt consolidation
## 5735 Charged Off          n      debt_consolidation      Debt consolidation
## 5738  Fully Paid          n      debt_consolidation      Debt consolidation
## 5740  Fully Paid          n      debt_consolidation      Debt consolidation
## 5742 Charged Off          n      debt_consolidation      Debt consolidation
## 5746  Fully Paid          n        home_improvement        Home improvement
## 5748  Fully Paid          n             credit_card Credit card refinancing
## 5755  Fully Paid          n             credit_card Credit card refinancing
## 5774 Charged Off          n      debt_consolidation      Debt consolidation
## 5780  Fully Paid          n             credit_card Credit card refinancing
## 5790 Charged Off          n      debt_consolidation      Debt consolidation
## 5805  Fully Paid          n      debt_consolidation      Debt consolidation
## 5813  Fully Paid          n      debt_consolidation      Debt consolidation
## 5829  Fully Paid          n      debt_consolidation      Debt consolidation
## 5837  Fully Paid          n      debt_consolidation      Debt consolidation
## 5839  Fully Paid          n             credit_card Credit card refinancing
## 5855 Charged Off          n                vacation                Vacation
## 5864  Fully Paid          n             credit_card Credit card refinancing
```

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## 5871 Charged Off          n                   other                   Other
## 5879  Fully Paid          n      debt_consolidation      Debt consolidation
## 5894  Fully Paid          n                   house             Home buying
## 5900  Fully Paid          n      debt_consolidation      Debt consolidation
## 5905  Fully Paid          n      debt_consolidation      Debt consolidation
## 5909  Fully Paid          n                  moving   Moving and relocation
## 5911  Fully Paid          n                   other                   Other
## 5920  Fully Paid          n                 medical        Medical expenses
## 5926  Fully Paid          n             credit_card Credit card refinancing
## 5934  Fully Paid          n      debt_consolidation      Debt consolidation
## 5937  Fully Paid          n                   other                   Other
## 5939  Fully Paid          n             credit_card Credit card refinancing
## 5941  Fully Paid          n      debt_consolidation      Debt consolidation
## 5945  Fully Paid          n                   other                   Other
##      zip_code addr_state   dti delinq_2yrs earliest_cr_line inq_last_6mths
## 1       786xx         TX  4.64          0         Dec-2003              0
## 13      791xx         TX 18.70          0         Oct-1993              0
## 26      338xx         FL  5.79          0         Dec-2011              1
## 29      482xx         MI 16.95          1         Nov-2002              1
## 56      018xx         MA 10.21          0         Oct-2004              0
## 58      640xx         MO  4.52          0         Jul-2007              0
## 62      940xx         CA  3.44          0         Jun-1998              0
## 79      851xx         AZ 11.69          0         Mar-1996              1
## 81      770xx         TX 13.36          0         Aug-2002              0
## 85      750xx         TX 19.47          0         Dec-1986              0
## 89      750xx         TX 31.50          2         Dec-2005              0
## 94      493xx         MI 10.70          0         Jun-2007              2
## 95      320xx         FL 37.83          0         Sep-2005              0
## 100     327xx         FL 14.04          1         Oct-1995              1
## 123     085xx         NJ 15.03          0         Aug-1983              1
## 129     253xx         WV 28.35          1         Jul-2002              2
## 131     331xx         FL 15.79          0         Mar-2000              0
## 146     300xx         GA 12.15          0         Sep-2007              4
## 157     537xx         WI 13.20          0         May-2009              0
## 177     070xx         NJ  6.49          1         Jan-2009              0
## 188     606xx         IL  7.32          0         Jan-1980              1
## 189     852xx         AZ 22.23          1         Nov-2002              0
## 209     660xx         KS 37.76          0         Oct-2007              0
## 211     402xx         KY 11.24          0         Mar-2004              0
## 214     018xx         MA 15.35          0         Sep-2004              0
## 223     760xx         TX 27.81          0         Mar-2007              1
## 228     972xx         OR 16.48          0         Feb-2012              1
## 237     333xx         FL 24.63          0         Feb-2006              2
## 256     336xx         FL 13.18          0         Jul-2000              0
## 266     927xx         CA 12.82          1         Feb-2008              2
## 280     114xx         NY 15.78          0         Dec-1999              0
## 282     112xx         NY 11.35          1         Mar-2002              1
## 288     328xx         FL 11.43          0         Apr-2005              0
## 289     801xx         CO 13.73          1         Jul-1982              0
## 291     270xx         NC 31.72          0         Sep-2001              0
## 293     846xx         UT 21.14          0         Jan-2002              0
## 299     816xx         CO 16.20          0         Oct-2001              0
## 300     982xx         WA 11.11          1         Oct-2006              0
## 303     268xx         WV 34.36          2         Nov-1997              0
## 320     117xx         NY 10.03          1         Feb-2014              0
## 333     450xx         OH 18.52          0         Sep-2003              0
## 339     370xx         TN 18.75          0         Jan-1996              1
## 342     284xx         NC 14.24          0         Feb-1999              0
## 363     490xx         MI 25.47          0         Nov-2003              0
## 372     283xx         NC 15.18          1         Mar-1996              1
## 380     945xx         CA  7.04          0         Mar-2005              0
## 398     112xx         NY  5.37          2         Apr-2007              1
## 401     890xx         NV 27.28          0         Sep-1991              1
## 404     035xx         NH 13.27          0         Nov-2005              1
## 437     958xx         CA 16.95          1         Jul-2002              0
## 447     462xx         IN 14.75          0         Aug-2007              0
## 448     891xx         NV 31.78          0         Feb-2003              1
## 449     460xx         IN 31.66          0         Aug-2003              1
## 457     782xx         TX 22.74          0         Dec-2005              0
## 463     960xx         CA 26.13          0         Nov-2002              0
## 472     853xx         AZ 19.61          2         Mar-1998              0
## 478     231xx         VA 10.93          0         Nov-1997              0
## 489     836xx         ID 30.55          0         Nov-2004              0
## 492     087xx         NJ 13.02          0         Jul-1997              0
## 498     919xx         CA 14.32          0         Aug-2010              1
## 510     959xx         CA 16.73          0         Jun-2008              2
## 511     115xx         NY  4.68          4         Nov-2002              0
## 521     337xx         FL  7.00          0         Jan-1998              0
## 522     331xx         FL 16.10          0         Feb-2012              1
## 534     123xx         NY 23.47          0         May-1997              0
## 535     322xx         FL 19.01          0         Sep-2000              0
## 538     920xx         CA 16.83          0         Mar-1985              0
## 539     850xx         AZ 25.41          0         Apr-2001              1
## 554     061xx         CT 32.85          0         Aug-1994              1
## 557     913xx         CA 14.45          0         Jul-1982              2
## 573     238xx         VA 10.06          0         Oct-2008              0
## 574     585xx         ND 28.36          1         Jan-2006              0
## 586     751xx         TX 20.27          0         Sep-2000              0
## 595     371xx         TN 14.22          0         Jun-2000              1
## 599     640xx         MO 12.00          0         Jun-2003              0
## 603     200xx         DC  9.09          0         Mar-2002              0
## 604     750xx         TX 17.21          1         Feb-1982              3
## 633     853xx         AZ 19.03          0         Jan-1998              0
## 643     117xx         NY  8.87          0         Feb-2000              1
## 657     150xx         PA  7.42          5         Sep-1997              0
## 661     432xx         OH 10.38          0         Sep-2002              1
## 666     815xx         CO 12.86          1         Nov-1996              0
## 686     325xx         FL 14.16          0         Jan-1998              1
```

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## 693     303xx         GA 23.73           0         Feb-2005             1
## 701     292xx         SC 24.24           3         Feb-2003             0
## 714     274xx         NC 24.72           1         Nov-2006             1
## 723     945xx         CA 20.87           0         Mar-2011             1
## 732     752xx         TX 11.44           1         Sep-2015             2
## 733     852xx         AZ 26.09           1         Sep-1997             0
## 735     322xx         FL 14.18           0         Jul-2010             3
## 736     403xx         KY 16.99           0         Oct-2003             1
## 741     064xx         CT 18.25           1         May-2006             2
## 742     895xx         NV 22.95           4         Dec-1988             2
## 751     665xx         KS 13.57           0         Apr-1991             1
## 756     373xx         TN 12.66           1         Aug-2009             0
## 759     379xx         TN 12.33           0         Oct-2002             1
## 762     327xx         FL 10.60           0         Jul-1999             0
## 763     770xx         TX 30.60           0         Feb-2006             2
## 765     775xx         TX 11.95           0         Oct-1999             1
## 768     295xx         SC 23.04           2         Jun-2009             1
## 773     021xx         MA 25.82           0         Dec-1997             0
## 774     400xx         KY 14.44           1         Feb-2003             2
## 776     957xx         CA 29.85           2         Feb-1998             1
## 783     342xx         FL 25.62           0         Dec-2001             1
## 785     640xx         MO  3.74           0         Mar-1995             0
## 842     060xx         CT  6.45           0         Mar-2000             0
## 864     750xx         TX 15.94           4         Mar-2005             0
## 865     970xx         OR 14.08           1         Sep-1999             0
## 868     761xx         TX 14.61           0         Dec-2007             0
## 876     079xx         NJ  8.45           0         Jan-1996             0
## 888     553xx         MN  9.12           0         Sep-2004             2
## 927     970xx         OR 13.43           1         Sep-1999             0
## 929     275xx         NC 15.49           0         Jan-2004             0
## 941     804xx         CO 24.73           0         Nov-1995             0
## 944     840xx         UT 27.10           0         Jan-1998             1
## 947     300xx         GA 19.03           1         Feb-2001             0
## 948     996xx         AK 13.13           1         Sep-1976             1
## 959     074xx         NJ 13.55           0         Oct-1996             0
## 970     906xx         CA  5.97           0         Jul-2006             1
## 973     320xx         FL 20.30           0         Oct-2006             0
## 979     296xx         SC 27.54           1         Apr-2008             1
## 980     481xx         MI 18.27           0         Nov-2004             2
## 981     329xx         FL 23.66           0         Oct-1997             0
## 987     967xx         HI  5.96           0         Mar-2005             1
## 991     921xx         CA 10.18           1         Nov-2002             0
## 1001    440xx         OH 24.53           0         Oct-2008             1
## 1004    553xx         MN 22.29           0         Jun-2009             0
## 1010    339xx         FL 19.13           0         May-1992             0
## 1016    773xx         TX  5.19           1         Oct-2005             0
## 1018    957xx         CA 11.66           1         Feb-2002             1
## 1019    207xx         MD 18.99           0         Dec-1999             0
## 1042    982xx         WA 22.65           1         May-2007             0
## 1079    191xx         PA 21.08           2         Jan-2007             1
## 1087    907xx         CA 13.32           0         Sep-2005             1
## 1093    113xx         NY  5.16           0         Apr-2008             0
## 1103    980xx         WA  6.14           0         Jul-1986             0
## 1127    443xx         OH  4.48           0         Jan-1997             0
## 1132    107xx         NY 16.48           0         Mar-1981             0
## 1137    013xx         MA 29.49           0         Oct-1999             0
## 1138    225xx         VA 12.52           2         Aug-2010             1
## 1140    836xx         ID 17.65           0         Oct-2004             0
## 1144    114xx         NY 25.10           0         Jun-2007             0
## 1145    232xx         VA 19.98           0         Nov-2007             0
## 1154    191xx         PA 32.69           1         Oct-1989             0
## 1156    078xx         NJ 33.87           0         Oct-2009             1
## 1157    322xx         FL 19.48           0         Jan-2007             3
## 1160    945xx         CA 29.98           3         Mar-1991             0
## 1162    801xx         CO 15.81           0         Jan-2003             0
## 1165    435xx         OH 11.73           0         Apr-1993             4
## 1176    452xx         OH 33.62           0         Mar-2008             0
## 1180    757xx         TX 12.74           0         Sep-2007             0
## 1182    432xx         OH 11.03           0         Jul-2008             0
## 1183    852xx         AZ 16.41           0         Oct-2004             0
## 1184    471xx         IN 11.26           0         Feb-2012             2
## 1185    852xx         AZ 14.55           0         Feb-2007             0
## 1201    980xx         WA 11.46           0         Apr-2000             2
## 1204    335xx         FL 23.08           1         Oct-1996             2
## 1234    103xx         NY 27.21           1         Jun-1983             0
## 1235    054xx         VT 16.53           0         Sep-2003             0
## 1236    029xx         RI 19.40           0         Apr-2006             1
## 1240    015xx         MA 22.00           2         Jun-2006             0
## 1288    366xx         AL 20.84           0         Dec-2001             2
## 1289    300xx         GA 20.72           0         Sep-2006             1
## 1297    436xx         OH 13.85           1         Mar-2003             1
## 1303    140xx         NY 16.00           2         Nov-1983             0
## 1305    751xx         TX 22.51           0         Oct-1992             3
## 1318    554xx         MN 29.07           0         Mar-1998             0
## 1331    751xx         TX 19.62           0         Aug-2006             1
## 1332    781xx         TX 17.43           0         Aug-2010             2
## 1333    029xx         RI 32.90           0         Apr-1994             0
## 1350    452xx         OH 24.62           0         Mar-2003             0
## 1358    347xx         FL 23.42           0         Jul-1997             0
## 1359    787xx         TX  5.19           0         Apr-2012             1
## 1364    910xx         CA 12.99           0         Jul-2001             1
## 1370    553xx         MN 23.52           0         Nov-2001             0
## 1372    984xx         WA 14.14          18         Jul-1993             0
## 1377    787xx         TX 12.97           1         Sep-1992             0
## 1381    334xx         FL 32.79           1         May-1995             0
## 1387    782xx         TX 16.38           0         Sep-2007             0
## 1401    113xx         NY 27.29           1         Jan-2007             0
## 1405    852xx         AZ 12.53           0         Oct-1997             1
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## 1417    392xx         MS 15.70           2         Mar-2004             1
## 1423    069xx         CT 14.50           0         Jan-1994             0
## 1426    234xx         VA  7.50           0         Aug-1991             0
## 1429    021xx         MA 18.41           0         Oct-1993             1
## 1436    331xx         FL 21.46           1         Dec-1999             1
## 1448    103xx         NY 27.24           1         May-2006             1
## 1454    640xx         MO  1.95           0         Jun-2006             0
## 1458    303xx         GA 14.36           0         Apr-1990             0
## 1467    193xx         PA 13.43           1         Sep-2005             0
## 1471    347xx         FL 12.75           0         May-2008             1
## 1474    986xx         WA  5.14           0         Mar-2007             1
## 1491    925xx         CA 16.35           1         Sep-1988             0
## 1495    294xx         SC 18.55           0         Nov-2003             0
## 1498    481xx         MI 25.09           0         Sep-2008             2
## 1508    191xx         PA 32.91           2         May-1993             1
## 1515    787xx         TX  9.57           0         Aug-2006             0
## 1528    951xx         CA 17.79           0         Mar-2000             0
## 1536    760xx         TX 10.74           1         Dec-2002             1
## 1541    801xx         CO 20.19           0         Feb-2003             0
## 1549    624xx         IL 15.42           0         Nov-1996             0
## 1556    280xx         NC  9.55           1         Jun-2005             2
## 1561    941xx         CA  8.96           0         Feb-1993             0
## 1563    207xx         MD 19.71           0         Apr-2001             1
## 1565    206xx         MD 27.54           3         Dec-1987             0
## 1586    050xx         VT 19.97           0         Jan-1996             1
## 1587    433xx         OH 18.43           0         Sep-2002             2
## 1589    778xx         TX 14.61           0         Jan-2004             2
## 1602    785xx         TX 30.17           0         Sep-2000             3
## 1615    207xx         MD 11.33           0         Sep-2012             0
## 1625    850xx         AZ 16.84           0         Jun-2002             0
## 1630    914xx         CA 27.33           0         Sep-1997             1
## 1635    676xx         KS 34.48           0         Oct-2005             0
## 1654    125xx         NY  8.58           0         Sep-2010             0
## 1655    282xx         NC 11.81           0         Dec-2005             0
## 1670    902xx         CA 17.58           0         Oct-2006             2
## 1682    440xx         OH 27.51           1         Jun-1996             3
## 1687    624xx         IL 14.69           0         Oct-2000             0
## 1690    981xx         WA 19.07           0         Mar-2000             1
## 1694    770xx         TX  9.40           2         Sep-2007             0
## 1695    925xx         CA 19.28           2         Sep-2010             0
## 1697    875xx         NM 37.52           2         Nov-2009             0
## 1698    242xx         VA 18.58           0         Aug-1977             0
## 1705    285xx         NC 19.25           1         Dec-2001             0
## 1709    012xx         MA 16.37           0         Sep-2006             0
## 1719    607xx         IL 10.38           0         Jan-2004             1
## 1720    931xx         CA  8.77           1         May-2004             1
## 1731    820xx         WY 13.88           0         Mar-2001             0
## 1736    891xx         NV 25.08           2         Apr-2005             0
## 1740    928xx         CA 18.32           1         Jun-2006             0
## 1745    601xx         IL  6.85           0         Dec-2001             0
## 1746    028xx         RI 15.70           2         Nov-2004             0
## 1758    535xx         WI 21.19           1         Oct-1994             0
## 1769    463xx         IN 15.97           3         May-2003             1
## 1778    015xx         MA 25.39           0         Jan-1989             0
## 1793    152xx         PA 10.89           0         Feb-1995             1
## 1795    920xx         CA 22.97           0         May-2008             1
## 1797    433xx         OH 11.08           0         Apr-1983             1
## 1800    191xx         PA 22.13           0         Aug-2004             1
## 1807    189xx         PA 10.97           3         Jul-2004             1
## 1815    770xx         TX 11.55           1         Aug-2002             0
## 1818    327xx         FL 34.71           0         Jul-1994             0
## 1826    601xx         IL  8.61           1         Jun-2000             0
## 1827    396xx         MS 12.17           0         Jun-1995             0
## 1835    936xx         CA 16.99           0         Dec-1996             0
## 1837    209xx         MD 14.03           0         Mar-2000             0
## 1840    483xx         MI 32.77           1         May-1988             0
## 1845    220xx         VA 12.69           1         Sep-2003             0
## 1851    146xx         NY 14.41           0         Feb-2006             0
## 1859    956xx         CA 16.80           0         Apr-2001             1
## 1863    301xx         GA 11.51           0         Apr-2003             0
## 1878    760xx         TX 24.23           1         Sep-2005             2
## 1903    021xx         MA 14.79           0         Jul-1996             1
## 1909    254xx         WV 36.13           0         Nov-1988             1
## 1914    431xx         OH 10.86           0         Sep-2011             1
## 1928    960xx         CA 32.20           0         Jul-2005             0
## 1947    286xx         NC 14.32           0         Sep-2011             0
## 1953    805xx         CO  8.84           1         Oct-1996             3
## 1955    481xx         MI 12.72           1         Dec-2006             0
## 1965    841xx         UT 18.73          12         Oct-1997             1
## 1978    606xx         IL 10.83           0         Nov-2007             2
## 1980    330xx         FL 24.74           0         Jun-1998             1
## 2007    641xx         MO 15.05           0         Feb-2003             0
## 2009    786xx         TX 26.57           0         Jul-2007             1
## 2031    361xx         AL 19.51           3         Aug-1969             0
## 2040    117xx         NY 15.37           4         Apr-2008             1
## 2044    785xx         TX  9.70           0         May-1994             2
## 2049    461xx         IN 19.26           0         Apr-1993             3
## 2052    378xx         TN 22.53           0         Dec-2001             1
## 2057    317xx         GA  5.39           0         Oct-1999             0
## 2059    430xx         OH 20.67           0         Sep-2007             2
## 2063    548xx         WI 16.52           0         Apr-2006             0
## 2067    945xx         CA 19.70           2         Aug-1989             0
## 2097    700xx         LA 35.26           0         Dec-2006             1
## 2102    110xx         NY 11.59           1         Sep-2013             0
## 2106    945xx         CA 10.32           1         Jul-2011             0
## 2111    342xx         FL 12.90           0         Jan-2004             0
## 2112    394xx         MS 27.49           0         Jan-2003             2
## 2113    115xx         NY 21.46           0         Apr-1997             1
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## 2118    064xx         CT 13.32           2         Sep-2003             1
## 2120    302xx         GA  9.69           0         Jun-2010             0
## 2122    216xx         MD 30.50           0         Aug-1998             1
## 2125    302xx         GA 15.03           0         Dec-2003             0
## 2130    221xx         VA 14.19           0         Oct-2003             0
## 2133    105xx         NY 14.57           0         Nov-2000             0
## 2139    480xx         MI 15.53           1         Mar-2013             0
## 2144    441xx         OH 20.57           0         Nov-1987             1
## 2156    923xx         CA 13.39           0         Oct-2006             1
## 2160    773xx         TX 14.31           0         Aug-2003             0
## 2182    782xx         TX 14.78           0         Dec-2004             0
## 2183    978xx         OR 19.47           0         May-2005             0
## 2186    933xx         CA 23.88           1         Sep-2007             0
## 2210    114xx         NY 38.59           0         Aug-2012             0
## 2221    587xx         ND 26.14           0         Dec-2006             1
## 2233    018xx         MA 18.32           1         Apr-2015             0
## 2235    926xx         CA 16.32           0         Sep-2006             1
## 2240    928xx         CA  8.40           0         Apr-2006             0
## 2247    620xx         IL 12.06           0         Dec-2001             2
## 2249    531xx         WI 34.64           0         Jun-2001             1
## 2251    600xx         IL 22.15           1         Jun-2006             0
## 2261    915xx         CA  9.40           0         Jan-1989             0
## 2262    113xx         NY 18.98           1         May-1994             0
## 2275    913xx         CA  4.34           0         Dec-1999             1
## 2284    770xx         TX 12.21           1         Nov-2006             0
## 2313    953xx         CA  8.42           1         Aug-2000             0
## 2314    410xx         KY 20.08           1         Sep-2004             1
## 2332    799xx         TX 35.44           0         Apr-1995             0
## 2333    900xx         CA 15.93           1         May-2009             0
## 2334    660xx         KS 28.49           0         Jan-2001             0
## 2344    190xx         PA 13.21           0         Feb-1998             1
## 2346    770xx         TX 25.36           3         Jun-2001             0
## 2349    207xx         MD 11.03           0         Sep-1993             0
## 2352    774xx         TX 11.42           3         Jun-1996             0
## 2359    232xx         VA 13.20           4         Mar-1995             0
## 2364    914xx         CA  7.57           0         May-2004             2
## 2371    957xx         CA 18.37           1         Sep-2006             1
## 2380    937xx         CA 24.22           0         Feb-2007             1
## 2388    921xx         CA 10.96           0         Nov-2009             1
## 2398    104xx         NY 18.49           0         Dec-2006             2
## 2400    775xx         TX 20.08           0         Oct-2006             1
## 2401    283xx         NC 35.47           0         Nov-1993             3
## 2408    926xx         CA  1.53           1         Jun-1994             0
## 2410    463xx         IN 36.32           0         Nov-1996             1
## 2415    751xx         TX 31.28           0         Apr-2009             1
## 2424    276xx         NC 32.24           0         Jun-2005             0
## 2427    191xx         PA 15.27           3         Sep-2004             1
## 2428    360xx         AL 19.35           1         Jan-2001             0
## 2445    303xx         GA 22.50           0         Sep-2003             0
## 2454    880xx         NM  5.97           0         Sep-2003             0
## 2458    913xx         CA 17.09           1         Aug-1982             0
## 2459    296xx         SC 16.45           2         May-2008             0
## 2461    856xx         AZ  5.87           0         Jul-1996             1
## 2475    891xx         NV  4.48           8         Mar-1995             1
## 2479    321xx         FL 11.88           0         Jun-2012             1
## 2482    640xx         MO  7.16           0         Jun-2003             0
## 2497    751xx         TX 16.82           1         May-1990             0
## 2506    924xx         CA 14.45           0         Sep-1995             0
## 2508    853xx         AZ 14.22           0         Mar-2009             0
## 2518    750xx         TX 11.12           1         Sep-1994             0
## 2521    394xx         MS 24.22           0         Apr-1998             1
## 2526    208xx         MD 30.11           2         Oct-1999             0
## 2528    750xx         TX 13.55           1         Apr-1996             0
## 2532    282xx         NC  9.85           1         Jun-1998             1
## 2534    303xx         GA 10.87           0         Oct-1985             3
## 2537    395xx         MS 30.42           0         Nov-2006             0
## 2543    296xx         SC 13.31           1         Nov-1993             1
## 2555    992xx         WA 17.40           1         May-2005             0
## 2559    567xx         MN  5.54           0         Mar-2001             1
## 2565    454xx         OH  3.41           0         Jan-2013             0
## 2569    923xx         CA 21.31           0         Nov-1997             0
## 2575    142xx         NY 14.15           1         Jun-2004             0
## 2577    605xx         IL 15.89           0         Oct-2003             1
## 2584    200xx         DC 16.30           0         May-1996             1
## 2586    297xx         SC 11.99           0         Jun-2000             1
## 2610    042xx         ME 29.84           0         Aug-2003             0
## 2621    910xx         CA 30.32           0         Oct-2004             1
## 2634    303xx         GA 38.17           0         Aug-2007             0
## 2646    315xx         GA 11.63           0         Jan-2008             1
## 2653    064xx         CT  9.94           0         Sep-2000             1
## 2656    145xx         NY 28.20           0         Dec-1980             1
## 2664    605xx         IL 14.64           1         Dec-1994             1
## 2668    781xx         TX 17.60           0         Jul-2006             0
## 2669    480xx         MI 17.31           0         Aug-2007             0
## 2675    038xx         NH 17.08           4         Oct-2002             0
## 2676    028xx         RI 20.45           0         Jun-2005             0
## 2685    871xx         NM 22.55           0         Aug-2005             0
## 2699    254xx         WV 22.80           0         Feb-1998             0
## 2706    212xx         MD 28.58           0         Jan-2002             0
## 2711    980xx         WA 21.81           0         Jan-1986             0
## 2717    959xx         CA 10.88           1         Feb-1986             0
## 2719    283xx         NC 18.96           0         May-2005             0
## 2720    023xx         MA  5.78           0         Apr-2009             1
## 2728    773xx         TX 16.78           0         Jun-2001             0
## 2737    891xx         NV 12.77           0         Dec-1986             1
## 2740    023xx         MA 16.07           0         Nov-2005             0
## 2746    027xx         MA 16.39           0         Oct-1996             1
## 2748    956xx         CA 14.33           0         Mar-2000             0
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## 2759    685xx         NE 11.94           0         Mar-2002             0
## 2760    951xx         CA 15.18           0         Aug-2005             0
## 2783    926xx         CA 25.26           0         Mar-2010             0
## 2784    920xx         CA 12.11           1         Feb-1987             3
## 2793    810xx         CO 29.08           4         Feb-1999             0
## 2794    806xx         CO 25.13           2         Nov-1993             1
## 2804    641xx         MO  7.08           0         Jun-2007             0
## 2809    301xx         GA  6.19           1         Sep-2007             1
## 2815    336xx         FL 10.13           0         Jun-1994             0
## 2823    342xx         FL 20.47           0         Dec-1999             0
## 2828    483xx         MI 12.08           0         Aug-2002             0
## 2829    282xx         NC 25.36           0         Mar-1999             3
## 2836    913xx         CA  8.73           1         Jun-1990             0
## 2849    654xx         MO 13.98           0         Mar-2004             0
## 2862    301xx         GA 21.49           0         Jun-2007             0
## 2864    451xx         OH 23.44           0         Jun-2001             0
## 2870    206xx         MD  9.70           0         Apr-2000             0
## 2871    112xx         NY 13.56           1         Jan-2005             1
## 2881    119xx         NY  9.78           5         Feb-1995             0
## 2890    280xx         NC 15.99           1         Jan-1989             1
## 2902    212xx         MD 24.63           1         Nov-2011             0
## 2904    985xx         WA 28.14           0         Apr-2003             0
## 2905    479xx         IN 26.65           0         Feb-2005             0
## 2909    070xx         NJ  8.76           0         Apr-1994             0
## 2910    707xx         LA 15.91           0         Jul-2009             1
## 2921    925xx         CA 20.25           4         Oct-1988             0
## 2926    104xx         NY 29.03           1         Aug-2005             0
## 2937    138xx         NY 33.60           1         Oct-2001             0
## 2943    480xx         MI 19.87           1         Aug-2005             0
## 2945    984xx         WA 24.07           0         May-2008             0
## 2953    559xx         MN 29.50           0         May-2004             1
## 2963    088xx         NJ  4.41           2         Nov-2004             2
## 2964    107xx         NY 32.13           1         Nov-1996             1
## 2987    827xx         WY 12.11           0         Jan-2002             2
## 2990    770xx         TX 13.01           0         Aug-2003             0
## 2996    119xx         NY 13.69           0         Oct-2011             0
## 2997    210xx         MD 13.05           0         Jul-1994             1
## 2998    207xx         MD 18.93           0         Jun-2002             2
## 3011    070xx         NJ 16.16           0         Nov-2000             0
## 3013    112xx         NY  4.81           1         Jun-1995             1
## 3014    207xx         MD  8.74           0         Mar-2006             0
## 3015    774xx         TX 15.33           0         Jun-1981             2
## 3019    207xx         MD  8.29           0         Aug-2007             0
## 3020    327xx         FL 11.79           0         Nov-2003             0
## 3038    193xx         PA 37.83           0         Oct-2003             0
## 3046    925xx         CA 20.04           0         Jun-2005             0
## 3055    331xx         FL 13.01           0         Apr-2002             0
## 3066    037xx         NH 23.15           0         Sep-1996             0
## 3068    853xx         AZ 14.77           0         Jan-2002             1
## 3069    890xx         NV 14.04           0         Jul-2002             0
## 3077    884xx         NM 19.57           0         May-2004             1
## 3091    928xx         CA 17.40           0         Apr-2007             1
## 3109    107xx         NY 26.98           0         Jul-2007             1
## 3110    770xx         TX  8.77           0         Jan-2005             0
## 3111    027xx         MA 24.39           1         Oct-2006             1
## 3114    130xx         NY 17.21           0         Feb-2010             0
## 3115    088xx         NJ 14.11           0         Sep-2011             0
## 3127    907xx         CA 12.81           3         Sep-2004             1
## 3128    015xx         MA 17.10           0         Apr-2007             2
## 3129    054xx         VT 27.17           0         Nov-2001             1
## 3139    070xx         NJ 22.92           0         Sep-2006             0
## 3144    700xx         LA 10.55           1         Mar-2000             2
## 3148    087xx         NJ 28.46           0         Mar-2007             2
## 3157    751xx         TX 19.39           0         Dec-1972             0
## 3167    701xx         LA 14.12           0         Jan-2006             0
## 3168    972xx         OR 21.31           0         May-2007             1
## 3191    109xx         NY 24.73           0         Jul-2001             0
## 3192    302xx         GA  4.14           1         Dec-1999             0
## 3195    980xx         WA 21.16           0         Jan-1996             0
## 3197    652xx         MO  2.41           0         Aug-2004             2
## 3207    296xx         SC 16.40           0         Jul-2005             0
## 3220    950xx         CA  4.36           1         Dec-2003             0
## 3235    891xx         NV  5.88           1         Jun-2008             0
## 3240    112xx         NY  1.39           2         Jan-2004             0
## 3242    996xx         AK 14.20           0         Aug-2004             1
## 3245    953xx         CA 16.96           1         Feb-2002             1
## 3248    286xx         NC 13.92           0         Mar-2008             2
## 3249    815xx         CO 12.14           0         May-2006             0
## 3250    981xx         WA 12.00           1         Aug-2004             0
## 3253    302xx         GA 10.83           0         Oct-1998             0
## 3255    183xx         PA 17.31           1         Sep-1998             0
## 3263    386xx         MS 17.55           0         Jan-2008             0
## 3264    943xx         CA 23.83           0         Nov-2006             2
## 3275    019xx         MA  6.94           0         Aug-2007             2
## 3284    900xx         CA 22.91           0         Dec-2004             1
## 3301    207xx         MD 23.83           1         Sep-2010             0
## 3324    706xx         LA 18.53           0         Jun-2011             1
## 3327    891xx         NV  8.48           0         Oct-1999             0
## 3328    968xx         HI  9.36           0         Mar-2013             1
## 3338    407xx         KY 17.80           0         Sep-2006             2
## 3340    913xx         CA 10.01           0         Mar-1996             1
## 3348    040xx         ME  9.40           2         May-1994             1
## 3373    751xx         TX 15.33           1         Nov-1995             1
## 3375    922xx         CA 30.33           1         May-2004             0
## 3377    775xx         TX 19.15           0         Oct-2008             0
## 3382    021xx         MA  5.75           0         Mar-2005             0
## 3385    201xx         VA 29.78           0         Aug-1994             1
## 3390    905xx         CA 17.32           1         Jul-1999             0
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## 3391    314xx         GA 38.83           0         Jul-2001             0
## 3405    422xx         KY 29.69           1         May-2009             0
## 3414    181xx         PA 17.72           0         Oct-2001             0
## 3415    554xx         MN 26.98           0         Nov-1995             0
## 3418    554xx         MN  5.65           0         May-2010             0
## 3423    894xx         NV 23.58           0         Mar-2007             0
## 3437    324xx         FL 15.27           1         Sep-2002             0
## 3452    074xx         NJ 13.95           1         Oct-1992             1
## 3461    751xx         TX 21.25           0         Nov-1992             1
## 3468    995xx         AK 27.71           0         Dec-1992             0
## 3470    109xx         NY 12.46           0         Sep-1998             1
## 3473    961xx         CA 26.92           0         May-1986             0
## 3476    797xx         TX 16.99           0         May-2007             1
## 3478    620xx         IL  6.53           0         Mar-2000             0
## 3495    314xx         GA 32.77           0         Aug-1994             0
## 3496    316xx         GA 12.00           2         Jun-2012             0
## 3499    951xx         CA 12.04           0         Dec-2012             0
## 3512    060xx         CT 16.37           0         Dec-1995             0
## 3514    113xx         NY 25.27           0         Apr-2014             0
## 3524    112xx         NY 20.20           2         Sep-2000             0
## 3526    330xx         FL 15.88           1         Jun-2004             1
## 3528    850xx         AZ 18.01           0         Apr-2003             0
## 3529    410xx         KY 28.79           1         Dec-2003             0
## 3533    070xx         NJ 22.76           0         Oct-1991             1
## 3549    785xx         TX 12.18           1         Aug-2003             0
## 3551    945xx         CA  9.08           1         May-2011             0
## 3552    956xx         CA 14.29           1         Oct-1998             1
## 3563    209xx         MD  9.50           0         Feb-1994             0
## 3570    402xx         KY 32.88           1         Dec-2000             0
## 3573    951xx         CA  7.39           2         Sep-1999             0
## 3583    782xx         TX 32.10           0         Aug-2003             0
## 3587    104xx         NY 20.15           2         Jan-2003             2
## 3597    930xx         CA 20.70           0         May-2008             1
## 3601    906xx         CA 21.18           0         Jul-2005             1
## 3609    935xx         CA 14.03           5         May-2005             0
## 3618    774xx         TX 25.80           0         Dec-2003             0
## 3620    801xx         CO 10.01           1         Dec-2011             0
## 3626    212xx         MD 18.26           0         Jun-2006             1
## 3627    633xx         MO 21.19           1         Aug-1997             2
## 3638    590xx         MT 13.61           0         Jul-2013             0
## 3643    275xx         NC 20.47           1         Sep-2002             1
## 3647    338xx         FL 30.50           0         Jun-1999             0
## 3652    532xx         WI  5.00           0         Jun-2005             0
## 3654    802xx         CO 28.06           0         Apr-2005             0
## 3664    913xx         CA  9.64           1         May-1977             1
## 3669    645xx         MO 33.40           1         Jun-2006             2
## 3676    488xx         MI 36.59           1         Nov-1999             0
## 3677    352xx         AL 22.70           2         Apr-2005             0
## 3689    945xx         CA  7.18           0         Jan-2002             0
## 3694    338xx         FL 39.64           0         Apr-2006             0
## 3695    076xx         NJ 25.08           0         Dec-2005             0
## 3696    301xx         GA 14.79           2         Jun-2004             1
## 3724    554xx         MN 22.65           0         Oct-2004             1
## 3725    775xx         TX 30.93           0         May-2000             0
## 3753    283xx         NC 24.05           3         Feb-2003             0
## 3772    922xx         CA 21.43           0         Jul-2005             0
## 3792    275xx         NC 13.46           1         Jun-2005             1
## 3793    028xx         RI 29.42           0         Mar-2009             1
## 3795    320xx         FL 22.05           0         Oct-1998             0
## 3797    902xx         CA 14.74           1         Dec-2003             0
## 3798    010xx         MA 19.08           2         Sep-2007             1
## 3806    100xx         NY 20.92           0         Feb-1992             1
## 3812    018xx         MA 12.73           0         Mar-2008             0
## 3818    272xx         NC 29.14           0         Jun-1993             1
## 3820    917xx         CA 28.92           1         Feb-2008             0
## 3823    829xx         WY 22.31           0         Aug-2005             0
## 3829    327xx         FL 19.75           0         Oct-1997             1
## 3838    286xx         NC 13.66           0         Feb-1995             0
## 3842    068xx         CT  1.82           1         Sep-1987             2
## 3848    945xx         CA  5.97           1         Oct-2000             2
## 3863    925xx         CA 13.27           0         Nov-2002             1
## 3866    465xx         IN 12.78           1         Mar-2006             0
## 3867    770xx         TX 10.60           0         Mar-1998             1
## 3871    455xx         OH 25.86           1         Nov-1993             2
## 3880    275xx         NC 18.26           0         Jul-1993             2
## 3883    950xx         CA 18.67           1         Oct-2002             1
## 3891    330xx         FL 22.62           1         Dec-2006             1
## 3895    334xx         FL 24.18           0         Jun-2009             0
## 3896    236xx         VA 20.72           0         Feb-2005             0
## 3898    856xx         AZ  4.27           0         Jul-2000             2
## 3903    410xx         KY 27.03           1         May-2003             0
## 3916    559xx         MN  9.62           1         Jul-2005             0
## 3928    800xx         CO  2.78           2         Feb-2010             2
## 3930    294xx         SC 17.05           0         Aug-2002             0
## 3940    333xx         FL 17.76           0         Apr-2004             2
## 3957    800xx         CO 21.12           1         Feb-2009             1
## 3966    431xx         OH 20.96           0         Apr-2006             0
## 3992    551xx         MN 19.97           0         May-2002             3
## 3993    041xx         ME 14.37           3         Mar-1999             0
## 4000    301xx         GA 29.91           0         May-1983             0
## 4004    240xx         VA  8.96           0         Sep-2011             1
## 4012    770xx         TX  7.19           0         Nov-2009             0
## 4014    550xx         MN  9.09           0         Jun-1996             2
## 4025    922xx         CA 26.27           0         Feb-1968             0
## 4029    376xx         TN 22.87           0         May-1992             0
## 4032    217xx         MD 18.61           0         Apr-2007             0
## 4033    294xx         SC  8.49           0         Aug-1997             0
## 4059    334xx         FL 10.50           2         Sep-2000             0
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## 4066    923xx         CA 20.11          1         Oct-2008             0
## 4067    305xx         GA 21.88          0         Nov-2002             1
## 4077    995xx         AK 19.36          0         Mar-1996             2
## 4087    783xx         TX 16.40          0         Jan-2010             0
## 4088    937xx         CA  6.39          0         Jun-2000             0
## 4091    087xx         NJ 14.51          0         Jun-1999             2
## 4102    958xx         CA 14.56          0         Dec-2003             1
## 4106    581xx         ND 16.19          0         Mar-2002             1
## 4112    631xx         MO 10.60          1         Feb-2000             2
## 4127    490xx         MI  5.61          2         Apr-2000             0
## 4129    025xx         MA 24.08          1         Aug-2008             0
## 4130    395xx         MS 23.29          2         Jun-2005             1
## 4134    972xx         OR 15.82          1         Dec-2004             0
## 4145    130xx         NY 23.33          0         Mar-1992             0
## 4156    152xx         PA 12.75          0         Nov-2000             0
## 4158    112xx         NY  9.47          0         May-2012             1
## 4166    921xx         CA 13.76          0         Jul-1996             0
## 4167    079xx         NJ 13.66          1         Feb-1999             2
## 4168    207xx         MD  6.96          0         Dec-2003             0
## 4171    851xx         AZ 22.14          0         Aug-2005             0
## 4176    877xx         NM 29.81          1         Aug-2004             0
## 4182    158xx         PA 12.22          0         Oct-1993             1
## 4183    088xx         NJ 18.67          0         Sep-1995             0
## 4184    544xx         WI 22.36          0         Jan-2005             0
## 4187    070xx         NJ 13.36          0         Dec-1980             0
## 4190    334xx         FL 28.64          1         Oct-2000             0
## 4192    460xx         IN 29.50          0         Nov-2001             0
## 4195    463xx         IN 31.13          0         May-2003             1
## 4218    423xx         KY 17.25          1         Oct-2005             0
## 4223    952xx         CA  7.40          1         Dec-2010             0
## 4226    341xx         FL 27.90          3         Nov-2001             1
## 4227    113xx         NY 18.08          1         Nov-1995             1
## 4242    216xx         MD 26.07          0         Apr-2003             1
## 4244    781xx         TX 11.41          0         Feb-2005             2
## 4246    019xx         MA 15.48         11         Jul-1997             1
## 4250    112xx         NY 18.33          0         Feb-2004             0
## 4264    106xx         NY 20.50          0         Oct-2004             0
## 4276    212xx         MD 14.62          4         Sep-2001             0
## 4281    600xx         IL 15.11          3         Jan-2002             3
## 4288    488xx         MI 28.14          0         May-1991             0
## 4296    953xx         CA  8.00          0         Nov-2006             0
## 4299    271xx         NC 20.46          5         Sep-2006             0
## 4302    985xx         WA 16.89          0         Mar-2008             1
## 4312    460xx         IN 11.85          0         May-2005             0
## 4315    322xx         FL 20.26          0         Sep-2001             0
## 4319    088xx         NJ 18.88          1         Jul-2008             0
## 4327    775xx         TX  7.67          2         May-2005             1
## 4329    351xx         AL 22.65          0         Dec-2010             2
## 4332    773xx         TX 22.79          0         May-1990             0
## 4339    874xx         NM 12.38          0         Jun-1995             2
## 4340    689xx         NE 16.49          0         May-1985             0
## 4343    381xx         TN 15.88          5         Mar-2004             0
## 4345    322xx         FL 28.75          0         Mar-1997             0
## 4359    707xx         LA 16.99          0         Dec-2002             1
## 4361    347xx         FL  8.74          0         Mar-2007             1
## 4366    302xx         GA 23.60          1         Mar-2004             0
## 4373    600xx         IL  2.07          2         Aug-1990             1
## 4374    310xx         GA 18.52          0         Oct-1995             1
## 4384    960xx         CA 24.71          0         Mar-1978             1
## 4393    574xx         SD 10.02          0         Dec-2001             0
## 4396    952xx         CA 22.26          2         Sep-2002             0
## 4409    207xx         MD 18.93          1         Aug-1994             0
## 4417    029xx         RI  5.39          0         Nov-1998             1
## 4422    330xx         FL 26.33          0         May-1969             2
## 4434    450xx         OH 25.85          0         Nov-2005             3
## 4438    207xx         MD 19.33          0         Jan-2006             0
## 4439    329xx         FL 12.27          1         Mar-1990             0
## 4444    300xx         GA 26.91          0         Sep-2004             0
## 4446    900xx         CA 10.26          0         Feb-2002             2
## 4454    800xx         CO 14.20          0         May-2005             0
## 4457    985xx         WA 23.46          0         Nov-2005             0
## 4460    674xx         KS 16.51          0         Nov-2003             0
## 4462    590xx         MT 17.33          1         Oct-2002             0
## 4467    148xx         NY 14.89          0         Jul-2002             0
## 4475    400xx         KY  2.68          0         May-2004             0
## 4480    430xx         OH 10.13          1         Jun-2004             0
## 4493    333xx         FL  9.94          3         Jun-2003             1
## 4496    112xx         NY 11.99          1         Apr-1998             0
## 4508    292xx         SC 15.52          0         Oct-2000             0
## 4513    330xx         FL 11.92          0         May-2005             2
## 4515    207xx         MD 23.72          0         Dec-2000             1
## 4521    902xx         CA 13.76          2         May-1989             0
## 4541    705xx         LA  6.79          1         Apr-2003             1
## 4542    570xx         SD 15.41          0         Nov-1995             0
## 4549    481xx         MI 17.44          0         May-2006             0
## 4556    841xx         UT 24.50          1         Jul-2005             0
## 4559    936xx         CA 20.55          1         Dec-1993             0
## 4560    183xx         PA 22.50          5         Dec-1991             1
## 4570    432xx         OH 11.44          0         Dec-1990             1
## 4572    212xx         MD 18.16          2         Jan-2000             0
## 4574    606xx         IL 21.11          0         Mar-2006             0
## 4578    601xx         IL 12.35          0         Oct-2005             0
## 4582    346xx         FL 21.15          0         Oct-1999             1
## 4596    223xx         VA 18.28          0         Feb-1995             1
## 4600    945xx         CA  9.97          0         Sep-2004             3
## 4612    322xx         FL 25.64          0         Jul-2001             0
## 4619    322xx         FL 12.66          0         Aug-2006             0
## 4628    400xx         KY 16.35          0         Mar-2002             0
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## 4637    601xx         IL  7.97          0         Feb-1999             0
## 4652    113xx         NY 11.82          1         Sep-2007             1
## 4655    108xx         NY 15.70          1         Sep-2002             0
## 4657    801xx         CO 24.16          1         Oct-1999             0
## 4666    797xx         TX 14.98          0         Sep-1992             2
## 4686    945xx         CA  4.02          0         Dec-2002             3
## 4689    371xx         TN 26.77          0         Apr-1989             0
## 4693    304xx         GA  8.56          0         Jul-2011             1
## 4694    103xx         NY 13.92          0         Aug-2002             0
## 4702    080xx         NJ 19.18          0         Feb-1998             0
## 4705    339xx         FL  7.60          0         Jun-2004             0
## 4707    604xx         IL  9.64          0         Sep-2003             1
## 4713    704xx         LA 27.49          0         Sep-1999             0
## 4716    223xx         VA 12.89          0         Jun-2002             0
## 4727    033xx         NH 19.39          0         Apr-2005             3
## 4733    303xx         GA 18.63          0         Dec-1974             0
## 4740    065xx         CT  9.30          2         Apr-2000             0
## 4752    907xx         CA 11.44          0         Aug-2001             2
## 4757    752xx         TX 14.81          1         May-2003             0
## 4759    448xx         OH 28.44          0         Apr-2007             2
## 4761    227xx         VA 12.04          0         Sep-2005             0
## 4773    800xx         CO 14.53          0         Oct-2001             0
## 4782    900xx         CA 15.26          0         Sep-1995             1
## 4787    100xx         NY  9.05          0         Sep-1996             1
## 4789    371xx         TN 15.46          0         May-2001             1
## 4803    270xx         NC 28.48          0         Oct-2002             1
## 4826    187xx         PA 21.42          1         Aug-2004             1
## 4827    113xx         NY  3.49          2         Oct-1999             1
## 4828    553xx         MN  7.31          1         Mar-2004             0
## 4855    920xx         CA  8.31          0         Mar-1981             1
## 4857    243xx         VA 24.08          1         Aug-1999             0
## 4866    853xx         AZ  7.32          0         Feb-2009             0
## 4869    362xx         AL 11.47          0         Jun-1996             0
## 4877    331xx         FL 10.86          1         May-2004             1
## 4881    027xx         MA  7.99          0         Nov-2006             1
## 4883    471xx         IN 13.24          2         Mar-1996             0
## 4919    553xx         MN 30.51          0         Jun-2001             0
## 4924    482xx         MI 27.24          0         Jul-1996             0
## 4932    740xx         OK 18.11          0         May-2002             2
## 4936    152xx         PA 25.59          0         Oct-2004             0
## 4939    287xx         NC 19.26          1         May-2000             1
## 4942    952xx         CA 31.45          0         Oct-1989             0
## 4964    983xx         WA  9.85          0         Mar-2002             1
## 4969    731xx         OK 34.83          0         May-2007             2
## 4994    371xx         TN 18.58          1         Mar-2003             0
## 5000    336xx         FL 18.60          0         Oct-1993             1
## 5002    230xx         VA 13.72          0         Feb-2006             0
## 5004    201xx         VA 27.56          1         Apr-2014             0
## 5005    707xx         LA 17.07          0         Aug-2010             0
## 5012    430xx         OH 30.96          0         Aug-1999             0
## 5013    891xx         NV 14.39          1         Mar-1995             0
## 5019    113xx         NY 17.74          3         Sep-2007             0
## 5028    301xx         GA 21.81          0         Dec-2000             0
## 5033    761xx         TX 19.99          0         Aug-2000             0
## 5056    324xx         FL 12.91          1         Sep-2002             0
## 5062    383xx         TN 28.06          0         Jul-2000             1
## 5067    931xx         CA 15.61          0         May-1996             1
## 5085    330xx         FL 13.49          0         Aug-2000             1
## 5101    923xx         CA 10.53          1         Apr-2002             0
## 5111    327xx         FL 25.31          0         Jan-2008             2
## 5113    070xx         NJ 19.32          0         Oct-2010             1
## 5119    800xx         CO  8.91          3         Jul-1995             0
## 5121    270xx         NC 22.48          1         Jun-2004             0
## 5127    336xx         FL 16.31          1         Dec-1987             0
## 5129    151xx         PA 15.37          0         Oct-2005             0
## 5144    125xx         NY 11.21          5         Jun-2004             0
## 5146    935xx         CA 22.66          0         Jun-2003             0
## 5149    331xx         FL 14.54          1         Apr-1997             1
## 5153    333xx         FL 15.85          0         Sep-2000             2
## 5172    998xx         AK 24.21          0         Aug-2009             0
## 5175    211xx         MD 18.27          1         Oct-2008             0
## 5178    020xx         MA  5.88          1         Jun-1988             0
## 5189    142xx         NY 10.77          7         Sep-2001             1
## 5198    220xx         VA 17.99          0         May-2006             1
## 5199    276xx         NC 12.86          1         Sep-2011             0
## 5208    148xx         NY 34.15          5         Apr-2005             1
## 5222    232xx         VA 30.21          0         Oct-2009             0
## 5226    748xx         OK  8.78          0         Apr-2003             0
## 5227    382xx         TN 26.60          1         Mar-1999             0
## 5231    923xx         CA 22.54          0         Nov-2005             0
## 5253    600xx         IL 33.10          0         Aug-2008             1
## 5263    320xx         FL 15.62          0         Jan-2000             1
## 5272    318xx         GA  6.01          0         Nov-1999             0
## 5280    328xx         FL 18.60          1         Mar-2008             0
## 5288    351xx         AL 35.26          0         Jul-2002             1
## 5289    328xx         FL 28.03          8         Apr-1999             0
## 5293    114xx         NY 25.65          0         Sep-1997             0
## 5296    452xx         OH  9.52          0         Feb-2003             0
## 5318    156xx         PA 11.95          1         Mar-1995             1
## 5323    210xx         MD  5.91          0         Apr-1996             1
## 5338    995xx         AK 11.80          1         Jun-2004             0
## 5366    838xx         ID 13.27          1         Jan-2015             0
## 5374    781xx         TX 35.64         18         Jan-1985             1
## 5378    471xx         IN 32.52          0         Sep-1997             1
## 5386    071xx         NJ 13.66          0         Feb-1983             0
## 5391    453xx         OH 24.24          0         Sep-2004             0
## 5398    076xx         NJ 13.98          1         Nov-2002             0
## 5414    030xx         NH 14.16          0         Mar-2011             1
```

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## 5423    945xx         CA  5.48           1         Aug-2013              1
## 5426    303xx         GA  8.01           0         Oct-2008              2
## 5430    618xx         IL 23.05           0         Dec-1996              3
## 5434    851xx         AZ 12.92           0         Feb-2003              1
## 5439    021xx         MA  8.38           0         Apr-1988              1
## 5457    662xx         KS 26.07           0         Feb-1969              0
## 5461    770xx         TX  7.97           1         Feb-2008              1
## 5463    206xx         MD 24.63           1         Feb-1989              0
## 5469    115xx         NY 17.85           2         Sep-2012              1
## 5471    674xx         KS 13.48           0         Apr-2001              1
## 5487    300xx         GA 25.74           0         Nov-2004              0
## 5489    913xx         CA 17.04           0         Jun-2007              1
## 5493    448xx         OH 16.78           0         Dec-2004              0
## 5495    130xx         NY 15.31           0         Feb-2006              2
## 5504    127xx         NY  5.83           0         Jun-1983              1
## 5512    956xx         CA  9.30           0         Jan-2005              1
## 5520    551xx         MN 20.71           0         Aug-1998              1
## 5526    841xx         UT 32.55           0         Apr-2008              2
## 5528    615xx         IL 10.75           1         Nov-2014              0
## 5530    752xx         TX 16.97           3         Nov-1997              0
## 5542    906xx         CA  8.35           0         Oct-2005              0
## 5546    919xx         CA 31.83           1         Jun-2005              0
## 5560    105xx         NY 22.13           1         Jul-2001              1
## 5572    230xx         VA 11.10           0         Oct-1996              0
## 5606    083xx         NJ 16.72           1         Aug-1998              3
## 5617    331xx         FL  7.63           2         Oct-1996              1
## 5618    851xx         AZ 13.94           0         Mar-2006              0
## 5631    606xx         IL  9.34           1         Jan-2000              0
## 5644    945xx         CA 14.31           0         Dec-1998              1
## 5645    363xx         AL  9.71           0         Oct-1999              0
## 5650    480xx         MI 16.00           1         Jul-2005              0
## 5652    853xx         AZ 28.78           0         Jun-2007              2
## 5653    853xx         AZ  7.09           0         Sep-2005              2
## 5655    070xx         NJ  5.61           3         Nov-2004              1
## 5657    221xx         VA  8.51           0         Jan-2000              0
## 5662    193xx         PA 12.42           1         Jul-1991              1
## 5678    309xx         GA 13.05           1         Aug-1990              0
## 5682    142xx         NY 33.53           1         May-2004              2
## 5686    226xx         VA 26.01           0         Oct-2002              0
## 5691    953xx         CA  9.14           0         Aug-2000              0
## 5701    770xx         TX 22.62           1         Mar-1997              0
## 5702    554xx         MN 34.55           0         Dec-2004              0
## 5713    463xx         IN 12.53           1         Jul-2003              0
## 5714    762xx         TX 17.78           0         Dec-2004              0
## 5719    440xx         OH 12.47           1         Nov-2004              0
## 5726    272xx         NC 21.06           0         Mar-1997              1
## 5730    617xx         IL 21.32           0         Jun-1989              1
## 5735    926xx         CA  6.63           0         Mar-2000              1
## 5738    945xx         CA 12.79           4         Sep-2002              0
## 5740    015xx         MA 20.70           0         Sep-2002              1
## 5742    945xx         CA 13.80           1         Mar-2004              0
## 5746    201xx         VA  6.95           0         Sep-1999              2
## 5748    608xx         IL 16.38           0         Jul-2004              2
## 5755    088xx         NJ  4.69           2         May-2005              1
## 5774    782xx         TX 37.90           0         Jan-2012              2
## 5780    736xx         OK 31.86           0         Jun-1999              1
## 5790    272xx         NC 15.60           0         Sep-2005              1
## 5805    852xx         AZ 20.40           0         Sep-1993              0
## 5813    206xx         MD  6.95           0         Jun-2011              1
## 5829    770xx         TX  8.48           3         Feb-2001              0
## 5837    253xx         WV 21.56           0         Feb-1996              1
## 5839    891xx         NV 11.49           0         May-2007              1
## 5855    767xx         TX 22.76           0         Oct-1997              1
## 5864    333xx         FL 38.64           0         Jan-1989              0
## 5871    780xx         TX 14.31           0         Mar-2005              0
## 5879    199xx         DE 25.20           0         Apr-2002              0
## 5894    871xx         NM 14.65           0         Aug-1999              1
## 5900    338xx         FL 19.77           0         Dec-2002              0
## 5905    780xx         TX 29.56           1         Nov-1998              2
## 5909    601xx         IL 13.64           0         Oct-1998              0
## 5911    329xx         FL 23.40           0         Sep-2012              0
## 5920    870xx         NM  4.85           0         Oct-2006              0
## 5926    141xx         NY 31.40           0         Sep-2003              0
## 5934    906xx         CA 27.98           0         Jul-2003              0
## 5937    287xx         NC 10.18           1         Apr-1986              0
## 5939    902xx         CA 14.16           0         Mar-2000              0
## 5941    395xx         MS 18.45           0         Oct-1997              1
## 5945    945xx         CA 20.43           2         Nov-2005              0
##      mths_since_last_delinq open_acc pub_rec revol_bal revol_util total_acc
## 1                        25       12       0      4472       15.3        25
## 13                       52       11       0     14260       40.2        27
## 26                       31        8       0       798        4.7        10
## 29                        8       12       0     11516       17.9        26
## 56                       76       21       0      2835       63.0        32
## 58                       30       17       0      2703        5.7        49
## 62                       69        6       1       865        3.4        26
## 79                       58       13       0     13412       49.1        36
## 81                       45        8       0      7377       25.0        26
## 85                       77       13       0      7463       17.5        29
## 89                       10       20       0     23792       39.5        31
## 94                       74        7       0      3789       18.0        22
## 95                       41        5       0     16029       96.6        14
## 100                       3       10       0      9140       40.8        24
## 123                      39       16       0      9644       12.9        25
## 129                      15       16       0      8509       21.5        45
## 131                      40       11       0     10151        7.9        27
## 146                      48       35       0     33766       14.7        47
## 157                      35        5       0      6685       79.6         8
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## 177          12        8       0      4543       50.5        13
## 188          42       11       0     55714       16.3        30
## 189           4        9       0      2614        8.5        28
## 209          42       11       0      9447       36.2        22
## 211          46       15       0      4704       12.9        24
## 214          53       17       0     14223       43.8        22
## 223          54       10       0      9650       67.5        28
## 228          35       11       0      6023       16.0        16
## 237          48       21       0     46590       37.2        26
## 256          76       15       1      7970       19.7        30
## 266          16       17       0      2931       31.2        33
## 280          63       16       0     16201       49.2        23
## 282           6        5       0      2588       13.3        22
## 288          61       12       0     24041       71.1        22
## 289          21       16       0     21683       27.8        44
## 291          67       11       0     16747       29.5        24
## 293          55       19       0      4969        2.8        41
## 299          32       11       0      6060       59.4        21
## 300          22        8       0     14491       54.5        23
## 303           3       10       0     17301        7.4        22
## 320           9        8       0       350       58.3        11
## 333          39       22       0     16033       43.7        35
## 339          44       34       0     22024       27.3        89
## 342          53        8       0      9383       56.5        25
## 363          65       16       0     28975       80.5        43
## 372          20       23       0     16424       37.1        55
## 380          25       17       0     15475       30.6        28
## 398          10        9       0      6243       39.3        23
## 401          60       23       0     13276       37.2        31
## 404          30        6       0      1422       16.5        13
## 437          13       10       0     24347       57.0        16
## 447          35        5       0      3792       49.2        26
## 448          51       35       0     39252       84.6        44
## 449          40       11       0      7257       26.6        15
## 457          31       12       0      7734       53.7        23
## 463          49       16       0     14764       57.7        22
## 472           4       13       0     47337       59.7        28
## 478          24       16       0     21538       39.5        36
## 489          51       32       0     14041       40.9        56
## 492          71        9       0     14750       62.8        14
## 498          45       14       0     19072       28.7        24
## 510          47       17       0      9259       33.0        25
## 511           6        6       0       245        1.3        28
## 521          58        9       0     10759       47.6        19
## 522          68        6       0       439        4.3        14
## 534          76       10       1      6226       21.9        22
## 535          69       23       0     18643       24.0        32
## 538          62       22       0     47242       55.1        52
## 539          63       17       0     15975       26.2        29
## 554          41       32       0     23363       31.4        55
## 557          44       35       0     21293       11.9        55
## 573          56       14       0      2719       90.6        16
## 574          18       16       0     38791       65.2        31
## 586          28       16       0      4365       10.8        33
## 595          32       12       0      7612       28.8        34
## 599          45        9       0      9207       32.9        23
## 603          55        7       0     17957       57.0        20
## 604          21       15       1     34716        9.7        49
## 633          81       10       0      2006        9.8        48
## 643          32        9       0      3643       28.2        26
## 657           7       13       1      1100        4.8        36
## 661          26       15       0     11739       35.7        29
## 666          17        8       0     14906       49.2        15
## 686          60        4       0       987       19.7        22
## 693          51       25       0     15378       62.0        41
## 701          12       10       0      7808       49.7        40
## 714          10        6       0      2382       36.1        12
## 723          42       13       0     14173       51.5        25
## 732          23       17       0      4114       23.0        21
## 733           7       10       0     32248       85.1        35
## 735          24       18       0    138070       29.1        50
## 736          64        6       0         0        0.0        25
## 741          21       12       1      7110       26.1        13
## 742          17       11       0      5090       57.8        31
## 751          67       13       0      3465        5.6        20
## 756           3       27       0      5170       15.2        54
## 759          51        7       0     11410       40.9        34
## 762          45        7       0     33041       89.3        18
## 763          71       13       0      2666       20.0        22
## 765          27       23       0     10857       36.4        34
## 768          13       13       0      8067       22.7        26
## 773          57        6       0      5295       46.9        11
## 774          15       18       0       329        0.1        77
## 776          13       31       0     28061       44.7        47
## 783          31       12       0     27591       46.6        35
## 785          25        8       0       270        5.9        17
## 842          45        7       0     11548       80.8        15
## 864           9       20       0     28462       55.3        32
## 865           3        6       0      9495       32.2        18
## 868          34        7       0      5688       48.6        19
## 876          26       15       0    185348       67.3        34
## 888          70        7       0      3837       36.5        15
## 927          19        6       1      3835       54.8        11
## 929          51       14       1      6782       17.0        44
## 941          29        6       0     22552       86.7        21
## 944          32       10       0     30744       53.3        22
## 947          14       24       0     17692       10.6        45
## 948          14       11       0     20247       35.8        23
```

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## 959                    57      10      0      8778      54.9       19
## 970                    41      16      0     26207      45.7       41
## 973                    63      14      0     15267      64.7       38
## 979                    22      14      0        61       0.1       56
## 980                    37      18      0      3335       9.2       28
## 981                    45      10      0     22715      42.9       34
## 987                    57      10      1      2219      12.0       40
## 991                    20      10      0      6515      35.0       17
## 1001                   67      20      0     15255      25.6       35
## 1004                   35      14      0      3258      10.3       21
## 1010                   69      14      1      9419      42.4       43
## 1016                   21       4      0       819      16.4       11
## 1018                   16      17      0      5491       8.5       40
## 1019                   37      11      0     17093      40.2       33
## 1042                   20      23      1     13047      33.7       34
## 1079                   21      23      0      1053      23.4       26
## 1087                   74       5      0      1156       8.3       34
## 1093                   29      11      0       133       0.2       22
## 1103                   32       5      0      5962      32.2       27
## 1127                   35      12      0      7221      19.4       41
## 1132                   26       7      0     14482      48.6       12
## 1137                   28      25      0     20366      71.5       51
## 1138                   16      13      0      9938      31.0       41
## 1140                   33       6      0     18701      55.8       22
## 1144                   32      11      0      2923      14.7       17
## 1145                   52      19      1     15075      36.8       26
## 1154                   12      14      0     24969      65.7       32
## 1156                   76      14      0     11820      66.8       31
## 1157                   31      18      0     16262      47.0       44
## 1160                   16      21      0      8226      25.5       43
## 1162                   43      12      0     17619      39.5       29
## 1165                   47       8      0      5058      17.9       13
## 1176                   26      19      0     28338      30.2       40
## 1180                   47      18      0     14854      28.3       30
## 1182                   69       7      0     10257      48.2       11
## 1183                   73      16      0     11968      24.6       28
## 1184                   60      22      0      6921      20.1       40
## 1185                   36       9      0     18234      88.9       16
## 1201                   35       5      0       836      27.9        7
## 1204                   22      13      0     19366      45.0       44
## 1234                   22       8      0     10512      34.1       17
## 1235                   51       9      0      1619       4.0       19
## 1236                   45      21      0      7472      13.5       36
## 1240                    3      19      0     16117      64.0       31
## 1288                   40      16      0     21242      52.3       28
## 1289                   37      10      0      3022       8.9       23
## 1297                   22      12      0      5157      18.8       20
## 1303                    8      11      0     13308      57.1       29
## 1305                   28      20      0      6275      36.9       39
## 1318                   79       6      0      4741      19.1       16
## 1331                   34      19      0      7825      14.7       39
## 1332                   43       8      0      1368      25.8       15
## 1333                   60      12      0     60939      52.0       20
## 1350                   54      11      0     22717      67.0       17
## 1358                   26      23      0     28387      47.3       44
## 1359                   29       6      0      1459      28.6       11
## 1364                   60      10      1     13851      63.5       20
## 1370                   42      12      0     13520      21.9       33
## 1372                    6       9      0      5410      32.0       51
## 1377                   20       8      0      9611      28.3       12
## 1381                    3      16      0      6297      22.1       18
## 1387                   74       9      0     29265      78.0       20
## 1401                   12      14      0       328       0.8       25
## 1405                   59      14      0      9551      41.0       37
## 1417                    9      15      0     18342      66.5       34
## 1423                   49      25      0     58405      40.0       50
## 1426                   67       5      0      2211      43.4       15
## 1429                   80      15      0     15814      21.2       34
## 1436                   15      13      0      5908      41.9       21
## 1448                   21      13      0      2868       8.4       29
## 1454                   68       3      0       296       9.3        5
## 1458                   42      11      0     10334      20.7       30
## 1467                   19      11      0        95       0.8       28
## 1471                   70      12      1     11819      25.0       24
## 1474                   81      11      0      5919      25.5       19
## 1491                    5      20      0     44779      52.6       44
## 1495                   70       7      0     19807      34.7       16
## 1498                   65      24      0      9538      18.8       34
## 1508                    7      24      0     17285      28.6       47
## 1515                   64       5      0      4603      56.8       18
## 1528                   60       8      0     20103      89.3       14
## 1536                    9      14      0       718       3.4       46
## 1541                   27      17      0     10671      40.6       32
## 1549                   55       5      0      3619      31.7       26
## 1556                   20      12      0     17786      57.9       27
## 1561                   80      19      1      6640      15.1       33
## 1563                   59      10      0     18725      46.2       26
## 1565                   11      18      0     18408      39.2       36
## 1586                   40      10      0      1564       9.1       23
## 1587                   70      13      0     12577      22.1       48
## 1589                   37      15      1      9111      56.9       56
## 1602                   67      11      0      7615      61.9       18
## 1615                   35      16      0      4544      12.8       20
## 1625                   31      12      0      2284      22.6       20
## 1630                   77      16      0     14793      87.0       18
## 1635                   56       7      0      2307      10.1       24
## 1654                   34       9      0     20265      85.9       16
## 1655                   62      17      0      2705      28.5       36
```

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## 1670                 79      16      1    14057      32.6       21
## 1682                 18      13      0     8374      36.4       30
## 1687                 32      13      0     2035       9.3       25
## 1690                 28       9      0    13273      56.2       24
## 1694                 11      13      0     5430      11.0       30
## 1695                 11      10      0     3785      34.4       16
## 1697                 13      10      0    13892      70.2       21
## 1698                 44       8      0     1259      27.4       37
## 1705                  7      11      0    33223      42.3       19
## 1709                 32      14      0    58202       6.4       32
## 1719                 61      12      1     8190      39.4       21
## 1720                 22      19      0    17521      10.9       43
## 1731                 51      24      0    18256      18.3       43
## 1736                 13       7      0     1334      27.8        8
## 1740                 10      17      0     5064      21.6       20
## 1745                 30      10      0     3354       7.5       27
## 1746                 13      14      0    28645      75.8       17
## 1758                 16      24      0    34200      63.8       46
## 1769                  7      19      1    10521      37.6       38
## 1778                 29      16      0    13564      46.6       30
## 1793                 69       9      0     5599      28.3       22
## 1795                 25      12      1     6490      65.6       28
## 1797                 46      15      0    14317      22.7       23
## 1800                 41      14      0    26701      37.0       17
## 1807                 17      11      0     3432      56.3       14
## 1815                 18      12      0      178       3.0       46
## 1818                 67      15      0     1929       4.3       39
## 1826                 12       6      0     1748      20.6       29
## 1827                 25      13      0     4296      58.8       49
## 1835                 64      33      0    15640      22.2       55
## 1837                 65       5      0     9358      83.6       21
## 1840                 22      21      0    10837      22.9       40
## 1845                  5      11      0    34707      59.7       19
## 1851                 26      10      0     8416      92.5       21
## 1859                 56       8      0     4790      21.1       27
## 1863                 64       7      0     4108       8.1       16
## 1878                 14      14      0     4637      11.1       57
## 1903                 39      15      0     7222      18.5       23
## 1909                 33      20      0    10709      27.5       36
## 1914                 36      10      0      588      16.6       16
## 1928                 28       9      0    18544      56.5       13
## 1947                 25      12      0     4788      46.5       16
## 1953                 23       8      0     2297       6.6       41
## 1955                 19      21      0    11412      17.5       39
## 1965                 18      14      0    21358      85.4       64
## 1978                 69      15      0    13642      28.7       21
## 1980                 45      10      0    13701      62.8       41
## 2007                 66      12      0    16063      48.1       23
## 2009                 64      13      0    37774      59.1       26
## 2031                  4      13      1     7288      25.2       43
## 2040                 11       9      0     1882      24.4       32
## 2044                 28      19      0      950       2.6       36
## 2049                 74      13      0     8588      15.2       22
## 2052                 41      14      0     1674       8.8       28
## 2057                 43       6      0     2794      16.6       27
## 2059                 37      17      0    18813      56.5       32
## 2063                 39       8      0     6467      20.7       17
## 2067                  4      11      0     8034      24.3       27
## 2097                 34      13      0    10399      31.4       30
## 2102                 18       5      0      253      11.5        7
## 2106                 19       4      0      319      12.8        7
## 2111                 42       7      0     5489      39.2       20
## 2112                 56      10      0    13364      58.6       26
## 2113                 26      32      0    42041      33.1       55
## 2118                 22      12      0     5027      18.0       23
## 2120                 49      18      0    10720      20.9       38
## 2122                 34       7      0    17908      40.5       27
## 2125                 36      17      0    13852      39.5       29
## 2130                 51      19      0    24245      71.2       26
## 2133                 58       8      0    30883      44.9       27
## 2139                 21      10      0    17353      78.9       22
## 2144                 41      19      0    16847      27.5       41
## 2156                 81       6      0     5929      61.1       11
## 2160                 77       6      0     4197      99.9       11
## 2182                 36       9      0     7800      66.1       23
## 2183                 37       8      0    16272      61.2       20
## 2186                 21      16      0     1504       5.5       34
## 2210                 35      19      0     9398      16.7       21
## 2221                 46      20      0    27014      86.6       60
## 2233                 22      10      0     3209      34.5       14
## 2235                 46      21      0       11       0.1       36
## 2240                 78       4      0     6864      24.1       14
## 2247                 62       7      0    11805      72.4       21
## 2249                 38      12      0      306       1.0       22
## 2251                 14      22      0       55       0.2       47
## 2261                 25       9      0     5257      23.6       12
## 2262                  3      18      0     4262      18.5       38
## 2275                 38      11      0     8790      18.9       36
## 2284                 19      14      0     3073       6.5       39
## 2313                 19       7      0     5006      58.9       26
## 2314                  9      11      1     8105      36.2       21
## 2332                 65      16      0     3392       9.9       26
## 2333                 19       4      0     1635      18.0       18
## 2334                 57      19      1     6233      12.7       43
## 2344                 29      16      0     7357      30.2       29
## 2346                  7      11      0    13366      74.3       23
## 2349                 53       7      0    13945      65.2       29
## 2352                  9      12      0    11036      35.9       28
```

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## 2359                 7       11       0      1863       14.2        34
## 2364                48       10       0      4761       33.8        20
## 2371                11       14       0      6839       19.4        29
## 2380                25       10       0     11545       42.9        15
## 2388                76       18       0     38046       56.9        27
## 2398                64       24       0     12162       18.2        43
## 2400                36       31       0     15617       40.0        50
## 2401                38       23       0     26196       46.8        51
## 2408                15       11       0      1078        1.5        21
## 2410                77        9       1     11701       44.5        29
## 2415                41       15       1      4671       27.5        46
## 2424                80       19       0     44365       82.8        49
## 2427                18       11       0      2514       10.1        22
## 2428                20       11       0      4766       27.4        38
## 2445                56       11       0      8001       97.6        48
## 2454                49        6       0      2709       67.7        12
## 2458                 7       16       0     22790       54.8        32
## 2459                23        5       0      1016       21.6        17
## 2461                47        8       0     10957       66.4        28
## 2475                16       11       0         0        0.0        37
## 2479                35        5       0       560       26.7         5
## 2482                57        6       0      1449       26.8        11
## 2497                22       17       0     20972       31.4        30
## 2506                66       11       0     11011       23.2        21
## 2508                42        8       0      8866       33.7        11
## 2518                12        6       0        10        3.3        25
## 2521                37       23       0     35723       44.9        42
## 2526                 8        9       0      8204       75.3        14
## 2528                 6        9       0     32235       78.6        32
## 2532                21       15       0     13200       47.8        23
## 2534                47       13       0     30425       38.8        65
## 2537                36        6       0      1305       19.5        27
## 2543                22        9       0      3385       62.7        23
## 2555                11        6       0      3410       85.3        14
## 2559                38       19       0      3350       11.8        34
## 2565                39        4       0      2576       17.2         9
## 2569                32        9       0     20873       48.3        17
## 2575                 8       11       0     62617       48.1        31
## 2577                31        8       0      2355       40.6        30
## 2584                80       12       0     17876       57.1        23
## 2586                54        9       0     10431       35.6        27
## 2610                49       13       0      9277       25.2        36
## 2621                43       35       0     27589       41.8        55
## 2634                25       10       0      6066       83.1        29
## 2646                81       20       0      3700        5.8        26
## 2653                59        6       0     13570       67.5        18
## 2656                46       13       0     27058       55.7        32
## 2664                18        5       0     13643       32.6        13
## 2668                76        8       0      5275       39.7        34
## 2669                32       24       0      3758       24.4        27
## 2675                14       30       0     24589       27.4        43
## 2676                54       19       0     13294       19.8        38
## 2685                55       11       0     10266       39.2        22
## 2699                37       26       0     71842       36.9        51
## 2706                30       17       0      2773       16.7        33
## 2711                54       11       0     11964       34.7        32
## 2717                19       20       0     11256       21.8        37
## 2719                25        9       1      8721       24.5        19
## 2720                73       20       0      3679       10.4        29
## 2728                49       12       0     23766       44.8        31
## 2737                26       13       0      5421       16.7        22
## 2740                46        8       0      7386       32.7        18
## 2746                25       17       0      7679       47.7        41
## 2748                46       14       0     24409       31.7        22
## 2759                36       10       0      3462       36.4        18
## 2760                66       10       1      9010       20.7        21
## 2783                49       31       1     10689       18.5        45
## 2784                13       15       0      7187       36.3        66
## 2793                 5       14       0      3259       39.2        22
## 2794                12        9       0     11550       71.3        27
## 2804                61        3       0      2307       53.7         8
## 2809                 9        7       0      1901       14.3        17
## 2815                31       17       0     42282       37.2        40
## 2823                47        8       0      7058       43.3        14
## 2828                38        9       0      9169       68.9        16
## 2829                57       30       0     11130        7.4        41
## 2836                 7       15       0     22643       57.9        18
## 2849                81        7       0      7466       63.3         9
## 2862                24        8       1      5156       46.5        13
## 2864                39        8       0      8461       35.6        19
## 2870                54       25       1      8454       18.7        36
## 2871                13        8       0      2141        6.7        21
## 2881                19       18       0      7909       26.2        31
## 2890                 7       26       0     20212       15.6        45
## 2902                 3       15       0      8589       27.4        17
## 2904                31       19       0     15249       64.9        34
## 2905                24        8       0     80345       79.1        23
## 2909                48        7       0     13628       45.0        16
## 2910                76       10       0      3497       23.0        20
## 2921                22        7       0     20523       84.8        15
## 2926                 5        6       0      9090       47.8        11
## 2937                15       28       0      6374       11.6        47
## 2943                21        8       0      3696       82.1        15
## 2945                58        7       0      4237       47.6        23
## 2953                82       18       0     26608       84.7        28
## 2963                11        8       0      1119        6.8        28
## 2964                19       19       0     19351       50.0        30
## 2987                26       21       0     30506       18.8        75
```

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## 2990                 79      10      1    18454      47.8       17
## 2996                 53      13      1        0       0.0       17
## 2997                 65      15      0    11488      40.3       26
## 2998                 77      16      0    16599      36.8       32
## 3011                 73      10      0     6920      20.9       17
## 3013                 22       8      0     3054      27.3       25
## 3014                 36       8      0    44962      69.5       35
## 3015                 30      16      0    15066      30.1       55
## 3019                 69      14      0    24606      32.2       37
## 3020                 42      10      0    17057      48.9       22
## 3038                 78      14      0    16802      60.7       25
## 3046                 38      23      0     2637       8.8       36
## 3055                 43      10      0     3013      11.4       38
## 3066                 31      14      0    53519      81.1       33
## 3068                 33       5      0     4895      42.6        8
## 3069                 53       7      0     1032      17.8       22
## 3077                 56       8      1      931       3.6       19
## 3091                 69      13      0     5104      25.8       28
## 3109                 68      16      0    15834      22.8       39
## 3110                 66       9      1     8852      60.6       18
## 3111                 14      23      0    12655      26.0       35
## 3114                 75      12      1    18681      69.2       52
## 3115                 32       8      0     4034      26.2       19
## 3127                 11      13      0    10700      25.3       33
## 3128                 26      19      0     3820      14.9       40
## 3129                 64      10      0     9874      60.2       28
## 3139                 49      15      0    17296      55.8       34
## 3144                 21      14      0     1730      21.6       51
## 3148                 50      18      0     4329      27.6       33
## 3157                 24      10      0    11957      60.4       29
## 3167                 31       6      0     4375      71.7       15
## 3168                 48      10      0     2743      32.3       23
## 3191                 41       9      0    20213      35.9       17
## 3192                  3       9      0     3817      13.0       24
## 3195                 72       6      0    16901      84.1       24
## 3197                 43      12      0     4585       5.3       24
## 3207                 35       9      0    18172      70.7       24
## 3220                 18       6      0     9382      45.3       30
## 3235                 10       3      0        0       0.0       26
## 3240                  4       5      0      149       0.5        6
## 3242                 28       7      0    11859      84.1       18
## 3245                 10      19      0    11919      22.4       29
## 3248                 59       9      1      572       6.9       21
## 3249                 68      19      0     7149      12.2       48
## 3250                 12       8      1     8383      21.3       23
## 3253                 43      10      0    12728      36.3       18
## 3255                  9      18      0    21759      30.9       37
## 3263                 68       5      0     8088      42.3       18
## 3264                 44      23      0     7618      54.4       24
## 3275                 54       7      0     5025      19.6       17
## 3284                 68      16      1    14985      41.7       22
## 3301                 12      12      0    22121      32.9       18
## 3324                 25      12      0     3308      41.4       15
## 3327                 70       5      0     2456       4.5       32
## 3328                 46       5      0     8306      49.7       10
## 3338                 41      12      1     1923      16.6       17
## 3340                 62       9      0     8227      49.9       23
## 3348                 13      11      0    14818      87.7       32
## 3373                 20      15      0    10113      53.2       40
## 3375                 21      15      0    14063      40.1       31
## 3377                 75       4      0    23664      60.7       59
## 3382                 49      14      0    10158      31.0       38
## 3385                 74      22      0     9948      22.5       52
## 3390                 12       9      0     6308      35.8       28
## 3391                 79      19      0    19341      79.3       33
## 3405                 12      12      0    16277      56.3       28
## 3414                 31      14      0     3388      28.0       33
## 3415                 80      12      1    20251      52.2       29
## 3418                 59       8      0     1756      11.9        9
## 3423                 47       9      0    16855      80.6       13
## 3437                 17      11      0    20447      48.8       22
## 3452                 10      11      0    10342      78.3       28
## 3461                 35       9      0     8582      85.8       32
## 3468                 77      19      0    21463      20.4       51
## 3470                 38      19      0    30785      24.3       31
## 3473                 49      12      0    40557      78.4       25
## 3476                 54       8      0     8563      22.8       43
## 3478                 51       7      1     6482      38.4       31
## 3495                 76      10      0    36170      85.9       29
## 3496                 18       4      0       36       2.1       10
## 3499                 47       3      0      704      41.4        3
## 3512                 58      14      0    10049      14.2       21
## 3514                 38       7      0     3363      12.6       11
## 3524                  2      10      0       58       0.2       20
## 3526                 18       7      1     1736      16.5       10
## 3528                 39      19      0     1154       2.1       49
## 3529                 21      10      0     9210      52.9       24
## 3533                 36      25      0    27606      26.1       37
## 3549                 19      10      0    13813      75.5       22
## 3551                  9       9      0    11816      64.2       13
## 3552                 23       6      0     4964      90.3       34
## 3563                 37      20      0    14264      36.6       36
## 3570                  3      10      0    21790      50.7       25
## 3573                 15       8      0     2878      11.2       23
## 3583                 40      14      0    24083      44.9       32
## 3587                 18       9      0       44       0.2       29
## 3597                 43       8      0     3524      39.2       15
## 3601                 32       4      0     2727      60.6       15
```

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## 3609          13      17      0    11939      83.5      31
## 3618          38      14      0     9644      18.9      37
## 3620          20       6      0    10795      31.1      12
## 3626          59      19      0     9222      21.2      29
## 3627          15      10      1    11105      48.3      19
## 3638          45      11      0    16113      22.3      21
## 3643          14      13      0    20492      76.5      23
## 3647          50      19      0    12661      39.6      36
## 3652          35       4      0      755      31.5       8
## 3654          45      13      0        0       0.0      32
## 3664          12      22      1    13586      16.5      36
## 3669           4       9      1     4165      18.6      16
## 3676          18       9      0     6513      45.9      31
## 3677          13       4      0     1998      23.2      16
## 3689          69       5      1     7431      38.1      10
## 3694          57      12      0        0       0.0      47
## 3695          42      12      0    22310      38.3      30
## 3696          10       7      0     4243      40.8      20
## 3724          50      12      0     4444      14.6      24
## 3725          50      19      0     5959      26.3      43
## 3753           4      10      0     5251      27.9      16
## 3772          68      10      0     3333      30.0      26
## 3792          17      15      0     1762       4.5      43
## 3793          76       9      0     3396      22.1      24
## 3795          26      20      0     7481      18.2      29
## 3797          15       5      0     8587      93.3      12
## 3798          19      10      0     5653      59.5      24
## 3806          25       3      0     2642     102.0      20
## 3812          64      15      0     7859      41.1      24
## 3818          24      27      1    23664      39.3      42
## 3820           6      17      0     5884      28.0      19
## 3823          33      10      0     7144      29.2      26
## 3829          65      10      0     6977      42.0      28
## 3838          46      13      0    18614      47.4      41
## 3842          20       9      0     1160       8.1      22
## 3848          19      13      0    12384      69.6      23
## 3863          47      17      1    23847      50.6      29
## 3866           8       9      0     3684      25.8      14
## 3867          70      14      0     4924      11.6      20
## 3871          13      12      1     2993      22.8      34
## 3880          49       8      0   168334      89.8      32
## 3883           7      16      0   125575      77.7      25
## 3891          16      35      0     9676      30.0      43
## 3895          45      12      0     6770      28.3      25
## 3896          38      11      0    19673      50.2      18
## 3898          30       9      0     3337      10.5      34
## 3903           7      13      0    18449      67.6      36
## 3916           9       8      0     8338      39.1      19
## 3928          17       6      0     2008      20.3      16
## 3930          73       8      0     7625      76.3      18
## 3940          33      15      0     9691      27.6      28
## 3957           7      11      0    25062      44.3      20
## 3966          65       9      0     1173       8.3      13
## 3992          74      13      1     4757      12.0      30
## 3993          17      14      0    12797      67.0      23
## 4000          31       9      0    23250      68.6      25
## 4004          35      10      0     1622      23.2      18
## 4012          66       6      0     2422       7.7      18
## 4014          29      22      0    15526      12.2      49
## 4025          41      15      0    57252      70.3      27
## 4029          38       6      0     7851      78.5      18
## 4032          66       6      0    11969      77.2      18
## 4033          78       3      0     3010      21.0      14
## 4059           9       9      0     9527      54.8      22
## 4066           8      10      0     2939       7.3      20
## 4067          69      23      0    20978      32.1      28
## 4077          70      11      0    12138      43.0      22
## 4087          57      10      0      244       2.2      28
## 4088          38       5      0     2262      94.3      13
## 4091          60      21      0    30308      41.7      36
## 4102          34      17      0    25025      49.0      27
## 4106          26       8      0    10049      55.8      11
## 4112          10      10      0    18612      65.3      19
## 4127          22       3      0       61       2.4      10
## 4129          16      10      0    22123      50.9      25
## 4130          15       5      0     4023      61.9      14
## 4134           7       4      0    19930      97.2      11
## 4145          27      12      0    13179      48.1      27
## 4156          40       9      0     8595      26.9      16
## 4158          54       9      0     2956       9.0      12
## 4166          52      15      0    10431      44.2      25
## 4167          19       9      0     2404      15.5      25
## 4168          63      11      0     3780      15.7      40
## 4171          33      12      0    19895      58.7      16
## 4176           5      10      0    14878      60.0      19
## 4182          52      11      1     5450      39.5      30
## 4183          75       8      0     2389      20.1      27
## 4184          81       7      0     9867      78.3      16
## 4187          77      17      0    41324      74.7      47
## 4190          17      12      0    18349      57.0      30
## 4192          50       6      0    31100      79.7      45
## 4195          33      13      0    13472      79.7      33
## 4218           6       8      0     4812      27.2      22
## 4223          16       8      0     5010      43.2      11
## 4226          21      15      0     1193       6.6      31
## 4227          23      20      0    21312      26.6      54
## 4242          30      11      0     4668      54.3      43
## 4244          78       7      0        0       0.0      13
```

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## 4246          13      18      0      7025      46.5      64
## 4250          64      11      1      2793      11.2      21
## 4264          56       7      0     11055      38.9      18
## 4276          15      14      0      6128      35.4      27
## 4281          15      22      1      5014      22.5      39
## 4288          38       9      0      9727      54.0      18
## 4296          77       6      1      3068      76.7      13
## 4299          16      18      0      7215      16.9      49
## 4302          61       9      0     12631      41.1      22
## 4312          44      14      0       912       3.4      27
## 4315          54      25      0     23344      99.3      34
## 4319          18      16      0     13395      55.1      24
## 4327           9      12      0      4302      19.4      27
## 4329          73      19      0      4113       9.1      28
## 4332          72      15      0      6532      12.1      28
## 4339          51       5      0      5567      76.3      19
## 4340          37       7      0      7976      42.4      14
## 4343          13       8      0      3120      42.7      21
## 4345          50      12      0     16627      47.0      29
## 4359          59      15      0      7074      13.7      43
## 4361          38       5      0      2968      37.6      35
## 4366          23      18      0     26441      49.9      36
## 4373           4      21      0      2019      14.0      38
## 4374          43       9      0      7236      35.5      31
## 4384          34      21      0     28110      30.4      40
## 4393          37       8      0      3748      14.1      25
## 4396           3      18      0      9193      20.5      44
## 4409           8       8      0      7570      46.4      21
## 4417          26       9      0      5415      35.9      17
## 4422          78      17      0     46626      41.7      35
## 4434          36      16      0     11947      63.5      27
## 4438          63      12      0      1074       3.0      32
## 4439          12      18      0      5572      10.4      45
## 4444          62      17      0     31197      65.5      49
## 4446          52       7      0      1308      23.4      28
## 4454          28      21      0      7751      59.2      26
## 4457          52      11      0      3894      19.0      33
## 4460          63      17      0     18898      36.1      28
## 4462          17       9      0      4835      62.8      15
## 4467          34      22      0     22773      40.8      68
## 4475          65       5      0      2599      25.0      17
## 4480          11      16      0      4840      28.6      31
## 4493          22      19      0     10957      42.6      27
## 4496          16      14      0     13486      19.0      26
## 4508          67      16      0      1423       4.4      35
## 4513          42      13      0      2973      14.1      17
## 4515          61       7      0     17234      75.9      14
## 4521           6      22      0     11004      33.3      30
## 4541          19       5      0       965      42.0      19
## 4542          80      10      0     12336      56.8      35
## 4549          26       6      0     21084      64.1      28
## 4556           7       8      0     19674      48.0      24
## 4559          11      22      0     16936      16.1      46
## 4560          13       8      0      3815      77.9      38
## 4570          49      10      0     15688      36.6      22
## 4572           8      14      0     15246      66.0      27
## 4574          77       4      0      4157      69.3      12
## 4578          72      17      0     12699      31.6      23
## 4582          32      16      0     17891      50.4      27
## 4596          31      12      0     41486      94.1      35
## 4600          26      19      0     15621      52.4      31
## 4612          70      41      0      7783      10.6      70
## 4619          73       8      0      2906      46.1      32
## 4628          36      13      0     25267      89.6      21
## 4637          58      21      1      4136      57.4      58
## 4652          21       8      0      6313      64.4      27
## 4655          14      11      0     18131      43.8      19
## 4657          20      12      0      5301      50.0      17
## 4666          45      31      0     13486      25.4      70
## 4686          38       9      0      4221      45.4      19
## 4689          38      17      0     34722      62.6      29
## 4693          65       5      0      1175      42.0       6
## 4694          46       9      0     16540      62.7      21
## 4702          29      22      0     22159      38.5      34
## 4705          41      16      0      7131      24.3      20
## 4707          46      15      0     35252      69.1      28
## 4713          39      14      0     10558      44.0      25
## 4716          32       5      0      7698      90.6      28
## 4727          58      10      0      8113      43.2      19
## 4733          38       9      0      8497      93.4      18
## 4740          13       6      0      5465      73.9      32
## 4752          70       5      0      4062      34.7      34
## 4757          22      18      0     17870      34.8      36
## 4759          45      13      1      7386      33.4      18
## 4761          27       9      0     13415      86.0      31
## 4773          78       8      1      6051      24.2      17
## 4782          53      13      0     14130      39.7      30
## 4787          25      11      0     13470      46.8      14
## 4789          56      27      0     19663      62.2      43
## 4803          36      19      0      7911      31.3      35
## 4826           9      19      0      7914      14.2      47
## 4827          16       7      0       132       1.7      14
## 4828          12      12      1      4970      14.4      30
## 4855          39      17      0      2680       2.6      38
## 4857          22       9      0         0       0.0      33
## 4866          27      23      0     13592      63.2      28
## 4869          66      23      0      5283       3.2      41
## 4877          21      15      0      5894      15.3      28
```

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## 4881                47      10      1      5876      25.2      23
## 4883                10      15      0     16717      56.3      32
## 4919                24      22      0      6795      47.5      42
## 4924                41      10      0     33474      82.9      23
## 4932                54      17      0     24146      85.3      33
## 4936                81      12      0     16671      41.9      23
## 4939                14       7      0     24176      94.1      28
## 4942                56       8      0     36717      81.8      20
## 4964                81      11      0     20182      29.0      26
## 4969                77      22      0     11124      23.4      38
## 4994                20      22      0     38936      74.4      42
## 5000                24      10      1       676       3.7      18
## 5002                28       8      0     19303      85.4      10
## 5004                23      14      0      4260      37.0      20
## 5005                64      15      0       583       2.1      29
## 5012                47      15      0      1983       7.9      29
## 5013                22       6      0      5068      36.2      43
## 5019                 6      10      0      7499      35.0      15
## 5028                25       5      0       699      10.4      21
## 5033                26      10      0     14219      67.7      26
## 5056                23      12      0      2146       6.2      23
## 5062                52      19      0      2808      13.9      57
## 5067                47      20      0     38309      24.5      37
## 5085                67      15      0      5734      18.7      32
## 5101                12       9      0      6698      94.3      29
## 5111                60       8      0      3520      17.5      14
## 5113                66       4      0      2081      31.1       9
## 5119                 8      18      0      1679       6.2      50
## 5121                20       5      0      3492      87.3      18
## 5127                10      17      0     45921      87.6      34
## 5129                79      15      0      3478      16.5      27
## 5144                 7      12      0      7717      19.4      33
## 5146                91       9      0      5068      46.1      25
## 5149                17      28      0    383115      54.9      50
## 5153                45       5      0       115       1.9      17
## 5172                46       9      0      6217      32.7      15
## 5175                19      18      0     15746      29.8      39
## 5178                19       8      0     11480       1.1      23
## 5189                 7      22      0      3828      14.2      43
## 5198                48      12      0      9830      61.8      28
## 5199                 2      18      0      2198      19.1      20
## 5208                12      14      0     10946      38.5      39
## 5222                80      14      0      3432       9.8      25
## 5226                38       8      0     13043      52.2      15
## 5227                15       9      0      5216      18.0      20
## 5231                31      33      0      6732      30.9      53
## 5253                65       6      0      8956      43.7      19
## 5263                57       8      0     13204      88.6      21
## 5272                56      11      0      9096      24.9      23
## 5280                22       8      0      5292      12.9      15
## 5288                67      16      0      8263      18.8      28
## 5289                10      16      0     22589      49.2      33
## 5293                29      13      0     23566      42.9      27
## 5296                63      12      0     26783      54.8      17
## 5318                15       9      1      1968      26.2      19
## 5323                58      25      0     11825      11.3      39
## 5338                17       6      0     11601      51.6      13
## 5366                19       5      0      1337      51.4      11
## 5374                14      10      0      2719      37.8      55
## 5378                64      11      0      5507      22.5      26
## 5386                62       7      0     34846      97.9      21
## 5391                36      17      0     26812      62.8      42
## 5398                20       8      0      1323       2.4      14
## 5414                56       7      0     15436      66.0      10
## 5423                12      11      0     12811      16.0      16
## 5426                48       7      0     14159      38.3      23
## 5430                64      25      0     14684      27.3      55
## 5434                42      11      0     15961      73.6      18
## 5439                81      13      0      2011       9.3      22
## 5457                66      11      0      6639      56.7      21
## 5461                 3       4      0      2051      16.4      13
## 5463                23      14      0      7222      31.8      24
## 5469                 5      12      0      5562      36.6      17
## 5471                34       7      1      4823      24.2      21
## 5487                48       8      0      6736      48.1      27
## 5489                36      12      0     11918      42.3      35
## 5493                41       9      0      7138      41.3      15
## 5495                56      11      0      9535      24.4      41
## 5504                44      18      0     22088      18.0      37
## 5512                28       2      0         0       0.0       5
## 5520                35      29      0     18966      55.9      49
## 5526                73      18      0     19350      40.3      24
## 5528                22       4      0       677      24.2       6
## 5530                18      16      0     10918      31.6      45
## 5542                41      10      0     10166      32.4      33
## 5546                22      13      1      7460      24.6      22
## 5560                 6      20      0     18460      19.3      54
## 5572                39       6      1       687       3.6      13
## 5606                14      14      1      7642      37.6      34
## 5617                20       6      0      4328      48.1      13
## 5618                31       5      0      2850      55.9      12
## 5631                22       6      0      6947      44.0       8
## 5644                26      12      0      7677      33.4      26
## 5645                38       8      0      6868      46.7      18
## 5650                14      16      0     10912      69.1      26
## 5652                59      17      1     32510      82.1      39
## 5653                44       6      0      5273      19.2      19
## 5655                15       9      0      6567      10.5      21
```

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## 5657                    45        6       0      2314       16.5        18
## 5662                    15        8       0     11894       70.0        17
## 5678                    14       13       0     12688       60.7        21
## 5682                    13       19       0      7606       26.2        33
## 5686                    80       15       1     18189       67.4        26
## 5691                    43       17       0      2895       10.5        68
## 5701                    17       12       0     18162       51.2        20
## 5702                    32       11       0     10551       53.3        26
## 5713                    14       18       0     19391       56.0        29
## 5714                    41       11       0     17559       54.7        27
## 5719                    22       10       0      7746       19.8        32
## 5726                    30        9       0      8191       65.0        43
## 5730                    29       12       1      2213       14.0        25
## 5735                    57       17       0     18846       36.6        33
## 5738                     8       15       0     18034       90.2        32
## 5740                    63       10       0     20429       90.4        30
## 5742                    15        9       0      3652       46.8        19
## 5746                    48        8       0     10016       45.5        21
## 5748                    35       11       0     20107       74.2        31
## 5755                    11        6       0      2572       15.4        20
## 5774                    42       14       0      6599       49.6        26
## 5780                    28        7       0      6359       22.9        46
## 5790                    30        7       0      4163       47.3        13
## 5805                    74        9       0     24677       89.2        24
## 5813                    61        8       0       789        7.0        14
## 5829                     8        8       0      3680       40.9        17
## 5837                    24       37       0     19651       51.0        60
## 5839                    75       15       0     20641       40.0        32
## 5855                    55        6       0      4797       84.2        14
## 5864                    34       19       0      8128       24.7        55
## 5871                    24       18       1     11820       39.9        34
## 5879                    57        3       0      6949       99.3        10
## 5894                    43       11       0     14545       29.9        20
## 5900                    69       10       0     15749       48.0        23
## 5905                    22       13       0      7839       51.2        39
## 5909                    48       10       0     22607       34.0        23
## 5911                    49        7       0     12446       58.4        24
## 5920                    24        4       0       135        7.9         6
## 5926                    34       12       0     12955       42.2        30
## 5934                    76       15       0     54488       63.7        28
## 5937                    22       11       0      8309       46.9        42
## 5939                    29       15       0     22463       69.1        30
## 5941                    68       14       0     23448       17.9        32
## 5945                    21       29       0      3304        7.1        38
##      initial_list_status out_prncp out_prncp_inv total_pymnt total_pymnt_inv
## 1                      w         0             0    4549.217         4549.22
## 13                     w         0             0   10003.236        10003.24
## 26                     w         0             0   40041.250        40041.25
## 29                     w         0             0    5618.168         5618.17
## 56                     f         0             0   15009.580        15009.58
## 58                     w         0             0    3620.898         3620.90
## 62                     w         0             0    6068.378         6068.38
## 79                     w         0             0   15377.205        15377.21
## 81                     w         0             0   10054.600        10054.60
## 85                     w         0             0    5031.264         5031.26
## 89                     f         0             0   35203.990        35203.99
## 94                     w         0             0    1012.847         1012.85
## 95                     f         0             0    1094.821          814.75
## 100                    w         0             0   20113.003        20113.00
## 123                    w         0             0   10293.239        10293.24
## 129                    w         0             0    2043.769         2043.77
## 131                    w         0             0    4541.335         4541.33
## 146                    f         0             0   21010.283        21010.28
## 157                    f         0             0    4903.482         4903.48
## 177                    w         0             0   10155.999        10156.00
## 188                    w         0             0   40569.122        40569.12
## 189                    w         0             0    5509.199         5509.20
## 209                    w         0             0   25105.218        25105.22
## 211                    w         0             0   13349.886        13349.89
## 214                    w         0             0    8220.876         8220.88
## 223                    f         0             0   15312.137        15312.14
## 228                    w         0             0    6060.293         6060.29
## 237                    w         0             0   20045.907        20045.91
## 256                    w         0             0    4028.489         4028.49
## 266                    w         0             0   20251.070        20251.07
## 280                    w         0             0   25370.264        25370.26
## 282                    w         0             0   20236.245        20236.25
## 288                    w         0             0   32160.216        32160.22
## 289                    w         0             0   12086.053        12086.05
## 291                    f         0             0    4273.922         4273.92
## 293                    w         0             0   16183.103        16183.10
## 299                    w         0             0    2524.662         2524.66
## 300                    f         0             0    4041.682         4041.68
## 303                    w         0             0    5102.336         5102.34
## 320                    w         0             0   30020.543        30020.54
## 333                    w         0             0   15286.855        15286.86
## 339                    w         0             0    7221.083         7221.08
## 342                    w         0             0   30945.937        30945.94
## 363                    w         0             0   16230.018        16230.02
## 372                    w         0             0   20215.292        20215.29
## 380                    w         0             0   40323.997        40324.00
## 398                    w         0             0    6531.051         6531.05
## 401                    w         0             0   31842.128        31842.13
## 404                    w         0             0    6157.871         6157.87
## 437                    w         0             0    3606.785         3606.78
## 447                    w         0             0   10004.900        10004.90
## 448                    w         0             0   16869.737        16869.74
## 449                    w         0             0   27188.680        27188.68
```

```
## 457                w        0            0   24024.894        24024.89
## 463                w        0            0   23218.387        23218.39
## 472                w        0            0   20631.267        20631.27
## 478                w        0            0    9005.843         9005.84
## 489                w        0            0   12166.000        12166.00
## 492                w        0            0     469.040          469.04
## 498                w        0            0   36772.112        36772.11
## 510                w        0            0   11260.831        11260.83
## 511                w        0            0   30072.097        30072.10
## 521                w        0            0    8007.366         8007.37
## 522                w        0            0    1886.635         1886.64
## 534                w        0            0   15006.550        15006.55
## 535                f        0            0   20898.478        20898.48
## 538                w        0            0    8124.460         8124.46
## 539                w        0            0   15285.065        15285.06
## 554                w        0            0   20009.844        20009.84
## 557                w        0            0   17004.714        17004.71
## 573                w        0            0    2105.396         2105.40
## 574                w        0            0   25531.196        25531.20
## 586                w        0            0   40750.449        40750.45
## 595                w        0            0   16610.266        16610.27
## 599                f        0            0    9502.278         9502.28
## 603                w        0            0   17098.505        17098.50
## 604                f        0            0    5144.221         4887.01
## 633                w        0            0    2503.264         2503.26
## 643                w        0            0    3628.242         3628.24
## 657                w        0            0   18109.935        18109.94
## 661                w        0            0   15026.180        15026.18
## 666                f        0            0    4014.744         4014.74
## 686                f        0            0    2607.943         2607.94
## 693                w        0            0    4803.455         4803.45
## 701                w        0            0   10156.671        10156.67
## 714                w        0            0    6006.187         6006.19
## 723                w        0            0   18742.481        18742.48
## 732                w        0            0   12006.967        12006.97
## 733                w        0            0   10202.584        10202.58
## 735                w        0            0   19905.496        19905.50
## 736                w        0            0    2036.629         2036.63
## 741                w        0            0   20192.929        20192.93
## 742                w        0            0    5143.892         5143.89
## 751                w        0            0   19087.517        19087.52
## 756                w        0            0   15347.292        15347.29
## 759                w        0            0    3100.128         3100.13
## 762                w        0            0   31317.268        31317.27
## 763                w        0            0    6136.423         6136.42
## 765                w        0            0   15430.671        15430.67
## 768                f        0            0    2883.142         2883.14
## 773                f        0            0   10295.213        10295.21
## 774                f        0            0    8128.416         8128.42
## 776                w        0            0   26466.296        26466.30
## 783                f        0            0    5056.327         5056.33
## 785                w        0            0    7158.962         7158.96
## 842                w        0            0   12504.375        12504.38
## 864                f        0            0   16012.272        16012.27
## 865                w        0            0   12422.511        12422.51
## 868                w        0            0    5823.569         5823.57
## 876                f        0            0   36812.298        36812.30
## 888                w        0            0    5640.798         5640.80
## 927                w        0            0    3720.411         3720.41
## 929                w        0            0   20352.226        20352.23
## 941                w        0            0   18193.722        18193.72
## 944                w        0            0   10273.001        10273.00
## 947                w        0            0   35000.000        35000.00
## 948                w        0            0    7536.868         7536.87
## 959                w        0            0   12584.687        12584.69
## 970                w        0            0   35662.077        35662.08
## 973                f        0            0   25929.385        25929.39
## 979                f        0            0   12124.728        11872.13
## 980                w        0            0    6195.415         6195.42
## 981                w        0            0   18454.920        18454.92
## 987                w        0            0   11752.401        11752.40
## 991                w        0            0    4072.771         4072.77
## 1001               w        0            0   20412.511        20412.51
## 1004               w        0            0    3579.704         3579.70
## 1010               w        0            0   15042.432        15042.43
## 1016               w        0            0   16044.328        16044.33
## 1018               w        0            0   25474.039        25474.04
## 1019               f        0            0    2053.378         2053.38
## 1042               w        0            0    3104.199         3104.20
## 1079               w        0            0    1584.196         1584.20
## 1087               w        0            0   10132.319        10132.32
## 1093               w        0            0   38525.016        38525.02
## 1103               w        0            0   15110.585        15110.59
## 1127               w        0            0   12004.443        12004.44
## 1132               w        0            0    5051.726         5051.73
## 1137               w        0            0   15295.248        15295.25
## 1138               w        0            0    3300.586         3300.59
## 1140               w        0            0    9738.526         9738.53
## 1144               w        0            0    7049.410         7049.41
## 1145               w        0            0   11283.578        11283.58
## 1154               f        0            0   10006.493        10006.49
## 1156               w        0            0   19780.102        19780.10
## 1157               w        0            0   15007.345        15007.34
## 1160               w        0            0   15520.034        15520.03
## 1162               w        0            0   10184.143        10184.14
## 1165               w        0            0   10843.525        10843.53
## 1176               w        0            0   10870.007        10870.01
## 1180               f        0            0   16048.683        15791.49
```

```
## 1182                f         0            0   27983.577        27983.58
## 1183                w         0            0    1088.140         1088.14
## 1184                w         0            0   20166.654        20166.65
## 1185                w         0            0    8159.357         8159.36
## 1201                w         0            0   20136.580        20136.58
## 1204                w         0            0     234.960          234.96
## 1234                w         0            0    9486.711         9486.71
## 1235                w         0            0   16017.987        16017.99
## 1236                w         0            0   12623.209        12623.21
## 1240                w         0            0   21009.550        21009.55
## 1288                w         0            0    6391.492         6391.49
## 1289                w         0            0    8174.974         8174.97
## 1297                w         0            0   21126.614        21126.61
## 1303                w         0            0   21639.075        21639.07
## 1305                w         0            0       0.000            0.00
## 1318                w         0            0    3676.431         3676.43
## 1331                w         0            0    5308.351         5308.35
## 1332                w         0            0    5684.934         5684.93
## 1333                w         0            0    5090.810         5090.81
## 1350                w         0            0   30024.213        30024.21
## 1358                w         0            0    4978.970         4978.97
## 1359                w         0            0    1224.066         1224.07
## 1364                w         0            0   12758.008        12758.01
## 1370                w         0            0   20396.924        20396.92
## 1372                w         0            0   18575.667        18575.67
## 1377                w         0            0   41000.094        41000.09
## 1381                w         0            0    6163.599         6163.60
## 1387                w         0            0   20452.395        20452.39
## 1401                f         0            0   16063.897        16038.80
## 1405                w         0            0    5182.636         5182.64
## 1417                w         0            0   19939.590        19939.59
## 1423                w         0            0    7574.873         7574.87
## 1426                w         0            0    5070.527         5070.53
## 1429                w         0            0    6277.900         6277.90
## 1436                f         0            0    7987.971         7987.97
## 1448                w         0            0   12588.230        12588.23
## 1454                w         0            0    7194.748         7194.75
## 1458                w         0            0   12149.441        12149.44
## 1467                w         0            0   32751.609        32751.61
## 1471                w         0            0   15220.770        15220.77
## 1474                w         0            0    4577.083         4577.08
## 1491                w         0            0    8116.140         8116.14
## 1495                w         0            0   36180.106        36180.11
## 1498                w         0            0    5113.543         5113.54
## 1508                w         0            0   10977.656        10977.66
## 1515                w         0            0    5127.167         5127.17
## 1528                w         0            0   33017.458        33017.46
## 1536                w         0            0    5061.047         5061.05
## 1541                w         0            0   31065.248        31065.25
## 1549                w         0            0   10319.084        10319.08
## 1556                w         0            0   12057.877        12057.88
## 1561                w         0            0    7108.278         7108.28
## 1563                w         0            0   16531.719        16531.72
## 1565                w         0            0   10219.083        10219.08
## 1586                w         0            0    4989.431         4989.43
## 1587                w         0            0    3401.980         3401.98
## 1589                w         0            0   17003.794        17003.79
## 1602                f         0            0    5206.323         5206.32
## 1615                w         0            0    6228.498         6228.50
## 1625                w         0            0    8676.876         8676.88
## 1630                w         0            0   24015.574        24015.57
## 1635                f         0            0    1545.553         1545.55
## 1654                w         0            0   19066.696        19066.70
## 1655                w         0            0     114.870          114.87
## 1670                w         0            0   16887.950        16887.95
## 1682                w         0            0   32842.624        32842.62
## 1687                w         0            0    4580.721         4580.72
## 1690                f         0            0    5311.111         5311.11
## 1694                w         0            0    8038.542         8038.54
## 1695                w         0            0    7559.453         7559.45
## 1697                w         0            0   16012.626        16012.63
## 1698                w         0            0    5149.989         5149.99
## 1705                w         0            0   21116.885        21116.88
## 1709                w         0            0   10170.225        10170.22
## 1719                w         0            0   10007.887        10007.89
## 1720                w         0            0   11078.866        11078.87
## 1731                w         0            0   32542.834        32542.83
## 1736                w         0            0    8647.762         8647.76
## 1740                w         0            0   12011.927        12011.93
## 1745                w         0            0    7112.241         7112.24
## 1746                w         0            0   31571.643        31571.64
## 1758                w         0            0   25312.300        25312.30
## 1769                w         0            0   10774.538        10774.54
## 1778                f         0            0   15242.625        15242.63
## 1793                w         0            0    7543.805         7543.81
## 1795                w         0            0    4066.953         4066.95
## 1797                w         0            0   15239.126        15239.13
## 1800                w         0            0     207.130          207.13
## 1807                w         0            0   12808.863        12808.86
## 1815                w         0            0   12299.754        12299.75
## 1818                w         0            0    3606.425         3606.43
## 1826                w         0            0   12542.909        12542.91
## 1827                w         0            0   35104.827        35104.83
## 1835                w         0            0    7183.775         7183.77
## 1837                w         0            0   10012.781        10012.78
## 1840                w         0            0   10304.998        10305.00
## 1845                w         0            0   35765.354        35765.35
## 1851                w         0            0   13444.282        13444.28
```

```
## 1859                w        0            0  10601.772       10601.77
## 1863                w        0            0  13610.702       13610.70
## 1878                w        0            0  19398.408       19398.41
## 1903                w        0            0  17415.205       17415.21
## 1909                w        0            0   6934.350        6934.35
## 1914                w        0            0  10925.937       10925.94
## 1928                w        0            0    534.720         534.72
## 1947                w        0            0   8374.483        8374.48
## 1953                w        0            0   5581.262        5581.26
## 1955                w        0            0  12284.131       12284.13
## 1965                w        0            0  37967.317       37967.32
## 1978                w        0            0  25012.238       25012.24
## 1980                w        0            0  10502.225       10502.23
## 2007                w        0            0  16103.229       16103.23
## 2009                w        0            0  10572.868       10572.87
## 2031                w        0            0   5064.533        5064.53
## 2040                w        0            0   3243.994        3243.99
## 2044                w        0            0  10421.920       10421.92
## 2049                f        0            0   3628.642        3628.64
## 2052                w        0            0  15017.967       15017.97
## 2057                w        0            0  11802.312       11802.31
## 2059                w        0            0   1547.986        1547.99
## 2063                w        0            0  11872.981       11872.98
## 2067                w        0            0   7219.567        7219.57
## 2097                w        0            0   2090.541        2090.54
## 2102                w        0            0   6839.801        6839.80
## 2106                w        0            0  22948.591       22948.59
## 2111                w        0            0  10314.472       10314.47
## 2112                w        0            0   2385.942        2385.94
## 2113                w        0            0  25509.282       25509.28
## 2118                w        0            0   9061.283        9061.28
## 2120                w        0            0   5081.202        5081.20
## 2122                w        0            0   4002.480        4002.48
## 2125                w        0            0   3043.693        3043.69
## 2130                w        0            0   4328.896        4328.90
## 2133                f        0            0  20214.102       20214.10
## 2139                w        0            0  10838.501       10838.50
## 2144                w        0            0   1008.963        1008.96
## 2156                f        0            0  15003.998       15004.00
## 2160                w        0            0   4193.590        4193.59
## 2182                w        0            0  21186.206       21186.21
## 2183                w        0            0  20984.802       20984.80
## 2186                w        0            0   8293.831        8293.83
## 2210                w        0            0   7094.767        7094.77
## 2221                w        0            0  14493.159       14493.16
## 2233                w        0            0    200.100         200.10
## 2235                w        0            0  18252.752       18252.75
## 2240                w        0            0   4835.752        4835.75
## 2247                w        0            0   3088.324        3088.32
## 2249                w        0            0  10481.516       10481.52
## 2251                w        0            0  12347.179       12347.18
## 2261                w        0            0   6173.553        6173.55
## 2262                w        0            0   8014.679        8014.68
## 2275                w        0            0   3016.275        3016.28
## 2284                w        0            0  16086.426       16086.43
## 2313                w        0            0  18034.970       18034.97
## 2314                w        0            0   6344.389        6344.39
## 2332                w        0            0   4365.183        4365.18
## 2333                w        0            0      0.000           0.00
## 2334                w        0            0  10493.471       10493.47
## 2344                w        0            0   6445.665        6445.67
## 2346                w        0            0  10852.970       10852.97
## 2349                w        0            0  10088.426       10088.43
## 2352                f        0            0   5123.092        5123.09
## 2359                w        0            0  12892.915       12892.91
## 2364                f        0            0   7122.105        6867.74
## 2371                w        0            0  12640.127       12640.13
## 2380                w        0            0  16307.389       16307.39
## 2388                w        0            0   6548.670        6548.67
## 2398                w        0            0   1295.902        1295.90
## 2400                w        0            0    298.820         298.82
## 2401                w        0            0  10287.451       10287.45
## 2408                w        0            0  10186.243       10186.24
## 2410                w        0            0  10310.492       10310.49
## 2415                w        0            0    263.550         263.55
## 2424                w        0            0  36778.631       36778.63
## 2427                f        0            0   5180.852        5180.85
## 2428                w        0            0   7000.004        7000.00
## 2445                w        0            0   3594.090        3594.09
## 2454                w        0            0   3181.680        3181.68
## 2458                w        0            0   2053.238        2053.24
## 2459                w        0            0   5175.579        5175.58
## 2461                f        0            0   2597.986        2597.99
## 2475                w        0            0   2085.256        2085.26
## 2479                w        0            0   4414.326        4414.33
## 2482                w        0            0   3292.106        3292.11
## 2497                f        0            0  16469.515       16186.45
## 2506                f        0            0  14394.336       14394.34
## 2508                f        0            0  10313.718       10313.72
## 2518                f        0            0   5272.403        5272.40
## 2521                w        0            0  32721.032       32721.03
## 2526                w        0            0  10743.983       10743.98
## 2528                w        0            0  12130.360       12130.36
## 2532                w        0            0  15911.840       15911.84
## 2534                w        0            0  20472.882       20472.88
## 2537                w        0            0   5491.163        5491.16
## 2543                w        0            0   3091.938        3091.94
## 2555                w        0            0  10539.101       10539.10
```

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## 2559                w        0            0   12268.918        12268.92
## 2565                w        0            0   35589.150        35589.15
## 2569                f        0            0   17224.024        17198.39
## 2575                w        0            0    1710.090         1710.09
## 2577                w        0            0    4122.846         4122.85
## 2584                w        0            0   11106.803        11106.80
## 2586                w        0            0    2429.533         2429.53
## 2610                w        0            0   15417.252        15417.25
## 2621                f        0            0    8419.373         8419.37
## 2634                w        0            0   10573.661        10573.66
## 2646                w        0            0    6056.879         6056.88
## 2653                f        0            0    2827.012         2827.01
## 2656                w        0            0   13754.469        13754.47
## 2664                w        0            0    8288.365         8288.36
## 2668                w        0            0    3722.624         3722.62
## 2669                w        0            0    3713.266         3713.27
## 2675                f        0            0   18016.641        18016.64
## 2676                w        0            0   40395.267        40395.27
## 2685                w        0            0   21471.695        21471.70
## 2699                w        0            0   10261.186        10261.19
## 2706                w        0            0    1530.376         1530.38
## 2711                w        0            0    8305.122         8305.12
## 2717                w        0            0   14776.534        14776.53
## 2719                w        0            0    9092.404         9092.40
## 2720                f        0            0   20935.517        20909.35
## 2728                w        0            0   41866.055        41866.06
## 2737                w        0            0     261.430          261.43
## 2740                f        0            0   18478.603        18221.96
## 2746                w        0            0   10323.419        10323.42
## 2748                w        0            0   34246.008        34246.01
## 2759                w        0            0    4201.168         4201.17
## 2760                w        0            0    5537.173         5537.17
## 2783                w        0            0    6513.425         6513.43
## 2784                w        0            0    8168.851         8168.85
## 2793                w        0            0   26617.517        26617.52
## 2794                w        0            0   16120.640        16120.64
## 2804                w        0            0   16015.756        16015.76
## 2809                w        0            0    4276.620         4276.62
## 2815                w        0            0   14459.466        14459.47
## 2823                f        0            0   15012.111        15012.11
## 2828                w        0            0   21371.459        21371.46
## 2829                f        0            0    1279.520         1279.52
## 2836                w        0            0   16264.996        16265.00
## 2849                w        0            0    7236.300         7236.30
## 2862                w        0            0   20321.034        20321.03
## 2864                w        0            0    9911.740         9911.74
## 2870                w        0            0    5630.318         5630.32
## 2871                f        0            0    3967.236         3967.24
## 2881                w        0            0    1859.020         1859.02
## 2890                w        0            0   11152.866        11152.87
## 2902                f        0            0   14008.694        14008.69
## 2904                w        0            0   28108.670        28108.67
## 2905                w        0            0   13010.199        13010.20
## 2909                w        0            0   14005.302        14005.30
## 2910                f        0            0    6164.365         6164.36
## 2921                w        0            0   10322.810        10322.81
## 2926                f        0            0    5003.762         5003.76
## 2937                w        0            0    4704.714         4704.71
## 2943                w        0            0   18109.915        18109.92
## 2945                w        0            0   25013.060        25013.06
## 2953                w        0            0   15404.292        15404.29
## 2963                w        0            0   37477.496        37477.50
## 2964                w        0            0   15838.499        15838.50
## 2987                w        0            0    5093.278         5093.28
## 2990                f        0            0   15075.153        15075.15
## 2996                f        0            0     397.070          397.07
## 2997                w        0            0   13460.265        13460.27
## 2998                w        0            0   35017.135        35017.13
## 3011                f        0            0    4226.357         4226.36
## 3013                w        0            0   10371.588        10371.59
## 3014                w        0            0    8494.680         8494.68
## 3015                w        0            0    3477.688         3477.69
## 3019                w        0            0   24973.568        24973.57
## 3020                w        0            0   12502.608        12502.61
## 3038                w        0            0    3121.283         3121.28
## 3046                w        0            0   17879.391        17879.39
## 3055                w        0            0   10316.333        10316.33
## 3066                w        0            0   30929.008        30929.01
## 3068                w        0            0    7627.444         7627.44
## 3069                f        0            0    6240.629         6240.63
## 3077                f        0            0   20568.099        20285.29
## 3091                w        0            0    9983.322         9983.32
## 3109                w        0            0   23340.680        23340.68
## 3110                w        0            0    7773.051         7773.05
## 3111                w        0            0   12915.005        12915.01
## 3114                w        0            0   14800.927        14800.93
## 3115                w        0            0    8295.139         8295.14
## 3127                w        0            0   10796.221        10796.22
## 3128                w        0            0    1832.050         1832.05
## 3129                w        0            0   12234.708        12234.71
## 3139                w        0            0   16636.306        16636.31
## 3144                w        0            0    2931.692         2931.69
## 3148                w        0            0   22437.820        22437.82
## 3157                w        0            0   30285.874        30285.87
## 3167                f        0            0    2018.788         2018.79
## 3168                w        0            0    3737.737         3737.74
## 3191                w        0            0   41052.761        41052.76
## 3192                w        0            0    6147.117         6147.12
```

```
## 3195                f        0            0   16233.520        16206.46
## 3197                w        0            0    2099.701         2099.70
## 3207                f        0            0   16028.332        16028.33
## 3220                w        0            0   43086.250        43086.25
## 3235                w        0            0    5208.143         5208.14
## 3240                f        0            0   30942.982        30942.98
## 3242                w        0            0   17548.134        17548.13
## 3245                w        0            0    4269.738         4269.74
## 3248                w        0            0    2235.360         2235.36
## 3249                w        0            0    5080.693         5080.69
## 3250                w        0            0   28404.103        28404.10
## 3253                w        0            0   16201.842        16201.84
## 3255                w        0            0   10315.525        10315.53
## 3263                w        0            0    8128.261         8128.26
## 3264                f        0            0    2019.756         2019.76
## 3275                w        0            0   22040.966        22040.97
## 3284                w        0            0    3484.140         3484.14
## 3301                w        0            0     227.050          227.05
## 3324                w        0            0    6844.369         6844.37
## 3327                w        0            0    9688.837         9688.84
## 3328                w        0            0    9649.591         9649.59
## 3338                w        0            0    5564.031         5564.03
## 3340                w        0            0   21822.309        21822.31
## 3348                w        0            0   10070.927        10070.93
## 3373                w        0            0    9832.937         9832.94
## 3375                w        0            0    6037.577         6037.58
## 3377                w        0            0   20742.695        20742.70
## 3382                w        0            0    6233.862         6233.86
## 3385                w        0            0   10274.797        10274.80
## 3390                w        0            0    3346.883         3346.88
## 3391                w        0            0     532.470          532.47
## 3405                w        0            0   15333.300        15333.30
## 3414                w        0            0    6133.645         6133.64
## 3415                w        0            0   12892.927        12892.93
## 3418                f        0            0    5075.185         5075.18
## 3423                w        0            0   21035.467        21035.47
## 3437                w        0            0    1207.310         1207.31
## 3452                w        0            0   12144.871        12144.87
## 3461                w        0            0      68.530           68.53
## 3468                w        0            0   19585.035        19585.03
## 3470                w        0            0   19850.477        19850.48
## 3473                w        0            0    2614.760         2614.76
## 3476                w        0            0   11491.759        11491.76
## 3478                w        0            0    7478.150         7478.15
## 3495                f        0            0    6281.442         6281.44
## 3496                w        0            0     656.620          656.62
## 3499                f        0            0    1255.671         1255.67
## 3512                w        0            0    2069.525         2069.53
## 3514                w        0            0     968.830          968.83
## 3524                w        0            0   20883.575        20883.58
## 3526                w        0            0     509.120          509.12
## 3528                w        0            0   10231.245        10231.25
## 3529                w        0            0   18427.626        18427.63
## 3533                w        0            0   14599.777        14599.78
## 3549                f        0            0    5372.005         5372.00
## 3551                w        0            0   12910.264        12910.26
## 3552                w        0            0    8590.220         8590.22
## 3563                w        0            0    6024.863         6024.86
## 3570                w        0            0    6282.908         6282.91
## 3573                w        0            0    1839.270         1839.27
## 3583                w        0            0   10029.330        10029.33
## 3587                w        0            0   21202.362        21202.36
## 3597                w        0            0   20113.244        20113.24
## 3601                w        0            0   14616.056        14616.06
## 3609                w        0            0   13649.263        13649.26
## 3618                w        0            0   20589.518        20589.52
## 3620                w        0            0   42754.112        42754.11
## 3626                w        0            0   33859.747        33859.75
## 3627                f        0            0    9174.228         9147.24
## 3638                f        0            0   35584.225        35584.22
## 3643                w        0            0    5809.836         5809.84
## 3647                w        0            0   37587.706        37587.71
## 3652                w        0            0    5433.864         5433.86
## 3654                w        0            0    4132.890         4132.89
## 3664                w        0            0   15200.320        15200.32
## 3669                w        0            0    7712.390         7712.39
## 3676                w        0            0   11470.164        11470.16
## 3677                w        0            0    6098.297         6098.30
## 3689                w        0            0     727.780          727.78
## 3694                w        0            0   10517.965        10517.97
## 3695                f        0            0   12196.153        12196.15
## 3696                w        0            0   26813.617        26813.62
## 3724                w        0            0   19245.340        19245.34
## 3725                w        0            0    6352.700         6352.70
## 3753                w        0            0    7118.796         7118.80
## 3772                w        0            0   14029.746        14029.75
## 3792                w        0            0   22138.586        22138.59
## 3793                w        0            0   22440.143        22440.14
## 3795                w        0            0     900.130          900.13
## 3797                w        0            0   18768.045        18768.04
## 3798                w        0            0    8308.509         8308.51
## 3806                w        0            0     267.640          267.64
## 3812                w        0            0   11046.679        11046.68
## 3818                w        0            0   15793.091        15793.09
## 3820                w        0            0    6370.849         6370.85
## 3823                f        0            0   16952.800        16952.80
## 3829                w        0            0   13342.579        13342.58
## 3838                w        0            0   35060.238        35060.24
```

```
## 3842                w        0            0   31318.132        31318.13
## 3848                w        0            0    1549.801         1549.80
## 3863                w        0            0    2233.910         2233.91
## 3866                w        0            0   10580.388        10580.39
## 3867                w        0            0   30387.777        30387.78
## 3871                f        0            0   10005.240        10005.24
## 3880                w        0            0       0.000            0.00
## 3883                w        0            0   29463.164        29463.16
## 3891                w        0            0    6550.130         6550.13
## 3895                f        0            0   16630.687        16604.70
## 3896                w        0            0    2234.870         2234.87
## 3898                w        0            0   20707.816        20707.82
## 3903                f        0            0    5110.920         5110.92
## 3916                w        0            0   12862.120        12862.12
## 3928                w        0            0    4302.373         4302.37
## 3930                w        0            0    1698.595         1698.59
## 3940                w        0            0   11359.837        11359.84
## 3957                w        0            0   20184.773        20184.77
## 3966                w        0            0    2095.510         2095.51
## 3992                w        0            0   10662.605        10662.60
## 3993                f        0            0   19210.742        19185.73
## 4000                w        0            0   10009.671        10009.67
## 4004                w        0            0    8532.636         8532.64
## 4012                w        0            0   18542.304        18542.30
## 4014                f        0            0   23190.655        23190.66
## 4025                w        0            0    4029.190         4029.19
## 4029                w        0            0    4504.630         4504.63
## 4032                w        0            0    9157.087         9157.09
## 4033                w        0            0   15463.577        15463.58
## 4059                w        0            0    8223.610         8223.61
## 4066                w        0            0   35698.895        35698.89
## 4067                f        0            0   36749.711        36487.21
## 4077                w        0            0   19146.266        19146.27
## 4087                f        0            0   12355.108        12355.11
## 4088                f        0            0    3353.762         3353.76
## 4091                w        0            0   36320.055        36320.06
## 4102                w        0            0   22563.310        22563.31
## 4106                w        0            0   10368.124        10368.12
## 4112                w        0            0    1034.110         1034.11
## 4127                w        0            0     130.410          130.41
## 4129                f        0            0   26486.872        26486.87
## 4130                w        0            0     282.440          282.44
## 4134                f        0            0   12228.406        12228.41
## 4145                f        0            0       0.000            0.00
## 4156                w        0            0    9294.616         9294.62
## 4158                w        0            0   30013.144        30013.14
## 4166                w        0            0    4128.766         4128.77
## 4167                w        0            0    5027.366         5027.37
## 4168                w        0            0   11221.359        11221.36
## 4171                w        0            0   26733.706        26733.71
## 4176                w        0            0   21658.600        21658.60
## 4182                w        0            0    8240.514         8240.51
## 4183                w        0            0   31824.310        31824.31
## 4184                w        0            0     449.500          449.50
## 4187                w        0            0   35796.001        35796.00
## 4190                w        0            0   10510.123        10510.12
## 4192                w        0            0   26620.202        26620.20
## 4195                w        0            0   17814.067        17814.07
## 4218                f        0            0    1140.650         1099.91
## 4223                w        0            0    5774.081         5774.08
## 4226                w        0            0   12521.032        12521.03
## 4227                f        0            0   20802.756        20802.76
## 4242                w        0            0    8578.848         8578.85
## 4244                w        0            0    5188.820         5188.82
## 4246                w        0            0   15550.217        15550.22
## 4250                w        0            0    4153.375         4153.37
## 4264                w        0            0   21989.741        21989.74
## 4276                w        0            0    5957.468         5957.47
## 4281                w        0            0    2613.954         2613.95
## 4288                w        0            0   10970.876        10970.88
## 4296                w        0            0    3462.639         3462.64
## 4299                w        0            0   17417.654        17417.65
## 4302                w        0            0    6564.330         6564.33
## 4312                w        0            0   10266.078        10266.08
## 4315                w        0            0   35503.049        35503.05
## 4319                w        0            0   25607.097        25607.10
## 4327                w        0            0   11103.067        11103.07
## 4329                w        0            0    1202.049         1202.05
## 4332                w        0            0   12142.120        12142.12
## 4339                w        0            0    3745.538         3745.54
## 4340                f        0            0    8369.084         8369.08
## 4343                w        0            0    7503.157         7503.16
## 4345                w        0            0   17018.227        17018.23
## 4359                w        0            0    1371.280         1371.28
## 4361                w        0            0    5118.386         5118.39
## 4366                f        0            0   15228.064        15228.06
## 4373                f        0            0    3136.151         3136.15
## 4374                w        0            0   35417.415        35417.42
## 4384                w        0            0   31002.277        31002.28
## 4393                w        0            0   26799.059        26799.06
## 4396                w        0            0    8121.296         8121.30
## 4409                w        0            0   21774.950        21774.95
## 4417                w        0            0    6145.872         6145.87
## 4422                w        0            0     730.250          730.25
## 4434                w        0            0     425.920          425.92
## 4438                w        0            0    3618.671         3618.67
## 4439                w        0            0    5089.252         5089.25
## 4444                f        0            0   10226.517        10226.52
```

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## 4446                w        0            0    1169.210         1169.21
## 4454                w        0            0   16246.244        16246.24
## 4457                w        0            0   11750.737        11750.74
## 4460                w        0            0   19061.927        19061.93
## 4462                f        0            0    6926.141         6926.14
## 4467                w        0            0   24648.451        24648.45
## 4475                w        0            0   15584.739        15584.74
## 4480                f        0            0    5177.366         5177.37
## 4493                f        0            0   14189.380        14162.09
## 4496                w        0            0   25320.940        25320.94
## 4508                w        0            0    1587.033         1587.03
## 4513                w        0            0   10155.762        10155.76
## 4515                w        0            0   12067.010        12067.01
## 4521                w        0            0    2097.410         2097.41
## 4541                f        0            0    9033.338         9033.34
## 4542                w        0            0   11422.187        11422.19
## 4549                w        0            0    8783.175         8783.17
## 4556                w        0            0   33546.249        33546.25
## 4559                w        0            0   30315.617        30315.62
## 4560                w        0            0    8102.068         8102.07
## 4570                w        0            0    6211.174         6211.17
## 4572                w        0            0   26003.438        26003.44
## 4574                w        0            0    6334.216         6334.22
## 4578                w        0            0   24638.765        24638.76
## 4582                w        0            0   20054.866        20054.87
## 4596                w        0            0   14633.561        14633.56
## 4600                w        0            0   25372.908        25372.91
## 4612                w        0            0   29131.758        29131.76
## 4619                w        0            0   31338.555        31338.55
## 4628                w        0            0    4298.978         4298.98
## 4637                f        0            0     312.990          312.99
## 4652                f        0            0   21594.235        21568.53
## 4655                w        0            0   26627.830        26627.83
## 4657                w        0            0   20838.045        20838.04
## 4666                w        0            0   36877.425        36877.43
## 4686                w        0            0   31375.686        31375.69
## 4689                w        0            0   10413.336        10413.34
## 4693                w        0            0   23749.915        23749.91
## 4694                w        0            0   23372.898        23372.90
## 4702                w        0            0   23008.911        23008.91
## 4705                w        0            0   12674.767        12674.77
## 4707                w        0            0   22308.208        22308.21
## 4713                f        0            0     201.760          201.76
## 4716                w        0            0   41629.115        41629.12
## 4727                w        0            0     680.570          680.57
## 4733                w        0            0   10639.109        10639.11
## 4740                w        0            0   10328.076        10328.08
## 4752                w        0            0    5024.800         5024.80
## 4757                w        0            0    1858.890         1858.89
## 4759                w        0            0    5306.578         5306.58
## 4761                w        0            0    6237.291         6237.29
## 4773                w        0            0   21252.913        21252.91
## 4782                w        0            0    3280.700         3280.70
## 4787                w        0            0     682.970          682.97
## 4789                w        0            0   16102.265        16102.26
## 4803                w        0            0   10834.275        10834.28
## 4826                w        0            0    8161.518         8161.52
## 4827                w        0            0   21106.552        21106.55
## 4828                w        0            0    3044.044         3044.04
## 4855                w        0            0   15325.737        15325.74
## 4857                w        0            0    6835.238         6835.24
## 4866                f        0            0   12372.221        12088.69
## 4869                f        0            0   20703.050        20703.05
## 4877                w        0            0   10393.932        10393.93
## 4881                w        0            0   35008.880        35008.88
## 4883                w        0            0   10846.234        10846.23
## 4919                w        0            0    5995.895         5995.90
## 4924                w        0            0    8809.819         8809.82
## 4932                w        0            0   20398.277        20398.28
## 4936                w        0            0   11241.936        11241.94
## 4939                w        0            0   18778.093        18778.09
## 4942                f        0            0    9592.194         9592.19
## 4964                f        0            0   17015.637        16990.61
## 4969                w        0            0   18766.962        18766.96
## 4994                w        0            0   22626.839        22626.84
## 5000                w        0            0     581.650          581.65
## 5002                w        0            0   37991.107        37991.11
## 5004                w        0            0    3613.659         3613.66
## 5005                w        0            0   20006.654        20006.65
## 5012                w        0            0    8475.574         8475.57
## 5013                w        0            0     940.410          940.41
## 5019                w        0            0   12407.843        12407.84
## 5028                w        0            0   10612.003        10612.00
## 5033                w        0            0     345.860          345.86
## 5056                w        0            0    2500.000         2500.00
## 5062                w        0            0    1025.828         1025.83
## 5067                w        0            0   41238.466        41238.47
## 5085                w        0            0     686.740          686.74
## 5101                w        0            0    1537.092         1537.09
## 5111                w        0            0    4142.646         4142.65
## 5113                w        0            0    1754.550         1754.55
## 5119                w        0            0   18167.563        18167.56
## 5121                f        0            0    1211.430         1211.43
## 5127                w        0            0   32815.063        32815.06
## 5129                w        0            0   12298.690        12298.69
## 5144                f        0            0   18622.290        18622.29
## 5146                w        0            0    5148.904         5148.90
## 5149                w        0            0   22694.381        22694.38
```

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## 5153                w        0            0    4016.497         4016.50
## 5172                w        0            0    9767.431         9767.43
## 5175                w        0            0     935.050          935.05
## 5178                w        0            0   35712.254        35712.25
## 5189                w        0            0   16121.260        16121.26
## 5198                f        0            0   16666.804        16666.80
## 5199                f        0            0    2591.510         2591.51
## 5208                w        0            0     310.240          310.24
## 5222                w        0            0    6360.779         6360.78
## 5226                w        0            0   19666.072        19666.07
## 5227                w        0            0    5293.632         5293.63
## 5231                w        0            0    5622.206         5622.21
## 5253                w        0            0    3477.830         3477.83
## 5263                w        0            0   11756.772        11756.77
## 5272                w        0            0   10297.946        10297.95
## 5280                w        0            0     643.050          643.05
## 5288                w        0            0   20967.476        20967.48
## 5289                f        0            0   20245.696        20245.70
## 5293                w        0            0   25886.499        25886.50
## 5296                w        0            0   25097.894        25097.89
## 5318                w        0            0    6432.617         6432.62
## 5323                w        0            0   18137.269        18137.27
## 5338                w        0            0   13621.688        13621.69
## 5366                w        0            0     299.230          299.23
## 5374                w        0            0   12296.146        12296.15
## 5378                w        0            0    9957.150         9957.15
## 5386                w        0            0   36477.884        36477.88
## 5391                w        0            0   25015.119        25015.12
## 5398                w        0            0     258.180          258.18
## 5414                w        0            0   10019.116        10019.12
## 5423                w        0            0   15247.012        15247.01
## 5426                w        0            0    1723.320         1723.32
## 5430                w        0            0   11897.869        11897.87
## 5434                w        0            0    3212.013         3212.01
## 5439                w        0            0    1971.860         1971.86
## 5457                w        0            0   18259.911        18259.91
## 5461                w        0            0   36723.168        36723.17
## 5463                w        0            0    1498.900         1498.90
## 5469                w        0            0   10846.735        10846.73
## 5471                w        0            0    3232.606         3232.61
## 5487                w        0            0   15394.406        15394.41
## 5489                w        0            0   13592.643        13592.64
## 5493                w        0            0    7795.880         7795.88
## 5495                w        0            0   22506.033        22506.03
## 5504                w        0            0    2523.140         2523.14
## 5512                f        0            0    8825.176         8565.61
## 5520                w        0            0   21586.418        21586.42
## 5526                w        0            0   20721.413        20721.41
## 5528                w        0            0    4572.595         4572.60
## 5530                w        0            0   21240.887        21240.89
## 5542                w        0            0   35090.358        35090.36
## 5546                f        0            0     463.580          463.58
## 5560                w        0            0   20939.682        20939.68
## 5572                w        0            0     227.190          227.19
## 5606                w        0            0   17697.500        17697.50
## 5617                w        0            0    9018.803         9018.80
## 5618                w        0            0    8443.940         8443.94
## 5631                w        0            0    7329.314         7329.31
## 5644                w        0            0    1008.260         1008.26
## 5645                w        0            0   12768.985        12768.99
## 5650                f        0            0   20133.849        20133.85
## 5652                w        0            0    5462.202         5462.20
## 5653                w        0            0   42590.102        42590.10
## 5655                f        0            0       0.000            0.00
## 5657                w        0            0   10254.270        10254.27
## 5662                w        0            0   13683.189        13683.19
## 5678                w        0            0   13015.625        13015.63
## 5682                f        0            0    5519.729         5519.73
## 5686                w        0            0   18672.922        18672.92
## 5691                w        0            0    3147.646         3147.65
## 5701                w        0            0    2429.930         2429.93
## 5702                w        0            0   18162.182        18162.18
## 5713                w        0            0   25039.144        25039.14
## 5714                w        0            0   31855.888        31855.89
## 5719                w        0            0   18872.129        18872.13
## 5726                f        0            0    9787.865         9787.86
## 5730                f        0            0    6063.093         6063.09
## 5735                w        0            0    2068.540         2068.54
## 5738                f        0            0   25738.639        25738.64
## 5740                w        0            0   31540.485        31540.48
## 5742                w        0            0     338.930          338.93
## 5746                w        0            0    1085.074         1085.07
## 5748                f        0            0    6196.745         6196.74
## 5755                w        0            0   31634.407        31634.41
## 5774                w        0            0    1464.520         1464.52
## 5780                f        0            0    8814.019         8814.02
## 5790                f        0            0     641.900          641.90
## 5805                w        0            0   21681.693        21681.69
## 5813                f        0            0   10231.251        10231.25
## 5829                w        0            0    6680.879         6680.88
## 5837                w        0            0   20044.664        20044.66
## 5839                f        0            0   16388.457        16388.46
## 5855                w        0            0     638.830          638.83
## 5864                w        0            0   13582.604        13582.60
## 5871                w        0            0    1051.290         1051.29
## 5879                w        0            0   15608.201        15608.20
## 5894                w        0            0   21278.780        21278.78
## 5900                w        0            0   37522.489        37522.49
```

```
## 5905                  w         0             0   38097.113        38097.11
## 5909                  w         0             0   16468.675        16468.68
## 5911                  w         0             0    5245.697         5245.70
## 5920                  w         0             0    2693.408         2693.41
## 5926                  f         0             0   11464.282        11464.28
## 5934                  w         0             0   35957.550        35957.55
## 5937                  w         0             0   10729.008        10729.01
## 5939                  w         0             0   25396.712        25396.71
## 5941                  w         0             0   25375.481        25375.48
## 5945                  w         0             0    4667.824         4667.82
##      total_rec_prncp total_rec_int total_rec_late_fee recoveries
## 1            4500.00         49.22               0.00       0.00
## 13          10000.00          3.24               0.00       0.00
## 26          40000.00         41.25               0.00       0.00
## 29           5600.00         18.17               0.00       0.00
## 56          15000.00          9.58               0.00       0.00
## 58           3600.00         20.90               0.00       0.00
## 62           6000.00         68.38               0.00       0.00
## 79          15000.00        377.21               0.00       0.00
## 81          10000.00         54.60               0.00       0.00
## 85           5000.00         31.26               0.00       0.00
## 89          35000.00        203.99               0.00       0.00
## 94           1000.00         12.85               0.00       0.00
## 95           1075.00         19.82               0.00       0.00
## 100         20000.00        113.00               0.00       0.00
## 123         10000.00        293.24               0.00       0.00
## 129          2000.00         43.77               0.00       0.00
## 131          4500.00         41.33               0.00       0.00
## 146         21000.00         10.28               0.00       0.00
## 157          4800.00        103.48               0.00       0.00
## 177         10000.00        156.00               0.00       0.00
## 188         40000.00        569.12               0.00       0.00
## 189          5500.00          9.20               0.00       0.00
## 209         25000.00        105.22               0.00       0.00
## 211         13250.00         99.89               0.00       0.00
## 214          8000.00        220.88               0.00       0.00
## 223         15000.00        312.14               0.00       0.00
## 228          6000.00         60.29               0.00       0.00
## 237         20000.00         45.91               0.00       0.00
## 256          4000.00         28.49               0.00       0.00
## 266         20000.00        251.07               0.00       0.00
## 280         25050.00        320.26               0.00       0.00
## 282         20000.00        236.25               0.00       0.00
## 288         32000.00        160.22               0.00       0.00
## 289         12000.00         86.05               0.00       0.00
## 291          4250.00         23.92               0.00       0.00
## 293         16000.00        183.10               0.00       0.00
## 299          2500.00         24.66               0.00       0.00
## 300          4000.00         41.68               0.00       0.00
## 303          5000.00        102.34               0.00       0.00
## 320         30000.00         20.54               0.00       0.00
## 333         15000.00        286.86               0.00       0.00
## 339          7200.00         21.08               0.00       0.00
## 342         30000.00        945.94               0.00       0.00
## 363         16000.00        230.02               0.00       0.00
## 372         20000.00        182.40              32.89       0.00
## 380         40000.00        324.00               0.00       0.00
## 398          6500.00         31.05               0.00       0.00
## 401         30000.00       1842.13               0.00       0.00
## 404          6000.00        157.87               0.00       0.00
## 437          3600.00          6.78               0.00       0.00
## 447         10000.00          4.90               0.00       0.00
## 448         16000.00        869.74               0.00       0.00
## 449         27000.00        188.68               0.00       0.00
## 457         24000.00         24.89               0.00       0.00
## 463         22000.00       1218.39               0.00       0.00
## 472         20000.00        631.27               0.00       0.00
## 478          9000.00          5.84               0.00       0.00
## 489         12000.00        166.00               0.00       0.00
## 492           339.43        129.61               0.00       0.00
## 498         35000.00       1772.11               0.00       0.00
## 510         11000.00        260.83               0.00       0.00
## 511         30000.00         72.10               0.00       0.00
## 521          8000.00          7.37               0.00       0.00
## 522          1800.00         86.64               0.00       0.00
## 534         15000.00          6.55               0.00       0.00
## 535         20000.00        898.48               0.00       0.00
## 538          8000.00        124.46               0.00       0.00
## 539         15000.00        285.06               0.00       0.00
## 554         20000.00          9.84               0.00       0.00
## 557         17000.00          4.71               0.00       0.00
## 573          2000.00        105.40               0.00       0.00
## 574         25000.00        531.20               0.00       0.00
## 586         40000.00        750.45               0.00       0.00
## 595         16200.00        410.27               0.00       0.00
## 599          9500.00          2.28               0.00       0.00
## 603         16800.00        298.50               0.00       0.00
## 604          5000.00        144.22               0.00       0.00
## 633          2500.00          3.26               0.00       0.00
## 643          3600.00         28.24               0.00       0.00
## 657         18000.00        109.94               0.00       0.00
## 661         15000.00         26.18               0.00       0.00
## 666          4000.00         14.74               0.00       0.00
## 686          2600.00          7.94               0.00       0.00
## 693          4800.00          3.45               0.00       0.00
## 701         10000.00        156.67               0.00       0.00
## 714          6000.00          6.19               0.00       0.00
## 723         18000.00        742.48               0.00       0.00
```

```
## 732        12000.00          6.97              0.00       0.00
## 733        10000.00        202.58              0.00       0.00
## 735        19525.00        380.50              0.00       0.00
## 736         2000.00         36.63              0.00       0.00
## 741        20000.00        192.93              0.00       0.00
## 742         5000.00        143.89              0.00       0.00
## 751        19000.00         87.52              0.00       0.00
## 756        15000.00        347.29              0.00       0.00
## 759         3000.00        100.13              0.00       0.00
## 762        30000.00       1317.27              0.00       0.00
## 763         6000.00        136.42              0.00       0.00
## 765        15000.00        430.67              0.00       0.00
## 768         2875.00          8.14              0.00       0.00
## 773        10000.00        295.21              0.00       0.00
## 774         8000.00        128.42              0.00       0.00
## 776        24975.00       1491.30              0.00       0.00
## 783         5000.00         56.33              0.00       0.00
## 785         7000.00        158.96              0.00       0.00
## 842        12500.00          4.38              0.00       0.00
## 864        16000.00         12.27              0.00       0.00
## 865        12000.00        422.51              0.00       0.00
## 868         5600.00        223.57              0.00       0.00
## 876        35000.00       1812.30              0.00       0.00
## 888         5600.00         40.80              0.00       0.00
## 927         3500.00        220.41              0.00       0.00
## 929        20000.00        352.23              0.00       0.00
## 941        17000.00       1193.72              0.00       0.00
## 944        10000.00        273.00              0.00       0.00
## 947        35000.00          0.00              0.00       0.00
## 948         7500.00         36.87              0.00       0.00
## 959        12000.00        584.69              0.00       0.00
## 970        35000.00        662.08              0.00       0.00
## 973        25000.00        929.39              0.00       0.00
## 979        12000.00        124.73              0.00       0.00
## 980         6000.00        195.42              0.00       0.00
## 981        18300.00        154.92              0.00       0.00
## 987        11200.00        552.40              0.00       0.00
## 991         4000.00         72.77              0.00       0.00
## 1001       20000.00        412.51              0.00       0.00
## 1004        3500.00         79.70              0.00       0.00
## 1010       15000.00         42.43              0.00       0.00
## 1016       16000.00         44.33              0.00       0.00
## 1018       25000.00        474.04              0.00       0.00
## 1019        2000.00         53.38              0.00       0.00
## 1042        3000.00         89.20             15.00       0.00
## 1079        1500.00         84.20              0.00       0.00
## 1087       10000.00        132.32              0.00       0.00
## 1093       37325.00       1200.02              0.00       0.00
## 1103       15000.00        110.59              0.00       0.00
## 1127       12000.00          4.44              0.00       0.00
## 1132        5000.00         51.73              0.00       0.00
## 1137       15000.00        295.25              0.00       0.00
## 1138        3200.00        100.59              0.00       0.00
## 1140        9600.00        138.53              0.00       0.00
## 1144        7000.00         49.41              0.00       0.00
## 1145       11000.00        283.58              0.00       0.00
## 1154       10000.00          6.49              0.00       0.00
## 1156       19000.00        780.10              0.00       0.00
## 1157       15000.00          7.34              0.00       0.00
## 1160       15000.00        520.03              0.00       0.00
## 1162       10000.00        184.14              0.00       0.00
## 1165       10500.00        343.53              0.00       0.00
## 1176       10425.00        445.01              0.00       0.00
## 1180       15600.00        448.68              0.00       0.00
## 1182       26475.00       1508.58              0.00       0.00
## 1183         630.63        457.51              0.00       0.00
## 1184       20000.00        166.65              0.00       0.00
## 1185        8000.00        159.36              0.00       0.00
## 1201       20000.00        136.58              0.00       0.00
## 1204         109.43        125.53              0.00       0.00
## 1234        9000.00        486.71              0.00       0.00
## 1235       16000.00         17.99              0.00       0.00
## 1236       12000.00        623.21              0.00       0.00
## 1240       20000.00       1009.55              0.00       0.00
## 1288        6000.00        391.49              0.00       0.00
## 1289        8000.00        174.97              0.00       0.00
## 1297       21000.00        126.61              0.00       0.00
## 1303       20000.00       1639.07              0.00       0.00
## 1305           0.00          0.00              0.00       0.00
## 1318        3600.00         76.43              0.00       0.00
## 1331        5000.00        308.35              0.00       0.00
## 1332        5600.00         84.93              0.00       0.00
## 1333        5000.00         90.81              0.00       0.00
## 1350       30000.00         24.21              0.00       0.00
## 1358        4800.00        178.97              0.00       0.00
## 1359        1200.00         24.07              0.00       0.00
## 1364       12000.00        758.01              0.00       0.00
## 1370       20000.00        396.92              0.00       0.00
## 1372       18000.00        575.67              0.00       0.00
## 1377       40000.00        937.56             62.53       0.00
## 1381        6000.00        163.60              0.00       0.00
## 1387       20000.00        452.39              0.00       0.00
## 1401       16000.00         63.90              0.00       0.00
## 1405        5000.00        182.64              0.00       0.00
## 1417       19000.00        939.59              0.00       0.00
## 1423        7500.00         74.87              0.00       0.00
## 1426        5000.00         70.53              0.00       0.00
## 1429        6025.00        252.90              0.00       0.00
```

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## 1436        7500.00       487.97              0.00       0.00
## 1448       12500.00        88.23              0.00       0.00
## 1454        7000.00       194.75              0.00       0.00
## 1458       12000.00       149.44              0.00       0.00
## 1467       32000.00       751.61              0.00       0.00
## 1471       15000.00       220.77              0.00       0.00
## 1474        4500.00        77.08              0.00       0.00
## 1491        8000.00       116.14              0.00       0.00
## 1495       35000.00      1180.11              0.00       0.00
## 1498        5000.00       113.54              0.00       0.00
## 1508       10000.00       977.66              0.00       0.00
## 1515        5000.00       127.17              0.00       0.00
## 1528       33000.00        17.46              0.00       0.00
## 1536        4800.00       261.05              0.00       0.00
## 1541       30000.00      1065.25              0.00       0.00
## 1549       10000.00       319.08              0.00       0.00
## 1556       12000.00        57.88              0.00       0.00
## 1561        7000.00       108.28              0.00       0.00
## 1563       16000.00       531.72              0.00       0.00
## 1565        9600.00       619.08              0.00       0.00
## 1586        4850.00       139.43              0.00       0.00
## 1587        3400.00         1.98              0.00       0.00
## 1589       16000.00      1003.79              0.00       0.00
## 1602        5025.00       181.32              0.00       0.00
## 1615        6000.00       228.50              0.00       0.00
## 1625        8400.00       276.88              0.00       0.00
## 1630       24000.00        15.57              0.00       0.00
## 1635        1500.00        45.55              0.00       0.00
## 1654       18000.00      1066.70              0.00       0.00
## 1655          85.55        29.32              0.00       0.00
## 1670       16800.00        87.95              0.00       0.00
## 1682       32000.00       842.62              0.00       0.00
## 1687        4500.00        80.72              0.00       0.00
## 1690        5000.00       311.11              0.00       0.00
## 1694        8000.00        38.54              0.00       0.00
## 1695        7500.00        59.45              0.00       0.00
## 1697       16000.00        12.63              0.00       0.00
## 1698        5000.00       149.99              0.00       0.00
## 1705       20400.00       716.88              0.00       0.00
## 1709       10000.00       170.22              0.00       0.00
## 1719       10000.00         7.89              0.00       0.00
## 1720       11000.00        78.87              0.00       0.00
## 1731       32000.00       542.83              0.00       0.00
## 1736        8500.00       147.76              0.00       0.00
## 1740       12000.00        11.93              0.00       0.00
## 1745        7000.00       112.24              0.00       0.00
## 1746       30000.00      1571.64              0.00       0.00
## 1758       24500.00       812.30              0.00       0.00
## 1769       10000.00       774.54              0.00       0.00
## 1778       15000.00       242.63              0.00       0.00
## 1793        7500.00        43.81              0.00       0.00
## 1795        4000.00        66.95              0.00       0.00
## 1797       15000.00       239.13              0.00       0.00
## 1800         125.06        82.07              0.00       0.00
## 1807       12400.00       408.86              0.00       0.00
## 1815       12000.00       299.75              0.00       0.00
## 1818        3500.00       106.43              0.00       0.00
## 1826       12000.00       542.91              0.00       0.00
## 1827       35000.00       104.83              0.00       0.00
## 1835        7000.00       183.77              0.00       0.00
## 1837       10000.00        12.78              0.00       0.00
## 1840       10000.00       305.00              0.00       0.00
## 1845       35000.00       765.35              0.00       0.00
## 1851       13000.00       444.28              0.00       0.00
## 1859       10000.00       601.77              0.00       0.00
## 1863       13500.00       110.70              0.00       0.00
## 1878       19200.00       198.41              0.00       0.00
## 1903       16500.00       915.21              0.00       0.00
## 1909        6500.00       434.35              0.00       0.00
## 1914       10000.00       925.94              0.00       0.00
## 1928         160.25       374.47              0.00       0.00
## 1947        8000.00       374.48              0.00       0.00
## 1953        5500.00        81.26              0.00       0.00
## 1955       12000.00       284.13              0.00       0.00
## 1965       35000.00      2967.32              0.00       0.00
## 1978       25000.00        12.24              0.00       0.00
## 1980       10000.00       502.23              0.00       0.00
## 2007       16000.00       103.23              0.00       0.00
## 2009       10000.00       572.87              0.00       0.00
## 2031        5000.00        64.53              0.00       0.00
## 2040        3000.00       243.99              0.00       0.00
## 2044       10000.00       421.92              0.00       0.00
## 2049        3600.00        28.64              0.00       0.00
## 2052       15000.00        17.97              0.00       0.00
## 2057       11400.00       402.31              0.00       0.00
## 2059        1500.00        47.99              0.00       0.00
## 2063       11500.00       372.98              0.00       0.00
## 2067        7000.00       219.57              0.00       0.00
## 2097        2000.00        90.54              0.00       0.00
## 2102        6500.00       339.80              0.00       0.00
## 2106       22000.00       948.59              0.00       0.00
## 2111       10000.00       314.47              0.00       0.00
## 2112        2250.00       135.94              0.00       0.00
## 2113       25500.00         9.28              0.00       0.00
## 2118        9000.00        61.28              0.00       0.00
## 2120        5000.00        81.20              0.00       0.00
## 2122        4000.00         2.48              0.00       0.00
## 2125        3025.00        18.69              0.00       0.00
```

```
## 2130        4000.00        328.90              0.00       0.00
## 2133       19000.00       1214.10              0.00       0.00
## 2139       10000.00        838.50              0.00       0.00
## 2144        1000.00          8.96              0.00       0.00
## 2156       15000.00          4.00              0.00       0.00
## 2160        4000.00        193.59              0.00       0.00
## 2182       21175.00         11.21              0.00       0.00
## 2183       20000.00        984.80              0.00       0.00
## 2186        8000.00        293.83              0.00       0.00
## 2210        7000.00         94.77              0.00       0.00
## 2221       14000.00        493.16              0.00       0.00
## 2233          19.43        165.67             15.00       0.00
## 2235       18000.00        252.75              0.00       0.00
## 2240        4800.00         35.75              0.00       0.00
## 2247        3000.00         88.32              0.00       0.00
## 2249       10000.00        481.52              0.00       0.00
## 2251       12000.00        347.18              0.00       0.00
## 2261        6000.00        173.55              0.00       0.00
## 2262        7625.00        389.68              0.00       0.00
## 2275        3000.00         16.28              0.00       0.00
## 2284       15000.00       1086.43              0.00       0.00
## 2313       16800.00       1234.97              0.00       0.00
## 2314        6000.00        344.39              0.00       0.00
## 2332        4200.00        165.18              0.00       0.00
## 2333           0.00          0.00              0.00       0.00
## 2334       10000.00        493.47              0.00       0.00
## 2344        6000.00        445.67              0.00       0.00
## 2346       10000.00        852.97              0.00       0.00
## 2349       10000.00         88.43              0.00       0.00
## 2352        5000.00        123.09              0.00       0.00
## 2359       12000.00        892.91              0.00       0.00
## 2364        7000.00        122.11              0.00       0.00
## 2371       12000.00        640.13              0.00       0.00
## 2380       15000.00       1287.15             20.24       0.00
## 2388        4765.86       1782.81              0.00       0.00
## 2398        1200.00         95.90              0.00       0.00
## 2400         175.08        123.74              0.00       0.00
## 2401        9800.00        487.45              0.00       0.00
## 2408       10000.00        186.24              0.00       0.00
## 2410       10000.00        310.49              0.00       0.00
## 2415         158.73        104.82              0.00       0.00
## 2424       35000.00       1778.63              0.00       0.00
## 2427        5125.00         55.85              0.00       0.00
## 2428        7000.00          0.00              0.00       0.00
## 2445        3500.00         94.09              0.00       0.00
## 2454        3000.00        181.68              0.00       0.00
## 2458        2000.00         53.24              0.00       0.00
## 2459        5000.00        175.58              0.00       0.00
## 2461        2500.00         97.99              0.00       0.00
## 2475        2000.00         85.26              0.00       0.00
## 2479        4000.00        414.33              0.00       0.00
## 2482        3000.00        292.11              0.00       0.00
## 2497       16000.00        469.52              0.00       0.00
## 2506       14000.00        394.34              0.00       0.00
## 2508       10000.00        313.72              0.00       0.00
## 2518        5000.00        272.40              0.00       0.00
## 2521       30000.00       2721.03              0.00       0.00
## 2526       10000.00        743.98              0.00       0.00
## 2528       12000.00        130.36              0.00       0.00
## 2532       15000.00        911.84              0.00       0.00
## 2534       20000.00        472.88              0.00       0.00
## 2537        5000.00        491.16              0.00       0.00
## 2543        3000.00         91.94              0.00       0.00
## 2555       10000.00        539.10              0.00       0.00
## 2559       12000.00        268.92              0.00       0.00
## 2565       35000.00        589.15              0.00       0.00
## 2569       16800.00        424.02              0.00       0.00
## 2575         996.19        713.90              0.00       0.00
## 2577        4000.00        122.85              0.00       0.00
## 2584       10725.00        381.80              0.00       0.00
## 2586        2400.00         29.53              0.00       0.00
## 2610       15000.00        417.25              0.00       0.00
## 2621        8000.00        419.37              0.00       0.00
## 2634        9600.00        973.66              0.00       0.00
## 2646        6000.00         56.88              0.00       0.00
## 2653        2800.00         27.01              0.00       0.00
## 2656       13000.00        754.47              0.00       0.00
## 2664        8000.00        288.36              0.00       0.00
## 2668        3600.00        122.62              0.00       0.00
## 2669        3500.00        213.27              0.00       0.00
## 2675       18000.00         16.64              0.00       0.00
## 2676       38400.00       1995.27              0.00       0.00
## 2685       20000.00       1471.70              0.00       0.00
## 2699       10000.00        261.19              0.00       0.00
## 2706        1500.00         30.38              0.00       0.00
## 2711        8000.00        305.12              0.00       0.00
## 2717       14000.00        776.53              0.00       0.00
## 2719        8725.00        367.40              0.00       0.00
## 2720       20000.00        935.52              0.00       0.00
## 2728       40000.00       1866.06              0.00       0.00
## 2737         172.45         73.98             15.00       0.00
## 2740       18000.00        478.60              0.00       0.00
## 2746        9800.00        523.42              0.00       0.00
## 2748       32000.00       2246.01              0.00       0.00
## 2759        4000.00        201.17              0.00       0.00
## 2760        5500.00         37.17              0.00       0.00
## 2783        6000.00        513.43              0.00       0.00
## 2784        8000.00        168.85              0.00       0.00
```

```
## 2793        25200.00       1417.52              0.00       0.00
## 2794        15000.00       1120.64              0.00       0.00
## 2804        16000.00         15.76              0.00       0.00
## 2809         3481.78        794.84              0.00       0.00
## 2815        14025.00        434.47              0.00       0.00
## 2823        15000.00         12.11              0.00       0.00
## 2828        19200.00       2171.46              0.00       0.00
## 2829          619.40        628.38             31.74       0.00
## 2836        15000.00       1265.00              0.00       0.00
## 2849         7000.00        236.30              0.00       0.00
## 2862        20000.00        321.03              0.00       0.00
## 2864         9500.00        411.74              0.00       0.00
## 2870         5500.00        130.32              0.00       0.00
## 2871         3850.00        102.24             15.00       0.00
## 2881          695.18       1117.55             46.29       0.00
## 2890        11000.00        152.87              0.00       0.00
## 2902        14000.00          8.69              0.00       0.00
## 2904        25600.00       2508.67              0.00       0.00
## 2905        12000.00       1010.20              0.00       0.00
## 2909        13000.00       1005.30              0.00       0.00
## 2910         6000.00        164.36              0.00       0.00
## 2921        10000.00        322.81              0.00       0.00
## 2926         5000.00          3.76              0.00       0.00
## 2937         4500.00        204.71              0.00       0.00
## 2943        18000.00        109.92              0.00       0.00
## 2945        25000.00         13.06              0.00       0.00
## 2953        15000.00        404.29              0.00       0.00
## 2963        35000.00       2477.50              0.00       0.00
## 2964        15000.00        838.50              0.00       0.00
## 2987         5000.00         93.28              0.00       0.00
## 2990        14500.00        575.15              0.00       0.00
## 2996          210.08        186.99              0.00       0.00
## 2997        13000.00        460.27              0.00       0.00
## 2998        35000.00         17.13              0.00       0.00
## 3011         4000.00        226.36              0.00       0.00
## 3013        10000.00        371.59              0.00       0.00
## 3014         8400.00         94.68              0.00       0.00
## 3015         3200.00        277.69              0.00       0.00
## 3019        24000.00        973.57              0.00       0.00
## 3020        12000.00        502.61              0.00       0.00
## 3038         3000.00        121.28              0.00       0.00
## 3046        17000.00        879.39              0.00       0.00
## 3055        10000.00        316.33              0.00       0.00
## 3066        30000.00        929.01              0.00       0.00
## 3068         7200.00        427.44              0.00       0.00
## 3069         6000.00        240.63              0.00       0.00
## 3077        20000.00        568.10              0.00       0.00
## 3091         9650.00        333.32              0.00       0.00
## 3109        23000.00        340.68              0.00       0.00
## 3110         7700.00         73.05              0.00       0.00
## 3111        12800.00        115.01              0.00       0.00
## 3114        14000.00        800.93              0.00       0.00
## 3115         8000.00        295.14              0.00       0.00
## 3127        10000.00        796.22              0.00       0.00
## 3128         1516.40        315.65              0.00       0.00
## 3129        12000.00        234.71              0.00       0.00
## 3139        16000.00        636.31              0.00       0.00
## 3144         2800.00        131.69              0.00       0.00
## 3148        20000.00       2437.82              0.00       0.00
## 3157        30000.00        285.87              0.00       0.00
## 3167         2000.00         18.79              0.00       0.00
## 3168         3500.00        237.74              0.00       0.00
## 3191        40000.00       1052.76              0.00       0.00
## 3192         6000.00        147.12              0.00       0.00
## 3195        15000.00       1233.52              0.00       0.00
## 3197         2000.00         99.70              0.00       0.00
## 3207        15000.00       1028.33              0.00       0.00
## 3220        40000.00       3086.25              0.00       0.00
## 3235         5000.00        208.14              0.00       0.00
## 3240        28025.00       2917.98              0.00       0.00
## 3242        16500.00       1048.13              0.00       0.00
## 3245         4000.00        269.74              0.00       0.00
## 3248         1396.26        839.10              0.00       0.00
## 3249         5000.00         80.69              0.00       0.00
## 3250        27000.00       1404.10              0.00       0.00
## 3253        16000.00        201.84              0.00       0.00
## 3255        10000.00        315.53              0.00       0.00
## 3263         8000.00        128.26              0.00       0.00
## 3264         2000.00         19.76              0.00       0.00
## 3275        21000.00       1040.97              0.00       0.00
## 3284         2053.82       1430.32              0.00       0.00
## 3301          169.59         57.46              0.00       0.00
## 3324         6700.00        144.37              0.00       0.00
## 3327         9600.00         88.84              0.00       0.00
## 3328         9000.00        649.59              0.00       0.00
## 3338         5500.00         64.03              0.00       0.00
## 3340        21000.00        822.31              0.00       0.00
## 3348        10000.00         70.93              0.00       0.00
## 3373         9500.00        332.94              0.00       0.00
## 3375         5600.00        437.58              0.00       0.00
## 3377        20000.00        742.70              0.00       0.00
## 3382         6025.00        208.86              0.00       0.00
## 3385        10000.00        274.80              0.00       0.00
## 3390         3200.00        146.88              0.00       0.00
## 3391          188.21        344.26              0.00       0.00
## 3405        15000.00        333.30              0.00       0.00
## 3414         6000.00        133.64              0.00       0.00
## 3415        12000.00        892.93              0.00       0.00
```

```
## 3418        5000.00         75.18              0.00       0.00
## 3423       20000.00       1035.47              0.00       0.00
## 3437        1200.00          7.31              0.00       0.00
## 3452       11775.00        369.87              0.00       0.00
## 3461          44.29         24.24              0.00       0.00
## 3468       18600.00        954.49             30.54       0.00
## 3470       19000.00        850.48              0.00       0.00
## 3473        2500.00        114.76              0.00       0.00
## 3476       11000.00        491.76              0.00       0.00
## 3478        7400.00         78.15              0.00       0.00
## 3495        6000.00        281.44              0.00       0.00
## 3496         443.91        212.71              0.00       0.00
## 3499        1200.00         55.67              0.00       0.00
## 3512        2000.00         69.53              0.00       0.00
## 3514         692.68        276.15              0.00       0.00
## 3524       20000.00        883.58              0.00       0.00
## 3526         165.98        315.61             27.53       0.00
## 3528       10000.00        231.25              0.00       0.00
## 3529       17000.00       1427.63              0.00       0.00
## 3533       13925.00        674.78              0.00       0.00
## 3549        5000.00        372.00              0.00       0.00
## 3551       12000.00        910.26              0.00       0.00
## 3552        8000.00        590.22              0.00       0.00
## 3563        6000.00         24.86              0.00       0.00
## 3570        6000.00        267.91             15.00       0.00
## 3573         957.23        836.47             45.57       0.00
## 3583       10000.00         29.33              0.00       0.00
## 3587       20000.00       1202.36              0.00       0.00
## 3597       19000.00       1113.24              0.00       0.00
## 3601       14400.00        216.06              0.00       0.00
## 3609       13000.00        649.26              0.00       0.00
## 3618       19200.00       1389.52              0.00       0.00
## 3620       40000.00       2754.11              0.00       0.00
## 3626       32000.00       1859.75              0.00       0.00
## 3627        8500.00        674.23              0.00       0.00
## 3638       35000.00        584.22              0.00       0.00
## 3643        5400.00        409.84              0.00       0.00
## 3647       35000.00       2587.71              0.00       0.00
## 3652        5000.00        433.86              0.00       0.00
## 3654        4025.00        107.89              0.00       0.00
## 3664       15000.00        200.32              0.00       0.00
## 3669        7200.00        512.39              0.00       0.00
## 3676       10500.00        970.16              0.00       0.00
## 3677        6000.00         98.30              0.00       0.00
## 3689         329.90        397.88              0.00       0.00
## 3694       10000.00        517.97              0.00       0.00
## 3695       12000.00        196.15              0.00       0.00
## 3696       25000.00       1813.62              0.00       0.00
## 3724       18200.00       1045.34              0.00       0.00
## 3725        6000.00        352.70              0.00       0.00
## 3753        7000.00        118.80              0.00       0.00
## 3772       13000.00       1029.75              0.00       0.00
## 3792       22000.00        138.59              0.00       0.00
## 3793       21600.00        840.14              0.00       0.00
## 3795         507.52        392.61              0.00       0.00
## 3797       16850.00       1918.04              0.00       0.00
## 3798        8000.00        308.51              0.00       0.00
## 3806         149.29        118.35              0.00       0.00
## 3812       10000.00       1046.68              0.00       0.00
## 3818       15000.00        793.09              0.00       0.00
## 3820        6000.00        370.85              0.00       0.00
## 3823       16000.00        952.80              0.00       0.00
## 3829       12500.00        842.58              0.00       0.00
## 3838       35000.00         60.24              0.00       0.00
## 3842       30000.00       1318.13              0.00       0.00
## 3848        1500.00         49.80              0.00       0.00
## 3863        1111.46       1122.45              0.00       0.00
## 3866       10000.00        580.39              0.00       0.00
## 3867       30000.00        387.78              0.00       0.00
## 3871       10000.00          5.24              0.00       0.00
## 3880           0.00          0.00              0.00       0.00
## 3883       28000.00       1463.16              0.00       0.00
## 3891        6000.00        550.13              0.00       0.00
## 3895       16000.00        630.69              0.00       0.00
## 3896         563.23       1671.64              0.00       0.00
## 3898       20000.00        707.82              0.00       0.00
## 3903        5000.00        110.92              0.00       0.00
## 3916       12000.00        844.56             17.56       0.00
## 3928        4000.00        302.37              0.00       0.00
## 3930        1600.00         98.59              0.00       0.00
## 3940       11000.00        359.84              0.00       0.00
## 3957       20000.00        184.77              0.00       0.00
## 3966        2000.00         95.51              0.00       0.00
## 3992       10000.00        662.60              0.00       0.00
## 3993       19200.00         10.74              0.00       0.00
## 4000       10000.00          9.67              0.00       0.00
## 4004        8200.00        332.64              0.00       0.00
## 4012       18000.00        542.30              0.00       0.00
## 4014       22000.00       1190.66              0.00       0.00
## 4025        4000.00         29.19              0.00       0.00
## 4029        1805.57       2699.06              0.00       0.00
## 4032        9000.00        157.09              0.00       0.00
## 4033       15000.00        463.58              0.00       0.00
## 4059        8000.00        223.61              0.00       0.00
## 4066       35000.00        698.89              0.00       0.00
## 4067       35000.00       1749.71              0.00       0.00
## 4077       19000.00        146.27              0.00       0.00
## 4087       12000.00        355.11              0.00       0.00
```

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## 4088        3000.00        353.76              0.00       0.00
## 4091       35000.00       1320.06              0.00       0.00
## 4102       22000.00        563.31              0.00       0.00
## 4106       10000.00        368.12              0.00       0.00
## 4112         650.04        384.07              0.00       0.00
## 4127          92.68         37.73              0.00       0.00
## 4129       25000.00       1486.87              0.00       0.00
## 4130         187.58         94.86              0.00       0.00
## 4134       12000.00        228.41              0.00       0.00
## 4145           0.00          0.00              0.00       0.00
## 4156        9000.00        294.62              0.00       0.00
## 4158       30000.00         13.14              0.00       0.00
## 4166        4000.00        128.77              0.00       0.00
## 4167        5025.00          2.37              0.00       0.00
## 4168       11000.00        221.36              0.00       0.00
## 4171       25000.00       1733.71              0.00       0.00
## 4176       20000.00       1658.60              0.00       0.00
## 4182        8000.00        240.51              0.00       0.00
## 4183       28500.00       3324.31              0.00       0.00
## 4184         139.85        309.65              0.00       0.00
## 4187       35000.00        796.00              0.00       0.00
## 4190       10000.00        510.12              0.00       0.00
## 4192       25000.00       1620.20              0.00       0.00
## 4195       16000.00       1814.07              0.00       0.00
## 4218         845.35        295.30              0.00       0.00
## 4223        5400.00        374.08              0.00       0.00
## 4226       12000.00        521.03              0.00       0.00
## 4227       20000.00        802.76              0.00       0.00
## 4242        8500.00         78.85              0.00       0.00
## 4244        5000.00        188.82              0.00       0.00
## 4246       14000.00       1550.22              0.00       0.00
## 4250        4000.00        153.37              0.00       0.00
## 4264       20000.00       1989.74              0.00       0.00
## 4276        5500.00        457.47              0.00       0.00
## 4281        2500.00        113.95              0.00       0.00
## 4288       10000.00        970.88              0.00       0.00
## 4296        3200.00        262.64              0.00       0.00
## 4299       17000.00        417.65              0.00       0.00
## 4302        6500.00         64.33              0.00       0.00
## 4312       10000.00        266.08              0.00       0.00
## 4315       35000.00        503.05              0.00       0.00
## 4319       24000.00       1607.10              0.00       0.00
## 4327       10000.00       1103.07              0.00       0.00
## 4329        1200.00          2.05              0.00       0.00
## 4332       12000.00        142.12              0.00       0.00
## 4339        3500.00        245.54              0.00       0.00
## 4340        8000.00        369.08              0.00       0.00
## 4343        7500.00          3.16              0.00       0.00
## 4345       17000.00         18.23              0.00       0.00
## 4359         423.73        947.55              0.00       0.00
## 4361        5000.00        118.39              0.00       0.00
## 4366       15000.00        228.06              0.00       0.00
## 4373        3000.00        136.15              0.00       0.00
## 4374       30000.00       5417.42              0.00       0.00
## 4384       30000.00       1002.28              0.00       0.00
## 4393       25000.00       1799.06              0.00       0.00
## 4396        8000.00        121.30              0.00       0.00
## 4409       20000.00       1774.95              0.00       0.00
## 4417        6000.00        145.87              0.00       0.00
## 4422         593.14        137.11              0.00       0.00
## 4434         124.80        301.12              0.00       0.00
## 4438        3500.00        118.67              0.00       0.00
## 4439        5000.00         89.25              0.00       0.00
## 4444       10000.00        226.52              0.00       0.00
## 4446         979.50        189.71              0.00       0.00
## 4454       15600.00        646.24              0.00       0.00
## 4457       10000.00       1735.74             15.00       0.00
## 4460       18000.00       1061.93              0.00       0.00
## 4462        6500.00        426.14              0.00       0.00
## 4467       24000.00        648.45              0.00       0.00
## 4475       15000.00        584.74              0.00       0.00
## 4480        5000.00        177.37              0.00       0.00
## 4493       13000.00       1189.38              0.00       0.00
## 4496       25000.00        320.94              0.00       0.00
## 4508        1500.00         87.03              0.00       0.00
## 4513       10000.00        155.76              0.00       0.00
## 4515       12000.00         67.01              0.00       0.00
## 4521        2000.00         97.41              0.00       0.00
## 4541        8525.00        508.34              0.00       0.00
## 4542       11000.00        422.19              0.00       0.00
## 4549        8500.00        283.17              0.00       0.00
## 4556       32500.00       1046.25              0.00       0.00
## 4559       30000.00        315.62              0.00       0.00
## 4560        7800.00        302.07              0.00       0.00
## 4570        6000.00        211.17              0.00       0.00
## 4572       25000.00       1003.44              0.00       0.00
## 4574        6000.00        334.22              0.00       0.00
## 4578       23000.00       1638.76              0.00       0.00
## 4582       20000.00         54.87              0.00       0.00
## 4596       14000.00        633.56              0.00       0.00
## 4600       24000.00       1372.91              0.00       0.00
## 4612       28750.00        381.76              0.00       0.00
## 4619       30000.00       1338.55              0.00       0.00
## 4628        4000.00        298.98              0.00       0.00
## 4637         223.54         89.45              0.00       0.00
## 4652       21000.00        594.24              0.00       0.00
## 4655       25000.00       1627.83              0.00       0.00
## 4657       18000.00       2838.04              0.00       0.00
```

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## 4666        35000.00       1877.43              0.00       0.00
## 4686        30000.00       1375.69              0.00       0.00
## 4689        10000.00        413.34              0.00       0.00
## 4693        20000.00       3749.91              0.00       0.00
## 4694        22550.00        822.90              0.00       0.00
## 4702        23000.00          8.91              0.00       0.00
## 4705        12000.00        674.77              0.00       0.00
## 4707        20000.00       2308.21              0.00       0.00
## 4713          134.81         66.95              0.00       0.00
## 4716        40000.00       1629.12              0.00       0.00
## 4727          454.81        225.76              0.00       0.00
## 4733        10000.00        639.11              0.00       0.00
## 4740        10000.00        328.08              0.00       0.00
## 4752         4800.00        224.80              0.00       0.00
## 4757         1532.83        326.06              0.00       0.00
## 4759         5250.00         56.58              0.00       0.00
## 4761         6000.00        237.29              0.00       0.00
## 4773        20000.00       1252.91              0.00       0.00
## 4782          131.61        438.84              0.00    2710.25
## 4787            0.00          0.00              0.00     682.97
## 4789        15000.00       1102.26              0.00       0.00
## 4803        10000.00        834.28              0.00       0.00
## 4826         8000.00        161.52              0.00       0.00
## 4827        20000.00       1106.55              0.00       0.00
## 4828         3000.00         44.04              0.00       0.00
## 4855        15000.00        325.74              0.00       0.00
## 4857         6500.00        335.24              0.00       0.00
## 4866        12000.00        372.22              0.00       0.00
## 4869        20700.00          3.05              0.00       0.00
## 4877        10000.00        393.93              0.00       0.00
## 4881        35000.00          8.88              0.00       0.00
## 4883        10000.00        846.23              0.00       0.00
## 4919         5600.00        395.90              0.00       0.00
## 4924         8100.00        709.82              0.00       0.00
## 4932        20000.00        398.28              0.00       0.00
## 4936        10000.00       1241.94              0.00       0.00
## 4939        18000.00        778.09              0.00       0.00
## 4942         9200.00        392.19              0.00       0.00
## 4964        17000.00         15.64              0.00       0.00
## 4969        18000.00        766.96              0.00       0.00
## 4994        22000.00        626.84              0.00       0.00
## 5000          407.51        174.14              0.00       0.00
## 5002        35000.00       2991.11              0.00       0.00
## 5004         3500.00        113.66              0.00       0.00
## 5005        20000.00          6.65              0.00       0.00
## 5012         8400.00         75.57              0.00       0.00
## 5013          454.29        486.12              0.00       0.00
## 5019        12000.00        407.84              0.00       0.00
## 5028        10000.00        612.00              0.00       0.00
## 5033          272.66         48.20              0.00      25.00
## 5056         2500.00          0.00              0.00       0.00
## 5062         1000.00         25.83              0.00       0.00
## 5067        40000.00       1238.47              0.00       0.00
## 5085          403.74        283.00              0.00       0.00
## 5101         1500.00         37.09              0.00       0.00
## 5111         4000.00        142.65              0.00       0.00
## 5113            0.00          0.00              0.00    1754.55
## 5119        18000.00        167.56              0.00       0.00
## 5121          677.29        534.14              0.00       0.00
## 5127        30000.00       2815.06              0.00       0.00
## 5129        12000.00        298.69              0.00       0.00
## 5144        18000.00        622.29              0.00       0.00
## 5146         4800.00        348.90              0.00       0.00
## 5149        21650.00       1044.38              0.00       0.00
## 5153         4000.00         16.50              0.00       0.00
## 5172         9500.00        267.43              0.00       0.00
## 5175          552.35        357.70              0.00      25.00
## 5178        35000.00        712.25              0.00       0.00
## 5189        15000.00       1121.26              0.00       0.00
## 5198        16000.00        666.80              0.00       0.00
## 5199         2500.00         91.51              0.00       0.00
## 5208          195.02        115.22              0.00       0.00
## 5222         6000.00        360.78              0.00       0.00
## 5226        19000.00        666.07              0.00       0.00
## 5227         5000.00        293.63              0.00       0.00
## 5231         5600.00         22.21              0.00       0.00
## 5253         1070.35       2407.48              0.00       0.00
## 5263        11200.00        556.77              0.00       0.00
## 5272        10000.00        297.95              0.00       0.00
## 5280          531.19        111.86              0.00       0.00
## 5288        20000.00        967.48              0.00       0.00
## 5289        20000.00        245.70              0.00       0.00
## 5293        25000.00        886.50              0.00       0.00
## 5296        24000.00       1097.89              0.00       0.00
## 5318         6000.00        432.62              0.00       0.00
## 5323        18000.00        137.27              0.00       0.00
## 5338        13000.00        621.69              0.00       0.00
## 5366          168.03        131.20              0.00       0.00
## 5374        12000.00        296.15              0.00       0.00
## 5378         9600.00        357.15              0.00       0.00
## 5386        35000.00       1477.88              0.00       0.00
## 5391        25000.00         15.12              0.00       0.00
## 5398          182.72         75.46              0.00       0.00
## 5414        10000.00         19.12              0.00       0.00
## 5423        15000.00        247.01              0.00       0.00
## 5426          602.26       1121.06              0.00       0.00
## 5430        11000.00        897.87              0.00       0.00
## 5434         3000.00        212.01              0.00       0.00
```

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## 5439         1514.56        457.30              0.00       0.00
## 5457        16700.00       1559.91              0.00       0.00
## 5461        36000.00        723.17              0.00       0.00
## 5463          859.74        639.16              0.00       0.00
## 5469        10000.00        846.73              0.00       0.00
## 5471         3200.00         32.61              0.00       0.00
## 5487        15000.00        394.41              0.00       0.00
## 5489        13000.00        592.64              0.00       0.00
## 5493         7500.00        295.88              0.00       0.00
## 5495        22000.00        506.03              0.00       0.00
## 5504         1135.73       1387.41              0.00       0.00
## 5512         8500.00        325.18              0.00       0.00
## 5520        21425.00        161.42              0.00       0.00
## 5526        20000.00        721.41              0.00       0.00
## 5528         4500.00         72.60              0.00       0.00
## 5530        20000.00       1240.89              0.00       0.00
## 5542        35000.00         90.36              0.00       0.00
## 5546          242.73        220.85              0.00       0.00
## 5560        20000.00        939.68              0.00       0.00
## 5572          170.63         56.56              0.00       0.00
## 5606        16000.00       1697.50              0.00       0.00
## 5617         9000.00         18.80              0.00       0.00
## 5618         8000.00        443.94              0.00       0.00
## 5631         7000.00        329.31              0.00       0.00
## 5644          278.12        730.14              0.00       0.00
## 5645        12000.00        768.99              0.00       0.00
## 5650        20000.00        133.85              0.00       0.00
## 5652         5000.00        462.20              0.00       0.00
## 5653        40000.00       2590.10              0.00       0.00
## 5655            0.00          0.00              0.00       0.00
## 5657        10000.00        254.27              0.00       0.00
## 5662        13000.00        683.19              0.00       0.00
## 5678        12000.00       1015.63              0.00       0.00
## 5682         5500.00         19.73              0.00       0.00
## 5686        16000.00       2672.92              0.00       0.00
## 5691         3000.00        147.65              0.00       0.00
## 5701         1649.87        780.06              0.00       0.00
## 5702        17000.00       1162.18              0.00       0.00
## 5713        24000.00       1039.14              0.00       0.00
## 5714        30000.00       1855.89              0.00       0.00
## 5719        18000.00        872.13              0.00       0.00
## 5726         9000.00        787.86              0.00       0.00
## 5730         6000.00         63.09              0.00       0.00
## 5735         1345.64        722.90              0.00       0.00
## 5738        23000.00       2694.18             44.46       0.00
## 5740        30000.00       1540.48              0.00       0.00
## 5742          125.90        213.03              0.00       0.00
## 5746         1000.00         85.07              0.00       0.00
## 5748         5600.00        596.74              0.00       0.00
## 5755        30000.00       1634.41              0.00       0.00
## 5774          917.15        547.37              0.00       0.00
## 5780         8000.00        814.02              0.00       0.00
## 5790          310.27        331.63              0.00       0.00
## 5805        20000.00       1681.69              0.00       0.00
## 5813        10000.00        231.25              0.00       0.00
## 5829         6000.00        680.88              0.00       0.00
## 5837        18000.00       2044.66              0.00       0.00
## 5839        16000.00        388.46              0.00       0.00
## 5855          192.49         90.79              0.00     355.55
## 5864        12800.00        782.60              0.00       0.00
## 5871          591.00        460.29              0.00       0.00
## 5879        15000.00        608.20              0.00       0.00
## 5894        20000.00       1278.78              0.00       0.00
## 5900        35000.00       2522.49              0.00       0.00
## 5905        35000.00       3097.11              0.00       0.00
## 5909        16200.00        268.68              0.00       0.00
## 5911         5000.00        245.70              0.00       0.00
## 5920         2500.00        193.41              0.00       0.00
## 5926        11000.00        464.28              0.00       0.00
## 5934        35000.00        957.55              0.00       0.00
## 5937        10000.00        729.01              0.00       0.00
## 5939        25000.00        396.71              0.00       0.00
## 5941        25000.00        375.48              0.00       0.00
## 5945         4500.00        167.82              0.00       0.00
##      collection_recovery_fee last_pymnt_d last_pymnt_amnt next_pymnt_d
## 1                     0.0000     Feb-2019         4553.46
## 13                    0.0000     Jan-2019        10010.06
## 26                    0.0000     Jan-2019        40112.98
## 29                    0.0000     Jan-2019         5626.25
## 56                    0.0000     Jan-2019        15030.72
## 58                    0.0000     Feb-2019          104.77
## 62                    0.0000     Jan-2019         6071.82
## 79                    0.0000     Jan-2019        15392.99
## 81                    0.0000     Jan-2019        10058.50
## 85                    0.0000     Jan-2019         5034.24
## 89                    0.0000     Jan-2019        35282.45
## 94                    0.0000     Jan-2019         1016.28
## 95                    0.0000     Feb-2019         1060.62
## 100                   0.0000     Jan-2019        20143.13
## 123                   0.0000     Feb-2019        10076.21
## 129                   0.0000     Jan-2019         2045.65
## 131                   0.0000     Jan-2019         4542.95
## 146                   0.0000     Dec-2018        21026.10
## 157                   0.0000     Jan-2019         4912.50
## 177                   0.0000     Feb-2019         9850.85
## 188                   0.0000     Jan-2019        40599.25
## 189                   0.0000     Dec-2018         5514.99
## 209                   0.0000     Dec-2018        25131.53
```

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## 211                    0.0000     Jan-2019        13358.58
## 214                    0.0000     Jan-2019         8229.30
## 223                    0.0000     Feb-2019        14834.41
## 228                    0.0000     Jan-2019         3563.86
## 237                    0.0000     Dec-2018        20068.87
## 256                    0.0000     Jan-2019            7.40
## 266                    0.0000     Dec-2018        20269.00
## 280                    0.0000     Dec-2018        25386.00
## 282                    0.0000     Jan-2019         9845.76
## 288                    0.0000     Dec-2018          186.92
## 289                    0.0000     Dec-2018        12090.73
## 291                    0.0000     Dec-2018         4276.00
## 293                    0.0000     Dec-2018        16193.59
## 299                    0.0000     Dec-2018         2529.14
## 300                    0.0000     Dec-2018         4045.60
## 303                    0.0000     Jan-2019         4863.30
## 320                    0.0000     Nov-2018        30107.58
## 333                    0.0000     Feb-2019           80.30
## 339                    0.0000     Nov-2018         7227.54
## 342                    0.0000     Dec-2018        30983.19
## 363                    0.0000     Feb-2019           51.08
## 372                    0.0000     Feb-2019           64.48
## 380                    0.0000     Dec-2018        40368.80
## 398                    0.0000     Dec-2018         6534.01
## 401                    0.0000     Feb-2019        30111.30
## 404                    0.0000     Jan-2019         5959.14
## 437                    0.0000     Nov-2018         3609.14
## 447                    0.0000     Nov-2018        10012.43
## 448                    0.0000     Feb-2019        15684.51
## 449                    0.0000     Dec-2018        27215.64
## 457                    0.0000     Nov-2018        24120.62
## 463                    0.0000     Jan-2019        22579.06
## 472                    0.0000     Jan-2019        19936.92
## 478                    0.0000     Nov-2018         9028.30
## 489                    0.0000     Dec-2018        12179.28
## 492                    0.0000     Jan-2019          236.78
## 498                    0.0000     Feb-2019        33183.40
## 510                    0.0000     Dec-2018        11273.00
## 511                    0.0000     Nov-2018        30084.12
## 521                    0.0000     Nov-2018         8018.20
## 522                    0.0000     Jan-2019         1827.27
## 534                    0.0000     Nov-2018        15016.17
## 535                    0.0000     Jan-2019        20413.76
## 538                    0.0000     Dec-2018         7906.34
## 539                    0.0000     Jan-2019        14786.72
## 554                    0.0000     Nov-2018        20043.22
## 557                    0.0000     Nov-2018        17020.69
## 573                    0.0000     Feb-2019         1960.98
## 574                    0.0000     Feb-2019        23992.53
## 586                    0.0000     Dec-2018        40786.32
## 595                    0.0000     Jan-2019        16077.99
## 599                    0.0000     Nov-2018         9506.09
## 603                    0.0000     Jan-2019        16750.29
## 604                    0.0000     Jan-2019         4964.01
## 633                    0.0000     Nov-2018            5.44
## 643                    0.0000     Nov-2018         3632.43
## 657                    0.0000     Nov-2018        18120.41
## 661                    0.0000     Nov-2018        15034.90
## 666                    0.0000     Dec-2018           17.20
## 686                    0.0000     Nov-2018         2611.74
## 693                    0.0000     Oct-2018         4808.76
## 701                    0.0000     Nov-2018        10168.28
## 714                    0.0000     Oct-2018         6011.57
## 723                    0.0000     Jan-2019        17532.78
## 732                    0.0000     Oct-2018        12034.82
## 733                    0.0000     Jan-2019         9586.03
## 735                    0.0000     Nov-2018        19956.26
## 736                    0.0000     Nov-2018         2040.84
## 741                    0.0000     Nov-2018        20225.09
## 742                    0.0000     Nov-2018         5155.50
## 751                    0.0000     Oct-2018        19108.80
## 756                    0.0000     Nov-2018        15380.49
## 759                    0.0000     Jan-2019         2900.85
## 762                    0.0000     Dec-2018        30503.64
## 763                    0.0000     Jan-2019         5763.46
## 765                    0.0000     Feb-2019           70.13
## 768                    0.0000     Nov-2018         2884.39
## 773                    0.0000     Jan-2019         9645.99
## 774                    0.0000     Nov-2018         8140.47
## 776                    0.0000     Jan-2019        25480.90
## 783                    0.0000     Nov-2018         5060.50
## 785                    0.0000     Jan-2019         6724.33
## 842                    0.0000     Oct-2018        12518.38
## 864                    0.0000     Oct-2018        16053.87
## 865                    0.0000     Feb-2019         7203.16
## 868                    0.0000     Feb-2019         5276.36
## 876                    0.0000     Jan-2019        34352.56
## 888                    0.0000     Nov-2018         5643.43
## 927                    0.0000     Feb-2019         3339.52
## 929                    0.0000     Dec-2018        19748.75
## 941                    0.0000     Jan-2019        17169.47
## 944                    0.0000     Jan-2019           80.95
## 947                    0.0000     Oct-2018        35050.90
## 948                    0.0000     Oct-2018         7548.39
## 959                    0.0000     Jan-2019        11945.45
## 970                    0.0000     Nov-2018        35683.59
## 973                    0.0000     Dec-2018        25079.50
## 979                    0.0000     Nov-2018        12142.18
```

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## 980                    0.0000     Dec-2018         5989.44
## 981                    0.0000     Oct-2018        18467.86
## 987                    0.0000     Jan-2019        11195.12
## 991                    0.0000     Nov-2018         4075.60
## 1001                   0.0000     Jan-2019         3098.83
## 1004                   0.0000     Nov-2018         3583.19
## 1010                   0.0000     Oct-2018        15053.04
## 1016                   0.0000     Oct-2018        16058.68
## 1018                   0.0000     Jan-2019        23950.44
## 1019                   0.0000     Feb-2019         1865.02
## 1042                   0.0000     Jan-2019           33.44
## 1079                   0.0000     Dec-2018          159.81
## 1087                   0.0000     Oct-2018         1497.79
## 1093                   0.0000     Dec-2018        35045.86
## 1103                   0.0000     Oct-2018        15117.12
## 1127                   0.0000     Oct-2018        12008.89
## 1132                   0.0000     Nov-2018           21.24
## 1137                   0.0000     Oct-2018        15305.86
## 1138                   0.0000     Nov-2018         3189.65
## 1140                   0.0000     Dec-2018            0.78
## 1144                   0.0000     Oct-2018         7053.90
## 1145                   0.0000     Nov-2018        11295.15
## 1154                   0.0000     Oct-2018        10016.47
## 1156                   0.0000     Nov-2018        19280.87
## 1157                   0.0000     Oct-2018        15029.95
## 1160                   0.0000     Nov-2018        15188.05
## 1162                   0.0000     Nov-2018        10205.18
## 1165                   0.0000     Nov-2018        10481.06
## 1176                   0.0000     Jan-2019           88.98
## 1180                   0.0000     Jan-2019         4500.79
## 1182                   0.0000     Jan-2019        25139.79
## 1183                   0.0000     Dec-2018          369.90
## 1184                   0.0000     Oct-2018         5050.03
## 1185                   0.0000     Nov-2018         8177.07
## 1201                   0.0000     Oct-2018        20186.25
## 1204                   0.0000     Oct-2018          243.93
## 1234                   0.0000     Feb-2019         8512.92
## 1235                   0.0000     Sep-2018        16029.31
## 1236                   0.0000     Dec-2018        12014.04
## 1240                   0.0000     Dec-2018        20129.50
## 1288                   0.0000     Dec-2018         5947.01
## 1289                   0.0000     Jan-2019         7452.51
## 1297                   0.0000     Oct-2018        21143.49
## 1303                   0.0000     Jan-2019        20042.76
## 1305                   0.0000                         0.00
## 1318                   0.0000     Jan-2019         3348.54
## 1331                   0.0000     Feb-2019           49.01
## 1332                   0.0000     Oct-2018         5693.93
## 1333                   0.0000     Oct-2018         5098.85
## 1350                   0.0000     Sep-2018        30098.71
## 1358                   0.0000     Dec-2018         4656.53
## 1359                   0.0000     Nov-2018          952.85
## 1364                   0.0000     Dec-2018        12105.27
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## 1372                   0.0000     Jan-2019        17282.64
## 1377                   0.0000     Jan-2019        38516.49
## 1381                   0.0000     Nov-2018         5961.98
## 1387                   0.0000     Feb-2019        15908.46
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## 1417                   0.0000     Jan-2019        17978.95
## 1423                   0.0000     Oct-2018         7582.36
## 1426                   0.0000     Oct-2018         5073.44
## 1429                   0.0000     Feb-2019         5498.40
## 1436                   0.0000     Jan-2019           90.68
## 1448                   0.0000     Oct-2018        12596.25
## 1454                   0.0000     Dec-2018         6737.24
## 1458                   0.0000     Nov-2018        11787.84
## 1467                   0.0000     Nov-2018        32050.55
## 1471                   0.0000     Nov-2018        14765.43
## 1474                   0.0000     Oct-2018         4579.97
## 1491                   0.0000     Nov-2018         7873.00
## 1495                   0.0000     Jan-2019          280.92
## 1498                   0.0000     Nov-2018         4946.93
## 1508                   0.0000     Feb-2019         9889.73
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## 1528                   0.0000     Sep-2018        33076.64
## 1536                   0.0000     Jan-2019         4565.71
## 1541                   0.0000     Nov-2018        30319.59
## 1549                   0.0000     Dec-2018         9885.14
## 1556                   0.0000     Sep-2018        12067.53
## 1561                   0.0000     Nov-2018         6890.72
## 1563                   0.0000     Feb-2019           39.06
## 1565                   0.0000     Feb-2019         8895.53
## 1586                   0.0000     Dec-2018         4677.11
## 1587                   0.0000     Sep-2018         3405.03
## 1589                   0.0000     Jan-2019        15801.64
## 1602                   0.0000     Oct-2018         5213.93
## 1615                   0.0000     Jan-2019         5655.41
## 1625                   0.0000     Nov-2018         8169.54
## 1630                   0.0000     Sep-2018        24075.47
## 1635                   0.0000     Nov-2018         1496.07
## 1654                   0.0000     Jan-2019        17133.23
## 1655                   0.0000     Oct-2018          116.96
## 1670                   0.0000     Sep-2018        16897.72
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## 1687                   0.0000     Dec-2018         4305.85
## 1690                   0.0000     Dec-2018         4923.60
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## 1694                 0.0000     Sep-2018         8041.50
## 1695                 0.0000     Sep-2018         7565.71
## 1697                 0.0000     Sep-2018        16031.20
## 1698                 0.0000     Nov-2018         4978.33
## 1705                 0.0000     Nov-2018        20416.55
## 1709                 0.0000     Nov-2018         9861.95
## 1719                 0.0000     Sep-2018        10019.50
## 1720                 0.0000     Oct-2018        11083.28
## 1731                 0.0000     Dec-2018        30603.49
## 1736                 0.0000     Oct-2018         8658.31
## 1740                 0.0000     Sep-2018        12029.47
## 1745                 0.0000     Dec-2018         5099.74
## 1746                 0.0000     Nov-2018        30742.76
## 1758                 0.0000     Jan-2019          142.32
## 1769                 0.0000     Dec-2018         9932.10
## 1778                 0.0000     Oct-2018          117.50
## 1793                 0.0000     Sep-2018         7556.33
## 1795                 0.0000     Sep-2018         4073.38
## 1797                 0.0000     Nov-2018        14335.15
## 1800                 0.0000     Sep-2018          219.76
## 1807                 0.0000     Oct-2018        12537.24
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## 1818                 0.0000     Jan-2019         3174.19
## 1826                 0.0000     Jan-2019        10982.19
## 1827                 0.0000     Sep-2018        35139.77
## 1835                 0.0000     Nov-2018         6745.36
## 1837                 0.0000     Aug-2018        10020.82
## 1840                 0.0000     Dec-2018         9363.20
## 1845                 0.0000     Nov-2018        34542.97
## 1851                 0.0000     Oct-2018        13007.44
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## 1863                 0.0000     Dec-2018         3581.17
## 1878                 0.0000     Sep-2018        19416.45
## 1903                 0.0000     Jan-2019        15906.92
## 1909                 0.0000     Dec-2018         6226.98
## 1914                 0.0000     Jan-2019         9403.48
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## 1947                 0.0000     Dec-2018           80.62
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## 1980                 0.0000     Jan-2019         9195.06
## 2007                 0.0000     Sep-2018        16122.89
## 2009                 0.0000     Nov-2018        10056.24
## 2031                 0.0000     Sep-2018         5068.70
## 2040                 0.0000     Feb-2019           32.02
## 2044                 0.0000     Nov-2018         9968.63
## 2049                 0.0000     Sep-2018         3630.33
## 2052                 0.0000     Aug-2018        15029.27
## 2057                 0.0000     Dec-2018        11027.44
## 2059                 0.0000     Sep-2018         1549.85
## 2063                 0.0000     Oct-2018        11602.77
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## 2097                 0.0000     Nov-2018         1951.41
## 2102                 0.0000     Jan-2019         5985.97
## 2106                 0.0000     Oct-2018        22185.88
## 2111                 0.0000     Nov-2018         9670.51
## 2112                 0.0000     Jan-2019         2075.74
## 2113                 0.0000     Aug-2018        25523.56
## 2118                 0.0000     Sep-2018         9065.51
## 2120                 0.0000     Nov-2018         2768.05
## 2122                 0.0000     Aug-2018         4007.45
## 2125                 0.0000     Sep-2018         3045.45
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## 2133                 0.0000     Jan-2019        17632.77
## 2139                 0.0000     Dec-2018          182.74
## 2144                 0.0000     Sep-2018         1009.86
## 2156                 0.0000     Aug-2018        15017.07
## 2160                 0.0000     Jan-2019         3665.58
## 2182                 0.0000     Aug-2018        21224.18
## 2183                 0.0000     Nov-2018        19971.09
## 2186                 0.0000     Dec-2018         7512.10
## 2210                 0.0000     Sep-2018         7098.84
## 2221                 0.0000     Oct-2018        13995.13
## 2233                 0.0000     Nov-2018          204.64
## 2235                 0.0000     Nov-2018         4109.93
## 2240                 0.0000     Jan-2019           42.95
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## 2275                 0.0000     Sep-2018           18.78
## 2284                 0.0000     Feb-2019        14335.04
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## 2314                 0.0000     Jan-2019         5538.27
## 2332                 0.0000     Dec-2018         3957.45
## 2333                 0.0000                         0.00
## 2334                 0.0000     Dec-2018         9817.31
## 2344                 0.0000     Jan-2019         5602.34
## 2346                 0.0000     Feb-2019           41.56
## 2349                 0.0000     Aug-2018        10104.51
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## 2359                 0.0000     Jan-2019        11160.12
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## 2371                 0.0000     Nov-2018        12020.18
## 2380                 0.0000     Feb-2019           53.69
```

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## 2388                 0.0000     Jan-2019         1320.00
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## 2408                 0.0000     Dec-2018         5275.47
## 2410                 0.0000     Nov-2018         9669.99
## 2415                 0.0000     Sep-2018          271.04
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## 2459                 0.0000     Dec-2018         4693.79
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## 2475                 0.0000     Nov-2018         1842.02
## 2479                 0.0000     Dec-2018         3906.20
## 2482                 0.0000     Jan-2019         2844.15
## 2497                 0.0000     Nov-2018        15423.79
## 2506                 0.0000     Jan-2019        13313.57
## 2508                 0.0000     Nov-2018         9649.49
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## 2521                 0.0000     Jan-2019        29643.68
## 2526                 0.0000     Dec-2018         9589.41
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## 2532                 0.0000     Jan-2019        13843.84
## 2534                 0.0000     Sep-2018        20490.81
## 2537                 0.0000     Feb-2019         4563.06
## 2543                 0.0000     Aug-2018         3098.58
## 2555                 0.0000     Nov-2018         9500.22
## 2559                 0.0000     Oct-2018        12025.13
## 2565                 0.0000     Jan-2019         4555.97
## 2569                 0.0000     Nov-2018        16142.17
## 2575                 0.0000     Oct-2018          880.71
## 2577                 0.0000     Jan-2019         1681.23
## 2584                 0.0000     Nov-2018           63.03
## 2586                 0.0000     Aug-2018         2432.92
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## 2621                 0.0000     Jan-2019         7360.97
## 2634                 0.0000     Jan-2019         8825.71
## 2646                 0.0000     Aug-2018         6060.24
## 2653                 0.0000     Aug-2018           29.26
## 2656                 0.0000     Jan-2019        12546.55
## 2664                 0.0000     Jan-2019         7058.28
## 2668                 0.0000     Dec-2018         2893.19
## 2669                 0.0000     Nov-2018         3346.51
## 2675                 0.0000     Aug-2018        18045.58
## 2676                 0.0000     Nov-2018        37685.49
## 2685                 0.0000     Jan-2019        18075.94
## 2699                 0.0000     Jan-2019         9036.03
## 2706                 0.0000     Aug-2018         1531.63
## 2711                 0.0000     Nov-2018         1505.22
## 2717                 0.0000     Dec-2018        13496.76
## 2719                 0.0000     Oct-2018         8792.87
## 2720                 0.0000     Nov-2018        19565.19
## 2728                 0.0000     Feb-2019          513.05
## 2737                 0.0000     Oct-2018          132.00
## 2740                 0.0000     Oct-2018        17319.49
## 2746                 0.0000     Nov-2018           87.62
## 2748                 0.0000     Jan-2019        30509.68
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## 2784                 0.0000     Oct-2018          454.21
## 2793                 0.0000     Oct-2018        25312.35
## 2794                 0.0000     Jan-2019        13933.27
## 2804                 0.0000     Jul-2018        16064.24
## 2809                 0.0000     Sep-2018         1084.13
## 2815                 0.0000     Jan-2019        12733.11
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## 2909                 0.0000     Jan-2019        12436.55
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## 2937                 0.0000     Dec-2018            5.10
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## 2945                 0.0000     Jul-2018        25033.16
## 2953                 0.0000     Oct-2018        14430.49
## 2963                 0.0000     Dec-2018        34093.92
## 2964                 0.0000     Oct-2018        14755.50
## 2987                 0.0000     Oct-2018         4785.54
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## 2997                 0.0000     Sep-2018        13114.08
## 2998                 0.0000     Jul-2018        35043.50
```

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## 3011                 0.0000     Nov-2018         3802.80
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## 3128                 0.0000     Aug-2018         1854.60
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## 3192                 0.0000     Aug-2018         6153.43
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## 3207                 0.0000     Dec-2018        13993.96
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## 3235                 0.0000     Dec-2018         4564.82
## 3240                 0.0000     Feb-2019        24813.83
## 3242                 0.0000     Dec-2018        15290.55
## 3245                 0.0000     Jan-2019         3601.27
## 3248                 0.0000     Sep-2018         1132.31
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## 3250                 0.0000     Dec-2018        24865.22
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## 3327                 0.0000     Sep-2018          400.97
## 3328                 0.0000     Jan-2019         8115.76
## 3338                 0.0000     Aug-2018         5570.18
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## 3385                 0.0000     Oct-2018         9631.73
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## 3391                 0.0000     Sep-2018          275.34
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## 3415                 0.0000     Jan-2019        11479.90
## 3418                 0.0000     Nov-2018          407.63
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## 3573                 0.0000     Sep-2018          956.93
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## 3587                 0.0000     Jan-2019        17920.40
## 3597                 0.0000     Jan-2019          140.86
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## 3609                 0.0000     Sep-2018        13287.28
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## 3626                 0.0000     Oct-2018        31578.67
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## 3627                 0.0000     Jan-2019         7185.93
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## 3812                 0.0000     Feb-2019         8433.95
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## 3883                 0.0000     Nov-2018        25755.03
## 3891                 0.0000     Dec-2018         5643.80
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## 3993                 0.0000     Jun-2018        19227.26
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## 4059                 0.0000     Aug-2018         7968.17
## 4066                 0.0000     Jul-2018        35755.36
## 4067                 0.0000     Nov-2018        32184.44
## 4077                 0.0000     Jul-2018        19166.49
## 4087                 0.0000     Nov-2018        10959.00
## 4088                 0.0000     Dec-2018         2781.49
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## 1185         Jan-2019                    0          1      Individual
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## 5056          May-2018                    0          1      Individual
## 5062          Feb-2019                    0          1      Individual
## 5067          Sep-2018                    0          1      Individual
## 5085          Aug-2018                    0          1      Individual
## 5101          Nov-2018                    0          1      Individual
## 5111          Jan-2019                    0          1      Individual
## 5113          Nov-2018                    0          1      Individual
## 5119          Jul-2018                    0          1      Individual
## 5121          Feb-2019                    0          1      Individual
## 5127          Jan-2019                    0          1      Individual
## 5129          Oct-2018                    0          1      Individual
## 5144          Sep-2018                    0          1      Individual
## 5146          Feb-2019                    0          1      Individual
## 5149          Feb-2019                    0          1      Individual
## 5153          Jul-2018                    0          1      Individual
## 5172          Sep-2018                    0          1      Individual
## 5175          Feb-2019                    0          1      Individual
## 5178          Nov-2018                    0          1      Individual
```

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## 5189          Jan-2019                        0          1      Individual
## 5198          Jan-2019                        0          1      Individual
## 5199          Aug-2018                        0          1      Individual
## 5208          Feb-2019                        0          1      Individual
## 5222          Dec-2018                        0          1      Individual
## 5226          Dec-2018                        0          1      Individual
## 5227          Dec-2018                        0          1      Individual
## 5231          May-2018                        0          1      Individual
## 5253          Jan-2019                        0          1      Individual
## 5263          Oct-2018                        0          1      Individual
## 5272          Feb-2019                        0          1      Individual
## 5280          Feb-2019                        0          1      Individual
## 5288          Feb-2019                        0          1      Individual
## 5289          Jul-2018                        0          1      Individual
## 5293          Jan-2019                        0          1      Individual
## 5296          Sep-2018                        0          1      Individual
## 5318          Feb-2019                        0          1      Individual
## 5323          Jan-2019                        0          1      Individual
## 5338          Feb-2019                        0          1      Individual
## 5366          Dec-2018                        1          1      Individual
## 5374          Feb-2019                        0          1      Individual
## 5378          Feb-2019                        0          1      Individual
## 5386          Dec-2018                        0          1      Individual
## 5391          May-2018                        0          1      Individual
## 5398          Dec-2018                        0          1      Individual
## 5414          Jun-2018                        0          1      Individual
## 5423          Feb-2019                        0          1      Individual
## 5426          Jan-2019                        0          1      Individual
## 5430          Feb-2019                        0          1      Individual
## 5434          Feb-2019                        0          1      Individual
## 5439          Feb-2019                        0          1      Individual
## 5457          Feb-2019                        0          1      Individual
## 5461          Feb-2019                        0          1      Individual
## 5463          Feb-2019                        0          1      Individual
## 5469          Feb-2019                        0          1      Individual
## 5471          Feb-2019                        0          1      Individual
## 5487          Aug-2018                        0          1      Individual
## 5489          Sep-2018                        0          1      Individual
## 5493          Oct-2018                        0          1      Individual
## 5495          Oct-2018                        0          1      Individual
## 5504          Feb-2019                        0          1      Individual
## 5512          Oct-2018                        0          1      Individual
## 5520          Dec-2018                        0          1      Individual
## 5526          Aug-2018                        0          1      Individual
## 5528          Feb-2019                        0          1      Individual
## 5530          Jan-2019                        0          1      Individual
## 5542          May-2018                        0          1      Individual
## 5546          Oct-2018                        0          1      Individual
## 5560          Jan-2019                        1          1      Individual
## 5572          Dec-2018                        0          1      Individual
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## 5644          Feb-2019                        0          1      Individual
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## 5650          May-2018                        0          1      Individual
## 5652          Feb-2019                        1          1      Individual
## 5653          Jan-2019                        0          1      Individual
## 5655          Feb-2019                        0          1      Individual
## 5657          Nov-2018                        0          1      Individual
## 5662          Feb-2019                        0          1      Individual
## 5678          Jan-2019                        0          1      Individual
## 5682          May-2018                        0          1      Individual
## 5686          Jan-2019                        0          1      Individual
## 5691          Feb-2019                        0          1      Individual
## 5701          Feb-2019                        0          1      Individual
## 5702          Feb-2019                        0          1      Individual
## 5713          Feb-2019                        0          1      Individual
## 5714          Feb-2019                        0          1      Individual
## 5719          Feb-2019                        0          1      Individual
## 5726          Jan-2019                        0          1      Individual
## 5730          Jul-2018                        0          1      Individual
## 5735          Feb-2019                        0          1      Individual
## 5738          Nov-2018                        0          1      Individual
## 5740          Feb-2019                        0          1      Individual
## 5742          Dec-2018                        0          1      Individual
## 5746          Feb-2019                        0          1      Individual
## 5748          Jan-2019                        0          1      Individual
## 5755          Aug-2018                        0          1      Individual
## 5774          Feb-2019                        0          1      Individual
## 5780          Jan-2019                        0          1      Individual
## 5790          Feb-2019                        0          1      Individual
## 5805          Feb-2019                        0          1      Individual
## 5813          Jan-2019                        0          1      Individual
## 5829          Jan-2019                        0          1      Individual
## 5837          Feb-2019                        0          1      Individual
## 5839          Feb-2019                        0          1      Individual
## 5855          Feb-2019                        0          1      Individual
## 5864          Oct-2018                        0          1      Individual
## 5871          Jan-2019                        0          1      Individual
## 5879          Feb-2019                        0          1      Individual
## 5894          Jan-2019                        0          1      Individual
## 5900          Feb-2019                        0          1      Individual
## 5905          Feb-2019                        0          1      Individual
## 5909          Jan-2019                        0          1      Individual
## 5911          Sep-2018                        0          1      Individual
## 5920          Oct-2018                        0          1      Individual
```

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## 5926           Sep-2018                        0           1       Individual
## 5934           Feb-2019                        0           1       Individual
## 5937           Feb-2019                        0           1       Individual
## 5939           Jul-2018                        0           1       Individual
## 5941           Jan-2019                        0           1       Individual
## 5945           Feb-2019                        0           1       Individual
##      verification_status_joint acc_now_delinq tot_coll_amt tot_cur_bal
## 1                                          0          306       29137
## 13                                         0            0       35466
## 26                                         0            0        4353
## 29                                         0            0       31074
## 56                                         0            0       57369
## 58                                         0            0        6902
## 62                                         0            0       16864
## 79                                         0            0      251662
## 81                                         0            0      183731
## 85                                         0          419       59597
## 89                                         0            0      130003
## 94                                         0            0      102039
## 95                                         0            0      267577
## 100                                        0            0      466814
## 123                                        0            0       31843
## 129                                        0            0      367826
## 131                                        0            0       43469
## 146                                        0         2994      394912
## 157                                        0            0       14180
## 177                                        0            0      479066
## 188                                        0            0      632819
## 189                                        0            0       78640
## 209                                        0            0      225954
## 211                                        0            0      145329
## 214                                        0            0      102608
## 223                                        0         1504      138507
## 228                                        0            0       20106
## 237                                        0            0      173007
## 256                                        0            0       18535
## 266                                        0            0       99721
## 280                                        0            0       79078
## 282                                        0          558        4830
## 288                                        0         3866       40747
## 289                                        0            0      361649
## 291                                        0            0      196211
## 293                                        0            0      298105
## 299                                        0            0      463259
## 300                                        0            0       25945
## 303                                        0            0       29471
## 320                                        0            0       20388
## 333                                        0          413      570343
## 339                                        0            0      339745
## 342                                        0            0      199565
## 363                                        0            0      187710
## 372                                        0          848      159484
## 380                                        0            0     1233954
## 398                                        0            0       38839
## 401                                        0            0       47982
## 404                                        0          199       66143
## 437                                        0            0      313522
## 447                                        0            0      193638
## 448                                        0            0      306818
## 449                                        0            0      152030
## 457                                        0          328      160051
## 463                                        0            0      219645
## 472                                        0            0       51399
## 478                                        0            0       36590
## 489                                        0            0      362560
## 492                                        0          489       20025
## 498                                        0            0      611931
## 510                                        0          234       72001
## 511                                        0            0      354126
## 521                                        0            0       16053
## 522                                        0            0       20966
## 534                                        0            0       43627
## 535                                        0         1237       50175
## 538                                        0            0      733571
## 539                                        0            0      401957
## 554                                        0         4123       60861
## 557                                        0            0       43381
## 573                                        0            0      282209
## 574                                        0            0      385248
## 586                                        0          347       46156
## 595                                        0          124       73376
## 599                                        0            0      126038
## 603                                        0            0      486842
## 604                                        0            0       37753
## 633                                        0            0      416100
## 643                                        0          966      458434
## 657                                        0            0       16345
## 661                                        0          501      153906
## 666                                        0            0       35276
## 686                                        0            0        4406
## 693                                        0            0      278092
## 701                                        0            0      197500
## 714                                        0            0       27498
## 723                                        0            0       70042
## 732                                        0            0       20437
## 733                                        0            0      539205
## 735                                        0            0      630128
## 736                                        0            0       16698
```

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## 741                                    0            0      235209
## 742                                    0            0       69274
## 751                                    0            0       47837
## 756                                    0         1875      144950
## 759                                    0            0      141626
## 762                                    0            0      473229
## 763                                    0            0      187388
## 765                                    0        10675      199208
## 768                                    0            0      115563
## 773                                    0          190       26534
## 774                                    0         1620      325084
## 776                                    0            0      537405
## 783                                    0            0      329428
## 785                                    0            0        3880
## 842                                    0            0      108466
## 864                                    0          795      461839
## 865                                    0            0       52498
## 868                                    0            0       82302
## 876                                    0            0     1325201
## 888                                    0          177      271872
## 927                                    0            0       18603
## 929                                    0            0       71357
## 941                                    0            0       54167
## 944                                    0            0      100130
## 947                                    0            0      309018
## 948                                    0            0      293122
## 959                                    0            0      339749
## 970                                    0            0      109172
## 973                                    0            0       91383
## 979                                    0            0      326102
## 980                                    0          791      113157
## 981                                    0            0      456119
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## 991                                    0          350      186806
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## 1010                                   0            0      388085
## 1016                                   0          913        9117
## 1018                                   0            0      284653
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## 1042                                   0            0      329306
## 1079                                   0            0       92059
## 1087                                   0            0       22885
## 1093                                   0            0      109026
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## 1145                                   0            0       25263
## 1154                                   0            0       85908
## 1156                                   0            0       95845
## 1157                                   0         3332      273178
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## 1176                                   0            0      120570
## 1180                                   0          773      168898
## 1182                                   0            0       28954
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## 1184                                   0           80       34075
## 1185                                   0            0       63963
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## 1204                                   0            0      331769
## 1234                                   0            0       21744
## 1235                                   0            0        9135
## 1236                                   0            0       53875
## 1240                                   0            0      102667
## 1288                                   0            0      308049
## 1289                                   0          605      164753
## 1297                                   0            0       66659
## 1303                                   0            0       19472
## 1305                                   0         6589      117444
## 1318                                   0            0       38150
## 1331                                   0            0      554105
## 1332                                   0            0      352969
## 1333                                   0            0      100915
## 1350                                   0            0      107708
## 1358                                   0            0      264556
## 1359                                   0         1411       16910
## 1364                                   0            0       35787
## 1370                                   0            0      249686
## 1372                                   0            0      383070
## 1377                                   0            0      453341
## 1381                                   0            0       23674
## 1387                                   0            0      646045
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## 1405                                   0        30976      158642
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## 1426                                   0            0      223726
## 1429                                   0            0      385635
## 1436                                   0            0      160075
## 1448                                   0            0       16812
## 1454                                   0            0        1669
## 1458                                   0            0      127153
```

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## 1471                    0          0     249153
## 1474                    0          0     226832
## 1491                    0          0     362848
## 1495                    0          0      25696
## 1498                    0          0      39996
## 1508                    0          0      51909
## 1515                    0       1322      17592
## 1528                    0          0      32768
## 1536                    0          0     466115
## 1541                    0          0     406665
## 1549                    0        145      39222
## 1556                    0          0     340841
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## 1563                    0          0     319057
## 1565                    0          0     406311
## 1586                    0          0     115106
## 1587                    0          0     172739
## 1589                    0          0     124545
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## 1615                    0          0      15512
## 1625                    0        224      34994
## 1630                    0       2341      47784
## 1635                    0          0      40280
## 1654                    0          0      26075
## 1655                    0          0     250085
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## 1687                    0          0     168857
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## 1694                    0          0     495821
## 1695                    0         82      50414
## 1697                    0          0      17158
## 1698                    0      13348     177785
## 1705                    0          0     109562
## 1709                    0          0      88297
## 1719                    0          0      16562
## 1720                    0          0     650270
## 1731                    0          0     238255
## 1736                    0          0     410395
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## 1746                    0          0     227011
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## 1769                    0          0     105199
## 1778                    0          0     181173
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## 1795                    0          0     375302
## 1797                    0       1472      30590
## 1800                    0        140      39884
## 1807                    0          0     432503
## 1815                    0          0     135903
## 1818                    0          0     106558
## 1826                    0        225     184276
## 1827                    0        144     187084
## 1835                    0          0      84612
## 1837                    0          0     448125
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## 1845                    0          0     619600
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## 1909                    0          0     393615
## 1914                    0        206     379284
## 1928                    0          0     208762
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## 1953                    0          0     428494
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## 2007                    0          0      53005
## 2009                    0          0     110577
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## 2044                    0       1519     196097
## 2049                    0          0     232261
## 2052                    0          0      66032
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## 2059                    0        540     215560
## 2063                    0          0      16992
## 2067                    0          0     308476
## 2097                    0          0     229018
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## 2106                    0          0      19757
## 2111                    0        364      30920
## 2112                    0          0      34508
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## 2118                    0        695      12795
## 2120                    0          0     410459
## 2122                    0          0      59433
## 2125                    0       1141      28198
## 2130                    0      13562      56018
## 2133                    0          0     158492
## 2139                    0        126     166460
## 2144                    0          0     111711
```

```
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## 2233                                    0          0       3718
## 2235                                    0       1629     179409
## 2240                                    0          0      12840
## 2247                                    0      14210      37576
## 2249                                    0         75     102622
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## 2349                                    0        169      18076
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## 2359                                    0          0     284408
## 2364                                    0          0       9036
## 2371                                    0          0      64276
## 2380                                    0          0     321082
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## 2459                                    0          0      55533
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## 2497                                    0          0     165018
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## 2508                                    0          0      11634
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## 2521                                    0          0     169790
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## 2528                                    0          0     203847
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## 2534                                    0          0     465232
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## 2559                                    0          0     130945
## 2565                                    0          0       3874
## 2569                                    0          0     172821
## 2575                                    0          0     189990
## 2577                                    0          0      67054
## 2584                                    0          0      86299
## 2586                                    0         50      53543
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## 2621                                    0          0     370059
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## 2676                                    0          0      43797
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## 2711                                    0          0      25351
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## 2719                                    0          0     173271
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## 2728                                    0          0     831614
## 2737                                    0       1014      14882
## 2740                                    0          0      25431
## 2746                                    0          0      53196
## 2748                                    0          0     128653
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## 2760                                    0          0      94907
## 2783                                    0          0      37429
## 2784                                    0          0     408249
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## 2794                                    0          0     389562
## 2804                                    0          0      11453
## 2809                                    0          0       6347
```

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## 2815                    0           0      594772
## 2823                    0           0       30255
## 2828                    0           0      250697
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## 2871                    0           0       17961
## 2881                    0         859       24017
## 2890                    0           0      300510
## 2902                    0           0      159910
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## 2909                    0           0      125688
## 2910                    0         150       29433
## 2921                    0           0      417266
## 2926                    0           0       26622
## 2937                    0           0       54022
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## 2953                    0           0      314282
## 2963                    0           0      253993
## 2964                    0           0       56495
## 2987                    0           0      298058
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## 2996                    0       10751       35592
## 2997                    0           0      311353
## 2998                    0           0      498890
## 3011                    0           0       30426
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## 3015                    0         471      381693
## 3019                    0           0      283153
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## 3038                    0           0      193265
## 3046                    0        2897      396259
## 3055                    0           0      413461
## 3066                    0           0      250658
## 3068                    0           0       19629
## 3069                    0           0      149509
## 3077                    0           0       48147
## 3091                    0           0       26494
## 3109                    0           0      212979
## 3110                    0           0       26039
## 3111                    0           0      356062
## 3114                    0           0      266151
## 3115                    0           0       23401
## 3127                    0           0      480502
## 3128                    0           0      337176
## 3129                    0           0       27545
## 3139                    0        1320       23750
## 3144                    0          68       79503
## 3148                    0           0       38160
## 3157                    0         349      123762
## 3167                    0           0       49008
## 3168                    0           0       59764
## 3191                    0           0      368618
## 3192                    0           0      369869
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## 3235                    0           0       18717
## 3240                    0           0       85825
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## 3245                    0           0      411362
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## 3249                    0           0       64247
## 3250                    0           0       22288
## 3253                    0           0       99201
## 3255                    0           0      105121
## 3263                    0           0      183815
## 3264                    0        1233      165656
## 3275                    0           0       20380
## 3284                    0         239       24761
## 3301                    0           0       30080
## 3324                    0           0      162786
## 3327                    0           0       31231
## 3328                    0           0       32142
## 3338                    0           0      156279
## 3340                    0           0       74614
## 3348                    0           0      189772
## 3373                    0        4140      197053
## 3375                    0           0       64437
## 3377                    0           0       52070
## 3382                    0           0      491001
## 3385                    0        1855      461394
## 3390                    0           0       25469
## 3391                    0           0       97063
## 3405                    0           0       40880
## 3414                    0        8376      106632
## 3415                    0           0      315261
## 3418                    0           0        2654
## 3423                    0           0      337054
## 3437                    0           0      148307
## 3452                    0           0      729191
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## 3461                                    0         3769      139920
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## 3473                                    0            0       51347
## 3476                                    0            0      271317
## 3478                                    0            0      161226
## 3495                                    0            0      154039
## 3496                                    0            0      112227
## 3499                                    0            0       16009
## 3512                                    0            0       31300
## 3514                                    0            0       25067
## 3524                                    0            0      170001
## 3526                                    0            0       12601
## 3528                                    0            0       71702
## 3529                                    0          475      216645
## 3533                                    0            0      220972
## 3549                                    0            0       70933
## 3551                                    0            0      324430
## 3552                                    0            0      463690
## 3563                                    0            0      169717
## 3570                                    0            0      315772
## 3573                                    0            0       33078
## 3583                                    0            0      318730
## 3587                                    0            0       73946
## 3597                                    0            0       16123
## 3601                                    0            0       18743
## 3609                                    0           76      158355
## 3618                                    0            0      321309
## 3620                                    0            0       44258
## 3626                                    0            0       54422
## 3627                                    0            0       65712
## 3638                                    0            0      166385
## 3643                                    0            0      288354
## 3647                                    0            0      150766
## 3652                                    0            0        3740
## 3654                                    0            0      142942
## 3664                                    0            0     1228073
## 3669                                    0            0       20492
## 3676                                    0            0       31850
## 3677                                    0            0        6102
## 3689                                    0           77       11576
## 3694                                    0         3515       87476
## 3695                                    0            0      330154
## 3696                                    0            0      181373
## 3724                                    0            0       35888
## 3725                                    0            0       29089
## 3753                                    0            0      190797
## 3772                                    0            0      283367
## 3792                                    0            0       66195
## 3793                                    0            0       23465
## 3795                                    0            0       46298
## 3797                                    0            0      292479
## 3798                                    0            0      235627
## 3806                                    0            0        9065
## 3812                                    0            0       28550
## 3818                                    0            0       30000
## 3820                                    0          481       42991
## 3823                                    0            0       19669
## 3829                                    0         1424      336272
## 3838                                    0          512       96473
## 3842                                    0            0      759158
## 3848                                    0            0      506148
## 3863                                    0            0      132575
## 3866                                    0          393       57454
## 3867                                    0            0       17569
## 3871                                    0            0      131817
## 3880                                    0            0      520586
## 3883                                    0            0      657471
## 3891                                    0            0       72042
## 3895                                    0            0       50218
## 3896                                    0          299      271590
## 3898                                    0            0      308749
## 3903                                    0            0      167293
## 3916                                    0            0      112343
## 3928                                    0          238      303196
## 3930                                    0           65       95569
## 3940                                    0          820       43146
## 3957                                    0            0       49546
## 3966                                    0           81        7833
## 3992                                    0            0       60446
## 3993                                    0            0      113577
## 4000                                    0            0       48545
## 4004                                    0            0       36961
## 4012                                    0            0       97890
## 4014                                    0            0      240758
## 4025                                    0            0      834272
## 4029                                    0            0       21464
## 4032                                    0            0      308381
## 4033                                    0           71      215340
## 4059                                    0            0      476869
## 4066                                    0            0       51069
## 4067                                    0            0      419234
## 4077                                    0          361       39644
## 4087                                    0        10142      104243
## 4088                                    0            0      156887
## 4091                                    0          805      312808
## 4102                                    0          326      329422
## 4106                                    0          128       26757
```

```
## 4112                                    0           0      392809
## 4127                                    0         424       20453
## 4129                                    0           0      114678
## 4130                                    0         243       23396
## 4134                                    0           0      170912
## 4145                                    0        1100       31465
## 4156                                    0           0      269277
## 4158                                    0           0       26691
## 4166                                    0           0       56271
## 4167                                    0           0     1144874
## 4168                                    0           0      703718
## 4171                                    0           0       34950
## 4176                                    0           0      353115
## 4182                                    0           0        8399
## 4183                                    0           0       40040
## 4184                                    0           0       31607
## 4187                                    0           0      124909
## 4190                                    0           0      305527
## 4192                                    0           0      325587
## 4195                                    0           0      197497
## 4218                                    0           0      131175
## 4223                                    0           0       28638
## 4226                                    0        1007       33266
## 4227                                    0           0      741272
## 4242                                    0         155      339661
## 4244                                    0        3566       33521
## 4246                                    0           0      441407
## 4250                                    0           0       21584
## 4264                                    0           0       36058
## 4276                                    0           0       63974
## 4281                                    0           0      330177
## 4288                                    0           0       71136
## 4296                                    0          95       26139
## 4299                                    0           0      108519
## 4302                                    0           0       26658
## 4312                                    0           0       86161
## 4315                                    0           0      134821
## 4319                                    0           0      294090
## 4327                                    0           0       23197
## 4329                                    0        3437       18077
## 4332                                    0           0      178483
## 4339                                    0           0       50213
## 4340                                    0           0       14310
## 4343                                    0           0      116073
## 4345                                    0           0       80859
## 4359                                    0         525       18687
## 4361                                    0           0        8740
## 4366                                    0           0      213723
## 4373                                    0           0       53904
## 4374                                    0           0       50395
## 4384                                    0           0      296879
## 4393                                    0           0       25353
## 4396                                    0           0      402667
## 4409                                    0           0      197006
## 4417                                    0           0      182735
## 4422                                    0           0       50297
## 4434                                    0           0      259139
## 4438                                    0           0      266588
## 4439                                    0           0       85704
## 4444                                    0           0      104845
## 4446                                    0           0       21291
## 4454                                    0         695      225702
## 4457                                    0         538      266672
## 4460                                    0           0       19060
## 4462                                    0        1559       42121
## 4467                                    0           0      118972
## 4475                                    0           0      160339
## 4480                                    0           0      160029
## 4493                                    0         154      203202
## 4496                                    0           0       30188
## 4508                                    0           0        6943
## 4513                                    0         154       36237
## 4515                                    0           0      137882
## 4521                                    0           0      109086
## 4541                                    0         172      234250
## 4542                                    0           0      250748
## 4549                                    0           0       66844
## 4556                                    0           0      244729
## 4559                                    0           0      285049
## 4560                                    0           0       88706
## 4570                                    0           0       20663
## 4572                                    0           0      179047
## 4574                                    0           0       67987
## 4578                                    0        1645      238417
## 4582                                    0           0       74398
## 4596                                    0           0      118040
## 4600                                    0         244      572756
## 4612                                    0           0      368498
## 4619                                    0         815      275348
## 4628                                    0         144      248795
## 4637                                    0           0      132559
## 4652                                    0           0      112719
## 4655                                    0           0       30563
## 4657                                    0           0      117670
## 4666                                    0           0      463559
## 4686                                    0           0      522265
## 4689                                    0           0      288156
## 4693                                    0           0        1590
```

```
## 4694                                    0            0      833714
## 4702                                    0            0      365595
## 4705                                    0          687      152181
## 4707                                    0            0      217906
## 4713                                    0            0       30084
## 4716                                    0            0      566297
## 4727                                    0            0       29203
## 4733                                    0            0      848329
## 4740                                    0            0      173193
## 4752                                    0            0       24310
## 4757                                    0            0       46756
## 4759                                    0          378       45990
## 4761                                    0            0      526082
## 4773                                    0            0      254510
## 4782                                    0            0       53075
## 4787                                    0            0       27511
## 4789                                    0            0      197207
## 4803                                    0         1491       86201
## 4826                                    0            0      149833
## 4827                                    0            0       10614
## 4828                                    0            0      310767
## 4855                                    0            0      593007
## 4857                                    0            0      109739
## 4866                                    0            0       40970
## 4869                                    0            0       55623
## 4877                                    0            0      210895
## 4881                                    0            0      145041
## 4883                                    0            0      112582
## 4919                                    0            0       58022
## 4924                                    0          567      261439
## 4932                                    0            0      527997
## 4936                                    0            0       42660
## 4939                                    0          561      181307
## 4942                                    0            0      307635
## 4964                                    0            0      481448
## 4969                                    0            0      304822
## 4994                                    0            0      382315
## 5000                                    0            0       93865
## 5002                                    0            0      299464
## 5004                                    0            0       37187
## 5005                                    0            0      225694
## 5012                                    0            0      148893
## 5013                                    0            0      361653
## 5019                                    0            0       16986
## 5028                                    0            0       11170
## 5033                                    0            0      204647
## 5056                                    0            0      188648
## 5062                                    0          689       32595
## 5067                                    0            0     1109395
## 5085                                    0            0       16502
## 5101                                    0            0      331909
## 5111                                    0            0       23543
## 5113                                    0            0       12208
## 5119                                    0            0      224084
## 5121                                    0            0       16589
## 5127                                    0            0      612977
## 5129                                    0            0       60701
## 5144                                    0            0       25930
## 5146                                    0          717       12494
## 5149                                    0            0     1399980
## 5153                                    0            0       50157
## 5172                                    0            0       34149
## 5175                                    0            0      589497
## 5178                                    0            0       75338
## 5189                                    0          270      130492
## 5198                                    0         1019      179623
## 5199                                    0            0       59915
## 5208                                    0            0      177696
## 5222                                    0          491       42063
## 5226                                    0            0      167117
## 5227                                    0            0       13541
## 5231                                    0          891      142349
## 5253                                    0            0       55466
## 5263                                    0            0      127395
## 5272                                    0          144      276150
## 5280                                    0            0       13690
## 5288                                    0            0       28685
## 5289                                    0            0      294208
## 5293                                    0            0      589111
## 5296                                    0         9116      225224
## 5318                                    0            0       19201
## 5323                                    0         4891      437106
## 5338                                    0            0       18802
## 5366                                    0            0        9696
## 5374                                    0            0      144752
## 5378                                    0            0      188144
## 5386                                    0            0      364189
## 5391                                    0            0      178089
## 5398                                    0            0       16762
## 5414                                    0            0      305168
## 5423                                    0            0       32570
## 5426                                    0            0       26551
## 5430                                    0            0       71973
## 5434                                    0            0      197647
## 5439                                    0          930        8353
## 5457                                    0            0      359070
## 5461                                    0            0        6396
## 5463                                    0            0       22060
```

```
## 5469                                        0            0       16380
## 5471                                        0            0       31086
## 5487                                        0         6969      200755
## 5489                                        0            0      415020
## 5493                                        0            0       77998
## 5495                                        0            0      111741
## 5504                                        0            0       44731
## 5512                                        0            0        5806
## 5520                                        0            0       39875
## 5526                                        0            0      252050
## 5528                                        0            0        5705
## 5530                                        0            0      462606
## 5542                                        0            0      487970
## 5546                                        0            0       51742
## 5560                                        0            0      290876
## 5572                                        0            0        6585
## 5606                                        0          600       15088
## 5617                                        0            0      191278
## 5618                                        0          326      167911
## 5631                                        0            0       10978
## 5644                                        0            0       14868
## 5645                                        0            0      153483
## 5650                                        0            0      166198
## 5652                                        0         1618      235621
## 5653                                        0            0      102996
## 5655                                        0          250       14725
## 5657                                        0            0      295584
## 5662                                        0        10913       25030
## 5678                                        0          154      100737
## 5682                                        0            0       87692
## 5686                                        0            0      164988
## 5691                                        0         7826      287219
## 5701                                        0            0       25329
## 5702                                        0            0      188403
## 5713                                        0            0      245026
## 5714                                        0            0       81143
## 5719                                        0            0      287157
## 5726                                        0            0      163877
## 5730                                        0         1082      120196
## 5735                                        0            0      241839
## 5738                                        0            0      485712
## 5740                                        0            0      329699
## 5742                                        0            0       17326
## 5746                                        0            0      265548
## 5748                                        0            0      182160
## 5755                                        0            0      527197
## 5774                                        0            0      285057
## 5780                                        0            0      130686
## 5790                                        0         1599      146796
## 5805                                        0            0       37020
## 5813                                        0            0      303468
## 5829                                        0            0       30668
## 5837                                        0          100      217220
## 5839                                        0            0      248541
## 5855                                        0            0       12656
## 5864                                        0         2256      204587
## 5871                                        0            0       64770
## 5879                                        0            0       23411
## 5894                                        0          200      246307
## 5900                                        0        10043      249536
## 5905                                        0         1863      195174
## 5909                                        0            0      151602
## 5911                                        0            0       72001
## 5920                                        0           84        2577
## 5926                                        0            0      138653
## 5934                                        0            0      466002
## 5937                                        0            0      339561
## 5939                                        0          578      179253
## 5941                                        0            0      356067
## 5945                                        0          372       17366
##      open_acc_6m open_act_il open_il_12m open_il_24m mths_since_rcnt_il
## 1              2           1           1           1                  3
## 13             0           1           1           2                 12
## 26             1           2           2           2                  4
## 29             1           2           1           1                  5
## 56             0          17           0           4                 13
## 58             0           1           1           1                  7
## 62             1           1           1           2                 12
## 79             1           1           3           6                  3
## 81             0           3           0           1                 16
## 85             0           3           2           5                  9
## 89             1          10           0           2                 15
## 94             3           1           1           2                  5
## 95             0           2           0           2                 21
## 100            1           2           1           2                 10
## 123            4           1           2           3                  9
## 129            3           3           4           4                  4
## 131            0           2           0           1                 16
## 146            2           9           2           3                  5
## 157            0           1           0           0                 31
## 177            0           3           1           3                  8
## 188            3           3           1           3                  5
## 189            0           3           0           2                 14
## 209            1           3           2           3                  7
## 211            1           4           1           4                  7
## 214            0           7           0           1                 23
## 223            1           3           1           2                  1
## 228            2           1           1           3                 12
```

```
## 237          3          2          0          1                 21
## 256          3          2          1          2                  3
## 266          3          7          0          1                 15
## 280          1          3          2          2                  7
## 282          0          1          0          1                 14
## 288          1          2          0          1                 20
## 289          1          2          1          2                 11
## 291          0          3          1          2                 12
## 293          4          6          3          7                  1
## 299          2          3          2          4                  1
## 300          2          3          3          4                  6
## 303          1          2          0          1                 14
## 320          0          7          0          0                 28
## 333          0         14          0          1                 14
## 339          2         21          1          2                  4
## 342          1          1          1          1                 11
## 363          0          3          0          2                 18
## 372          2          6          0          2                 14
## 380          0          2          0          3                 14
## 398          3          1          1          1                  4
## 401          2         10          0          1                 14
## 404          1          2          1          3                  5
## 437          1          2          0          1                 19
## 447          0          2          0          2                 13
## 448          2          4          1          2                  7
## 449          3          4          3          6                  1
## 457          2          4          3          4                  3
## 463          0          2          0          2                 17
## 472          2          1          1          1                  6
## 478          1          1          1          1                  4
## 489          1         13          0          6                 17
## 492          0          1          0          1                 14
## 498          1          4          1          2                 10
## 510          2          3          0          4                 13
## 511          0          1          0          1                 23
## 521          3          1          1          3                  3
## 522          2          1          1          2                  7
## 534          0          2          1          1                 10
## 535          0          1          1          2                  9
## 538          0          1          0          1                 19
## 539          1          3          1          2                  6
## 554          5          4          2          4                 10
## 557          3          1          3          5                  5
## 573          0         11          0          0                 26
## 574          1          4          0          2                 13
## 586          1          2          1          3                 11
## 595          2          3          4          5                  4
## 599          4          2          0          1                 24
## 603          0          2          0          0                 30
## 604          3          1          1          1                  5
## 633          1          3          1          2                  8
## 643          2          1          0          0                 37
## 657          2          2          5          8                  4
## 661          2          2          0          1                 24
## 666          0          2          1          1                  9
## 686          1          1          0          0                 29
## 693          1         15          2          3                  3
## 701          0          3          2          4                  8
## 714          1          2          0          2                 16
## 723          1          5          1          3                  2
## 732          2          2          2          2                  9
## 733          1          4          1          5                  8
## 735          3          3          2          4                  3
## 736          3          3          3          4                  1
## 741          2          3          2          3                  5
## 742          3          6          5          5                  3
## 751          0          3          1          3                 11
## 756          1         10          0          1                 18
## 759          2          1          1          3                  4
## 762          0          3          1          1                 11
## 763          2          4          2          3                  5
## 765          2          1          0          3                 14
## 768          2          4          1          4                  5
## 773          0          2          0          1                 14
## 774          4          8          4          5                  1
## 776          2          6          2          3                  2
## 783          0          3          2          3                 10
## 785          0          3          1          2                  7
## 842          0          1          0          1                 22
## 864          0          9          0          2                 19
## 865          0          3          1          2                 12
## 868          0          2          0          0                 26
## 876          2          3          0          2                 20
## 888          3          1          1          2                  4
## 927          1          1          1          1                 11
## 929          2          4          2          4                  4
## 941          0          3          0          3                 13
## 944          1          4          2          3                  3
## 947          3          2          1          3                  6
## 948          0          1          1          1                  9
## 959          0          3          1          3                  8
## 970          1          3          0          3                 16
## 973          0          4          0          1                 22
## 979          3          5          3          6                  3
## 980          1          2          1          2                  6
## 981          1          3          1          4                  5
## 987          2          1          5          8                  3
## 991          2          2          0          1                 13
```

```
## 1001          3          7          4          7                  8
## 1004          5          3          2          3                  2
## 1010          0          6          0          0                 30
## 1016          0          1          0          0                 43
## 1018          2          2          1          1                  4
## 1019          0          3          0          0                 29
## 1042          2          5          1          4                  8
## 1079          1         17          1          1                  3
## 1087          2          3          3          5                  4
## 1093          0          1          0          1                 24
## 1103          0          2          0          2                 15
## 1127          0          3          0          3                 20
## 1132          1          2          2          2                 10
## 1137          3         15          3          5                  4
## 1138          4          2          3          4                  1
## 1140          0          1          0          1                 17
## 1144          1          3          2          3                  5
## 1145          1          6          0          2                 19
## 1154          0          3          0          0                 25
## 1156          1         10          1          4                  5
## 1157          6          2          1          2                  6
## 1160          0          6          0          2                 16
## 1162          4          1          1          2                  4
## 1165          2          3          4          4                  3
## 1176          2          8          1          5                  5
## 1180          0          3          1          3                  7
## 1182          0          1          0          1                 13
## 1183          1          2          1          2                  7
## 1184          3          2          2          5                 10
## 1185          0          4          2          2                  9
## 1201          3          2          2          2                  5
## 1204          2          3          1          4                  4
## 1234          0          2          0          2                 17
## 1235          0          3          0          1                 24
## 1236          2          3          2          3                  4
## 1240          0         10          0          2                 13
## 1288          2          6          2          7                  4
## 1289          0          4          2          2                  7
## 1297          1          1          1          2                  4
## 1303          0          3          1          1                  9
## 1305          1          3          1          2                  9
## 1318          0          3          1          2                  7
## 1331          5          7          2          5                  5
## 1332          2          5          2          3                  6
## 1333          1          2          1          2                  4
## 1350          1          4          2          4                 11
## 1358          2          6          2          4                  4
## 1359          0          1          0          1                 23
## 1364          2          2          0          1                 13
## 1370          0          3          0          1                 16
## 1372          0          4          1          1                  7
## 1377          0          3          0          2                 16
## 1381          0          4          2          3                  8
## 1387          0          2          0          2                 23
## 1401          0          2          1          2                 11
## 1405          1          6          1          3                 11
## 1417          0          7          0          0                 25
## 1423          2          2          2          2                  4
## 1426          0          1          1          2                  7
## 1429          2          3          2          4                  3
## 1436          3          2          1          2                  3
## 1448          1          3          1          1                  6
## 1454          0          1          0          1                 24
## 1458          1          2          0          2                 17
## 1467          1          3          2          3                  6
## 1471          0          1          0          0                 26
## 1474          1          1          1          2                  9
## 1491          0          3          1          2                  9
## 1495          2          1          0          1                 15
## 1498          2          3          1          3                  8
## 1508          1          3          0          1                 15
## 1515          1          1          0          1                 18
## 1528          0          2          0          0                 28
## 1536          2          3          2          2                  2
## 1541          1          5          3          6                  5
## 1549          0          2          2          2                  9
## 1556          0          5          1          5                  7
## 1561          1          1          1          2                 12
## 1563          3          4          1          2                  9
## 1565          1          4          1          3                 11
## 1586          3          3          1          3                  3
## 1587          1          3          4          4                  8
## 1589          6          2          2          3                  5
## 1602          4          3          4          4                  0
## 1615          0          2          1          2                 10
## 1625          0          6          1          2                 12
## 1630          1         13          1          1                  1
## 1635          0          2          1          2                 10
## 1654          0          2          0          0                 67
## 1655          0          8          0          0                 42
## 1670          1          5          0          1                 14
## 1682          2          4          2          3                  6
## 1687          1          7          2          3                 10
## 1690          1          4          2          3                  2
## 1694          0          2          0          2                 13
## 1695          1          3          0          1                 19
## 1697          2          2          0          0                 47
## 1698          4          3          4          5                  1
```

```
## 1705          1          1          0          1                 24
## 1709          0          5          0          4                 14
## 1719          4          1          2          2                  4
## 1720          1          2          2          6                  7
## 1731          0          4          0          0                 30
## 1736          4          4          3          3                  3
## 1740          0          2          1          1                 11
## 1745          0          1          0          1                 17
## 1746          0          1          0          0                 59
## 1758          0          3          0          0                 57
## 1769          2          1          1          2                  6
## 1778          1          7          1          4                  1
## 1793          1          2          1          4                  5
## 1795          2          5          3          4                  4
## 1797          1          2          2          3                  2
## 1800          1          2          1          2                 12
## 1807          2          4          1          1                  4
## 1815          1          5          2          4                  1
## 1818          1          2          0          0                 31
## 1826          1          1          0          1                 13
## 1827          1          6          3          8                  5
## 1835          1          3          0          1                 23
## 1837          1          1          1          1                  4
## 1840          0         10          2          6                  7
## 1845          0          3          0          0                 39
## 1851          2          3          0          2                 15
## 1859          1          1          2          3                  5
## 1863          0          2          1          2                  8
## 1878          3          4          4          8                  2
## 1903          2          4          3          4                  3
## 1909          4          4          2          8                  1
## 1914          0          3          1          3                  7
## 1928          0          5          0          3                 13
## 1947          1          7          1          1                  4
## 1953          3          2          4          4                  3
## 1955          0          3          2          5                  7
## 1965          1          2          1          1                  4
## 1978          0          4          0          0                 27
## 1980          2          2          2          2                  3
## 2007          0          5          2          3                 11
## 2009          2          4          1          3                  4
## 2031          1          1          1          2                  9
## 2040          1          3          0          1                 24
## 2044          3          5          5          6                  5
## 2049          2          4          2          2                  6
## 2052          2          4          3          7                  2
## 2057          2          1          0          1                 13
## 2059          2         10          2          6                  7
## 2063          1          2          2          2                  9
## 2067          0          2          2          4                  8
## 2097          2          4          1          2                 11
## 2102          0          2          1          1                 10
## 2106          0          3          0          0                 36
## 2111          0          2          2          2                 10
## 2112          2          2          1          2                  5
## 2113          2          2          0          1                 17
## 2118          2          1          2          2                  5
## 2120          1          5          0          2                 15
## 2122          1          3          1          3                  5
## 2125          1          5          1          2                 11
## 2130          1          4          0          3                 22
## 2133          1          1          3          4                  5
## 2139          2          2          2          5                  5
## 2144          1          4          3          3                  2
## 2156          0          1          0          0                 27
## 2160          0          1          0          0                 55
## 2182          2          3          2          2                  4
## 2183          0          2          1          2                  8
## 2186          2          2          2          2                 11
## 2210          0         11          1          1                 12
## 2221          0          3          0          1                 16
## 2233          2          1          0          1                 13
## 2235          2         15          3          3                  4
## 2240          0          1          0          2                 22
## 2247          1          1          1          1                  7
## 2249          1          9          3          3                  3
## 2251          5          5          4          7                  2
## 2261          1          2          0          1                 19
## 2262          0          2          0          1                 20
## 2275          2          2          1          1                  3
## 2284          1          1          2          3                  8
## 2313          1          1          0          1                 13
## 2314          1          2          0          0                 26
## 2332          0          5          1          2                 10
## 2333          0          1          1          2                 12
## 2334          1          5          0          4                 13
## 2344          1          1          0          1                 21
## 2346          1          3          1          4                  6
## 2349          0          1          0          1                 24
## 2352          0          3          1          4                 10
## 2359          1          3          2          2                  3
## 2364          2          1          1          2                 10
## 2371          2          3          1          2                  4
## 2380          6          3          3          3                  2
## 2388          6          1          2          2                  4
## 2398          7          4          2          5                  4
## 2400          3          2          1          1                  3
## 2401          4         12          4          6                  4
```

```
## 2408          0          2          0          1         16
## 2410          1          4          1          3         11
## 2415          1          3          2          4          8
## 2424          2          4          1          4          2
## 2427          1          6          0          0         31
## 2428          0          2          2          2          8
## 2445          0          6          1          7         11
## 2454          2          1          1          1          7
## 2458          0          1          0          1         23
## 2459          0          1          0          1         22
## 2461          0          2          0          2         13
## 2475          2          3          2          3          1
## 2479          1          1          0          1         17
## 2482          0          1          0          0         25
## 2497          1          1          1          2          8
## 2506          0          1          0          1         16
## 2508          2          1          0          0         36
## 2518          0          5          0          1         24
## 2521          1          5          1          3          2
## 2526          1          3          1          1          8
## 2528          0          3          1          3          8
## 2532          0          6          0          0        107
## 2534          5          2          2          6          3
## 2537          3          2          4          6          3
## 2543          1          2          2          2         11
## 2555          0          2          1          3         11
## 2559          2          4          0          1         22
## 2565          0          1          0          1         15
## 2569          0          1          0          1         20
## 2575          0          1          0          0         73
## 2577          1          4          1          1          6
## 2584          1          5          1          2          6
## 2586          0          2          0          2         16
## 2610          2          7          1          2          4
## 2621          2         16          1          3          0
## 2634          0          5          4          6         10
## 2646          6          3          1          3          7
## 2653          0          3          0          1         23
## 2656          1          2          2          3          3
## 2664          3          2          1          1          5
## 2668          0          4          0          1         16
## 2669          0         18          1          1          7
## 2675          2          1          1          2         11
## 2676          0          2          2          2         11
## 2685          0          4          2          4          9
## 2699          0         15          1          1          8
## 2706          2         11          5          8          3
## 2711          0          1          0          2         18
## 2717          1          2          0          1         24
## 2719          1          3          1          2          8
## 2720          1          2          0          0         61
## 2728          0          2          1          4         11
## 2737          1          1          0          0         44
## 2740          1          2          1          2          7
## 2746          1         10          4          5          2
## 2748          1          6          0          1         21
## 2759          0          2          0          2         13
## 2760          1          3          1          1         10
## 2783          5          3          1          4         11
## 2784          3          7          5         10          2
## 2793          0          5          1          2          8
## 2794          1          3          1          2         12
## 2804          0          1          0          1         13
## 2809          2          1          1          2          8
## 2815          1          2          0          2         16
## 2823          2          1          1          1          4
## 2828          0          3          0          0         26
## 2829          5          2          0          4         15
## 2836          0          2          1          1         12
## 2849          0          2          1          2          8
## 2862          0          2          0          1         14
## 2864          0          2          0          1         20
## 2870          2         10          5         11          4
## 2871          1          2          0          0         26
## 2881          1          2          0          0         42
## 2890          1          1          1          1         12
## 2902          0          9          0          2         15
## 2904          0         11          3          6         10
## 2905          0          1          0          0         44
## 2909          0          2          0          2         13
## 2910          3          3          2          4          3
## 2921          0          2          0          1         18
## 2926          0          2          0          2         13
## 2937          1         10          1          4         10
## 2943          1          5          2          2          5
## 2945          0          3          2          4          9
## 2953          1          5          2          3          4
## 2963          1          1          1          3          9
## 2964          2          7          1          1          2
## 2987          1          4          0          6         13
## 2990          0          4          0          1         13
## 2996          0          7          3          7          8
## 2997          2          4          2          5          5
## 2998          1          5          0          4         14
## 3011          1          5          1          1         12
## 3013          1          1          1          1          9
## 3014          0          1          0          4         17
## 3015          2          3          3          6          2
```

```
## 3019          1          4          1          2                 8
## 3020          0          1          1          1                12
## 3038          1          7          1          1                 3
## 3046          0          4          2          4                 7
## 3055          0          2          0          2                15
## 3066          0         10          0          0                25
## 3068          3          1          1          1                 4
## 3069          1          2          1          4                11
## 3077          1          2          1          3                 9
## 3091          2          2          2          4                 6
## 3109          1          1          0          1                18
## 3110          1          2          0          0                32
## 3111          3          5          4          5                 4
## 3114          0          3          0          3                13
## 3115          0          2          0          2                14
## 3127          1          6          0          0                48
## 3128          4          8          1          1                 2
## 3129          2          4          2          3                 4
## 3139          0          3          0          0                52
## 3144          1          3          3          4                 6
## 3148          2          3          2          4                 4
## 3157          0          2          0          0                27
## 3167          0          3          0          0                47
## 3168          1          4          3          4                 2
## 3191          1          3          2          3                11
## 3192          0          1          1          1                 9
## 3195          1          2          1          1                 5
## 3197          4          1          1          1                 6
## 3207          2          4          1          3                 5
## 3220          0          1          0          2                16
## 3235          0          1          0          1                23
## 3240          0          1          0          0                31
## 3242          1          3          1          2                11
## 3245          2          3          1          2                12
## 3248          4          2          2          4                 2
## 3249          1          2          1          2                 8
## 3250          1          1          0          1                13
## 3253          2          1          1          1                12
## 3255          1          3          0          2                13
## 3263          1          1          0          1                18
## 3264          0         20          1          1                12
## 3275          0          1          1          1                10
## 3284          2          2          2          2                 3
## 3301          0          1          0          1                15
## 3324          3          7          1          3                 8
## 3327          1          1          3          4                 7
## 3328          3          1          1          1                 2
## 3338          2          4          1          2                 4
## 3340          0          4          0          1                19
## 3348          0          2          0          0               129
## 3373          2          3          1          2                 8
## 3375          1          6          3          4                 7
## 3377          0          1          2          3                 9
## 3382          2          3          1          3                 7
## 3385          1         10          1          3                 7
## 3390          0          0          0          2                14
## 3391          0         14          0          2                19
## 3405          0          3          0          1                18
## 3414          1          3          3          3                 9
## 3415          0          4          0          1                20
## 3418          1          1          1          1                 7
## 3423          0          2          0          2                15
## 3437          1          1          0          0                51
## 3452          2          6          3          4                 4
## 3461          0          1          1          2                 9
## 3468          2          3          4          6                 3
## 3470          1          2          1          1                 8
## 3473          0          2          0          3                13
## 3476          4          2          4          5                 3
## 3478          1          2          2          2                 9
## 3495          0          3          1          2                11
## 3496          1          1          1          1                10
## 3499          1          1          1          1                 4
## 3512          0          3          1          2                10
## 3514          0          2          1          2                10
## 3524          1          2          1          2                 1
## 3526          1          1          0          1                22
## 3528          0          9          1          2                11
## 3529          0          4          1          3                 7
## 3533          2          4          2          3                 4
## 3549          0          5          0          1                20
## 3551          1          1          0          0                44
## 3552          1          3          2          3                 1
## 3563          0         16          0          1                22
## 3570          0          4          0          2                19
## 3573          0          2          0          1                22
## 3583          2          3          1          3                 5
## 3587          1          3          1          1                 3
## 3597          1          1          0          0                38
## 3601          0          1          1          1                11
## 3609          1          6          0          0                36
## 3618          2          3          3          6                 2
## 3620          2          2          3          4                 1
## 3626          2          7          2          3                 6
## 3627          0          3          2          5                 9
## 3638          2          2          2          3                 5
## 3643          1          5          2          6                 8
## 3647          0          2          1          1                10
```

```
## 3652          0          1          1          1                 7
## 3654          2          6          3          4                 5
## 3664          4          3          2          2                 8
## 3669          0          2          0          1                20
## 3676          1          4          1          2                 2
## 3677          0          1          1          4                10
## 3689          0          1          1          1                 9
## 3694          1          4          3          8                 2
## 3695          2          6          3          5                 4
## 3696          2          1          1          1                 2
## 3724          1          3          1          3                 3
## 3725          3          6          6         11                 2
## 3753          0          4          0          3                16
## 3772          1          2          1          3                 6
## 3792          2          7          2          2                 3
## 3793          2          2          2          4                 2
## 3795          0          3          1          1                 7
## 3797          0          1          0          0                30
## 3798          2          3          0          0                34
## 3806          0          1          1          1                 7
## 3812          2          1          0          1                23
## 3818          3          2          0          0                29
## 3820          0         11          0          5                13
## 3823          1          2          0          1                18
## 3829          3          2          1          3                12
## 3838          0          2          0          2                15
## 3842          1          0          1          1                11
## 3848          2          2          1          2                11
## 3863          0          1          1          2                10
## 3866          2          2          0          1                23
## 3867          1          2          2          2                 6
## 3871          5          3          2          2                 6
## 3880          2          1          1          1                10
## 3883          1          3          0          0                35
## 3891          4         22          2          7                 5
## 3895          0          2          0          4                15
## 3896          0          2          0          2                13
## 3898          2          1          1          1                 3
## 3903          2          2          0          2                20
## 3916          2          1          0          2                23
## 3928          2          1          1          2                 5
## 3930          2          4          2          2                 6
## 3940          6          2          2          3                 3
## 3957          2          4          0          0                30
## 3966          0          2          1          1                11
## 3992          8          2          4          5                 2
## 3993          0          3          0          0                45
## 4000          0          1          0          1                21
## 4004          1          9          1          2                 3
## 4012          1          1          1          2                11
## 4014          4          4          2          3                 3
## 4025          1          2          0          1                14
## 4029          0          1          0          1                15
## 4032          0          2          0          2                14
## 4033          0          1          0          1                14
## 4059          0          2          1          5                 7
## 4066          2          2          1          4                 6
## 4067          2          7          0          0                39
## 4077          5          1          1          1                 3
## 4087          1          3          1          1                10
## 4088          1          1          0          0                79
## 4091          1          2          1          2                 9
## 4102          2          4          1          2                 5
## 4106          1          2          1          3                11
## 4112          1          2          2          2                 3
## 4127          0          1          0          1                19
## 4129          1          4          2          2                 6
## 4130          1          2          0          0                30
## 4134          0          1          1          1                 8
## 4145          1          3          1          1                 7
## 4156          0          1          1          1                11
## 4158          1          1          0          1                20
## 4166          0         10          0          1                19
## 4167          2          4          4          4                 2
## 4168          3          3          1          1                10
## 4171          1          5          0          1                13
## 4176          0          1          0          2                19
## 4182          1          1          0          1                15
## 4183          2          2          1          2                 7
## 4184          0          2          0          1                18
## 4187          0          7          2          3                12
## 4190          0          4          0          1                23
## 4192          0          3          0          3                14
## 4195          0          5          2          2                 8
## 4218          0          3          2          3                 8
## 4223          0          1          0          1                20
## 4226          2          9          2          3                 6
## 4227          1          4          2          4                 3
## 4242          0          4          0          2                18
## 4244          0          2          1          2                 7
## 4246          1          7          1          1                11
## 4250          0          1          2          4                 7
## 4264          0          2          0          1                14
## 4276          3          7          1          1                 3
## 4281          2         11          3          6                 1
## 4288          0          2          0          2                16
## 4296          0          2          1          1                 8
## 4299          1          4          1          3                 9
```

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## 4302          1          2          3          4                 8
## 4312          1          2          0          3                13
## 4315          0         22          0          1                19
## 4319          1          3          0          1                15
## 4327          4          2          1          4                 4
## 4329          5          1          1          2                 3
## 4332          0          3          2          3                 9
## 4339          0          2          1          1                12
## 4340          0          1          1          1                11
## 4343          1          2          0          1                24
## 4345          2          2          1          1                 3
## 4359          0          1          0          1                13
## 4361          1          1          2          3                 4
## 4366          0         10          0          2                14
## 4373          2         13          2          3                 6
## 4374          1          6          2          6                 3
## 4384          0          2          0          1                13
## 4393          2          4          1          1                 6
## 4396          0          5          0          1                13
## 4409          1          2          1          1                 3
## 4417          0          1          1          1                 7
## 4422          2          1          0          0                26
## 4434          0          4          1          5                12
## 4438          2          3          1          1                 6
## 4439          1          1          0          1                15
## 4444          1          5          2          4                 1
## 4446          3          3          4          6                 4
## 4454          0         12          0          0                43
## 4457          1          3          0          3                13
## 4460          0          1          0          0                25
## 4462          1          6          2          2                 1
## 4467          0          2          0          2                17
## 4475          0          1          0          1                14
## 4480          0          2          0          0                42
## 4493          2         10          1          4                 5
## 4496          2          1          1          1                 2
## 4508          3          2          4          5                 3
## 4513          1          1          1          1                 6
## 4515          0          2          1          2                11
## 4521          0          9          0          0                25
## 4541          0          1          0          1                17
## 4542          1          3          0          0                25
## 4549          0          3          1          3                 8
## 4556          0          3          0          0                26
## 4559          0          3          1          2                10
## 4560          1          3          0          1                18
## 4570          1          2          2          5                 8
## 4572          0          3          2          2                10
## 4574          1          2          1          2                 2
## 4578          3          2          2          3                 6
## 4582          3          6          1          2                 4
## 4596          1          7          3          6                 5
## 4600          0          2          0          3                13
## 4612          0         23          0          3                13
## 4619          0          3          1          4                11
## 4628          0          5          1          3                10
## 4637          0         17          1          2                10
## 4652          2          2          1          1                 4
## 4655          0          1          0          1                14
## 4657          1          4          2          3                 5
## 4666          4         16          2          6                 1
## 4686          3          1          0          2                16
## 4689          2          3          1          2                 4
## 4693          2          1          0          1                21
## 4694          1          3          2          2                 1
## 4702          0          8          0          2                13
## 4705          0          1          0          0                45
## 4707          0          2          0          3                13
## 4713          1          3          1          2                 9
## 4716          0          2          1          1                12
## 4727          3          3          1          1                 2
## 4733          0          4          2          4                 9
## 4740          1          1          1          1                12
## 4752          5          2          3          6                 5
## 4757          1         11          1          2                 7
## 4759          1          5          1          2                 2
## 4761          0          2          1          3                 7
## 4773          4          1          1          1                 6
## 4782          4          3          3          4                 3
## 4787          1          5          1          1                 3
## 4789          4          9          0          0                56
## 4803          4         11          2          3                 8
## 4826          1          1          1          2                 7
## 4827          2          2          2          2                10
## 4828          0          4          0          0                31
## 4855          2          3          1          3                 7
## 4857          1          5          1          3                11
## 4866          0         12          1          5                 9
## 4869          1          3          1          2                12
## 4877          2          2          0          1                16
## 4881          1          0          0          1                14
## 4883          0          1          0          1                14
## 4919          0         14          1          4                 9
## 4924          0          3          1          1                10
## 4932          0          8          1          5                 7
## 4936          2          1          1          1                 5
## 4939          3          3          3          3                 1
## 4942          1          2          4          5                 5
```

```
## 4964          2          1          2          2                 2
## 4969          2         12          0          6                13
## 4994          0          1          0          0                32
## 5000          1          1          2          4                 2
## 5002          2          1          1          1                10
## 5004          0          9          1          1                 8
## 5005          1          7          2          8                 1
## 5012          0          5          0          0                36
## 5013          1          3          2          2                 2
## 5019          0          2          1          1                12
## 5028          1          2          1          1                 1
## 5033          2          4          2          3                 4
## 5056          2          2          1          1                 9
## 5062          3          4          6          9                 2
## 5067          1          1          0          1                15
## 5085          3          5          1          2                 6
## 5101          0          1          0          1                23
## 5111          0          2          1          1                12
## 5113          0          1          0          2                15
## 5119          0          2          2          2                 7
## 5121          0          3          0          0                28
## 5127          0          1          0          1                21
## 5129          0         10          0          1                15
## 5144          1          1          1          1                 3
## 5146          0          2          1          1                12
## 5149          1          6          3          5                 6
## 5153          2          2          0          1                16
## 5172          2          3          1          3                 9
## 5175          5          2          3          3                 3
## 5178          1          3          0          1                16
## 5189          1          6          1          1                11
## 5198          1          4          2          5                 4
## 5199          0         13          1          2                 9
## 5208          2          4          2          2                 8
## 5222          1          2          0          1                15
## 5226          0          3          0          1                19
## 5227          0          3          0          2                14
## 5231          1         23          2          4                 2
## 5253          0          3          2          3                 7
## 5263          0          1          1          3                11
## 5272          0          1          0          1                20
## 5280          0          2          0          1                14
## 5288          1          2          0          1                13
## 5289          0          2          1          1                10
## 5293          0          2          1          2                 7
## 5296          0          5          0          2                21
## 5318          2          1          0          1                14
## 5323          3          1          1          1                 7
## 5338          0          1          0          1                13
## 5366          0          2          0          2                13
## 5374          1          3          0          1                13
## 5378          0          4          2          3                 7
## 5386          0          2          0          0                28
## 5391          0          2          1          2                 7
## 5398          1          1          1          1                 7
## 5414          0          2          0          0                25
## 5423          0          1          2          2                 7
## 5426          1          1          1          1                 7
## 5430          3          3          4          7                 2
## 5434          0          2          1          2                12
## 5439          1          1          1          1                12
## 5457          0          3          1          1                10
## 5461          0          1          0          0                58
## 5463          1          2          1          3                12
## 5469          1          2          0          2                14
## 5471          2          1          2          3                 6
## 5487          1          2          1          2                 5
## 5489          2          2          1          3                 7
## 5493          2          1          0          0                29
## 5495          4          4          4          7                 1
## 5504          4          1          2          2                 5
## 5512          0          1          1          1                10
## 5520          3          4          1          2                 2
## 5526          4          2          1          1                 4
## 5528          1          1          1          2                 8
## 5530          2          6          1          3                10
## 5542          1          2          0          1                21
## 5546          1          3          1          3                 2
## 5560          2          3          1          3                 8
## 5572          0          1          1          1                 7
## 5606          3          2          0          1                19
## 5617          0          1          1          1                 8
## 5618          0          2          1          1                 7
## 5631          0          1          0          1                13
## 5644          2          1          1          1                 5
## 5645          2          1          1          1                 6
## 5650          2          5          2          4                 6
## 5652          4         10          5          9                 4
## 5653          0          1          0          1                16
## 5655          1          2          2          4                 8
## 5657          0          2          0          1                14
## 5662          1          2          0          0                26
## 5678          2          1          0          0                44
## 5682          2          1          1          1                 2
## 5686          0          3          1          3                11
## 5691          5          1          3          8                 4
## 5701          2          1          0          0                29
## 5702          0          2          2          6                12
```

```
## 5713          0          2          0          1                19
## 5714          1          3          2          4                 2
## 5719          0          3          0          3                14
## 5726          3          3          2          5                 9
## 5730          2          3          4          7                 2
## 5735          4          9          3          7                 1
## 5738          0         11          0          0                40
## 5740          0          3          2          2                10
## 5742          0          2          1          1                 9
## 5746          4          2          4          5                 3
## 5748          4          3          5          7                 4
## 5755          1          1          0          0                31
## 5774          7          7          6          8                 3
## 5780          0          2          0          0                26
## 5790          2          1          0          1                18
## 5805          0          2          0          0                36
## 5813          4          1          1          1                 5
## 5829          0          4          0          2                17
## 5837          3         21          1          4                11
## 5839          1          1          0          0                34
## 5855          2          2          3          6                 4
## 5864          0          4          2          5                 7
## 5871          1          2          1          1                 8
## 5879          0          2          0          2                16
## 5894          2          2          1          1                 4
## 5900          2          2          1          3                 4
## 5905          2          7          1          4                 4
## 5909          0          2          0          0                35
## 5911          1          2          2          4                 4
## 5920          1          2          0          0               110
## 5926          0          4          1          2                11
## 5934          1          3          0          0                32
## 5937          1          4          1          2                 7
## 5939          1          2          2          5                10
## 5941          1          4          0          3                13
## 5945          1          2          1          1                 1
##      total_bal_il il_util open_rv_12m open_rv_24m max_bal_bc all_util
## 1           24665     100           3           7       3612       54
## 13          21206      87           0           4       5921       59
## 26           3391      75           2           4        582       20
## 29          19558      72           0           1       5605       34
## 56          54534      94           0           1          0       92
## 58           4199      88           2          12        320       13
## 62          15999      56           2           4        456       31
## 79           7134      95           3           4       5365       59
## 81          75993      62           0           0       7377       44
## 85          52134      60           0           1       1172       30
## 89         106211     103           1           3       5040       68
## 94           4816      80           2           2       2771       32
## 95          51385      76           0           1      16029       85
## 100         68027      79           1           4       7853       59
## 123         22199      91           6           7       2849       32
## 129        171682      95           2           2       2365       53
## 131         33318      41           1           2       6607       10
## 146        132779     111           5          22       5563       26
## 157          7495      62           0           0       1269       69
## 177         55927      68           0           0       3542       65
## 188         43017      53           2           4       4478       39
## 189         76026      75           0           0       2614       42
## 209         98916      86           3           4       4060       52
## 211         45334      60           1           1       3429       45
## 214         88385     108           2           7       3790       90
## 223         46619      67           0           4       4039       67
## 228         14083      64           2           3       3666       34
## 237          8761      26           6           7      10081       35
## 256         10565      63           3           7       4387       32
## 266         96790      91           5           7       1600       83
## 280         30933      73           3           3       5200       63
## 282           821       5           0           0       2588        8
## 288         16706      57           3           3       1434       65
## 289          9787      27           0           0       3875       28
## 291         36107      67           0           0       4072       48
## 293        104474      72           0           2       4511       27
## 299         71021      97           3           3       3954       88
## 300         11454      82           1           1       7786       64
## 303         12170      53           1           2      12943       20
## 320         20038      82           1           2        350       81
## 333        218957     112           1           2       5664       94
## 339        111600     125           5          12       2596       79
## 342         24865      90           1           3       3231       77
## 363         20996      50           0           3      17720       64
## 372         17835      91           4           5       6463       54
## 380         40635      64           0           4      15234       38
## 398         32596     101           2           2       3259       81
## 401         34706      84           2           5       6166       62
## 404         64721      61           0           0       1422       55
## 437         46347      95           1           2      21976       77
## 447         78923      87           1           1       2587       78
## 448         22568      45           5          12       6042       64
## 449         36640      80           1           3       5788       60
## 457         42604      90           2           5       2045       75
## 463         32957      78           1           5       4708       71
## 472          4062      81           4           4      18100       61
## 478         14495      97           1           1      14081       52
## 489        123977     106           1           9       4659       87
## 492          5275      73           1           1       7887       65
## 498         37873      41           1           1       4010       35
## 510         62742      86           2          11       3840       64
```

```
## 511          3280      10           0           0        245         7
## 521          5294      99           5           8       4240        57
## 522         20527      92           2           3         66        67
## 534         17681      54           1           1       2708        39
## 535         29831      93           7          11       5122        45
## 538          5198      52           0           1       8171        55
## 539        103146      80           2           6       5206        50
## 554         37498      64           7          12       5862        46
## 557         19715      95           2           7      11427        21
## 573         84949     102           0           1        541       101
## 574         36329      53           1           3      10903        59
## 586         41791      87           1           2       1806        52
## 595         65764      78           2           2       3062        56
## 599          1414      14           4           4       3875        28
## 603         18796      43           0           1      11987        49
## 604          3037      65           3           7        836        24
## 633        176824      80           0           0       2006        53
## 643         20992      62           3           4       2150        53
## 657         15245      70           0           4        996        37
## 661         14914      54           3           5       3851        44
## 666         20370      64           0           2       5548        57
## 686          3419      24           3           3        987        23
## 693        114772     107           0           0       8174        99
## 701         97588     101           1           2       3074        91
## 714         25116      80           1           1          0        72
## 723         55869      64           0           1       5211        60
## 732         16323      89           4           7        997        56
## 733        107607      71           1           2       2358        76
## 735         62941      85           7           9       6440        64
## 736         16698      98           1           1          0        72
## 741         24650      81           3           3       2224        55
## 742         64184      79           0           0       2767        77
## 751         16360      52           1           3       1986        21
## 756         36930      97           3           8       3144        58
## 759          9355      53           2           3       8124        46
## 762        142373      85           2           2      28118        88
## 763         51906      79           4           6        692        69
## 765          6210      69           2           7       2353        44
## 768         10610      54           1           1       2847        34
## 773         21239      56           0           2       1976        54
## 774        324755     104           0           2          7        60
## 776        149483      84           1           5       4503        64
## 783         39358      87           1           1       9395        64
## 785          3610      69           0           0          0        39
## 842          5925      41           0           1       4876        61
## 864         72191      77           1           3      13449        66
## 865         43003      68           0           0       4806        57
## 868         76614      55           0           0       2236        53
## 876         96710      39           2           4      12818        60
## 888          8476      97           2           2       2275        64
## 927         14768      89           4           4       1230        79
## 929         64575      98           2           6       6575        67
## 941         31615      84           0           1       7926        85
## 944         69386      73           0           0       8306        66
## 947         78447      77           3           5       9885        20
## 948          3104      62           0           0       4421        38
## 959         38875      77           0           0       2652        71
## 970         82965      77           1           2       7821        57
## 973         76116      99           0           1       7170        91
## 979        108637      86           2           2          8        31
## 980         18980      79           0           2        461        37
## 981         50949      90           0           0          0        67
## 987         11888      99           1           1       1326        46
## 991          9006      63           2           2       3396        47
## 1001       122148      97           3           4       8851        74
## 1004        41318      63           2           4       2282        49
## 1010        26489      60           0           1       5953        54
## 1016         8298      46           0           0        818        39
## 1018        11354      39           1           3       3156        18
## 1019        97877      48           0           0       9472        44
## 1042        25261      50           2           5       3744        43
## 1079        91006      99           1           1       1053        96
## 1087        21729      73           3           7        580        52
## 1093         3952      38           0           3        133         5
## 1103        15261      61           0           0          0        49
## 1127        90141      88           0           3       7175        44
## 1132        18186      74           1           1      12638        60
## 1137       152945      98           2           4       6736        94
## 1138        43750      97           2           4        368        70
## 1140         3062      68           1           3       9477        57
## 1144        49035      98           1           4       2921        44
## 1145        10188      62           3           8       9589        44
## 1154        28589      69           0           4       6968        68
## 1156        84025      85           2           2       7358        82
## 1157        63758      97           7           9       5108        71
## 1160        66495      50           3           3       2372        40
## 1162        18724      94           3           5       6594        56
## 1165        12209      85           1           2       1557        40
## 1176        92232      63           2           3      15571        50
## 1180        10618      34           9          10       4730        31
## 1182        13730      86           0           1       7337        68
## 1183        19950      74           1           6       3617        42
## 1184        27154      82           7          14       2023        50
## 1185        45729      86           1           5       5831        87
## 1201        52443      92           2           3        404        77
## 1204        43456      55           1           2      15335        52
## 1234        11232      33           0           1       4130        34
## 1235         7516      34           0           2        790        15
```

```
## 1236      46325      78          1          3      3236      26
## 1240      66300      60          0          1      4342      66
## 1288     152733      72          1          7      5543      66
## 1289     161731      48          1          1      2717      29
## 1297      10716      93          4          6      2987      41
## 1303       6164      66          0          1      5414      60
## 1305      26333      72          3          5      1324      61
## 1318      33409      69          0          1      1949      52
## 1331     270664      57          6          6      4683      34
## 1332     131247      88          0          0      1368      84
## 1333      39976      78          0          0     12665      60
## 1350      46862      93          3          4     13580      82
## 1358      68736      93          1          3      1337      67
## 1359      15451      99          2          3       920      81
## 1364      21936      51          3          3      6650      55
## 1370      88226      54          2          3      4879      30
## 1372     140755      52          0          1         0      47
## 1377      31229      57          0          0        89      46
## 1381      17377      61          0          3      4076      42
## 1387      49736      33          1          1     18255      64
## 1401      51236      64          0          3       328      17
## 1405      22451      81          2          2      3696      60
## 1417      61487      75          0          1      7024      73
## 1423       6695      28          2          7     16831      38
## 1426      14994      79          1          2      2061      72
## 1429      33275      86          1          6      6073      43
## 1436      31727      97          6          9      2100      80
## 1448      13944      39          0          1      2012      24
## 1454       1373      52          0          0       217      29
## 1458      54205      88          1          2      8874      58
## 1467      13612      49          1          1        53      34
## 1471       6397      33          0          1      7308      27
## 1474       6754      85          3          8      3061      41
## 1491      16878      59          1          3     16676      55
## 1495       5889      30          2          2     13407      34
## 1498      30458      70          4         12      3506      43
## 1508      30616      58          2          6      5740      42
## 1515      12854      76          1          1      3679      62
## 1528      12665      35          0          1      5185      56
## 1536     148464      69          1          1       405      51
## 1541      51797      80          2          2      4191      69
## 1549      15217      81          0          0      3619      63
## 1556      67773      84          0          1     10549      73
## 1561      31021      89          3          5       532      48
## 1563     103984      84          3          3      1950      67
## 1565      50477      64          1          4      4519      57
## 1586      90623      61          1          1      1088      43
## 1587     160162      91          1          2      6471      46
## 1589      24621      88          6          7      3199      77
## 1602      39489      94          2          2      4030      87
## 1615      10968      82          1          3       199      32
## 1625      32710     109          1          3      1456      87
## 1630      32991      52          0          1     14140      59
## 1635      37973      84          1          5      1240      59
## 1654       5810      65          0          1      5803      80
## 1655      74226     103          1          1      2150      94
## 1670      34433      87          3          4      8344      58
## 1682      42880      71          3          5      3479      61
## 1687      18748      40          1          1      2035      30
## 1690      21815      69          0          1      9728      63
## 1694      19445      50          2          2      1503      28
## 1695      46629      67          1          3      2215      62
## 1697       3266      11          2          3      4639      34
## 1698      22793      97          2          2      1172      86
## 1705      15444      72          3          5     12473      49
## 1709      30095      67          2          7      2200      41
## 1719       8372      93          3          9      5241      56
## 1720      18069      64          3          4      5591      19
## 1731      13739      41          3          4      5479      24
## 1736      82335     104          2          2      1320     100
## 1740       8462      74          4          6      1375      46
## 1745      18815      72          1          2      3182      31
## 1746        129       2          0          4      8124      62
## 1758      17099      60          0          0      9525      63
## 1769      13360     100          2          9      1646      58
## 1778     167609      97          1          1      6158      80
## 1793       5097      51          1          1      3091      36
## 1795      42551      83          2          2      3616      80
## 1797      16273      86          2          4      3705      37
## 1800      10837      68          1          2      7648      44
## 1807      35522      84          2          2      1187      81
## 1815     135725      62          1          2        34      55
## 1818      13024      35          2          3       741      18
## 1826       9729      67          1          1       977      50
## 1827      69756      78          0          3      1523      74
## 1835      68972      51          5         15      5263      24
## 1837      20734      88          0          1      2454      87
## 1840     202566     104          0          1      3589      83
## 1845      25578      48          0          4      6761      54
## 1851      41791      52          1          1      4533      67
## 1859      18048      90          1          4      1290      54
## 1863      13297      60          0          1      4108      24
## 1878     127864      78          0          4         8      45
## 1903      49686      86          2          3      6567      59
## 1909      92906      90          2          4      4101      59
## 1914      71405      84          3          4       271      75
## 1928     190218      77          1          1     12888      69
## 1947      32836      99          1          1      2490      87
```

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## 1953       14384      55          0          2          0       27
## 1955       11746      59          3          5       2450       29
## 1965       31198      76          0          0       4920       79
## 1978       12237      42          0          1       4621       34
## 1980       25110      84          1          1       2231       75
## 2007       36942      59          0          1      12046       55
## 2009       72803      58          3          5      13443       59
## 2031        8966      56          1          4       2515       36
## 2040      170421      86          1          3       1822       78
## 2044       85073     112          0          1        331       62
## 2049       98557      70          2          3       6950       37
## 2052       53200      82          3          4        967       66
## 2057       23902      86          1          1       1403       60
## 2059       22119      75          3          5        379       65
## 2063       10525      79          2          5       3582       38
## 2067       33240      80          1          1       2374       55
## 2097       50385      79          3          6       2589       63
## 2102       10833      77          0          0        133       68
## 2106       19438      63          0          0        319       59
## 2111       25431      83          0          1       3263       69
## 2112        7454      39          3          3       7066       50
## 2113       29459      49          3          6       5328       38
## 2118        7768      33          2          4       1375       25
## 2120       71767      78          2          4       6126       38
## 2122       41525      67          0          0       1360       56
## 2125       14346      62          3          3       1789       48
## 2130       31773      68          1          7       2882       69
## 2133       19404      97          0          1      20360       57
## 2139       40657      63          2          4       2760       77
## 2144       48774      92          3          7       6013       57
## 2156        5671      33          0          1       2737       43
## 2160        2409      14          0          0       1992       31
## 2182       33947      69          2          2       1643       68
## 2183       60834      53          0          0       9007       59
## 2186       40399      75          2          5        679       21
## 2210      121114     123          0          2       6774       84
## 2221      122439      87          2          4       5864       87
## 2233         509      36          5          5        791       35
## 2235      179398     117          0          2         11      102
## 2240        5976      80          0          1       6162       36
## 2247       16843      92          1          3       9427       83
## 2249      102316      97          0          0        251       75
## 2251       35966      52          5          7         31       35
## 2261        7164      20          1          1       2677       21
## 2262        7199      28          0          5        569       24
## 2275        9145      42          1          2       8289       26
## 2284       27623      92          2          4       1945       39
## 2313       13788      70          1          3       3705       67
## 2314       13252      53          1          2       1732       45
## 2332       84285      43          1          2       1695       27
## 2333       23123      83          0          0       1635       67
## 2334       62415      62          3          4       3112       38
## 2344        6859      44          1          6       3100       38
## 2346       57295      83          0          1       6954       81
## 2349        4131      33          0          0       8376       54
## 2352       24670      47          0          1       3939       46
## 2359       88966      72          0          0        937       56
## 2364        4275      50          3          5       3379       40
## 2371       57437      79          1          2       2175       59
## 2380      106304      96          2          3       1642       73
## 2388       23460      98          5         11       2002       68
## 2398       10505      74          7         10       1954       28
## 2400       21797      67          4         15       1945       52
## 2401       56421      83          1          4       9271       67
## 2408        3801       8          0          1        874        4
## 2410       36588      67          1          3       6602       60
## 2415       18552      69          4          7       2201       53
## 2424      114477      76          1          3       7181       80
## 2427       50450     107          1          4       1115       73
## 2428      118875      63          2          2       4749       51
## 2445      196086      66          1          1       1283       71
## 2454        1195      60          3          4       1645       65
## 2458        3910      39          2          6      11205       52
## 2459       26041      75          0          0       1016       69
## 2461       10451      93          0          1       6022       77
## 2475       13244      60          2          3          0       52
## 2479        9556      72          1          1        343       66
## 2482       10256      71          2          3        731       59
## 2497       29728      92          6          9       8139       51
## 2506       15512      79          1          2       7645       40
## 2508        2768      12          2          2       6275       24
## 2518        9030      34          0          1         10       34
## 2521       29436      75          2          5       6914       55
## 2526       28720      54          1          3       5798       58
## 2528       36892      70          0          0      15217       74
## 2532       25076     132          4          4       5108       82
## 2534       58177      72          6          7      11060       43
## 2537       47284      98          0          0       1305       72
## 2543       19541      82          2          2        445       78
## 2555       42926      88          1          1       2203       87
## 2559        7705      76          2          4        421       29
## 2565        1298      17          0          0       1417       17
## 2569       16438      82          0          1      15716       59
## 2575        6927      41          1          2      17025       47
## 2577       64699      29          0          1       1899       31
## 2584       55576      73          0          0       9147       69
## 2586       43112      63          0          4       4213       47
## 2610       36278      82          1          2       5723       56
```

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## 2621        52941      62           1           5       4727       53
## 2634        47645      81           1           1       3228       81
## 2646        38417      69           7          12       1352       35
## 2653        27186      53           0           1      13555       57
## 2656        12858      76           0           2      18687       61
## 2664        51151       6           2           2      12015       10
## 2668        72856     102           0           0       2798       92
## 2669        47475     119           2           2       1127       93
## 2675         9347      78           4           4       7683       33
## 2676        30503      82           1           5       6929       42
## 2685        48033      66           2           7       3784       59
## 2699        86101     138           1           1       9726      106
## 2706        29459      83           0           1       1224       69
## 2711        13387      50           4           4       3049       41
## 2717         8575      38           1           3       6334       27
## 2719        50925     105           2           2       2323       71
## 2720        42413     100           4           7       2940       59
## 2728        70923      85           0           3      14238       58
## 2737         9461      49           5           6       2638       29
## 2740        18045      63           1           2       2891       50
## 2746        45517      68           0           0       4348       64
## 2748       104244      94           1           2      15992       61
## 2759        13432      99           1           5       3453       73
## 2760        85897      22           1           4       4141       21
## 2783        26740      77           7          12       2756       42
## 2784       401062      68           1           2       5215       61
## 2793        25471      30           5           5       1872       31
## 2794        56852      86           2           3       9123       77
## 2804         9146      73           1           1        501       68
## 2809         4446      53           3           6        359       29
## 2815        41730      82           1           6      14977       51
## 2823        23197      98           1           3       3055       76
## 2828        42641      90           0           1       3637       86
## 2829        56716      81           5          14       5979       17
## 2836        34895      93           1           2       4843       66
## 2849        24601      87           0           1       3051       80
## 2862        50138      87           0           0       5156       74
## 2864        11282      45           0           0       5321       41
## 2870        62880     100           5           7       5498       66
## 2871        15617      68           1           2       1140       31
## 2881        13645      34           6           8       1474       33
## 2890        17761      87           2           3       5932       25
## 2902        53043      85           2           3       6646       66
## 2904       130101      93           1           1       9344       88
## 2905        10604      42           1           2      67447       57
## 2909        22343      76           1           1       9455       63
## 2910        25936      88           4           5       1774       66
## 2921        35111      73           1           1      16307       77
## 2926        17532      61           0           0       8885       56
## 2937        47648      81           2           5       1780       48
## 2943       137483     103           0           0       1866      101
## 2945        18789      72           0           1       1432       66
## 2953        33659      69           1           1       7503       75
## 2963         5763      47           2           4       1109       24
## 2964        37144     100           1           1       5142       74
## 2987        72895      75           2           6      25530       40
## 2990        36496      63           2           2      11547       57
## 2996        35592      98           2           2          0       64
## 2997        39018     102           1           2       3334       76
## 2998        60738      75           2           4       6524       61
## 3011        18753      56           1           1       3871       42
## 3013         6422      75           3           5        988       48
## 3014        15255      54           2           3       4490       65
## 3015        70912      80           2           6        104       50
## 3019        39637      97           0           1      16292       55
## 3020        17665      87           0           3       8814       62
## 3038        85084      63           0           1       9332       62
## 3046        39644      72           5          13        793       50
## 3055       197903      77           0           0       1724       32
## 3066        47732      90           0           0      24229       85
## 3068        14734      96           3           3       3395       73
## 3069        32860      91           1           3        715       81
## 3077        47216      83           2           3        676       32
## 3091        21390      87           3           5        782       60
## 3109        16273      81           2           5       1741       36
## 3110        17187      77           4           4       3905       70
## 3111        48136      76           2           6       2890       46
## 3114       108554      88           0           1       8614       81
## 3115        19367      69           2           4       2974       54
## 3127        50675      71           1           3       6941       54
## 3128       115213      99           6           7       2055       78
## 3129        17671      54           2           3       3073       56
## 3139         6454      20           2           3       6579       38
## 3144         4533      74           1           1        218       42
## 3148        33831      75           3          10       1244       63
## 3157        13070      34           1           1       5334       57
## 3167        44633      97           1           1       3901       94
## 3168        57021      78           1           2       1508       73
## 3191        32532      64           1           2      14736       49
## 3192        27405      98           1           1       2353       55
## 3195        50431      46           0           1       8910       63
## 3197         4264      29           2           4       2019        9
## 3207        56755      91           1           2      13416       85
## 3220        14920      81           0           0       9382       62
## 3235        18717      68           0           1          0       61
## 3240        21951      63           0           0        149       35
## 3242        25712      59           2           2       8642       65
## 3245       157435      73           0           3       3375       43
```

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## 3248      29787     74          3          5       310      63
## 3249      57018     88          3          9       269      27
## 3250      13905     70          1          3      7103      38
## 3253      13132     73          2          2      4839      52
## 3255      83362     55          1          3     19049      40
## 3263      23046     74          1          1      5002      62
## 3264     158038    118          0          0      3545     112
## 3275      15355     73          0          2      4700      44
## 3284       9776     89          3          6      3247      53
## 3301       7959     44          1          2      6485      35
## 3324      32606     83          1          1      2471      76
## 3327      28775     94          3          4      1318      37
## 3328      23836    100          3          3      3904      79
## 3338      13940     38          2          5      1094      33
## 3340      66387     88          3          4      2254      68
## 3348      34580     31          0          0      4925      56
## 3373      25227     80          4          6      3198      70
## 3375      50374     87          1          2      2528      70
## 3377      28406     90          1          3     19887      74
## 3382       1174      5          2          4      3581      21
## 3385     129079     86          2          5      1983      66
## 3390      19161     67          1          3      3211      55
## 3391      77722     88          0          0      8487      86
## 3405      24603     55          0          1      2736      56
## 3414      23386     86          1          4      2437      68
## 3415     104209     52          2          2     13577      52
## 3418        898     26          2          4      1487      15
## 3423      19552     70          0          1      5828      75
## 3437      12632     43          1          1      7220      46
## 3452     128451     68          1          1      7041      62
## 3461        594     35          0          2      1363      78
## 3468      60586     96          3          4      4849      33
## 3470      35818     81          2          4      3974      39
## 3473      10790     52          0          1     24398      71
## 3476      73760     83          1          2      4526      45
## 3478       9181     77          1          3      2985      54
## 3495      31122     68          0          2     10855      77
## 3496      15704     88          0          0        36      80
## 3499      15305     96          0          0       648      91
## 3512      21251     62          1          4      2159      30
## 3514      21704     88          0          2      1408      49
## 3524      24096     76          0          1         0      43
## 3526      10865     74          1          5       669      50
## 3528      70548     73          1          1      1154      41
## 3529      30633     51          0          0      6550      52
## 3533      30108     88          1          2      3240      42
## 3549      57120    138          0          0     10441     104
## 3551      17525     55          1          2      5370      58
## 3552      22513     90          0          0      4941      90
## 3563     155453    125          0          2      7428     104
## 3570      63443     54          0          0      8054      53
## 3573      29900     71          0          0      2878      34
## 3583     136513     60          2          3      6046      50
## 3587      73902     96          0          1        44      38
## 3597      12599     53          2          3      1821      49
## 3601      15911     46          0          0      2596      48
## 3609      14598     52          1          1      3724      62
## 3618      76419     88          2          3      5729      33
## 3620      33463     98          0          0      4572      64
## 3626      45200     75          1          7      2566      52
## 3627      54607     72          0          0      6991      66
## 3638      22919     81          1          3      7632      39
## 3643      43379     87          1          2      2724      83
## 3647      38882     69          0          2      3552      59
## 3652       2794     93          0          1       755      67
## 3654     137569     83          0          3         0      58
## 3664      79627     40          3          5      7441      24
## 3669      16327     66          0          1      3035      43
## 3676      25337     46          0          0      3708      46
## 3677       4104     87          0          0      1994      46
## 3689       4145     83          1          2      6138      47
## 3694      83994     88          0          0         0      60
## 3695      74691     80          0          2      7951      64
## 3696      31058     99          1          2      2525      85
## 3724      31444     83          4          4      1737      53
## 3725      23130     87          2          5      1826      59
## 3753      54659     87          2          3      3168      73
## 3772      44160     82          1          4      2289      73
## 3792      64433     83          1          1      1762      57
## 3793      20069     74          0          1      3392      55
## 3795      38817     83          2          3      2777      36
## 3797       2628     28          0          0      5022      61
## 3798      50743     80          2          3      2037      77
## 3806       6423     86          1          1      2551      90
## 3812      20691     78          5          5      1413      63
## 3818       6336     23          5         11      6591      34
## 3820      37107     81          0          2      2490      64
## 3823      12525     40          1          2      1739      35
## 3829      52685     56          3          5      4850      51
## 3838      28175     67          1          4     16152      58
## 3842      21142     85          1          1       438      54
## 3848     224115     74          2          2      2265      70
## 3863     108728     80          1          3     14499      61
## 3866      11985     69          2          2      1198      49
## 3867      12645     74          0          0      3831      30
## 3871      52621     84          3          4      2392      73
## 3880       8050     81          3          4      9742      87
## 3883      29283     31          1          1      7318      60
```

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## 3891        62366      88           5          11       3751       70
## 3895        43448      71           1           2       1784       43
## 3896        39682      81           1           4       8001       58
## 3898        14633      98           1           1       2472       36
## 3903        53561      52           4           5       5026       61
## 3916         5891      29           1           2          0       34
## 3928         9040      95           0           0       2008       57
## 3930        87944      84           1           4       3574       84
## 3940        33455      92          10          11       1818       60
## 3957        24484      49           2           3      14359       47
## 3966         6660      26           4           5        870       20
## 3992        55689      87           6          10       3740       27
## 3993        98846      42           0           0       4583       57
## 4000        25295      76           3           4       6068       72
## 4004        35339     107           1           2       1622       92
## 4012         6761      65           2           3       2400       22
## 4014        25986      59           3           5       9759       24
## 4025         3349      28           1           1      18685       65
## 4029        13613      68           0           0       3673       72
## 4032        43504      85           0           1       6153       81
## 4033        10288      69           0           0       3010       45
## 4059        62326      58           0           0       5198       57
## 4066        48130      78           2           3       2691       31
## 4067        67576      78           3           4       7790       54
## 4077        27506      99           7           8       4384       71
## 4087        28349      54           2           2        103       45
## 4088         6331      88           1           3        913       89
## 4091         9222      54           3           6       7823       45
## 4102        55512      76           1           4       8106       65
## 4106        16708      66           2           3       3820       62
## 4112        59619      98           1           1       3094       78
## 4127        20392      99           0           1         61       89
## 4129        92555      51           0           0       9355       51
## 4130        19373      63           2           2        860       63
## 4134        25739      86           0           0      10385       90
## 4145        18286      79           1           2       2050       62
## 4156         9713      78           1           2       2947       39
## 4158        23735      71           2           6       1192       40
## 4166        45840      89           0           1       5874       75
## 4167        46096      79           1           1       2404       63
## 4168        27302      81           0           0       3780       54
## 4171        14880      51           2           7       9029       55
## 4176        92336      79           0           0       6597       67
## 4182         2949      66           2           5       2897       46
## 4183        37651      87           3           4       1326       61
## 4184        21740      79           0           0       4632       79
## 4187        83585     101           1           1      10773       91
## 4190        24932      35           0           1       5567       42
## 4192        88936      80           0           0      23271       80
## 4195       184025      70           1           2       3341       72
## 4218        30708      84           0           0       3135       66
## 4223        23628     102           2           2       2479       82
## 4226        32073      74           1           2       1193       54
## 4227        78198      86           0           2      11294       58
## 4242       197698      16           1           1       2418       31
## 4244        33521      57           1           6          0       14
## 4246       125979      69           2           4       2624       65
## 4250        18791      94           0           0       2418       48
## 4264        25003      88           1           2       4558       64
## 4276        57846      90           2           3       1479       66
## 4281        73705      95           1           4       2140       80
## 4288        17635      66           0           1       1458       61
## 4296        23071      81           0           1       1864       80
## 4299       101304      40           3           8       3810       25
## 4302        14027      66           1           2       5295       51
## 4312        28251      79           2           2        912       47
## 4315       111477     110           1           1      15083      108
## 4319        15737      32           0           2       4293       40
## 4327        18895      93           3           4       1276       55
## 4329        13964      97          18          20       3333       30
## 4332        37559      79           2           8       3667       44
## 4339        44646      64           0           0       5255       72
## 4340         6334      75           0           2       5181       53
## 4343        60003      65           1           1       2059       59
## 4345        64232      98           4           5      12912       70
## 4359        11613      89           0           3       6399       29
## 4361         5772      96           4           5       2362       63
## 4366        63306      92           0           2       5556       74
## 4373        51885     109           1           4       1562       87
## 4374        43159      86           0           0       3396       65
## 4384        88695      86           2           2       8980       40
## 4393        21605      57           1           1       1951       39
## 4396        50194      62           1           4       5100       47
## 4409        20371      65           1           1       4368       58
## 4417         4399      88           2           4        965       49
## 4422         3165      31           5           6      11437       40
## 4434        47664      80           3           6       1907       75
## 4438        55005      81           1           2          0       54
## 4439         5801      52           2           3       1813       18
## 4444        73648      60           0           0       9341       63
## 4446        19983      41           1           3       1292       39
## 4454        72494      96           1           1       3190       90
## 4457        34807      79           3           4       1966       43
## 4460          162       7           2           3       7523       35
## 4462        37286      77           0           0       3287       75
## 4467        25970      76           6          15       4632       54
## 4475         2031      67           0           4       2599       34
## 4480        21897      72           1           2       1117       57
```

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## 4493      192245     103          2          2      3312       89
## 4496       16542      97          2          2      3185       34
## 4508        5520      93          5          9       585       18
## 4513       33264      97          5          8       735       65
## 4515        7579      69          2          2      7861       74
## 4521       98082     101          0          2      3695       84
## 4541       13101      91          0          1       965       84
## 4542        9956      35          1          3      5656       44
## 4549       45760      71          0          0      6335       66
## 4556       23483      45          0          0     14937       47
## 4559       30139      70          0          2      3374       32
## 4560       84891     123          2          2       268      116
## 4570        4975      48          2          2      9003       39
## 4572       20172      49          1          5      8073       55
## 4574       63830     100          0          1      3404       92
## 4578       33272      76          3          5      5964       55
## 4582       56507      68          3          8      4951       63
## 4596       76554     100          0          0     19494       97
## 4600       36202      60          2          5      5474       35
## 4612      129837     111          1          7      7180       68
## 4619       46898      60          3          5         0       52
## 4628       32491      70          1          4     12420       77
## 4637      128423     112          0          1      3921      108
## 4652      106406      96          2          4      2495       79
## 4655       12432      67          0          4      5874       51
## 4657       84754      64          0          0      3410       62
## 4666      182244     113          3          6      6558       91
## 4686        9600      52          4          4      1232       50
## 4689       19035      52          1          1      5165       58
## 4693         415      17          4          4       225       30
## 4694      116748      74          0          1     16540       70
## 4702       82916      70          5         10      7164       58
## 4705        2544      28          0          7      3950       25
## 4707       17375      64          2          5     16646       68
## 4713       19526      77          4          5      5385       61
## 4716      218757      90          0          1      7698       90
## 4727       21090      70          3          4      2861       60
## 4733      223035      54          1          2      5733       44
## 4740         130       9          1          1      2714       63
## 4752       20248      82          3          9      1763       67
## 4757       28886      60          2          3      6979       47
## 4759       38604      84          0          0      4067       68
## 4761       39398      79          0          0      2454       81
## 4773       19472      96          3          3       876       56
## 4782       38945      90          4          6      6752       67
## 4787       14041      62          1          5      8002       54
## 4789       48099     127          6         12      4587       98
## 4803       78290      80          5          8      4061       65
## 4826       14500      91          6          9      5286       31
## 4827        9148      80          2          3        83       51
## 4828       27990      50          1          3       127       37
## 4855       22858      57          2          2       504       18
## 4857       29150      84          0          2         0       77
## 4866       27378     104          0          3      7672       86
## 4869       45138      41          2          6      1712       10
## 4877       17862      56          3          3      2783       34
## 4881        7684      74          1          1      2751       40
## 4883        9115      83          1          7      7990       64
## 4919       51227      83          1          2      3745       76
## 4924       41190      84          1          1      3664       84
## 4932       96580      80          1          2      8120       83
## 4936       25989      95          1          6      6684       64
## 4939       42707      73          2          2      5930       79
## 4942       23343      85          0          0      1665       83
## 4964       16755      99          3          4     10857       43
## 4969      113156      87          2          3      5846       55
## 4994       20979      60          1          3      5865       67
## 5000       15000     100          2          4       281       47
## 5002       18019      90          2          4      6105       88
## 5004       32927      82          1          4      3110       72
## 5005       53893      93          3          4       583       63
## 5012       62255      44          0          2      1286       33
## 5013       69343      91          1          2      5068       73
## 5019        9487      33          0          1      2768       34
## 5028       10471      32          0          2       677       28
## 5033       52611      63          1          1     10221       65
## 5056       22630      78          1          1       912       39
## 5062       29787      91          3          7       819       62
## 5067       13174      60          3          4     23079       29
## 5085       10768      45          2          8      2100       30
## 5101        8856      67          1          5      3009       77
## 5111       20023      63          0          1      1496       46
## 5113       10127      64          1          2      2081       54
## 5119       22273      90          2          5       970       46
## 5121       13097      50          0          0      2049       55
## 5127        8032      50          0          2     10736       74
## 5129       57223      96          0          1      3478       75
## 5144       18213      96          0          1      4333       44
## 5146        7426      54          2          4      2651       50
## 5149      239408      83          3          6      9661       69
## 5153       50042     101          2          2       115       90
## 5172       27932      78          2          4      2911       62
## 5175       57626      72          4          5      4087       55
## 5178       45973      63          1          1     11137       44
## 5189       43332      88          3          3      3383       62
## 5198       17838      66          2          5      3294       64
## 5199       57717      95          0          3       296       83
## 5208       52299      61          2          4     10484       52
```

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## 5222      38631     69          5          8      2618      46
## 5226      16915     79          0          1     10365      64
## 5227       8325     43          2          2       423      28
## 5231     135617    129          3          4      2471     112
## 5253      46510     76          0          2         0      68
## 5263      10278     86          0          2      5923      87
## 5272       4788     53          1          4      4061      31
## 5280       8398     29          0          0      2600      20
## 5288      20422     55          2          3      3395      35
## 5289      68327     85          0          0      6902      62
## 5293      40501     78          0          0      3882      61
## 5296      39754    108          1          2     12351      78
## 5318      17233     90          3          8      1254      72
## 5323      30930     92          4          6     11500      31
## 5338       7201     72          0          1      3517      58
## 5366       8359     23          1          3       862      25
## 5374      59524     50          1          1      2428      48
## 5378      69814    101          1          2      2019      80
## 5386      23917     55          0          1     16389      74
## 5391      27087     50          0          1      2594      56
## 5398      14812     78          1          1       664      23
## 5414      26349     72          0          2      5953      70
## 5423      19759     88          1          2      7648      32
## 5426      12392     90          2          2      7545      52
## 5430      57289     91          3          9      1051      62
## 5434      19848     72          1          2      5071      73
## 5439       4586     76          5          8       604      27
## 5457      26002     52          0          0      5549      53
## 5461       4345     14          0          0      2051      14
## 5463      14838     84          5          9      2635      55
## 5469      10818     51          1          6      1779      45
## 5471      26263     92          3          5        21      64
## 5487      35131     77          0          0      6019      70
## 5489      22685     77          2          5      3639      60
## 5493       8993     45          2          5      4322      43
## 5495     102206     88          0          1      8176      53
## 5504      22643     91          3         10     22088      30
## 5512       5806     77          0          0         0      46
## 5520      20909     59          2          6      2770      58
## 5526      63880     63          7         11      2017      43
## 5528       5028     61          2          2       100      52
## 5530     190801     69          5          8      3816      53
## 5542      20712     77          1          4      2886      53
## 5546      44282     79          1          4      1719      60
## 5560      39169     66          3          6      8822      37
## 5572       5898     88          2          2       229      26
## 5606       7446     41          4          7      3214      39
## 5617       5375     83          1          1      2354      63
## 5618      26853     83          0          0      2468      80
## 5631       4031     73          0          0      4710      52
## 5644       7191     96          4          6      2060      49
## 5645      12185     86          3          4      3167      66
## 5650      47934     72          1          2      2429      71
## 5652      79929     99          3          4      3491      91
## 5653      13049     82          0          0      2820      42
## 5655       8158     85          2          2      2706      20
## 5657      27922     71          1          2      2314      57
## 5662      13136     45          1          3      4666      54
## 5678      10194     49          1          1      1679      55
## 5682      19240     94          3          5      3048      54
## 5686      29511     76          0          4      6191      72
## 5691      25206     84          6         13      1465      49
## 5701       7167     68          2          6      7233      55
## 5702      27265     67          0          1      4167      62
## 5713      26747     59          0          3      3633      58
## 5714      63584     88          0          0     17500      78
## 5719      42875     75          1          1      4729      52
## 5726      35786     86          3          3      6742      81
## 5730      48056     96          5          5      1958      76
## 5735     222372     87          2          2     11406      70
## 5738      33209     42          0          0      6630      52
## 5740      42962     61          0          0      3753      73
## 5742      13674     54          0          2      2367      53
## 5746      47191     85          1          1      9173      74
## 5748      13643     90          1          1      7148      80
## 5755       4332     20          1          1      2572      18
## 5774     115244     93          6          6         0      75
## 5780     124327     66          2          3      5947      45
## 5790      13729     92          3          3      1319      75
## 5805      12343     42          0          0      6663      64
## 5813       9021     90          2          5       461      46
## 5829      26988     67          0          3      1880      62
## 5837     196436    108          8         11      9963      95
## 5839      10774     54          1          8      6870      44
## 5855       7859     78          0          0      1322      81
## 5864      40797     71          2          3      3828      54
## 5871      52950     97          1          2      5530      77
## 5879      16462     56          0          0      6949      64
## 5894      50779     22          2          8      4195      28
## 5900      26821     81          3          3     11737      64
## 5905      56845     63          2          3      4910      61
## 5909       8995     22          0          0     11593      30
## 5911      59555     98          2          3      3373      78
## 5920       2442    140          2          2       135      75
## 5926     125698     75          4          7      5488      58
## 5934      27147     27          1          2     11801      49
## 5937      30226     71          2          2      2754      64
## 5939      38133     80          1          3      4221      75
```

```
## 5941        19350      45           1           2      10981       25
## 5945        12631      67           1           3        549       26
##      total_rev_hi_lim inq_fi total_cu_tl inq_last_12m acc_open_past_24mths
## 1               29200      0           3            3                    8
## 13              35500      3           0            4                    6
## 26              17100      1           0            2                    8
## 29              64400      0          14            1                    2
## 56               4500      0           2            2                    5
## 58              47700      1           0            6                   13
## 62              25700      2           0            2                    6
## 79              27300      3           4            5                   13
## 81              29500      2           1            0                    2
## 85              42600      1           6            2                    6
## 89              60200      6           0            0                    5
## 94              21100      2           1            4                    5
## 95              16600      1           0            0                    3
## 100             22400      5           1            4                    8
## 123             74700      2           0            3                   10
## 129             39500      3           1            4                    7
## 131            129300      1           0            1                    3
## 146            230300      1          10            6                   26
## 157              8400      0           3            2                    0
## 177              9000      3           0            2                    3
## 188             99600      4           0            8                    8
## 189             30900      1           4            2                    2
## 209             26100      1           4            6                    8
## 211             36400      2           0            1                    5
## 214             32500      2           0            2                    8
## 223             14300      2           0            7                    6
## 228             37600      2           0            3                    6
## 237            125200      2           1            4                    8
## 256             40400      1           1            3                    9
## 266              9400      0           0            5                    8
## 280             32900      1           0            6                    5
## 282             19400      0           0            1                    1
## 288             33800      1           4            2                    4
## 289             77900      0           2            3                    3
## 291             56700      5           0            2                    3
## 293            174400      3           2            1                   10
## 299             10200      2           5            9                    7
## 300             26600      4           3            2                    5
## 303             72800      1           0            0                    3
## 320               600      1           0            1                    2
## 333             36700      1           1            0                    4
## 339             80600      3           3            8                   15
## 342             16600      0           1            0                    4
## 363             36000      0           9            0                    6
## 372             44300      0           0            5                    7
## 380             50500      7           0            6                    9
## 398             15900      1           0            4                    3
## 401             35700      2           0            3                    6
## 404              8600      4           1            4                    3
## 437             42700      2           1            0                    3
## 447              7700      2           0            0                    5
## 448             46400      2           0            8                   14
## 449             27300      4           0            4                   10
## 457             14400      3           1            1                   10
## 463             25600      3           1            2                    8
## 472             79300      0           0            2                    5
## 478             54500      0           1            1                    3
## 489             34300      5           5            3                   17
## 492             23500      1           0            1                    2
## 498             66400      1           0            2                    4
## 510             28100     10           3            3                   15
## 511             18600      2           0            5                    1
## 521             22600      4           0            6                   11
## 522             10900      3           5           10                    5
## 534             28400      0           0            1                    2
## 535             77800      1           2            3                   14
## 538             85800      2           0            1                    3
## 539             61000      2           4            5                    8
## 554             74400      7           3            8                   16
## 557            179200      3           1            4                   12
## 573              3000      0           0            0                    1
## 574             59500      0           0            3                    7
## 586             40400      5           1            5                    5
## 595             26400      3           1            5                    7
## 599             28000      1           1            2                    5
## 603             31500      1           0            0                    2
## 604             63100      3           0            4                    8
## 633             20500      3           1            4                    3
## 643             12900      0           0            1                    4
## 657             23100      2           2            4                   17
## 661             32900      0           0            2                    7
## 666             30300      0           1            1                    3
## 686              5000      0           5            1                    3
## 693             24800      2           0            2                    3
## 701             15700      0          12            2                    6
## 714              6600      0           6            1                    3
## 723             27500      2           3            2                    4
## 732             17900      4           1           10                    9
## 733             37900      0           4            2                    7
## 735            196700      5           1            8                   16
## 736              6200      1           4            1                    5
## 741             27200      4           0            4                    6
## 742              8800      4           2           12                    5
## 751             61500      1           0            1                    6
## 756             34000      4           2            3                    9
```

```
## 759          27900     2          3          1                  7
## 762          37000     2          1          5                  4
## 763          13300     7          0         10                  9
## 765          29800     2          2          2                 12
## 768          35600     1          2          1                  5
## 773          11300     0          0          1                  3
## 774          40000     3          2          3                  7
## 776          62800     6          2          7                  8
## 783          59200     4          1          3                  4
## 785           4600     1          0          2                  2
## 842          14300     2          1          0                  2
## 864          51500     1          3          2                  7
## 865          29500     4          0          3                  2
## 868          11700     0          0          1                  0
## 876         226900     1          2          0                  7
## 888          10500     3          2          5                  5
## 927           7000     0          0          1                  5
## 929          39900     3          5          2                 10
## 941          26000     0          0          1                  4
## 944          57700     2          6          2                  3
## 947         166900     0          0          1                  9
## 948          56500     0          5          1                  1
## 959          16000     2          1          3                  4
## 970          57400     0          8          1                  5
## 973          23600     3          0          0                  2
## 979          46000     2          2          2                  8
## 980          36400     3          4          5                  5
## 981          53000     2          9          1                  4
## 987          18500     1          1          8                 10
## 991          18600     1          1          0                  4
## 1001         59600     2          2          4                 11
## 1004         25900     4          1          5                  8
## 1010         22200     1          0          5                  2
## 1016          5000     0          0          1                  0
## 1018         64800     1          1          1                  5
## 1019         42500     1          0          4                  0
## 1042         38700     2          1          1                  9
## 1079          4500     1          1          2                  2
## 1087         14000     5          5          4                 12
## 1093         70900     1          0          3                  4
## 1103         18500     4          1          3                  2
## 1127         37200     1          0          0                  6
## 1132         29800     1          0          2                  3
## 1137         28500     4          1          4                  9
## 1138         32100     5         16         10                  8
## 1140         33500     1          2          1                  4
## 1144         19900     5          0          7                  7
## 1145         41000     1          0          4                 10
## 1154         38000     0          7          0                  4
## 1156         17700     0          0          3                  6
## 1157         34600     2          7          6                 11
## 1160         32200     2          9          5                  6
## 1162         44600     1          1          2                  8
## 1165         28300     5          0          8                  6
## 1176         93900     1         11          1                  8
## 1180         52500     1          7          9                 14
## 1182         21300     3          1          2                  4
## 1183         48600     1          2          0                  8
## 1184         34500     5          3          8                 20
## 1185         20500     2          1          4                  7
## 1201          3000     4          1          9                  5
## 1204         43000     1          0          2                  6
## 1234         35800     1          0          0                  3
## 1235         40200     1          0          0                  3
## 1236         55200     4          0          3                  6
## 1240         25200     2          1          0                  4
## 1288         40600     4          0          2                 14
## 1289         34100     1          0          2                  3
## 1297         27400     2          0          3                  8
## 1303         23300     0          0          1                  2
## 1305         17000     5          5          7                  7
## 1318         24800     1          0          1                  3
## 1331         53400     1          4          4                 12
## 1332          5300     3          0          3                  4
## 1333        117100     2          1          4                  2
## 1350         33900     3          2          4                  8
## 1358         60000     0          6          0                  7
## 1359          5100     1          0          2                  4
## 1364         21800     2          0          2                  4
## 1370         61700     0          2          1                  4
## 1372         16900     0          1          1                  2
## 1377         34000     2          2          0                  2
## 1381         28500     1          0          1                  6
## 1387         37500     1          2          5                  7
## 1401         38600     0          0          0                  5
## 1405         23300     1          1          3                  6
## 1417         27600     0          1          1                  1
## 1423        145900     1          0          4                 10
## 1426          5100     1          0          1                  4
## 1429         74700     1          1          2                 10
## 1436         14100     2          0          7                 11
## 1448         34200     1          0          1                  2
## 1454          3200     0          0          2                  1
## 1458         49900     3          0          0                  4
## 1467         12200     1          0          1                  4
## 1471         47300     1          0          2                  1
## 1474         23200     3          2          2                 11
## 1491         85200     0          3          0                  5
```

```
## 1495          57000     1          0          0                  3
## 1498          50600     2          0          5                 15
## 1508          60500     0          2          2                  7
## 1515           8100     0          0          1                  3
## 1528          22500     0          0          0                  1
## 1536          21000     1          0          3                  4
## 1541          26300     4          2          9                  9
## 1549          11400     0          0          2                  2
## 1556          30700     5          2          4                  6
## 1561          44100     0          5          0                  7
## 1563          40500     1          5          2                  6
## 1565          46900     1          3          0                  8
## 1586          17100     0          4          2                  5
## 1587          56800     4          0          9                  6
## 1589          16000     2          3          2                 10
## 1602          12300     0          7          8                  6
## 1615          35600     4          2          3                  5
## 1625          10100     2          0          5                  5
## 1630          17000     1          0          1                  2
## 1635          22900     1          1          5                  7
## 1654          23600     0          3          0                  1
## 1655           9500     0          0          0                  2
## 1670          43100     2          0          4                  6
## 1682          23000     1          0          5                  8
## 1687          21900     5          0          3                  5
## 1690          23600     1          7          5                  4
## 1694          49500     3          5          2                  7
## 1695          11000     1          1          0                  4
## 1697          19800     0          0          1                  3
## 1698           4600     0         19          1                  7
## 1705          78600     0          0          0                  7
## 1709         109600     2          1          0                 11
## 1719          20800     1          0          4                 11
## 1720         161000     4          0          7                 12
## 1731          99500     0          3          2                  4
## 1736           4800     1          0          3                  5
## 1740          26400     1          0          3                  7
## 1745          44700     3          1          2                  3
## 1746          37800     0          4          1                  4
## 1758          53600     0          0          0                  0
## 1769          28000     1          2          1                 11
## 1778          29100     0          0          2                  5
## 1793          19800     3          4          2                  5
## 1795           9900     3          5          4                  6
## 1797          63100     3          6          5                  7
## 1800          72200     1          0          2                  4
## 1807           6100     4          0          8                  3
## 1815           5900     0          2          1                  6
## 1818          44400     0          2          1                  3
## 1826           8500     0          0          0                  2
## 1827           7300     5          0          1                 11
## 1835          70600     3          1          9                 17
## 1837          11200     1          1          2                  3
## 1840          47400     4          5          2                  7
## 1845          58100     0          5          1                  5
## 1851           9100     1          4          2                  5
## 1859          22700     4          2          4                  7
## 1863          50500     1          0          0                  4
## 1878          41900     4          9          7                 14
## 1903          39100     3          0          6                  8
## 1909          40000     3          0          6                 13
## 1914           3800     5          1          4                  9
## 1928          32800     1          1          0                  4
## 1947          10300     2          0          4                  4
## 1953          35000     3         10          4                  8
## 1955          59100     4          1          6                 12
## 1965          25000     1          1          4                  1
## 1978          47600     0          0          2                  1
## 1980          21800     2          0          2                  3
## 2007          33381     1          1          1                  4
## 2009          63900     2          8          2                  8
## 2031          28900     5          1          1                  7
## 2040           7700     0          0          7                  4
## 2044          36800     4          0          8                  8
## 2049          56600     3          0          7                  5
## 2052          19000     0          0          2                 11
## 2057          16800     2          0          3                  4
## 2059          33300     9          6          4                 11
## 2063          31300     1          0          2                  7
## 2067          33000     3          2          4                  5
## 2097          33100     8          0          5                  9
## 2102           2200     2          2          2                  1
## 2106           2500     0          0          1                  0
## 2111          14000     1          0          2                  3
## 2112          22800     2          0          2                  5
## 2113         127100     1          1          1                  7
## 2118          28000     2          4          2                  6
## 2120          51400     2          2          2                  8
## 2122          44200     3         10          1                  3
## 2125          35100     1          0          1                  5
## 2130          33200     1          0          0                 10
## 2133          68800     1          5          2                  5
## 2139          22000     0          0          6                 11
## 2144          64300     4          0         11                 10
## 2156           9700     0          0          1                  1
## 2160           4200     2          0          0                  0
## 2182          11800     2          3          7                  4
## 2183          26600     2          9          2                  2
```

```
## 2186          27500     4          1          9                  9
## 2210          56300     1          0          1                  3
## 2221          31200     0          0          2                  5
## 2233           9300     2          5          1                  6
## 2235           9800     3          0          8                  5
## 2240          28500     0          2          0                  3
## 2247          16300     0          2          2                  4
## 2249          30600     1          0          3                  3
## 2251          32600     4          0          2                 14
## 2261          22300     1          1          0                  2
## 2262          23000     0          0          0                  6
## 2275          46600     2          0          3                  5
## 2284          47300     3          0          3                  8
## 2313           8500     1          2          1                  6
## 2314          22400     0          0          1                  2
## 2332          34400     2          0          3                  4
## 2333           9100     0          1          1                  2
## 2334          49200     1         10          2                  8
## 2344          19000     0          3          2                  8
## 2346          18000     2          5          0                  5
## 2349          21400     0          0          0                  1
## 2352          30700     3          2          3                  6
## 2359          13100     2          0          6                  2
## 2364          14100     5          0          8                  7
## 2371          35200     1          5          3                  4
## 2380          26900     5          2          3                  7
## 2388          66900     0          6          2                 13
## 2398          67000     2          0          4                 15
## 2400          39000     2          4          5                 16
## 2401          57800     5          2          5                 10
## 2408          72500     2          1          0                  3
## 2410          26300     3          0          3                  6
## 2415          17000     2          2          3                 11
## 2424          53600     2          7          5                  8
## 2427          25000     0          0          1                  4
## 2428          17400     1          7          2                  4
## 2445           8200     3          4          1                  8
## 2454           4000     2          0          3                  5
## 2458          41600     3          0          0                  7
## 2459           4700     1          0          0                  2
## 2461          16500     1          0          1                  4
## 2475           3700     2          0          3                  7
## 2479           2100     1          0          3                  3
## 2482           5400     0          0          1                  3
## 2497          66800     2          3          5                 12
## 2506          47400     0          0          0                  3
## 2508          26300     0          0          1                  2
## 2518            300     1          6          0                  2
## 2521          79600     2          5          2                  8
## 2526          10900     1          0          1                  4
## 2528          41000     1          1          2                  3
## 2532          27600     2          0          7                  4
## 2534          78400     4          0         10                 15
## 2537           6700     2          1          4                  6
## 2543           5400     1          1          4                  5
## 2555           4000     4          2          0                  4
## 2559          28300     2          0          5                  6
## 2565          15000     1          0          0                  1
## 2569          43200     1          0          0                  2
## 2575         130100     0          0          2                  2
## 2577           5800     1          0          1                  2
## 2584          31300     1          8          2                  2
## 2586          29300     1          1          1                  6
## 2610          36800     0         15          0                  4
## 2621          66000     1          1          2                  8
## 2634           7300     0          3          0                  7
## 2646          64000     2          0          6                 15
## 2653          20100     1          0          2                  2
## 2656          48600     3          0          2                  6
## 2664          54000     0          0          2                  4
## 2668          13300     3          2          2                  1
## 2669          15400     1          0          3                  3
## 2675          89900     1          2          5                  6
## 2676          67300     2          1          2                  7
## 2685          26200     3          4          4                 11
## 2699          88500     0          0          1                  2
## 2706          11500     1          9          1                  9
## 2711          34500     1          4          1                  6
## 2717          51600     1          0          5                  7
## 2719          35600     2          0          1                  4
## 2720          35400     2          6          5                  7
## 2728          53100     2          3          0                 10
## 2737          32500     1          2          3                  6
## 2740          22600     3          0          3                  4
## 2746          16100     3          3          4                  5
## 2748          77000     1          3          0                  3
## 2759           9500     1          0          0                  7
## 2760          43600     1          0          3                  5
## 2783          54500     6          0          7                 17
## 2784          19800     8          9          5                 12
## 2793           7200     0          4          1                  7
## 2794          16200     1          3          7                  7
## 2804           4300     0          1          1                  2
## 2809          13300     0          0          1                  8
## 2815          88400     2          9          0                  9
## 2823          16300     1          1          1                  4
## 2828          13300     0          0          1                  3
## 2829         149400     0          1          3                 21
```

```
## 2836          37400     0          0          0                  3
## 2849          11800     1          1          1                  3
## 2862          11100     0          0          0                  2
## 2864          23800     1          1          0                  1
## 2870          45100     2          3          4                 18
## 2871          31800     0          0          1                  2
## 2881          30200     0          0          5                 11
## 2890         129200     1          0          3                  5
## 2902          31400     0          2          1                  5
## 2904          23500     7          9          8                  8
## 2905          86300     0          0          1                  2
## 2909          26100     1          0          0                  3
## 2910          15200     0          2          2                  9
## 2921          24200     1          0          7                  2
## 2926          19000     0          0          0                  2
## 2937          54800     2          4          0                  9
## 2943           4500     2          0          8                  2
## 2945           8900     1          2          1                  5
## 2953          31400     1          3          3                  4
## 2963          16400     3          2          5                  7
## 2964          38700     0          0          1                  2
## 2987         162100     2         11          2                 12
## 2990          38600     0          2          1                  3
## 2996          19500     1          0          1                  9
## 2997          28500     1          0          3                  8
## 2998          45100     3          0          5                  9
## 3011          33100     1          0          3                  2
## 3013          11200     0          0          1                  6
## 3014          64700     0          5          0                  7
## 3015          50000     4          6          6                 13
## 3019          76500     2          3          6                  4
## 3020          34900     3          0          6                  5
## 3038          27700     0          3          0                  3
## 3046          30000     3          0          3                 18
## 3055          26500     2          0          1                  2
## 3066          66000     3          0          6                  0
## 3068          11500     0          1          1                  4
## 3069           5800     5          1         12                  9
## 3077          26200     3          5          3                  6
## 3091          19800     0         14          1                  9
## 3109          69600     2          0          3                  7
## 3110          14600     0          2          1                  4
## 3111          48600     8          7          7                 11
## 3114          27000     2          9          0                  6
## 3115          15400     3          4          2                  6
## 3127          42300     4          2          5                  3
## 3128          25600     2          6          3                  8
## 3129          16400     0         12          1                  6
## 3139          31000     0          1          1                  3
## 3144           8000     7          6          7                  6
## 3148          15700     3          0          8                 16
## 3157          19800     0          0          1                  1
## 3167           6100     0          0          1                  1
## 3168           8500     2          1          3                  6
## 3191          56300     2          0          2                  5
## 3192          29300     0          0          3                  4
## 3195          20100     1          1          3                  2
## 3197          85800     1          2          4                  7
## 3207          25700     0          1          0                  5
## 3220          20700     1          5          3                  3
## 3235           3000     2          0          0                  2
## 3240          29000     1          0          0                  0
## 3242          14100     0          6          2                  4
## 3245          53200     2          0          2                  7
## 3248           8300     2          1          6                 11
## 3249          58500     1          5          3                 13
## 3250          39300     1          1          0                  4
## 3253          35100     0          0          1                  4
## 3255          70400     3          0          6                  5
## 3263          19100     0          0          0                  2
## 3264          14000     1          2          3                  1
## 3275          25700     2          1          9                  3
## 3284          35900     2          1          4                  8
## 3301          67300     0          0          0                  3
## 3324           8000     0          0          3                  6
## 3327          54600     2          2          4                  8
## 3328          16700     0          1          2                  4
## 3338          11600     4          0          3                  8
## 3340          16500     4          1          8                  5
## 3348          16900     0          0          3                  0
## 3373          19000     2          0          5                  9
## 3375          35100     2          3          1                  6
## 3377          39000     0          3          1                  6
## 3382          32800     4          0          1                  8
## 3385          44200     4          2          4                  9
## 3390          17600     0          0          0                  5
## 3391          24400     1          7          0                  2
## 3405          28900     0          3          0                  2
## 3414          12100     3          0          6                  7
## 3415          38800     1          0          0                  4
## 3418          14800     1          1          2                  5
## 3423          20900     2          0          5                  5
## 3437          41900     0          2          1                  1
## 3452          13200     0          2          2                  5
## 3461          10000     1          4          2                  5
## 3468         105100     0          8          3                 11
## 3470         126600     0          1          3                  5
## 3473          51700     3          0          0                  4
```

```
## 3476          37500     0         24          6                  9
## 3478          16900     1          0          1                  5
## 3495          42100     1          4          0                  4
## 3496           1700     2          0          5                  2
## 3499           1700     2          1          4                  1
## 3512          70900     0          1          3                  6
## 3514          26700     3          0          0                  4
## 3524          24900     2          0          2                  3
## 3526          10500     0          0          1                  6
## 3528          56100     2          6          1                  3
## 3529          17400     1          3          3                  3
## 3533         105600     0          1          2                  5
## 3549          18300     1          3          1                  1
## 3551          18400     0          2          2                  2
## 3552           5500     4          0          6                  4
## 3563          39000     1          0          3                  3
## 3570          43000     0          1          0                  2
## 3573          25800     0          3          2                  1
## 3583          53600     2          1          4                  7
## 3587          26400     2          0          2                  2
## 3597           9000     1          0          1                  3
## 3601           4500     1          0          3                  1
## 3609          14300     0          6          3                  1
## 3618          52200     4          5          1                 10
## 3620          34700     1          5          1                  4
## 3626          43400     2          2          2                 10
## 3627          23000     3          2         11                  5
## 3638          72400     0          1          0                  7
## 3643          26800     3          1          1                  9
## 3647          32000     1          7          1                  4
## 3652           2400     1          0          1                  2
## 3654          31500     1          1          2                  7
## 3664         137500     1          0         19                 10
## 3669          22400     1          0          2                  2
## 3676          14200     1          5          1                  2
## 3677           8600     3          0          1                  4
## 3689          19500     1          1          2                  3
## 3694          27400     1          5          1                  8
## 3695          58300     2          0          2                  8
## 3696          10400     2          0          8                  3
## 3724          30500     3          4          1                  7
## 3725          22700     0          6          0                 16
## 3753          18800     1          2          2                  7
## 3772          11100     2          0          5                  9
## 3792          38800     2          2          2                  3
## 3793          15400     5          0          4                  5
## 3795          41200     0          6          4                  4
## 3797           9200     0          1          0                  0
## 3798           9500     0          1          1                  3
## 3806           2600     1          0          4                  2
## 3812          19100     0          1          0                  6
## 3818          60200     3          0          4                 11
## 3820          21000     1          0          1                  7
## 3823          24500     1          1          1                  3
## 3829          16600    10          0          4                  9
## 3838          39300     1          0          1                  6
## 3842          14400     1          0          3                  2
## 3848          17800     2          1          3                  4
## 3863          46400     0          3          1                  5
## 3866          14300     1          3          1                  3
## 3867          42600     2          0          2                  2
## 3871          13100     4          2         13                  7
## 3880         173700     1          0          4                  5
## 3883         141200     1          8          1                  1
## 3891          32300     2          1          2                 18
## 3895          23900     2          0          0                  6
## 3896          39200     4          0          1                  8
## 3898          31900     9          0         12                  2
## 3903          27300     0          2          0                  7
## 3916          21300     0          6          3                  5
## 3928           9900     0          3          5                  3
## 3930          10000     2          1          2                  6
## 3940          35100     2          3          7                 14
## 3957          56600     0          1          2                  3
## 3966          14100     1          1          3                  6
## 3992          39800     1          6          7                 15
## 3993          19100     0          0          1                  0
## 4000          33900     1          0          1                  5
## 4004           7000     2          2          4                  4
## 4012          31500     0          8          3                  6
## 4014         127400     1          0          4                 10
## 4025          81400     1          0          0                  2
## 4029          10000     1          0          0                  1
## 4032          15500     2          0          0                  3
## 4033          14300     1          0          0                  1
## 4059          17400     2          0          1                  6
## 4066          40300     2         10          2                  7
## 4067          65400     0          1          5                  5
## 4077          28200     1          5          2                  9
## 4087          11000     1         12          1                  3
## 4088           2400     0          0          4                  3
## 4091          72600     0          0          5                  8
## 4102          51100     1          1          4                  7
## 4106          18000     1          0          3                  6
## 4112          28500     0          0          4                  3
## 4127           2500     0          0          5                  2
## 4129          43500     1          1          2                  2
## 4130           6500     1          3          5                  2
```

```
## 4134          20500     0          0          0                  1
## 4145          27400     1          5          1                  3
## 4156          31900     2          0          3                  5
## 4158          32800     5          0          1                  7
## 4166          23600     1          0          0                  2
## 4167          15500     4          0          8                  5
## 4168          24100     1          3          2                  4
## 4171          33900     1          0          2                  9
## 4176          24800     2          2          0                  2
## 4182          13800     1          0          1                  6
## 4183          11900     1          0          1                  6
## 4184          12600     1          1          0                  1
## 4187          55300     3          2          6                  5
## 4190          32200     1          2          2                  2
## 4192          39000     2          1          0                  4
## 4195          16900     7          1          7                  4
## 4218          17700     1          0          3                  3
## 4223          11600     1          3          1                  3
## 4226          18000     7          2          5                  5
## 4227          80200     1          0          6                  7
## 4242           8600     2          5          1                  3
## 4244           9900     0          2          5                  8
## 4246          15100     1          0          5                  5
## 4250          25000     4          3          3                  4
## 4264          28400     3          0          3                  3
## 4276          17300     2          1          4                  4
## 4281          21300     5          6         15                 11
## 4288          18000     3          3          0                  3
## 4296           4000     0          3          2                  3
## 4299          42800     1          0          1                 11
## 4302          30700     2          2          2                  6
## 4312          26700     2          2          0                  5
## 4315          23500     0          2          1                  2
## 4319          24300     0          0          0                  4
## 4327          22200     0          2          1                  8
## 4329          45100    13          1         29                 22
## 4332          53800     1          1          3                 12
## 4339           7300     1          1          2                  1
## 4340          18800     1          0          1                  3
## 4343           7300     1          0          3                  2
## 4345          35400     1          0          2                  7
## 4359          51500     3          2          1                  4
## 4361           7900     2          2          6                  9
## 4366          53000     1          2          0                  4
## 4373          14400     4          2          2                  7
## 4374          20400     4          0          6                  6
## 4384          92500     4          8          3                  4
## 4393          26600     0          0          2                  2
## 4396          44800     1          3          0                  5
## 4409          16300     0          0          1                  2
## 4417          15100     3          0          6                  5
## 4422         111700     0          0          2                  6
## 4434          18800    19          4         26                 11
## 4438          35700     0          0          0                  3
## 4439          53800     1         14          1                  4
## 4444          47600     4          5          5                  4
## 4446           5600     4          0          3                  9
## 4454          13100     0          0          1                  1
## 4457          20500     1          2          3                  9
## 4460          52300     0          0          2                  3
## 4462           7700     3          0          3                  2
## 4467          55800     1          1          1                 17
## 4475          10400     0          0          1                  5
## 4480          16900     1          0          4                  3
## 4493          25700     1          3          2                  6
## 4496          73800     0          1          1                  3
## 4508          32000     3          0          2                 14
## 4513          21100     3          0         13                  9
## 4515          22700     0          1          2                  5
## 4521          33000     1          0          0                  2
## 4541           2300     1          0          1                  2
## 4542          21700     0          0          1                  4
## 4549          32900     2          2          3                  3
## 4556          41000     1          2          1                  0
## 4559         105100     2         11          2                  5
## 4560           4900     6          2          4                  3
## 4570          42900     6          2          4                  7
## 4572          23100     4          5          6                  7
## 4574           6000     4          0          3                  3
## 4578          40200     2          0          6                  9
## 4582          35500     0          0          3                 10
## 4596          44100     3          6          3                  6
## 4600          29800     4          2          5                  8
## 4612          73500     3          3          0                 10
## 4619           6300     1          8          4                 10
## 4628          28200     1          0          2                  8
## 4637           7200     2          0          1                  3
## 4652           9800     0          0          3                  5
## 4655          41400     1          0          0                  5
## 4657          10600     1          1          4                  3
## 4666          53100     7          2          9                 13
## 4686           9300     2          0          4                  6
## 4689          55500     1          5          1                  4
## 4693           2800     0          0          2                  5
## 4694          26400     1          1          3                  4
## 4702          57600     1          6          2                 14
## 4705          29400     0          1          0                  7
## 4707          51000     0          0          6                  8
```

```
## 4713          24000     1          2          2                  8
## 4716           8500     0          5          2                  3
## 4727          18800     1          4          3                  5
## 4733           9100     2          0          2                  7
## 4740           7400     3          8          0                  3
## 4752          11700     4          5          2                 15
## 4757          51400     1          2          0                  5
## 4759          22100     1          0          3                  2
## 4761          15600     5          5          2                  3
## 4773          25000     0          2          3                  5
## 4782          35600     2          2          2                 10
## 4787          28800     1          0          3                  6
## 4789          31600     2          0          1                 12
## 4803          25300     1          1          9                 11
## 4826          55900     0          2          4                 12
## 4827           7900     3          0          4                  6
## 4828          34400     1          0          2                  5
## 4855         227200     1          4          4                  6
## 4857           3200     1          9          3                  6
## 4866          21500     0          0          2                  8
## 4869         167500     1          2          2                  8
## 4877          38600     1          1          1                  4
## 4881          23300     2          0          3                  3
## 4883          29700     1          1          1                  8
## 4919          14300     2          0          3                  6
## 4924          40400     1          3          5                  3
## 4932          28300     3          2          7                  9
## 4936          39800     1          0          3                  7
## 4939          25700     2          1          1                  7
## 4942          44900     1          8          2                  5
## 4964          69500     3          7          4                  8
## 4969          47500     5          8          4                 10
## 4994          52300     1          4          1                  3
## 5000          18300     3          0          3                  9
## 5002          22600     0          0          1                  5
## 5004          11500     1          0          1                  5
## 5005          28400     3          1          3                 14
## 5012          25000     0          1          0                  2
## 5013          14000     0          3          4                  7
## 5019          26400     0          0          1                  2
## 5028           6700     0          2          1                  3
## 5033          21000     2          0          6                  4
## 5056          34400     0          3          1                  3
## 5062          20200     3          2          8                 16
## 5067         166800     3          4          3                  7
## 5085          30700     0          1          4                 10
## 5101           7600     2          0          2                  8
## 5111          20100     1          1          5                  2
## 5113           6700     2          0          7                  4
## 5119          27000     1          5          4                  8
## 5121           4000     0          0          1                  0
## 5127          52400     1          1          0                  3
## 5129          21100     1          0          1                  2
## 5144          39700     1          1          1                  2
## 5146          11000     1          0          1                  5
## 5149         462200     2          0          6                 11
## 5153           6100     4          0          7                  3
## 5172          19000     0          2          0                  7
## 5175          52900     0          8          1                  8
## 5178          65000     0          3          0                  2
## 5189          26900     3          1          8                  4
## 5198          15900     0          4          2                 10
## 5199          11500     1          0          0                  5
## 5208          28400     0         12          1                  6
## 5222          35200     0          1          1                  9
## 5226          25000     1          0          0                  2
## 5227          28900     0          2          1                  4
## 5231          21800     3          1          2                  8
## 5253          20500     2          7          2                  5
## 5263          14900     2          4          2                  5
## 5272          36500     1          0          0                  5
## 5280          41000     1          1          0                  1
## 5288          44000     1          2          2                  4
## 5289          45900     0          3          2                  1
## 5293          54900     2          1          7                  2
## 5296          48900     0          1          1                  4
## 5318           7500     2          3          7                  9
## 5323         104200     1          0          5                  9
## 5338          22500     2          1          0                  2
## 5366           2600     1          3          0                  5
## 5374           7200     1         11          1                  2
## 5378          24500     2          0          4                  5
## 5386          35600     0          0          0                  1
## 5391          42700     1         17          2                  3
## 5398          54600     0          0          1                  3
## 5414          23400     0          0          2                  2
## 5423          79900     1          0          2                  4
## 5426          37000     1          2          3                  3
## 5430          53800    10         10         12                 16
## 5434          21700     5          0          2                  4
## 5439          21700     2          0          5                  9
## 5457          11700     1          0          1                  1
## 5461          12500     0          0          1                  0
## 5463          22700     3          0          1                 12
## 5469          15200     1          1          2                  8
## 5471          19900     4          3          8                  8
## 5487          14000     1          0          0                  2
## 5489          28200     5          1          6                  9
```

```
## 5493          17300      0          0          0                   5
## 5495          39100      2         11          4                   8
## 5504         122900      1          1          2                  13
## 5512           5000      0          0          2                   1
## 5520          33900      2          1          1                   8
## 5526          48000      0          4          6                  12
## 5528           2800     10          2          2                   4
## 5530          34500      2          0          7                  11
## 5542          31400      0          0          2                   6
## 5546          30300      1          3          0                   7
## 5560          95500      3          1          3                   9
## 5572          18900      2          2          4                   3
## 5606          20300      4          0          5                   8
## 5617           9000      1          0          2                   2
## 5618           5100      2          0          6                   2
## 5631          15800      1          0          0                   1
## 5644          23000      0          1          3                   7
## 5645          14700      0          2          1                   5
## 5650          15800      4          7          4                   6
## 5652          39600      2         14          3                  15
## 5653          27500      0          0          2                   1
## 5655          62700      0          0          2                   6
## 5657          14000      1          0          5                   5
## 5662          17000      0          1          3                   3
## 5678          20900      0          0          1                   2
## 5682          29000      1          0          4                   6
## 5686          27000      4          0          0                   8
## 5691          27500      6          0          4                  22
## 5701          35500      0          0          0                   6
## 5702          19800      4          7          2                  10
## 5713          34600      3          2          0                   5
## 5714          32100      0          1          4                   6
## 5719          39100      1          2          2                   6
## 5726          12600      2          6          5                   9
## 5730          15800      4         10         10                  12
## 5735          51500      1          1          2                   9
## 5738          20000      0          1          1                   0
## 5740          22600      1          5          9                   2
## 5742           7800      1          1          2                   3
## 5746          22000      2          0          3                   6
## 5748          27100      4          2          7                   9
## 5755          16700      2          4          8                   2
## 5774          13300     22         10         31                  15
## 5780          27800      1          0          4                   3
## 5790           8800      2          0          1                   5
## 5805          28400      0          0          0                   0
## 5813          11200      0          1          4                   7
## 5829           9000      3          0          0                   5
## 5837          38500      0          5          3                  17
## 5839          51600      0          4          2                   9
## 5855           5700      1          4          4                   6
## 5864          32900      5          1          6                   8
## 5871          29600      5          7          8                   3
## 5879           7000      2          0          3                   2
## 5894          48700      2          1          6                   9
## 5900          32800      1          2          2                   6
## 5905          15300      2          1          3                   8
## 5909          66400      1          0          2                   0
## 5911          21300      1         10          2                   7
## 5920           1700      0          0          1                   2
## 5926          30700      1          1          1                   9
## 5934          85500      0          2          1                   2
## 5937          17700      2          0          6                   5
## 5939          32500      3          0          1                   8
## 5941         131100      1          3          2                   5
## 5945          46300      1          3          4                   4
##      avg_cur_bal bc_open_to_buy bc_util chargeoff_within_12_mths delinq_amnt
## 1           2428          10735    28.9                       0           0
## 13          3224           9885    58.6                       0           0
## 26           544          16302     4.7                       0           0
## 29          2590          49843    12.6                       0           0
## 56          2732           1300     0.0                       0           0
## 58           406          16172     2.0                       0           0
## 62          2811           9735     4.6                       0           0
## 79         19359           5190    68.2                       0           0
## 81         26247          12123    37.8                       0           0
## 85          4584          16505     9.3                       0           0
## 89          6500          26384    32.7                       0           0
## 94         14577           1645    64.2                       0           0
## 95         53515             71    99.6                       0           0
## 100        51868           4147    65.4                       0           0
## 123         1990          51756    15.7                       0           0
## 129        22989          29911    20.0                       0           0
## 131         3952         117949     7.9                       0           0
## 146        11283          67467    19.6                       0           0
## 157         2836            131    90.6                       0           0
## 177        59883           3958    47.2                       0           0
## 188        57529          40718    16.6                       0           0
## 189         8738          20786    11.2                       1           0
## 209        20541          13986    39.7                       0           0
## 211        10381          22296    17.4                       0           0
## 214         6036           8252    60.9                       0           0
## 223        13851           4150    69.9                       0           0
## 228         1828          31577    16.0                       0           0
## 237         8238          73045    38.4                       0           0
## 256         1236          23611    15.7                       0           0
## 266         5866           2653    49.9                       0           0
## 280         5272          12399    56.6                       0           0
```

```
## 282        966        16212   13.8                    0          0
## 288       3704         5892   28.1                    0          0
## 289      24110        47325   19.9                    0          0
## 291      17837        36953   31.2                    0          0
## 293      17536       169431    2.8                    0          0
## 299      42114         1369   79.3                    0          0
## 300       3243         7798   50.0                    0          0
## 303       2947        51999    7.9                    0          0
## 320       2549          250   58.3                    0          0
## 333      25925        18193   46.8                    0          0
## 339       9993        13970   22.8                    0          0
## 342      28509         3117   65.7                    0          0
## 363      11732          735   96.9                    0          0
## 372       6934        12302   47.9                    0          0
## 380      94920        35025   30.6                    0          0
## 398       4315         9095   39.8                    1          0
## 401       2086         7699   59.5                    0          0
## 404      11024         7178   16.5                    0          0
## 437      34836        18353   57.0                    0          0
## 447      38728         1213   68.1                    0          0
## 448       8766         4037   86.4                    0          0
## 449      13821        11643   38.4                    0          0
## 457      14550         4520   57.4                    0          0
## 463      18304         3991   68.3                    0          0
## 472       3954        28034   62.2                    0          0
## 478       2439        10745   60.9                    0          0
## 489      11330         9499   33.1                    0          0
## 492       2225         5550   72.7                    0          0
## 498      43709        21627   20.5                    0          0
## 510       4235         7895   50.0                    0          0
## 511      59021        18355    1.3                    0          0
## 521       1784         9515   51.7                    0          0
## 522       3494         6876    1.3                    0          0
## 534       4363        18861   23.0                    0          0
## 535       2182        36996   23.7                    0          0
## 538      34932        20655   62.9                    0          0
## 539      23645        39356   23.1                    0          0
## 554       1902        16570   57.8                    0          0
## 557       1315       120521   14.5                    0          0
## 573      20158           59   90.2                    0          0
## 574      24078        12084   71.9                    0          0
## 586       3077        20080    8.3                    0          0
## 595       6115        10562   34.0                    0          0
## 599      14004        12937   33.0                    0          0
## 603      69549         9305   56.3                    0          0
## 604       2904         6846   11.1                    0          0
## 633      46233        12894   13.5                    0          0
## 643      50937         8861   26.8                    0          0
## 657       1362        17252    5.7                    5          0
## 661      10260         9986   47.2                    1          0
## 666       4410         5399   70.8                    0          0
## 686       1102           13   98.7                    0          0
## 693      11124         2056   87.5                    0          0
## 701      19750         1209   81.4                    0          0
## 714       4583         2800    0.0                    0          0
## 723       5388         8879   59.6                    0          0
## 732       1202         7499   18.5                    0          0
## 733      59912         3042   43.7                    0          0
## 735      35007        24512   33.6                    0          0
## 736       3340         3700    0.0                    0          0
## 741      19601        10028   38.1                    0          0
## 742       7697         3710   57.8                    0          0
## 751       3986        55935    5.8                    0          0
## 756       5369        16330   24.0                    0          0
## 759      20232        14276   36.3                    0          0
## 762      67604         3882   87.9                    0          0
## 763      14414         8696   12.2                    0          0
## 765       8661         6121   58.6                    0          0
## 768       8889        24652   22.0                    0          0
## 773       4422         2462   53.5                    0          0
## 774      18060        21493    0.0                    0          0
## 776      17914        13736   52.8                    0          0
## 783      27452        18313   60.1                    0          0
## 785        554         1000    0.0                    0          0
## 842      15495         2752   80.8                    0          0
## 864      23092        11601   71.0                    0          0
## 865       8750        20005   32.2                    0          0
## 868      11757         2564   46.6                    0          0
## 876      88347        10603   74.1                    0          0
## 888      38839         6663   36.5                    0          0
## 927       3101          189   93.7                    0          0
## 929       5489        21383   23.6                    0          0
## 941       9028         1315   88.0                    0          0
## 944      10013        24057   32.6                    0          0
## 947      12876       146308   10.8                    0          0
## 948      26647        33161   17.1                    0          0
## 959      33975         3343   64.8                    0          0
## 970       6823        25154   39.8                    0          0
## 973       6527         5233   74.5                    0          0
## 979      27175        19992    0.0                    0          0
## 980       6287        20812    3.2                    0          0
## 981      45612        21500    0.0                    0          0
## 987      23192        15281   12.7                    0          0
## 991      23351         5104   40.0                    0          0
## 1001      6870        28177   27.4                    0          0
## 1004     14252        13042   17.5                    0          0
## 1010     27720         4047   59.5                    0          0
## 1016      3039         4181   16.4                    0          0
```

```
## 1018      20332         51144    5.8                    0          0
## 1019      50296         10059   51.6                    0          0
## 1042      14968         16827   41.2                    0          0
## 1079       4003          1447   42.1                    0          0
## 1087       4577         12844    8.3                    0          0
## 1093      10903         69767    0.2                    0          0
## 1103       4245          7000    0.0                    0          0
## 1127      21150         26825   21.1                    0          0
## 1132      73382         15318   48.6                    0          0
## 1137      13437          2261   88.9                    0          0
## 1138       4130          7332    4.8                    0          0
## 1140       3627          9231   63.1                    0          0
## 1144       4723          5379   35.2                    0          0
## 1145       1330         11497   54.9                    0          0
## 1154       6136          7871   60.6                    0          0
## 1156       6846          4824   66.0                    0          0
## 1157      15177          6602   56.3                    0          0
## 1160      20421         14647   25.6                    0          0
## 1162      26105         17381   50.3                    0          0
## 1165       2158         22141   12.5                    0          0
## 1176       7092         51656   29.6                    0          0
## 1180       9383         27375   28.5                    0          0
## 1182       4136          8942   45.1                    0          0
## 1183      16915         17432   30.5                    0          0
## 1184       1549         21543   22.2                    0          0
## 1185       7107           847   95.4                    0          0
## 1201      10656          1331   26.1                    0          0
## 1204      25521         16434   54.1                    0          0
## 1234       2718         12888   57.1                    0          0
## 1235       1015         38581    4.0                    0          0
## 1236       2565         40371   15.2                    0          0
## 1240       5404          3583   80.3                    0          0
## 1288      19253         12935   57.3                    0          0
## 1289      18306         27788    9.2                    0          0
## 1297       5555         15605   22.0                    0          0
## 1303       1770          1223   89.7                    0          0
## 1305       6525           317   84.9                    0          0
## 1318       6358         20059   19.1                    0          0
## 1331      30784         34987   13.6                    0          0
## 1332      44121          2132   39.1                    0          0
## 1333       9174         56161   52.0                    0          0
## 1350       9792          9647   69.7                    0          0
## 1358      12025         16972   15.6                    0          0
## 1359       2818          2741   34.7                    0          0
## 1364       3579          8014   58.9                    0          0
## 1370      20807         38823   25.2                    0          0
## 1372      42563          9700    0.0                    0          0
## 1377      56668         23911    0.4                    0          0
## 1381       1480         13616   28.0                    0          0
## 1387      92292          8235   78.0                    0          0
## 1401       3683         29372    1.1                    1          0
## 1405      11332          7132   54.3                    0          0
## 1417       5702          8133   69.1                    0          0
## 1423       2604         48657   45.0                    0          0
## 1426      44745           939   69.7                    0          0
## 1429      25709         28141   32.8                    0          0
## 1436      12313          3405   58.0                    0          0
## 1448       1293         17988   11.4                    0          0
## 1454        556          2904    9.3                    0          0
## 1458      12715         29298   23.9                    0          0
## 1467      28339         12105    0.8                    0          0
## 1471      24915         30810   23.2                    0          0
## 1474      20621         10386   36.3                    0          0
## 1491      19097         28183   50.3                    1          0
## 1495       3671         33993   36.8                    0          0
## 1498       1667         29760   14.2                    0          0
## 1508       2163         34712   29.7                    0          0
## 1515       3518          3061   55.6                    0          0
## 1528       4681          2397   89.3                    0          0
## 1536      33294         10474    5.6                    0          0
## 1541      23921         11140   48.2                    0          0
## 1549       7844          6881   34.5                    0          0
## 1556      28403          4708   78.5                    0          0
## 1561       2092         24246    2.6                    0          0
## 1563      31906          9050   17.7                    0          0
## 1565      22573         13420   46.7                    0          0
## 1586      12790         13912    7.3                    0          0
## 1587      13288         11787   43.3                    0          0
## 1589       8896          3994   63.7                    0          0
## 1602       7378          1717   79.1                    0          0
## 1615        970         11392    2.6                    0          0
## 1625       3181          6316   26.6                    0          0
## 1630       2987          1878   88.6                    0          0
## 1635       5754         20593   10.1                    0          0
## 1654       2897          1154   89.1                    0          0
## 1655      14711          1295   67.6                    0          0
## 1670      18732         29043   32.6                    0          0
## 1682       5125         11389   36.0                    0          0
## 1687      12989         15865   11.4                    0          0
## 1690       5013         10327   56.2                    0          0
## 1694      38140         26297    5.4                    1          0
## 1695       5602          2814   55.3                    0          0
## 1697       1716          3080   81.4                    0          0
## 1698      22223          1241   50.4                    0          0
## 1705       9960         37417   43.1                    0          0
## 1709       6307         30693    6.7                    0          0
## 1719       1380          5971   54.1                    0          0
## 1720      38251        109979   13.7                    0          0
```

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## 1731      10830         69388   20.0                    0          0
## 1736      58628          3466   27.8                    0          0
## 1740       1121         12218   23.2                    0          0
## 1745      22399         35346    8.7                    0          0
## 1746      17462          1652   92.2                    0          0
## 1758       9155          9771   75.6                    0          0
## 1769       5537          8522   38.2                    1          0
## 1778      12078          7956   61.2                    0          0
## 1793       7893         10034   35.3                    0          0
## 1795      31275           217   95.4                    0          0
## 1797       2039         41061   16.0                    0          0
## 1800       2849         45499   37.0                    0          0
## 1807      39318          1082   73.6                    0          0
## 1815      11325          1466    2.3                    0          0
## 1818       7104         37971    4.8                    0          0
## 1826      30713           352   83.2                    0          0
## 1827      14391           496   83.5                    0          0
## 1835       2564         32362   25.1                    0          0
## 1837      89625           610   88.9                    0          0
## 1840      25095         17656   26.7                    0          0
## 1845      56327          5939   53.2                    0          0
## 1851      21574           467   90.7                    0          0
## 1859       2855         14031    8.9                    0          0
## 1863      42108         46392    8.1                    0          0
## 1878      24974         10092    0.1                    0          0
## 1903      26934         24114   21.5                    0          0
## 1909      20717          5955   61.2                    0          0
## 1914      37928          1212   38.8                    0          0
## 1928      23196         14256   56.5                    0          0
## 1947      12778            39   99.1                    0          0
## 1953      53562          6000    0.0                    0          0
## 1955       6730         20595   31.5                    0          0
## 1965      20059          1321   92.9                    0          0
## 1978       1725         20662   34.0                    0          0
## 1980       3881          2061   63.2                    0          0
## 2007       4417          4237   79.1                    0          0
## 2009       8506         20169   43.3                    0          0
## 2031      10810          2417   73.7                    0          0
## 2040      19145          4918   27.7                    0          0
## 2044      10321         18424    2.0                    0          0
## 2049      17866         35548   16.6                    0          0
## 2052       4717          8591   10.5                    0          0
## 2057      29124          6681   25.8                    0          0
## 2059      12680          4621    7.6                    0          0
## 2063       2124         23833   21.3                    0          0
## 2067      30848         20650   13.6                    0          0
## 2097      17617         11563   24.4                    0          0
## 2102       2217          1647   13.3                    0          0
## 2106       4939          2181   12.8                    0          0
## 2111       6184          8511   39.2                    0          0
## 2112       3834          8436   61.3                    0          0
## 2113      11664         53324   41.6                    0          0
## 2118       1066         10776   20.2                    0          0
## 2120      22803         37680   22.1                    0          0
## 2122       9906         12840    9.6                    0          0
## 2125       1659         14695   21.8                    0          0
## 2130       2948           213   95.8                    0          0
## 2133      19812         18117   63.0                    0          0
## 2139      18496           900   83.3                    0          0
## 2144       5880         27312   30.7                    1          0
## 2156      26790          2116   71.0                    0          0
## 2160      21150             3   99.9                    0          0
## 2182      15808          2800   41.7                    0          0
## 2183       9638          1970   83.3                    0          0
## 2186       2794          9221    6.9                    0          0
## 2210       6869         44402   17.5                    0          0
## 2221       7473          1567   91.6                    0          0
## 2233        372           488   67.5                    0          0
## 2235       8543          8489    0.1                    0          0
## 2240       3210         20038   23.5                    0          0
## 2247       5368          1585   86.2                    0          0
## 2249       8552         30294    1.0                    0          0
## 2251       1637         24245    0.2                    0          0
## 2261       1380         11941   28.9                    0          0
## 2262      24020          2435   40.6                    0          0
## 2275      39025         31510   21.8                    0          0
## 2284      10122         41227    6.9                    0          0
## 2313      44111          2694   65.0                    0          0
## 2314       1942          1961   52.2                    0          0
## 2332       5845         27208   11.1                    0          0
## 2333       6190          3365   32.7                    0          0
## 2334       3613         28268   16.9                    0          0
## 2344       5225          1913   94.1                    0          0
## 2346      15289           633   94.7                    0          0
## 2349       3615          2014   80.8                    0          0
## 2352      32438         10505   32.2                    0          0
## 2359      25855         11237   14.2                    0          0
## 2364        904          6141   43.7                    0          0
## 2371       4591         20229   17.8                    0          0
## 2380      32108         13288   21.4                    0          0
## 2388       3417         12137   24.6                    0          0
## 2398        986         38723   21.1                    0          0
## 2400       4141          5777   52.3                    0          0
## 2401      13069         24293   32.0                    0          0
## 2408      30301         55009    1.6                    0          0
## 2410       5365         11456   47.4                    0          0
## 2415       1659          4657   45.8                    0          0
## 2424      19481          1087   93.0                    0          0
```

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## 2427       4815         22486    10.1                        0          0
## 2428      28777          6134    43.7                        0          0
## 2445      18553           128    95.3                        0          0
## 2454      13675           855    65.8                        0          0
## 2458       1907          2317    89.3                        0          0
## 2459      11107          2984    25.4                        0          0
## 2461      27990           223    97.1                        0          0
## 2475      17333          1800     0.0                        0          0
## 2479      30640          1540    26.7                        0          0
## 2482       2341          2709    28.7                        0          0
## 2497      10314         27247    33.1                        0          0
## 2506       5423         19091    34.4                        0          0
## 2508       1454         15634    36.2                        0          0
## 2518       1507           290     3.3                        1          0
## 2521       7382         15964    45.7                        0          0
## 2526      16668           828    89.5                        0          0
## 2528      22650           476    98.0                        0          0
## 2532      11145         11337    53.0                        0          0
## 2534      35787         33063    39.7                        0          0
## 2537       8098           695    65.3                        0          0
## 2543      25460           355    55.6                        0          0
## 2555      27246           480    84.0                        0          0
## 2559       7275         15733     2.9                        0          0
## 2565        969         12424    17.2                        0          0
## 2569      19202         19627    51.5                        0          0
## 2575      17272         67483    48.1                        1          0
## 2577       9579          3345    41.3                        0          0
## 2584       7192          6409    71.9                        0          0
## 2586       5949          9367    43.9                        0          0
## 2610       3504         25449    26.4                        0          0
## 2621      10573         17918    51.3                        0          0
## 2634      11581           720    83.3                        0          0
## 2646       8020         54152     4.3                        0          0
## 2653      50930          6445    67.8                        0          0
## 2656      10558         14215    63.0                        0          0
## 2664     142509         40357    32.6                        0          0
## 2668       9766          5578    44.8                        0          0
## 2669       4543          9566    16.8                        0          0
## 2675       7514         39817    37.1                        0          0
## 2676       2305         36820    26.5                        0          0
## 2685      24652          8463    42.4                        0          0
## 2699      12172          7774    55.6                        0          0
## 2706       1896          3276     0.0                        0          0
## 2711       2305          4979    47.0                        0          0
## 2717      16988         21319    30.8                        0          0
## 2719      19252         22756    21.0                        0          0
## 2720      12351          7370    33.0                        0          0
## 2728      69301         20570    53.4                        0          0
## 2737       1240         23877    15.3                        0          0
## 2740       3179         15214    32.7                        0          0
## 2746       3325          5921    56.5                        0          0
## 2748       9896         38591    38.7                        0          0
## 2759       2112          3047    53.1                        0          0
## 2760       9491         31707    20.9                        0          0
## 2783       1207         27094    23.3                        0          0
## 2784      27217         10313    41.1                        0          0
## 2793       9604          2470    50.3                        0          0
## 2794      43285           334    97.1                        0          0
## 2804       3818             0   100.2                        0          0
## 2809        907         10826     8.3                        0          0
## 2815      34987         21771    41.7                        0          0
## 2823       3782          5754    53.2                        0          0
## 2828      27855          3785    65.0                        0          0
## 2829      10802        113043     8.7                        0          0
## 2836       4110          3720    81.4                        0          0
## 2849      36712          3105    50.7                        0          0
## 2862      27638          1844    73.7                        0          0
## 2864       2820         14939    36.2                        0          0
## 2870      14354         28554    22.0                        0          0
## 2871       2566         29659     6.7                        0          0
## 2881       1413          7061    37.5                        0          0
## 2890      12020         74210    18.3                        0          0
## 2902      10661         20683    26.7                        0          0
## 2904      25052          3381    79.1                        0          0
## 2905      11369          2970    96.1                        0          0
## 2909      17955          8472    55.6                        0          0
## 2910       2943          9703    26.5                        0          0
## 2921      59609          3535    85.0                        1          0
## 2926       4437          5115    63.5                        1          0
## 2937       1929         18929    11.5                        0          0
## 2943      17647           269    91.0                        0          0
## 2945       3838          2010    56.3                        0          0
## 2953      17460          3035    89.2                        0          0
## 2963      31749          2381    32.0                        0          0
## 2964       2973          1301    89.3                        0          0
## 2987      14193        118092    19.4                        0          0
## 2990       5495         16346    53.0                        0          0
## 2996       2738         13500     0.0                        0          0
## 2997      20757         17012    40.3                        0          0
## 2998      33259         28501    36.8                        0          0
## 3011       3043         26180    20.9                        0          0
## 3013      69105          7806    27.7                        0          0
## 3014      35495           510    89.8                        0          0
## 3015      23856         11396     0.9                        0          0
## 3019      20225         43433    36.1                        0          0
## 3020      22472         14984    51.4                        0          0
## 3038      13805         10898    60.7                        0          0
## 3046      18012         14361     7.9                        0          0
```

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## 3055      45940         19370   12.0                    0          0
## 3066      17904         12481   81.1                    0          0
## 3068       3926          1605   75.3                    0          0
## 3069      21358           285   71.5                    0          0
## 3077       6018         24569    3.7                    0          0
## 3091       2649          5112   13.4                    0          0
## 3109      13311         20983   18.7                    0          0
## 3110       3255           873   85.5                    0          0
## 3111      15481         18492   35.1                    0          0
## 3114      22179          3519   84.1                    0          0
## 3115       2925          6585   36.1                    0          0
## 3127      36962         26779   26.2                    1          0
## 3128      17746         13705   21.2                    0          0
## 3129       2755          3573   65.0                    0          0
## 3139       1583          4520   78.6                    0          0
## 3144       6116          2582    7.8                    0          0
## 3148       2120          5031   42.2                    0          0
## 3157      15470           491   92.4                    0          0
## 3167       8168          1125   79.5                    0          0
## 3168       5976          4357   33.0                    0          0
## 3191      40958         36087   35.9                    0          0
## 3192      41097         24225   13.5                    0          0
## 3195      49785          3199   84.1                    0          0
## 3197      10997         52937    6.8                    0          0
## 3207      14667          3306   83.4                    0          0
## 3220     110415         11318   45.3                    0          0
## 3235       9359          3000    0.0                    0          0
## 3240      17165         28851    0.5                    0          0
## 3242      39072          1901   83.2                    0          0
## 3245      22853         28569   25.4                    0          0
## 3248      18040          4428   11.4                    0          0
## 3249       3381         33579    1.5                    0          0
## 3250       2786          3897   64.6                    0          0
## 3253       9920         22372   36.3                    0          0
## 3255       6184         30043   41.7                    0          0
## 3263      36763         10212   44.2                    0          0
## 3264       7202          4688   47.9                    0          0
## 3275       3397         13000   26.6                    0          0
## 3284       1548         18115   45.3                    0          0
## 3301       2507         38995   34.8                    0          0
## 3324      13566           929   72.7                    0          0
## 3327       6246         35666    3.6                    0          0
## 3328       6428          6267   39.7                    0          0
## 3338      13023          3288   31.5                    0          0
## 3340       8290          6775   41.1                    0          0
## 3348      17252           315   97.7                    0          0
## 3373      13137          5799   63.1                    0          0
## 3375       4296         16398   27.8                    0          0
## 3377      13018         15336   60.7                    0          0
## 3382      35072         10729   32.1                    0          0
## 3385      20972         23711   11.9                    0          0
## 3390       2830          7273   34.5                    0          0
## 3391       5109          1388   92.5                    0          0
## 3405       3407          3208   66.2                    0          0
## 3414       7617          1117   72.1                    0          0
## 3415      26272          7692   71.3                    0          0
## 3418        332         11044   13.7                    0          0
## 3423      37450           472   97.0                    0          0
## 3437      13482         13453   60.3                    0          0
## 3452      66290          2858   78.3                    0          0
## 3461      15547           296   90.5                    0          0
## 3468      17037         49350   25.9                    0          0
## 3470      14780         80443   16.6                    0          0
## 3473       4279          7147   84.7                    0          0
## 3476      33915         26937   24.1                    0          0
## 3478      23032         10418   38.4                    0          0
## 3495      15404          2307   93.6                    0          0
## 3496      28057           464    7.2                    0          0
## 3499       5336           352   64.8                    0          0
## 3512       2236         49692   14.0                    0          0
## 3514       3581         22705   11.7                    0          0
## 3524      18889         14100    0.0                    0          0
## 3526       1800          7107   14.4                    0          0
## 3528       3774         45846    2.5                    0          0
## 3529      21665          8190   52.9                    0          0
## 3533       8839         42426   20.3                    0          0
## 3549       7093          3687   78.9                    0          0
## 3551      36048          3441   77.4                    0          0
## 3552      77282           536   90.3                    0          0
## 3563       8486         19236   42.6                    0          0
## 3570      31577         21210   50.7                    0          0
## 3573       4725         22622   11.3                    0          0
## 3583      22766          7425   66.1                    0          0
## 3587       9243         18956    0.2                    0          0
## 3597       2015          2596   52.8                    0          0
## 3601       4686           404   86.5                    0          0
## 3609       9897           194   97.2                    0          0
## 3618      22951         37156   21.3                    0          0
## 3620       7376         20862   23.3                    0          0
## 3626       2864         29178   24.0                    0          0
## 3627       8214          5895   65.3                    0          0
## 3638      16639         56287   22.3                    0          0
## 3643      22181           924   86.0                    0          0
## 3647       8376          7623   55.4                    0          0
## 3652        935          1345   36.0                    0          0
## 3654      10996         25700    0.0                    0          0
## 3664      64635         56807   18.6                    0          0
## 3669       2277         10010   25.9                    0          0
```

```
## 3676        3539            792    82.4                        0           0
## 3677        1526           6602    23.2                        0           0
## 3689        2315           8752    44.3                        0           0
## 3694        7290          10600     0.0                        1           0
## 3695       27513          35990    38.3                        0           0
## 3696       25910           5021    36.4                        0           0
## 3724        2991          26056    14.6                        0           0
## 3725        1531           3686    37.5                        0           0
## 3753       19080           7431    37.0                        1           0
## 3772       28337           4467    42.7                        0           0
## 3792        4413          32138     5.2                        0           0
## 3793        2607           8904    27.6                        0           0
## 3795        2315          12876    32.2                        0           0
## 3797       58496            153    97.6                        0           0
## 3798       23563           3847    59.5                        0           0
## 3806        3022              0   102.0                        0           0
## 3812        1903           3193    50.1                        0           0
## 3818        1154          19451    43.6                        0           0
## 3820        2529           7596    41.6                        0           0
## 3823        1967          14451    15.0                        0           0
## 3829       37364           5057    57.1                        0           0
## 3838        7421           9720    65.3                        0           0
## 3842       84351           5562     7.3                        0           0
## 3848       38934            438    91.1                        0           0
## 3863        7799          13502    62.5                        0           0
## 3866        6384           1769    55.8                        0           0
## 3867        1255          20676    19.2                        0           0
## 3871       10985           3308    42.0                        0           0
## 3880       65073            925    95.8                        0           0
## 3883       41092           5054    77.0                        0           0
## 3891        2058          11957    42.8                        0           0
## 3895        4565           9333    20.9                        0           0
## 3896       24690            977    93.6                        0           0
## 3898       34305          25224     9.6                        0           0
## 3903       12869            739    94.0                        0           0
## 3916       16049           3800     0.0                        0           0
## 3928       50533           7592    20.9                        0           0
## 3930       11946              0   102.1                        0           0
## 3940        2876          17354    26.5                        0           0
## 3957        4504          21267    52.1                        0           0
## 3966         870           7227    14.0                        0           0
## 3992        4650          12422    26.1                        0           0
## 3993        8737            221    98.3                        0           0
## 4000        5394            438    97.7                        0           0
## 4004        3696           5378    23.2                        0           0
## 4012       16315          17600    12.0                        0           0
## 4014       10944          69377    17.1                        0           0
## 4025       55618           4134    90.1                        0           0
## 4029        3577           1096    86.1                        0           0
## 4032       51397           2962    78.1                        0           0
## 4033       71780          11290    21.0                        0           0
## 4059       52985           6198    53.0                        0           0
## 4066        5674          26661     9.9                        0           0
## 4067       18228          14593    57.7                        0           0
## 4077        3604          14317    45.8                        0           0
## 4087       10424           8005     2.4                        0           0
## 4088       31377            138    94.3                        0           0
## 4091       15640          40292    42.9                        0           0
## 4102       21961          22075    53.1                        0           0
## 4106        3345           6823    57.4                        0           0
## 4112       39281           7293    38.2                        0           0
## 4127        6818            439    12.2                        0           0
## 4129       11468          19544    52.9                        0           0
## 4130        4679            140    86.0                        0           0
## 4134       42728            570    97.2                        0           0
## 4145        2622           1150    64.1                        0           0
## 4156       33660          23305    26.9                        0           0
## 4158        2966          29844     9.0                        0           0
## 4166        3751           6230    62.5                        0           0
## 4167      127208          13096    15.5                        0           0
## 4168       63974           9320    28.9                        0           0
## 4171        2913           9101    65.0                        0           0
## 4176       35312           6750    66.1                        0           0
## 4182        1050           4204    55.7                        0           0
## 4183        5005           1879    44.7                        0           0
## 4184        5268            368    92.6                        0           0
## 4187        7348          11376    78.4                        0           0
## 4190       25461           2151    89.5                        0           0
## 4192       54265           7900    79.7                        0           0
## 4195       15192            569    95.1                        0           0
## 4218       16397           7774    35.2                        0           0
## 4223        3580           1121    68.9                        0           0
## 4226        2218           8007    13.0                        0           0
## 4227       37064          29688    41.8                        0           0
## 4242       33966           2235    67.1                        0           0
## 4244        4789            800     0.0                        0           0
## 4246       25965           1596    71.5                        0           0
## 4250        2158          12532    18.1                        0           0
## 4264        5151          12254    39.9                        0           0
## 4276        4570           6731    30.6                        0           0
## 4281       15008           1560    57.8                        0           0
## 4288        7904            736    80.1                        0           0
## 4296        5228            932    76.7                        0           0
## 4299        6029          28252    19.0                        0           0
## 4302        3332          11205    32.1                        0           0
## 4312        6154          18588     4.7                        0           0
## 4315        5393            156    99.3                        0           0
## 4319       19606          10651    54.3                        0           0
```

```
## 4327        2109          15108    21.3                        1           0
## 4329         951          31387    11.6                        0           0
## 4332       12749          38633    13.0                        0           0
## 4339       10043            745    87.6                        1           0
## 4340        2044           3610    68.6                        0           0
## 4343       14509           1741    54.2                        0           0
## 4345        6738          18373    47.5                        0           0
## 4359        1246          26157    21.0                        0           0
## 4361        1748           3113    43.4                        0           0
## 4366       11874          12747    34.6                        0           0
## 4373        2567           4938    24.0                        0           0
## 4374        5599           8889    40.7                        0           0
## 4384       15625          46336    36.7                        0           0
## 4393        3169          16252    18.7                        0           0
## 4396       22370          10025    47.5                        0           0
## 4409       28144           1132    79.4                        0           0
## 4417       20304           6929    32.7                        0           0
## 4422        2959          62045    42.9                        0           0
## 4434       16196           1638    76.3                        0           0
## 4438       22216          29400     0.0                        0           0
## 4439        5357          12799    15.8                        0           0
## 4444        6167           5367    80.0                        0           0
## 4446        3042           4192    23.8                        0           0
## 4454       10748            656    87.4                        0           0
## 4457       24243           7906    33.0                        0           0
## 4460        1121          23384    43.9                        0           0
## 4462        4680           2660    62.0                        0           0
## 4467        5408          19163    53.1                        0           0
## 4475       32068           5401    32.5                        0           0
## 4480       10002           5680    26.2                        0           0
## 4493       10695          13100    44.7                        0           0
## 4496        2156          41110    25.9                        0           0
## 4508         434          12697     4.5                        0           0
## 4513        3020           9346    15.8                        0           0
## 4515       19697           3586    81.7                        0           0
## 4521        5454           3368    76.1                        0           0
## 4541       46850            835    53.6                        0           0
## 4542       25075           3294    70.1                        0           0
## 4549       11141           7571    57.7                        0           0
## 4556       30591           6063    71.1                        0           0
## 4559       13574          76872    11.3                        0           0
## 4560       11088            232    53.6                        0           0
## 4570        2066          21663    40.5                        0           0
## 4572       13773           2206    87.3                        0           0
## 4574       16997           1843    69.3                        0           0
## 4578       17030          19702    34.8                        0           0
## 4582        4650          15415    48.8                        0           0
## 4596        9837            919    96.9                        0           0
## 4600       38184          11394    57.6                        0           0
## 4612        8988          52899    12.7                        0           0
## 4619       34419           1300     0.0                        0           0
## 4628       19138            126    99.2                        0           0
## 4637        6628            579    87.1                        0           0
## 4652       14090           3096    61.8                        0           0
## 4655        2778            828    90.8                        0           0
## 4657        9806           3734    56.6                        0           0
## 4666       14954          37914    26.2                        0           0
## 4686       58029            668    64.8                        0           0
## 4689       18010           1144    88.3                        0           0
## 4693         318            373    53.4                        0           0
## 4694      104214            960    94.5                        0           0
## 4702       16618          32680    29.1                        0           0
## 4705        9511          15020    25.3                        0           0
## 4707       14527           6295    82.5                        0           0
## 4713        2149           5805    62.1                        0           0
## 4716      113259            302    96.2                        0           0
## 4727        2920           7209    48.5                        0           0
## 4733       94259            603    93.4                        0           0
## 4740       28866           1850    72.8                        0           0
## 4752        4862           7638    34.7                        0           0
## 4757        2598          26831    38.3                        0           0
## 4759        3833           3672    63.3                        0           0
## 4761       65760            546    81.8                        0           0
## 4773       31814          13949     7.0                        0           0
## 4782        4423          17470    44.7                        0           0
## 4787        2501          14330    48.5                        0           0
## 4789        7304           3116    81.5                        0           0
## 4803        4537          10605    34.1                        0           0
## 4826        7886          35686    18.2                        1           0
## 4827        1516           6468     2.0                        0           0
## 4828       25897          11373     1.1                        0           0
## 4855       37063          56996     0.9                        0           0
## 4857       12193           1300     0.0                        0           0
## 4866        1781           4284    75.1                        0           0
## 4869        2649         143833     2.4                        0           0
## 4877       14060          22598    17.2                        0           0
## 4881       14504           8065    38.4                        0           0
## 4883        7505           9604    62.0                        0           0
## 4919        2763           4505    60.1                        0           0
## 4924       26144           1818    79.6                        0           0
## 4932       31059            607    97.2                        0           0
## 4936        3555          13871    53.1                        0           0
## 4939       25901             70    98.8                        0           0
## 4942       38454            948    80.7                        0           0
## 4964       48145          28698    33.6                        0           0
## 4969       13856          23547    31.3                        0           0
## 4994       19116           6805    79.2                        0           0
## 5000        9387           7313     5.0                        0           0
```

```
## 5002       37433          2244    87.3                        0           0
## 5004        2656          5340    44.4                        0           0
## 5005       15046         26817     2.1                        0           0
## 5012        9926         21235     6.9                        0           0
## 5013       72331          8932    36.2                        0           0
## 5019        1699         12651    18.9                        0           0
## 5028        2234          5301    11.7                        0           0
## 5033       20465          2644    80.7                        0           0
## 5056       15721         26154     7.6                        0           0
## 5062        1716          1449    53.3                        0           0
## 5067       58389        105094    23.1                        0           0
## 5085        1100         16066    23.1                        0           0
## 5101       36879           491   100.3                        0           0
## 5111        2943         10580    25.0                        0           0
## 5113        3052          4619    31.1                        0           0
## 5119       12449         15022     6.1                        0           0
## 5121        3318           251    89.1                        0           0
## 5127       36057          5242    89.3                        0           0
## 5129        4047         15522    18.3                        0           0
## 5144        2161         22783    25.3                        0           0
## 5146        1388          5268    42.7                        0           0
## 5149       49999         32528    50.9                        0           0
## 5153       10031          5985     1.9                        1           0
## 5172        3794          2879    61.6                        0           0
## 5175       32750          6486    46.0                        0           0
## 5178        9417         50536     1.1                        0           0
## 5189        5931         15036    18.7                        0           0
## 5198       14969           252    95.0                        0           0
## 5199        3329          2704     9.9                        0           0
## 5208       12693          8916    54.0                        0           0
## 5222        3005         26836    10.5                        0           0
## 5226       23874         10957    54.3                        0           0
## 5227        1505         23161     3.1                        0           0
## 5231        4314          9640    35.7                        0           0
## 5253        9244          6000     0.0                        0           0
## 5263       15924          1566    82.4                        0           0
## 5272       25105         15688    33.8                        0           0
## 5280        1711         35708    12.9                        0           0
## 5288        1793         23066    22.6                        0           0
## 5289       19614          5901    72.8                        0           0
## 5293       45316         23570    17.9                        0           0
## 5296       18769         21693    54.2                        0           0
## 5318        2133          4832    28.9                        0           0
## 5323       19005         78329    13.0                        0           0
## 5338        3134         10899    51.6                        0           0
## 5366        1939          1263    51.4                        0           0
## 5374       14475           372    86.7                        0           0
## 5378       17104         14667    15.2                        0           0
## 5386       60698           754    97.9                        0           0
## 5391       10476           669    90.8                        0           0
## 5398        2095         53277     2.4                        0           0
## 5414       43595          7964    66.0                        0           0
## 5423        2961         67089    16.0                        0           0
## 5426        3793             0   100.6                        0           0
## 5430        2879         26304     8.7                        0           0
## 5434       19765          3537    75.9                        0           0
## 5439         643         14800    10.8                        0           0
## 5457       32643           661    90.9                        0           0
## 5461        2132         10449    16.4                        0           0
## 5463        1576          7524    47.0                        0           0
## 5469        1365          5527    44.7                        0           0
## 5471        4441         10079     0.2                        0           0
## 5487       25094          3652    63.5                        0           0
## 5489       34585          4906    59.1                        0           0
## 5493        8666          5570    53.2                        0           0
## 5495       11174         21965    30.3                        0           0
## 5504        2485         91312    19.5                        0           0
## 5512        2903          5000     0.0                        0           0
## 5520        1375          6035    57.2                        0           0
## 5526       14003         22332    39.6                        0           0
## 5528        1426           851    14.9                        0           0
## 5530       28913         18087    31.7                        0           0
## 5542       60996          1114    72.2                        0           0
## 5546        3980          9048    21.3                        0           0
## 5560       15309         53884    25.3                        0           0
## 5572        1098          9694     5.0                        0           0
## 5606        1161           709    87.6                        0           0
## 5617       31880          3172    57.7                        0           0
## 5618       33582          1632    60.2                        0           0
## 5631        1830          2290    67.3                        0           0
## 5644        1239          9050    41.6                        0           0
## 5645       19185          6633    32.3                        0           0
## 5650       10387           203    93.2                        0           0
## 5652       13860          5909    37.1                        0           0
## 5653       17166         19227    21.5                        0           0
## 5655        1636         55733    10.5                        0           0
## 5657       49264          9186    20.1                        0           0
## 5662        3129          3679    75.5                        0           0
## 5678        7749          1300    80.3                        0           0
## 5682        5158          3564    64.0                        0           0
## 5686       10999          3611    83.4                        0           0
## 5691       16895          8267    22.0                        0           0
## 5701        2111         15446    45.0                        0           0
## 5702       17128          6425    51.0                        0           0
## 5713       14413          5981    67.5                        0           0
## 5714        8114          7941    68.9                        0           0
## 5719       28716         11271    29.6                        0           0
## 5726       20485             0   103.7                        0           0
```

```
## 5730       10016           1542    55.9                        0           0
## 5735       15115          25063    38.9                        0           0
## 5738       32381           1966    90.2                        0           0
## 5740       32970           1661    89.0                        0           0
## 5742        2166            433    84.5                        0           0
## 5746       33194          10502    48.8                        0           0
## 5748       18216           3530    74.8                        0           0
## 5755       87866           2428    51.4                        0           0
## 5774       20361           2000     0.0                        0           0
## 5780       18669          20141    24.0                        0           0
## 5790       20971           3449    45.3                        0           0
## 5805        4113           3723    89.2                        0           0
## 5813       37934           8339     5.2                        0           0
## 5829        3834           2419    55.2                        0           0
## 5837        5871          14788    55.2                        0           0
## 5839       16569          25932    43.1                        0           0
## 5855        2109            638    80.1                        0           0
## 5864       10768           8683    45.7                        0           0
## 5871        3598          14608    39.4                        0           0
## 5879        7804             51    99.3                        0           0
## 5894       22392          19716    24.7                        0           0
## 5900       24954          15451    50.5                        0           0
## 5905       15013           3090    61.4                        0           0
## 5909       15160          40442    35.2                        0           0
## 5911       10286           4627    42.2                        0           0
## 5920         644            365    27.0                        0           0
## 5926       11554           8693    54.0                        0           0
## 5934       31067          25406    67.6                        0           0
## 5937       33956              0   102.0                        0           0
## 5939       11950           3986    81.6                        0           0
## 5941       27390          76218    21.8                        0           0
## 5945         620           9782    17.8                        0           0
##      mo_sin_old_il_acct mo_sin_old_rev_tl_op mo_sin_rcnt_rev_tl_op
## 1                   180                  69                     2
## 13                   64                 302                    15
## 26                   84                  40                     7
## 29                  136                 193                    15
## 56                  170                  64                    20
## 58                  122                 137                     7
## 62                  120                 246                     6
## 79                  155                 273                    10
## 81                  160                 196                    41
## 85                  172                 384                    19
## 89                   88                 156                     6
## 94                  107                 138                     3
## 95                  141                 133                    21
## 100                  96                 277                     6
## 123                  13                 424                     5
## 129                 197                 142                     6
## 131                 159                 225                     8
## 146                 134                 119                     3
## 157                  31                 115                    45
## 177                  94                 119                    28
## 188                 129                 376                     2
## 189                 136                 193                    25
## 209                 108                 134                     6
## 211                 173                 176                     1
## 214                 170                 168                     8
## 223                 121                 140                    14
## 228                  46                  81                     5
## 237                 138                  67                     2
## 256                 115                 220                     3
## 266                 129                 104                     4
## 280                  27                 227                     5
## 282                 184                 199                    28
## 288                 134                 163                     2
## 289                 176                 436                    27
## 291                  52                 206                    30
## 293                 126                 200                    15
## 299                  44                 205                    10
## 300                 133                 145                     1
## 303                 134                 252                     1
## 320                  57                  47                    12
## 333                 182                  76                     9
## 339                 274                  32                     4
## 342                 175                 237                     2
## 363                 158                 169                    21
## 372                 174                 272                     3
## 380                 150                 118                    14
## 398                 120                 139                     5
## 401                 161                 326                     2
## 404                 140                 156                    51
## 437                 115                 196                     6
## 447                 134                 135                    10
## 448                  49                 189                     1
## 449                 144                  89                     5
## 457                 155                  33                     3
## 463                 153                 192                     7
## 472                 173                 248                     4
## 478                 146                 252                     9
## 489                 163                 168                     3
## 492                 152                 256                    11
## 498                  98                  98                     2
## 510                 120                  40                     2
## 511                 192                 113                    30
## 521                 146                 249                     3
## 522                  81                  76                     4
## 534                 155                 171                    12
```

```
## 535          17          218           7
## 538         119          403          19
## 539         164          210           8
## 554         126          290           5
## 557         110          144           6
## 573         120           67          22
## 574         123          143           3
## 586         132          217           5
## 595         161          220           2
## 599         147          184           2
## 603         183          199          21
## 604          26          440           1
## 633         249          177          27
## 643         150          224           0
## 657          47          253          21
## 661         115          193           6
## 666         137          263          22
## 686         164          249           3
## 693         126          159          31
## 701         183          188           9
## 714         143           39           5
## 723          91           91          24
## 732          34           37           1
## 733         141          253           6
## 735          53           99           1
## 736         180           90           7
## 741          19          149           5
## 742         171          358          35
## 751         330          188          10
## 756         107          110           5
## 759         149          192           4
## 762         225          231          11
## 763         152           44           3
## 765         128          228           4
## 768         112          110           6
## 773         187          250          17
## 774         188          117          14
## 776         145          248           7
## 783          93          201           8
## 785         125          283         101
## 842          86          223          18
## 864         155          163          11
## 865         229          157          52
## 868         110          130          40
## 876         273          243           3
## 888         127          169           3
## 927          26          131           5
## 929         177          160           6
## 941         275          147          14
## 944         129          248          75
## 947         138          211           6
## 948         166          505          27
## 959          34          263          35
## 970          91          147           3
## 973         144          134          21
## 979         126          104           3
## 980         114          164          17
## 981         114          252          33
## 987         131          162           1
## 991          50          190           1
## 1001        119          113           3
## 1004         86          111           5
## 1010        316          192          19
## 1016        155          145          34
## 1018        199          152           2
## 1019        205          225          27
## 1042        136          136           5
## 1079        120          140          11
## 1087        147          156           6
## 1093        106          125          14
## 1103        137          386          39
## 1127        138          260          19
## 1132         30          450           4
## 1137        148          227           2
## 1138         97           97           6
## 1140        167          149           7
## 1144         35          135          11
## 1145         78          130           2
## 1154        239          346          16
## 1156        107           91           9
## 1157        120          140           0
## 1160        135          330          10
## 1162        146          136           6
## 1165         10          305           5
## 1176        120          126           4
## 1180        132          117           7
## 1182        121          122          23
## 1183        140          167           3
## 1184         79           63           4
## 1185        133          139           9
## 1201         12           52           1
## 1204        263          170           1
## 1234        146          423          22
## 1235        139          180          21
## 1236         39          149           4
## 1240        147          146          14
## 1288         86          102           5
## 1289        144           51          10
```

```
## 1297          49          154           8
## 1303         132          418          23
## 1305         128          311           6
## 1318         187          246          19
## 1331         145           76           3
## 1332          97           87          50
## 1333         117          293          27
## 1350         130          123           5
## 1358         157          254          10
## 1359          77           25          10
## 1364         183          206           3
## 1370         200          202          11
## 1372         202          302          17
## 1377          85          312          57
## 1381          30          280          14
## 1387          66          132           8
## 1401          75          140          19
## 1405         251          136           6
## 1417         155          162          16
## 1423         112          296           6
## 1426          94          103          10
## 1429         299          153           5
## 1436         181          225           2
## 1448          90          148          14
## 1454         147           49          36
## 1458         241          341           3
## 1467         136          156           8
## 1471         124          122          24
## 1474         101          138           4
## 1491         180          331          12
## 1495          83          178           1
## 1498         120           43           1
## 1508         163          304           2
## 1515         120          145           4
## 1528         221          161          18
## 1536         183          189           4
## 1541         186          173           7
## 1549          71          262          38
## 1556         134          159          17
## 1561         113          306           5
## 1563         185          208           0
## 1565         138          368           2
## 1586         246           58           5
## 1587         156          192           4
## 1589         149          176           3
## 1602         134          207           4
## 1615          44           71           9
## 1625         127          194           9
## 1630         251          191          23
## 1635         153          154           7
## 1654          85           95          22
## 1655         127          152           8
## 1670         119          128           3
## 1682         147          266           3
## 1687         214           55           6
## 1690         124          221          19
## 1694         103          131          12
## 1695          91           95           6
## 1697          90          105           1
## 1698         147          492           3
## 1705          88          200           4
## 1709         143          125          10
## 1719         175          145           1
## 1720          83          171           7
## 1731         146          209           9
## 1736          96           11           6
## 1740          62           56           7
## 1745         164          200           8
## 1746          96          165          15
## 1758         180          286          39
## 1769         183          180           2
## 1778         109          355           9
## 1793          71          137           8
## 1795         123           84           2
## 1797         173          424           9
## 1800          17          168           4
## 1807         168           59           3
## 1815         152          186           9
## 1818         136          289           2
## 1826         161          218           2
## 1827         156          278          16
## 1835         140          260           4
## 1837         137          221          24
## 1840         143          363          16
## 1845         141          179          16
## 1851         135          139           2
## 1859          56          208           9
## 1863         117          184          15
## 1878         120          155          17
## 1903         132          265           9
## 1909         158          357           1
## 1914          57           83          10
## 1928         145          157           9
## 1947          60           83          12
## 1953         137          262          16
## 1955         140          129           7
## 1965         250          142          33
## 1978         129           53          18
```

```
## 1980          147          242           4
## 2007          186          160          23
## 2009          129          133           4
## 2031          111          588           1
## 2040          124           54           3
## 2044          164          104          18
## 2049          162          303           2
## 2052          128          200           3
## 2057          141          226           3
## 2059          131           46           1
## 2063           91           68           5
## 2067          127          348          12
## 2097          140           63           5
## 2102           58           40          25
## 2106           48           85          37
## 2111          101          175          17
## 2112          131          187           3
## 2113          169          256           3
## 2118          157          178           3
## 2120           83           98           4
## 2122          132          240          26
## 2125          165          176           1
## 2130          160          178           4
## 2133          119          213          24
## 2139           24           65           5
## 2144          174          369           7
## 2156          142           85          24
## 2160          177          180          26
## 2182           74          136           5
## 2183          123          159          25
## 2186           60          131           5
## 2210           72           70          22
## 2221          136           58           9
## 2233           32           40           4
## 2235          112          143          17
## 2240          147           93          18
## 2247          156          177           6
## 2249          166          206         148
## 2251           85          146           6
## 2261           83          355           1
## 2262          146          290          15
## 2275          157          224           1
## 2284          120          140           6
## 2313          175          216           5
## 2314          146          166           1
## 2332          188          280           9
## 2333          110          110          89
## 2334          167          211           2
## 2344          176          246           3
## 2346          149          206          23
## 2349           76          298          40
## 2352          136          265          19
## 2359          165          280          29
## 2364           77          170           4
## 2371          142          119           3
## 2380          121          137           2
## 2388          104           81           2
## 2398          134          139           2
## 2400          113          127           2
## 2401          145          296           3
## 2408          155          289          16
## 2410          146          260           6
## 2415           79          111           5
## 2424          124          157           2
## 2427          166          165           5
## 2428          210          139           8
## 2445          178           97           7
## 2454          117          178           4
## 2458          142          256           8
## 2459          122          105          26
## 2461          128          168          21
## 2475          119          280           7
## 2479           17           73           5
## 2482          176          181          10
## 2497          128          338           2
## 2506           85          274          12
## 2508          112           75           2
## 2518          186          286          18
## 2521          129          243           9
## 2526          157           35           2
## 2528          258          267          53
## 2532          175          237           9
## 2534          123          393           1
## 2537          136          131          37
## 2543          169          296           1
## 2555          119          158          12
## 2559          109          208           3
## 2565           42           66          39
## 2569           67          248          21
## 2575          127          169          11
## 2577          177          167          13
## 2584          134          158          45
## 2586          217          135          14
## 2610          133          179           2
## 2621          158          165           1
## 2634          131           93           7
## 2646          121           50           2
## 2653          214          155          21
```

```
## 2656          198          451           20
## 2664           46          283            2
## 2668          125          133           51
## 2669          130          122            8
## 2675          189          175            3
## 2676          157          154           12
## 2685          155           55            7
## 2699          245          223           12
## 2706          169          198           24
## 2711          147          390            7
## 2717          117          389            3
## 2719          158           75            4
## 2720           97          111            4
## 2728          167          130           20
## 2737           90          379            1
## 2740          121          152            4
## 2746          261          174           68
## 2748          137          219            2
## 2759          111          174            7
## 2760          155          129            3
## 2783           63          100            2
## 2784          178          377            9
## 2793          140          138            7
## 2794          153          296            0
## 2804          133           29            9
## 2809          106          103            2
## 2815          170          289            8
## 2823          107          223            2
## 2828          191          148           20
## 2829          140          232            2
## 2836          142          337           12
## 2849          142          172           15
## 2862          121          133           26
## 2864          133          205           32
## 2870           86          219            2
## 2871          155          162            5
## 2881          192          281            8
## 2890          157          354            2
## 2902           80           50            8
## 2904          126          183            7
## 2905          124          161            7
## 2909          291          130           11
## 2910          108          100            3
## 2921           35          356            9
## 2926          155          139           51
## 2937          145          201            4
## 2943          155          105           33
## 2945          111          122           22
## 2953          123          169           10
## 2963          132          164            0
## 2964          260          146            1
## 2987          181          198            5
## 2990          167          179           11
## 2996           26           81            7
## 2997           84          287           11
## 2998          154          193            4
## 3011          212          111            4
## 3013          141          277            3
## 3014          131          148           10
## 3015          167          445            1
## 3019          105          130           14
## 3020          176          158           18
## 3038          164          177           13
## 3046          157           82            7
## 3055          195          147           28
## 3066          126          262           41
## 3068          107          197            3
## 3069           82          192            5
## 3077          170          125            4
## 3091           93          117            3
## 3109          131          132            5
## 3110          162          153            4
## 3111          140           44            2
## 3114          101           95           19
## 3115           70           82            8
## 3127          166          153            2
## 3128          121          135            2
## 3129          108          200            1
## 3139          142          142           10
## 3144          171          220           10
## 3148          136          134            3
## 3157           84          547           12
## 3167          150          134           11
## 3168          134           72           10
## 3191          191          204            4
## 3192          140          223            8
## 3195          120          270           19
## 3197          167          161            1
## 3207          141          156            2
## 3220           92          175           46
## 3235          121           90           24
## 3240           31          174           48
## 3242          141          146            3
## 3245          129          197           16
## 3248          123           36            2
## 3249          142          145            3
## 3250          140          167            1
## 3253          162          237            5
```

```
## 3255          193          237           5
## 3263           91          126           6
## 3264          139           93          36
## 3275           70          130          18
## 3284          163           70           4
## 3301           27           93          12
## 3324           81           84           6
## 3327          147          225           5
## 3328           28           64           2
## 3338          141          129           5
## 3340          268           83          11
## 3348          159          285          38
## 3373          164          272           6
## 3375          156          170           3
## 3377          116          116           8
## 3382          142          160           2
## 3385          166          287           3
## 3390          127          228          12
## 3391          170          203          26
## 3405           65          109          16
## 3414          121          200           2
## 3415          271          129           9
## 3418           97           39           6
## 3423          135          136          23
## 3437          145          189           0
## 3452          188          308           3
## 3461          127          307          13
## 3468          236          306           8
## 3470          179          237           6
## 3473          123          385          22
## 3476          108          133           5
## 3478           50          219           5
## 3495          286          188          13
## 3496           71           58          50
## 3499            4           66          60
## 3512          133          270          12
## 3514           16           50          23
## 3524          213          154          21
## 3526          150          168           2
## 3528          159          182           9
## 3529          130          174          34
## 3533          155          320          10
## 3549          124          178          46
## 3551           71           85           6
## 3552           17          236          43
## 3563          138          292          22
## 3570          106          210          32
## 3573          225          190          34
## 3583          134          178           6
## 3587          129          185          24
## 3597          121           91           1
## 3601           88          149          45
## 3609          149          157           6
## 3618          174          129           5
## 3620           65           77          51
## 3626          135          144           6
## 3627          129          250          35
## 3638           34           58           5
## 3643          143          189           4
## 3647          129          228          14
## 3652           51           55          21
## 3654          131          158          21
## 3664           42          295           1
## 3669          144          103          20
## 3676          148          223          46
## 3677          114          158          28
## 3689          110          197           7
## 3694          132          146          36
## 3695          132           96          16
## 3696          139          168           3
## 3724          141          164           8
## 3725          165          216           8
## 3753          177          184          10
## 3772          124          155          12
## 3792          141          155           4
## 3793           86          111          18
## 3795          147          235          10
## 3797          129          174          33
## 3798          129           92           1
## 3806          156          316          12
## 3812          111          123           3
## 3818          167          300           3
## 3820           85          124          19
## 3823          154          125           3
## 3829          143          248           1
## 3838          141          280           8
## 3842          147          369           6
## 3848          212          153           3
## 3863          187           94          12
## 3866          147          128           1
## 3867           29          243          73
## 3871          129          295           3
## 3880          162          299           1
## 3883          134          188           4
## 3891           79          138           4
## 3895           86          108           7
## 3896           33          160          10
## 3898          128          215           3
```

```
## 3903          178          180            0
## 3916           63           98            4
## 3928          100           93           49
## 3930          188          190            1
## 3940          153          170            2
## 3957          112           92            6
## 3966          135          146            7
## 3992          127          193            1
## 3993           86          230           26
## 4000          162          421            7
## 4004           81           46           12
## 4012           85          103            7
## 4014          163          264            4
## 4025          141          604            4
## 4029          157          313           66
## 4032          124          134           17
## 4033          137          213           33
## 4059          209          213           47
## 4066          116          116            1
## 4067          142          187            1
## 4077          138          267            2
## 4087          101           66            1
## 4088          200          216            4
## 4091           22          209            3
## 4102          121          167            6
## 4106           43          194            5
## 4112          148          214           11
## 4127          218           28           22
## 4129          118           69           34
## 4130          155          102            3
## 4134          130          162           42
## 4145          115          315            5
## 4156           78          211           11
## 4158           48           73            6
## 4166          117          263           19
## 4167          213          232            6
## 4168          148          174           25
## 4171          153           92            7
## 4176          165          139           31
## 4182          152          296            3
## 4183          153          270            1
## 4184          155          161           28
## 4187          219          450            8
## 4190          147          212           23
## 4192          199          179           34
## 4195          125          181           12
## 4218          121          152           43
## 4223           57           90            8
## 4226          151          199            3
## 4227          178          271           17
## 4242          164          182           12
## 4244          160           32            8
## 4246          152          251            6
## 4250           70          172           25
## 4264           40          164           11
## 4276          200           77            1
## 4281          121          188           10
## 4288           82          325           21
## 4296          139          133           19
## 4299          141           64            1
## 4302          114          108            3
## 4312          137           78            4
## 4315          174          201           10
## 4319          118          119           23
## 4327          126          156            1
## 4329           46           89            2
## 4332           65          337           10
## 4339          230          275           26
## 4340           41          396           16
## 4343          101          139            3
## 4345          213          255            1
## 4359          159          186           13
## 4361          120          135            9
## 4366          171           85           18
## 4373          128          334            5
## 4374           99          272           27
## 4384          161          483           11
## 4393          197          198            6
## 4396          158          189           11
## 4409          131          285           11
## 4417          235          128            7
## 4422          160          586            4
## 4434           59          151            7
## 4438          128          149            6
## 4439          122          339            1
## 4444          139          164           35
## 4446          121          195            5
## 4454          112          157           10
## 4457          123          151            7
## 4460          130          147            8
## 4462          187          123           27
## 4467          156          191            7
## 4475          159          169           17
## 4480          141          168            9
## 4493          146          180            4
## 4496           89          241            1
## 4508          174          211            0
## 4513           64          156            9
```

```
## 4515          171          209           9
## 4521          183          349          21
## 4541          123          181          23
## 4542          144          270           1
## 4549          144          144          33
## 4556          152          154          46
## 4559          130          293          15
## 4560          189          318           3
## 4570          149          330           3
## 4572          137          220           7
## 4574          139          146          14
## 4578          138          151           1
## 4582          223          127           3
## 4596          155          279          53
## 4600          153          146           8
## 4612          202          137           9
## 4619          130          141          10
## 4628          194          151           9
## 4637          231          151          17
## 4652          128          128           0
## 4655          119          188          19
## 4657           50          223          30
## 4666          146          308           2
## 4686          154          185           4
## 4689          192          349           4
## 4693           82           11           4
## 4694          187          189          19
## 4702          140          243           7
## 4705          151          167          13
## 4707          134          176          12
## 4713           58          224           3
## 4716          144          191          22
## 4727          134          157           3
## 4733          186          166          11
## 4740          131          217           5
## 4752          143          201           2
## 4757          180          138           3
## 4759           73           89          25
## 4761          122          152          46
## 4773          128          199           1
## 4782          120          272           5
## 4787          260           44          11
## 4789          128          203           2
## 4803          178          187           2
## 4826          133          165           5
## 4827          104          223           1
## 4828          170          153          11
## 4855          157          446           2
## 4857          128          225          18
## 4866           78           69          13
## 4869          151          263           4
## 4877          145          168           1
## 4881          113          138           4
## 4883          138          266          12
## 4919          129          203           9
## 4924          155          262           8
## 4932          192          158           7
## 4936          129          163           3
## 4939          170          216           5
## 4942           41          343          29
## 4964          194          115           8
## 4969          123          132           3
## 4994          134          182           8
## 5000           20          295           9
## 5002           10           86           6
## 5004           49           45           8
## 5005           79           93           7
## 5012          225          173          17
## 5013          129          278           8
## 5019           71          128          20
## 5028          110          209          21
## 5033          136          213           3
## 5056          123          188           6
## 5062          183          214           5
## 5067          148          264           3
## 5085          213           61           3
## 5101           71          193          10
## 5111          120          124          13
## 5113           90           45          10
## 5119          104          274          12
## 5121           83          167          87
## 5127          165          365          21
## 5129          150          149          17
## 5144           92          167          20
## 5146          179          160          10
## 5149          165          253           9
## 5153          212           99           1
## 5172          105           74           3
## 5175          115          105           0
## 5178          145          356           1
## 5189          200          132           1
## 5198          121          144           9
## 5199           80           58          14
## 5208           81          157           5
## 5222           64          103           4
## 5226           65          181          17
## 5227          230          212           8
## 5231          137          150           7
```

```
## 5253                85                  116                    19
## 5263               151                  220                    15
## 5272               157                  222                     8
## 5280               109                  121                    25
## 5288               124                  190                     2
## 5289               137                  229                    31
## 5293               109                  247                    26
## 5296               149                  183                    11
## 5318               138                  278                     4
## 5323               178                  265                     0
## 5338                54                  167                    16
## 5366                37                   34                    11
## 5374               115                  400                     6
## 5378               248                   84                    11
## 5386               237                  245                    13
## 5391               150                  164                    20
## 5398                82                  186                    10
## 5414                86                   77                    18
## 5423                12                   57                     9
## 5426               115                   91                     3
## 5430               141                  256                     5
## 5434               144                  183                     8
## 5439               160                  360                     5
## 5457               152                  591                    58
## 5461               123                   90                    29
## 5463                91                  350                     5
## 5469                68                   58                     6
## 5471               145                  205                     3
## 5487               119                  162                    33
## 5489               131                  128                     3
## 5493               157                  102                     2
## 5495               147                  128                    21
## 5504                57                  419                     2
## 5512                10                  160                    99
## 5520               112                  237                     2
## 5526               121                   45                     5
## 5528                42                   26                     4
## 5530               159                  246                     2
## 5542               115                  151                     3
## 5546               155                  137                    12
## 5560               166                  202                     1
## 5572                 7                  259                     7
## 5606               144                  237                     4
## 5617               169                  259                    11
## 5618               108                  146                    38
## 5631                13                  220                    32
## 5644               145                  233                     2
## 5645               141                  223                     6
## 5650               154                   78                     3
## 5652               130                  131                     2
## 5653                85                  152                    54
## 5655                46                  162                     4
## 5657               162                  217                     9
## 5662               183                  322                     2
## 5678               130                  333                     4
## 5682               164                  168                     2
## 5686               131                  187                    13
## 5691               183                  213                     4
## 5701                83                  254                     3
## 5702               107                  160                    16
## 5713               178                  137                    16
## 5714               134                  161                    51
## 5719               162                  161                     7
## 5726               145                  254                     4
## 5730               149                  347                     7
## 5735               120                  218                     2
## 5738               123                  188                    78
## 5740               131                  188                    25
## 5742               170                   93                    18
## 5746                50                  224                     1
## 5748                55                  166                     5
## 5755                81                  150                     1
## 5774                71                   76                     5
## 5780               199                  227                     9
## 5790               152                   65                     5
## 5805               296                  223                    34
## 5813                83                   82                     4
## 5829               111                  132                    13
## 5837               164                  267                     2
## 5839               132                  115                     6
## 5855               111                  246                    34
## 5864               130                  352                     8
## 5871                79                  158                     4
## 5879               134                  193                    41
## 5894               224                  186                     2
## 5900               113                  185                     3
## 5905               179                  234                     4
## 5909               235                  170                    69
## 5911                62                   68                     9
## 5920               139                   90                     0
## 5926               176                  169                    11
## 5934               159                  177                     3
## 5937                93                  385                    12
## 5939               218                  156                     1
## 5941               247                  160                     3
## 5945                36                  150                     8
##      mo_sin_rcnt_tl mort_acc mths_since_recent_bc mths_since_recent_inq
## 1                 2        0                    2                     6
```

```
## 13          12     1          17          12
## 26           4     0           7           0
## 29           5     0          15           5
## 56          13     0          20          10
## 58           7     2           8           4
## 62           6     0           6          11
## 79           3     4          10           3
## 81          16     5         132          16
## 85           9     4          19           4
## 89           6     0           6          15
## 94           1     2           3           2
## 95          21     3         127          20
## 100          6     2          92           5
## 123          5     1           5           5
## 129          4     5           6           4
## 131          8     0           8           8
## 146          3     1          11           3
## 157         31     0          61          11
## 177          8     1          28           8
## 188          2     6           2           1
## 189         14     0          33           4
## 209          6     1           6           7
## 211          1     3           1           7
## 214          8     0          10           8
## 223          1     3          14           4
## 228          5     0           5           1
## 237          2     2           2           0
## 256          3     3          16           4
## 266          4     0           4           6
## 280          5     1           5           5
## 282         14     0          31           1
## 288          2     1           2           7
## 289          6     5          27           6
## 291         12     3          30           3
## 293          1     7          15           5
## 299          1     5          10           1
## 300          1     1          38           7
## 303          1     0          18          14
## 320         12     0          17           7
## 333          9     1           9          14
## 339          4     1          12           4
## 342          2     3          24          17
## 363         13     8          26          13
## 372          3     1           3           1
## 380          9     3          14           1
## 398          4     0           5           5
## 401          2     1           2           0
## 404          5     0         138           5
## 437          6     4           6          16
## 447         10     2          40          13
## 448          1     2           9           3
## 449          1     2           5           5
## 457          3     4           3           8
## 463          7     1          24          10
## 472          4     2          12           0
## 478          4     2           9           7
## 489          3     2           3           2
## 492         11     0         156          11
## 498          2     2          32           2
## 510          2     0           2           3
## 511         23     5          30           2
## 521          3     0           3           5
## 522          4     0           4           1
## 534         10     2          12          11
## 535          7     0           7           8
## 538         19     1          19           8
## 539          6     3           8           6
## 554          5     0           5           2
## 557          5     0           6           2
## 573         22     1          67          22
## 574          3     4           3           0
## 586          5     0          30          11
## 595          2     1         176           1
## 599          2     3           2           3
## 603         21     6          21          22
## 604          1     0           9           1
## 633          5     3          27           7
## 643          0     3           0           3
## 657          4     1          21           9
## 661          5     4          10           6
## 666          9     0          46          10
## 686          3     1           3           4
## 693          3     5          31           3
## 701          8     2           9           3
## 714          5     0           5           5
## 723          2     0          24           0
## 732          1     0           1           1
## 733          6     7          37           8
## 735          1     3           4           0
## 736          1     0          31           4
## 741          5     1           9           1
## 742          3     2          45           3
## 751         10     2          10           1
## 756          5     1           5           1
## 759          4     1          41           4
## 762          7     2          11           8
## 763          3     3          12           3
## 765          1     2           4           4
```

```
## 768          5       1              32              5
## 773         14       1              18              8
## 774          1       2              32              0
## 776          2       2               7              1
## 783          8       3               8              3
## 785          7       0             283              3
## 842         18       3              18             22
## 864         11       5              22             12
## 865         12       2              52              0
## 868         26       0              40             11
## 876          3       4               3             15
## 888          3       1               3              4
## 927          5       0              11             11
## 929          4       2               6              3
## 941         13       2              44              8
## 944          3       1              93              3
## 947          6       4               6              6
## 948          9       4              27              3
## 959          8       5              36              8
## 970          3       2              15              3
## 973         21       0              21             22
## 979          3       2               3              3
## 980          6       6              17              6
## 981          5      10              33              7
## 987          1       4              25              1
## 991          1       4               4             14
## 1001         3       0              27              3
## 1004         2       1               5              2
## 1010         7       5              33              7
## 1016        34       0              34              3
## 1018         2       6              18              4
## 1019        27       6              55              0
## 1042         5       2               6              2
## 1079         3       0              29              3
## 1087         4       0              10              3
## 1093        14       3              16              8
## 1103        15       2              39              0
## 1127        19       4              21             19
## 1132         4       2               4             10
## 1137         2       4              11              4
## 1138         1       3               6              4
## 1140         7       0               7              9
## 1144         5       0              47              5
## 1145         2       0               8              1
## 1154        16       3              23             16
## 1156         5       0              10              3
## 1157         0       2               5              0
## 1160         9       5              47              1
## 1162         4       5               6              6
## 1165         3       0               5              1
## 1176         4       1               4              5
## 1180         7       4               7              2
## 1182        13       0              23              1
## 1183         3       3               3             22
## 1184         4       0               4              0
## 1185         9       0              18              8
## 1201         1       0               1              5
## 1204         1       6               1              1
## 1234        17       0              22             18
## 1235        21       0              21             22
## 1236         4       0               4              1
## 1240         7       0              45             13
## 1288         4       2               5              4
## 1289         7       0              10              6
## 1297         4       1              11              4
## 1303         9       2              23              8
## 1305         6       3              29              1
## 1318         7       0              19              7
## 1331         3       1               4              5
## 1332         3       1              50              1
## 1333         4       3              27              5
## 1350         5       2               5              9
## 1358         4       2              10             13
## 1359        10       0              10              0
## 1364         3       0               3              3
## 1370        11       2              11             11
## 1372         7       8              17              4
## 1377        16       1              57             16
## 1381         8       0              15             11
## 1387         8       6               8             11
## 1401        11       0              19             15
## 1405         6       3               6              0
## 1417        16       4              16              2
## 1423         4       1              17              4
## 1426         7       5              10              7
## 1429         3       4               5              3
## 1436         2       2               7              3
## 1448         6       0              14              6
## 1454        24       0              37              1
## 1458         3       2              26             17
## 1467         6       3               8             11
## 1471        24       1              24              6
## 1474         4       2               4              4
## 1491         9       5              24             21
## 1495         1       0               5             15
## 1498         1       0               2              2
## 1508         2       2               2              1
## 1515         4       1               4             10
```

```
## 1528          18       0                18                   19
## 1536           2       6                 4                    2
## 1541           5       2                 7                    8
## 1549           9       3                62                    9
## 1556           7       3                27                    2
## 1561           5       0                 9                   13
## 1563           0       4                 0                    0
## 1565           2       4                 2                   19
## 1586           3       3                 5                    5
## 1587           4       2                 4                    1
## 1589           3       3                 4                    3
## 1602           0       1                 6                    0
## 1615           9       0                 9                    1
## 1625           9       0                15                    1
## 1630           1       0                23                    1
## 1635           7       0                 7                   10
## 1654          22       0                22                   20
## 1655           8       1                68                   23
## 1670           3       1                 3                    4
## 1682           3       5                 3                    0
## 1687           6       2                 6                    8
## 1690           2       2                19                    2
## 1694          12       6                62                    9
## 1695           6       0                 6                   17
## 1697           1       0                 1                    8
## 1698           1       6                 7                    7
## 1705           4       2                10                   13
## 1709          10       2                10                   14
## 1719           1       1                 1                    2
## 1720           3       7                 7                    0
## 1731           9       4                 9                    3
## 1736           3       2                 6                    3
## 1740           7       0                10                    7
## 1745           8       4                 8                   10
## 1746          15       1                15                    0
## 1758          39       4                49                   16
## 1769           2       2                15                    2
## 1778           1       4                 9                    0
## 1793           5       3                39                    5
## 1795           2       3                38                    2
## 1797           2       0                 9                    2
## 1800           4       0                 4                    4
## 1807           3       3                28                    1
## 1815           1       2                 9                    9
## 1818           2       2                 2                    9
## 1826           2       5                 2                   13
## 1827           5       3                16                   12
## 1835           4       2                 4                    2
## 1837           4       7                33                    4
## 1840           7       3                16                    7
## 1845          12       3                17                    2
## 1851           2       3                 2                    5
## 1859           5       0                19                    5
## 1863           8       4                15                   20
## 1878           2       8                17                    0
## 1903           3       4                 9                    4
## 1909           1       4                25                    1
## 1914           7       2                10                    0
## 1928           9       0                 9                   13
## 1947           4       2                27                    2
## 1953           3       9                16                    3
## 1955           7       2                 7                    2
## 1965           4       1                33                    0
## 1978          18       0                18                    0
## 1980           3       0                37                    4
## 2007          11       0                23                   12
## 2009           4       0                 7                    4
## 2031           1       3                 1                   10
## 2040           3       0                 3                    1
## 2044           2       2                45                    3
## 2049           2       2                 2                    0
## 2052           2       3                10                    2
## 2057           3       4                 3                    8
## 2059           1       1                 1                    2
## 2063           5       6                 8                    9
## 2067           8       2                59                    8
## 2097           5       2                 5                    5
## 2102          10       0                38                    7
## 2106          36       0                37                   12
## 2111          10       0                17                   10
## 2112           3       1                 3                    3
## 2113           3       3                 6                    6
## 2118           3       0                 7                    5
## 2120           4       3                 4                   11
## 2122           5       0               154                    5
## 2125           1       0                 8                   11
## 2130           4       0                21                   18
## 2133           5       3                24                    8
## 2139           5       3                 5                    5
## 2144           2       2                 7                    0
## 2156          24       2                24                    0
## 2160          26       2               132                   18
## 2182           4       2                12                    4
## 2183           8       0                46                    8
## 2186           5       2                 5                   10
## 2210          12       0                22                   12
## 2221           9       1                12                    2
## 2233           4       0                25                    9
```

```
## 2235          4       0                17                 4
## 2240         18       0                18                18
## 2247          6       4                27                 3
## 2249          3       0               148                 4
## 2251          2       0                 6                 8
## 2261          1       0                30                19
## 2262         15       6                19                19
## 2275          1       5                 1                 3
## 2284          6       2                 6                 8
## 2313          5       7                 5                12
## 2314          1       1                30                 1
## 2332          9       0                 9                10
## 2333         12       0                89                 8
## 2334          2       0                 2                 5
## 2344          3       1                 3                 2
## 2346          6       2                23                19
## 2349         24       1                84                24
## 2352         10       2                32                10
## 2359          3       2                29                 2
## 2364          4       0                 7                 0
## 2371          3       0                 3                 3
## 2380          2       2                 2                 4
## 2388          2       0                 3                 4
## 2398          2       0                 2                 2
## 2400          2       1                 2                 4
## 2401          3       7                 3                 3
## 2408         16       3                28                16
## 2410          6       3                14                 6
## 2415          5       0                 7                 2
## 2424          2       3                20                 2
## 2427          5       0                 5                 5
## 2428          8       3                 8                11
## 2445          7       2                26                11
## 2454          4       1                 8                 7
## 2458          8       0                10                13
## 2459         22       1                26                17
## 2461         13       6                21                 1
## 2475          1       2                 7                 1
## 2479          5       1                 5                 1
## 2482         10       0                10                12
## 2497          2       2                 2                 8
## 2506         12       2                81                16
## 2508          2       0                 2                 9
## 2518         18       0                18                18
## 2521          2       3                35                 0
## 2526          2       3                 2                 8
## 2528          8       4                63                 8
## 2532          9       4                 9                 1
## 2534          1       7                 2                 0
## 2537          3       1                42                 5
## 2543          1       3                11                 1
## 2555         11       2                12                20
## 2559          3       3                15                 0
## 2565         15       0                39                15
## 2569         20       2                21                20
## 2575         11       3                11                 2
## 2577          6       0                13                 6
## 2584          6       0                45                 6
## 2586         14       0                16                 1
## 2610          2       0                 2                13
## 2621          0       2                 1                 1
## 2634          7       2                 7                14
## 2646          2       2                 2                 4
## 2653         21       3                21                 1
## 2656          3       4                20                 3
## 2664          2       3                32                 3
## 2668         16       1                51                10
## 2669          7       1                 9                 0
## 2675          3       3                 5                 1
## 2676         11       0                12                11
## 2685          7       2                 7                 9
## 2699          8       2                12                 8
## 2706          3       0                28                 9
## 2711          7       5                 7                 7
## 2717          3       4                 3                 2
## 2719          4       1                 4                 8
## 2720          4       1                 8                 4
## 2728         11       6                20                13
## 2737          1       0                 7                 0
## 2740          4       0                 4                 0
## 2746          2       0                68                 2
## 2748          2       1                17                21
## 2759          7       0                14                14
## 2760          3       0                20                 9
## 2783          2       0                10                 6
## 2784          2       1                 9                 1
## 2793          7       1                12                 7
## 2794          0       2                74                 0
## 2804          9       0                29                 9
## 2809          2       0                 2                 2
## 2815          4       3                14                16
## 2823          2       0                 2                 4
## 2828          9       1                20                10
## 2829          2       2                 2                 2
## 2836         12       0                25                14
## 2849          8       1                15                 8
## 2862         13       2                52                14
## 2864         20       2                32                20
```

```
## 2870          2       1                2                   7
## 2871          5       0                5                   5
## 2881          6       0                8                   2
## 2890          2       4                2                   0
## 2902          8       1                8                   8
## 2904          7       3               49                   7
## 2905          7       1               34                   7
## 2909         11       1               11                  23
## 2910          3       0                3                   5
## 2921          9       1               76                   3
## 2926         13       0               59                  13
## 2937          4       0               12                  16
## 2943          5       1               33                   5
## 2945          9       0               72                  12
## 2953          4       3               48                   4
## 2963          0       4               15                   0
## 2964          1       0               62                   6
## 2987          5       2                5                   5
## 2990         11       0               11                  11
## 2996          7       0               41                   8
## 2997          5       5               11                   3
## 2998          4       5                4                   1
## 3011          4       0                4                  12
## 3013          3       3                3                   3
## 3014         10       2               10                  14
## 3015          1       6                1                   1
## 3019          6       4               14                   3
## 3020         11       2               18                   4
## 3038          3       1               13                  24
## 3046          7       1                7                   7
## 3055         15       2               28                  12
## 3066         25       4              116                   2
## 3068          3       0                3                   3
## 3069          5       3               24                   1
## 3077          4       2                4                   4
## 3091          3       1               10                   3
## 3109          5       1               21                   1
## 3110          4       0               31                  11
## 3111          2       1               13                   0
## 3114         13       2               19                  13
## 3115          8       0                8                   8
## 3127          2       4                2                   0
## 3128          2       2                2                   1
## 3129          1       0                1                   5
## 3139         10       0               10                  10
## 3144          6       5               10                   2
## 3148          3       3               10                   1
## 3157         12       3               60                  12
## 3167         11       0               11                  11
## 3168          2       0               14                   2
## 3191          4       2                4                  11
## 3192          7       6                8                   7
## 3195          5       2               19                   5
## 3197          1       4                5                   3
## 3207          2       1                2                  20
## 3220         16       7               72                   2
## 3235         23       0               32                  14
## 3240         31       0               48                  13
## 3242          3       2               12                   3
## 3245          5       2               16                   6
## 3248          1       2                5                   0
## 3249          3       0                3                   2
## 3250          1       0               38                  13
## 3253          5       2                5                  12
## 3255          5       2                5                   0
## 3263          6       2                6                  14
## 3264         12       0               87                   3
## 3275         10       2               18                   3
## 3284          3       0                4                   1
## 3301         12       0               12                  14
## 3324          6       2               84                   6
## 3327          5       3               11                   3
## 3328          2       0                2                   2
## 3338          4       1               21                   1
## 3340         11       0               11                   2
## 3348         38       5               38                   1
## 3373          6       4               20                   6
## 3375          3       0               27                  12
## 3377          8       0                8                   9
## 3382          2       5               18                   7
## 3385          3       4                7                   2
## 3390         12       0               12                  18
## 3391         19       0               26                  19
## 3405         16       0               16                  16
## 3414          2       2               16                   9
## 3415          9       3               12                  18
## 3418          6       0                6                   7
## 3423         15       2               71                   1
## 3437          0       3               29                   0
## 3452          3       2                3                   3
## 3461          9       6               28                   0
## 3468          3       3                9                  11
## 3470          6       1                6                   6
## 3473         13       2               55                  13
## 3476          3       3               15                   3
## 3478          5       7                5                   9
## 3495         11       2               13                  16
## 3496          3       1               58                   4
```

```
## 3499          4       0                66                 4
## 3512         10       0                12                10
## 3514         10       0                23                16
## 3524          1       4                21                 1
## 3526          2       0                 2                 5
## 3528          9       0                 9                11
## 3529          7       5                34                 1
## 3533          4       2                13                 2
## 3549         20       0                56                10
## 3551          6       2                15                 3
## 3552          1      10                43                 1
## 3563         22       0                22                 7
## 3570         19       1                32                19
## 3573         22       0                34                 4
## 3583          5       3                 6                 2
## 3587          3       0                55                 3
## 3597          1       0                28                 1
## 3601         11       1               115                 0
## 3609          6       1                68                 3
## 3618          2       2                 5                 9
## 3620          1       0                51                 8
## 3626          6       0                 6                 6
## 3627          9       0                37                 0
## 3638          5       1                 5                20
## 3643          4       2                34                 4
## 3647         10       2                31                10
## 3652          7       0                55                 7
## 3654          5       0                22                 5
## 3664          1       5                 1                 0
## 3669         20       1                40                 3
## 3676          2       0                46                 2
## 3677         10       3                28                10
## 3689          7       0                 7                 7
## 3694          2       2                43                 8
## 3695          4       3                16                 6
## 3696          2       3                 3                 0
## 3724          3       0                 8                 3
## 3725          2       1                13                15
## 3753         10       1                52                 6
## 3772          6       4                12                 7
## 3792          3       0                 4                 3
## 3793          2       0                29                 2
## 3795          7       0                10                 1
## 3797         30       2                39                15
## 3798          1       1                 1                 2
## 3806          7       0                12                 4
## 3812          3       0                 6                23
## 3818          3       1                13                 6
## 3820         13       0                19                 7
## 3823          3       1                 3                11
## 3829          1       1                 3                 3
## 3838          8       2                 8                 8
## 3842          6       1                25                 1
## 3848          3       1                81                 3
## 3863         10       0                26                 2
## 3866          1       1                 3                 8
## 3867          6       0                76                 6
## 3871          3       2                 3                 2
## 3880          1       5                 1                 4
## 3883          4       1                35                 0
## 3891          4       0                 4                 4
## 3895          7       0                14                14
## 3896         10       4                10                 1
## 3898          3      11                 3                 0
## 3903          0       2                41                23
## 3916          4       4                74                 5
## 3928          5       3                49                 0
## 3930          1       0                24                12
## 3940          2       0                 3                 2
## 3957          6       0                 6                 6
## 3966          7       0                 9                 7
## 3992          1       0                 5                 4
## 3993         26       0                43                 9
## 4000          7       2                 7                12
## 4004          3       0                19                 3
## 4012          6       1                 8                 7
## 4014          3       4                 4                 4
## 4025          4       2                43                14
## 4029         15       0               154                15
## 4032         14       1                17                14
## 4033         14       4               152                14
## 4059          7       4                47                 7
## 4066          1       0                10                 6
## 4067          1       3                 2                 2
## 4077          2       1                 2                 2
## 4087          1       2                 1                10
## 4088          4       2                 4                 2
## 4091          3       1                 3                 3
## 4102          5       4                 6                 1
## 4106          5       0                 9                 5
## 4112          3       4                11                 3
## 4127         19       0                28                 3
## 4129          6       1                34                 7
## 4130          3       1                 3                 3
## 4134          8       2                42                19
## 4145          5       1                70                 7
## 4156          7       2                11                 8
## 4158          6       0                 6                 6
```

```
## 4166          19       0                19                 19
## 4167           2       4                 6                  1
## 4168           4       3                86                  9
## 4171           3       0                 7                  8
## 4176          19       3                31                 19
## 4182           3       3                20                  3
## 4183           1       2                 1                  9
## 4184          18       0                28                 18
## 4187           8       3                31                  5
## 4190          23       4                63                  4
## 4192          14       2                34                 14
## 4195           8       0                16                  6
## 4218           8       5                52                 10
## 4223           8       0                27                  8
## 4226           3       0                 3                  4
## 4227           3       4                23                  3
## 4242          12       1                12                  3
## 4244           7       0                16                  0
## 4246           6       4                22                  6
## 4250           7       0                25                  7
## 4264          11       0                11                  4
## 4276           1       0                29                  3
## 4281           1       1                61                  0
## 4288          16       1                84                 19
## 4296           8       0                19                  8
## 4299           1       0                 1                 11
## 4302           3       2                16                  3
## 4312           4       4                 9                 13
## 4315          10       2                10                 10
## 4319           5       2                23                 15
## 4327           1       1                 1                  1
## 4329           2       0                 2                  0
## 4332           9       2                10                  9
## 4339          12       0               131                  0
## 4340          11       0                19                 11
## 4343           3       2                32                  1
## 4345           1       0                 1                  7
## 4359          13       0                18                  1
## 4361           4       3                11                  1
## 4366          14       3                24                 14
## 4373           5       1                 5                  6
## 4374           3       2                27                  2
## 4384          11       2                11                  0
## 4393           6       2                 6                  1
## 4396          11       6                13                 13
## 4409           3       3                40                 11
## 4417           7       2                 7                  0
## 4422           4       1                 4                  4
## 4434           7       4                12                  1
## 4438           6       3                41                 14
## 4439           1       4                33                  2
## 4444           1       1                48                  1
## 4446           4       0                21                  4
## 4454          10       3                36                 10
## 4457           3       3                 7                  6
## 4460           8       1                11                  9
## 4462           1       0                36                  9
## 4467           7       5                 7                  7
## 4475          14       3                17                  8
## 4480           9       1                34                 10
## 4493           4       0                 4                  3
## 4496           1       2                70                 11
## 4508           0       0                 0                 10
## 4513           6       0                 9                  1
## 4515           9       3                11                  1
## 4521          21       0                21                 21
## 4541          17       1                36                  4
## 4542           1       5                 1                 12
## 4549           8       2               120                  2
## 4556          26       4                46                 10
## 4559          10       5                15                  5
## 4560           3       0                10                  3
## 4570           3       1                10                  1
## 4572           7       2               102                  8
## 4574           2       0                14                  2
## 4578           1       1                 3                  6
## 4582           3       0                14                  1
## 4596           5       2               118                  5
## 4600           8       2                 8                  2
## 4612           9       3                 9                 13
## 4619          10       1                10                  8
## 4628           9       2                 9                  9
## 4637          10       0                52                 10
## 4652           0       0                 0                  0
## 4655          14       0               175                 14
## 4657           5       2                30                  5
## 4666           1       6                 2                  1
## 4686           4       2                 5                  0
## 4689           4       3                53                  4
## 4693           4       0                 9                  6
## 4694           1       2               133                  2
## 4702           7       2                 7                  7
## 4705          13       1                13                 14
## 4707          12       2                21                  5
## 4713           3       2                 7                 10
## 4716          12       5               191                  2
## 4727           2       0                 3                  2
## 4733           7       1                11                  9
```

```
## 4740          5       2                26                13
## 4752          2       0                 2                 3
## 4757          3       2                 3                18
## 4759          2       1                26                 2
## 4761          7       8                46                 7
## 4773          1       2                 6                 6
## 4782          3       0                 5                 5
## 4787          3       0                11                 3
## 4789          2       1                20                 5
## 4803          2       0                 5                 0
## 4826          5       3                 5                 0
## 4827          1       1                 1                 0
## 4828         11       3                13                 4
## 4855          2       3                 2                 3
## 4857          3       6                24                 4
## 4866          9       0                13                 4
## 4869          4       2                 4                 7
## 4877          1       3                 1                 1
## 4881          4       1                 4                 1
## 4883         12       3                12                 5
## 4919          9       0                 9                 9
## 4924          7       1               146                 7
## 4932          7       7                 7                 0
## 4936          3       0                 3                 5
## 4939          1       6                36                 1
## 4942          5       2                29                 6
## 4964          2       3                 8                 1
## 4969          3       3                 3                 3
## 4994          8       7                16                 6
## 5000          2       2                18                 2
## 5002          6       1                 6                10
## 5004          8       0                 8                 8
## 5005          1       2                 7                 8
## 5012         17       2                17                17
## 5013          2      10                 8                 9
## 5019         12       0                34                12
## 5028          1       0                21                 6
## 5033          3       1                 3                 0
## 5056          3       4                26                 4
## 5062          2       3                 5                 2
## 5067          3       6                 3                 3
## 5085          3       2                 3                 1
## 5101         10       6                10                 9
## 5111         12       0                13                 4
## 5113         10       0                10                 1
## 5119          7       5                12                 0
## 5121         28       0               161                 3
## 5127         21       4                21                21
## 5129         15       0                17                10
## 5144          3       1                43                 3
## 5146         10       0                10                12
## 5149          6       3                12                 1
## 5153          1       0                 1                 0
## 5172          3       0                 5                16
## 5175          0       4                 2                11
## 5178          1       4                 1                16
## 5189          1       1                12                 1
## 5198          4       1                18                 5
## 5199          9       0                27                22
## 5208          5       3                40                 6
## 5222          4       0                 7                 7
## 5226         17       3                17                19
## 5227          8       0                 8                 8
## 5231          2       1                 7                 2
## 5253          7       0                19                 2
## 5263         11       2                26                 1
## 5272          8       5                39                13
## 5280         14       0                25                14
## 5288          2       0                 7                 2
## 5289         10       2                31                10
## 5293          7       3                26                 6
## 5296         11       1                11                11
## 5318          4       1                 4                 3
## 5323          0       4                 0                 3
## 5338         13       0                16                13
## 5366         11       0                11                19
## 5374          6       3               400                 1
## 5378          7       1                11                 5
## 5386         13       2                13                13
## 5391          7       3                20                 7
## 5398          3       0                10                 9
## 5414         18       1                18                 4
## 5423          7       0                 9                 3
## 5426          3       0                76                 0
## 5430          2       1                 5                 0
## 5434          8       2                 8                 1
## 5439          5       1                13                 5
## 5457         10       3               164                10
## 5461         29       0                78                 0
## 5463          5       0                 7                11
## 5469          6       0                18                 2
## 5471          3       0                11                 3
## 5487          5       2                33                14
## 5489          3       1                15                 0
## 5493          2       3                 2                14
## 5495          1       0                21                 1
## 5504          2       2                 3                 4
## 5512         10       0               160                 0
```

```
## 5520             2        0                   2                    3
## 5526             4        2                   6                    4
## 5528             4        0                  12                    8
## 5530             2        9                   2                    0
## 5542             3        4                   3                   10
## 5546             2        0                  19                   20
## 5560             1        2                   5                    1
## 5572             7        0                  12                    7
## 5606             4        0                   4                    0
## 5617             8        1                  11                    6
## 5618             7        1                 141                    8
## 5631            13        0                 220                   13
## 5644             2        1                   2                    2
## 5645             6        3                   6                    6
## 5650             3        4                   3                    1
## 5652             2        4                  22                    1
## 5653            16        2                  77                    1
## 5655             4        0                   4                    5
## 5657             9        5                   9                    9
## 5662             2        0                   2                    2
## 5678             4        2                  41                    5
## 5682             2        1                  55                    0
## 5686            11        2                  13                   13
## 5691             2        3                   6                    3
## 5701             3        0                   3                   22
## 5702            12        3                  16                   12
## 5713            16        3                  16                   16
## 5714             2        5                  51                    3
## 5719             7        5                   7                    8
## 5726             4        5                  11                    1
## 5730             2        1                   7                    2
## 5735             1        1                   2                    1
## 5738            40        2                  78                    6
## 5740            10        1                  25                    5
## 5742             9        0                  55                   12
## 5746             1        3                   1                    3
## 5748             4        4                  29                    5
## 5755             1        4                   1                    1
## 5774             3        1                   6                    1
## 5780             9        2                   9                    2
## 5790             5        1                  11                    6
## 5805            34        2                  34                   18
## 5813             4        2                  22                    5
## 5829            13        2                  55                   14
## 5837             2        0                   2                    3
## 5839             6        4                   6                    5
## 5855             4        0                  34                    4
## 5864             7        3                   8                    0
## 5871             4        0                   4                    4
## 5879            16        0                  41                    4
## 5894             2        1                  12                    3
## 5900             3        4                   3                    9
## 5905             4        6                  21                    4
## 5909            26        6                  69                    0
## 5911             4        2                   9                    7
## 5920             0        0                   7                    7
## 5926            11        0                  21                   11
## 5934             3        5                   3                   12
## 5937             5        3                  36                    6
## 5939             1        2                  13                   10
## 5941             3        2                  26                    3
## 5945             1        0                   8                    1
##      num_accts_ever_120_pd num_actv_bc_tl num_actv_rev_tl num_bc_sats num_bc_tl
## 1                        1              3               5           5         6
## 13                       3              4               5           5        14
## 26                       0              4               4           5         5
## 29                       0              3               5           6         7
## 56                       5              0               2           2         3
## 58                       2              2               5           6        12
## 62                       2              2               3           2        12
## 79                       3              5               9           5         7
## 81                       1              1               1           1         3
## 85                       0              2               5           3         3
## 89                       0              4               7           4         7
## 94                       0              2               3           2         7
## 95                       1              1               1           1         3
## 100                      0              1               2           2         4
## 123                      1              7               7          11        13
## 129                      0              5               7           8        11
## 131                      0              4               4           8        13
## 146                      0              6              13          10        10
## 157                      0              1               3           1         2
## 177                      0              1               2           2         3
## 188                      1              4               5           4         8
## 189                      1              1               1           4         5
## 209                      0              5               6           5         6
## 211                      0              2               2           5         7
## 214                      0              4               6           5         9
## 223                      2              5               5           5         9
## 228                      1              6               6          10        11
## 237                      2              8              10          16        17
## 256                      0              2               8           3         5
## 266                      0              2               3           3         6
## 280                      1              8               8           9        12
## 282                      0              1               1           2         5
## 288                      2              2               4           4         5
## 289                      0              6               9           8        16
## 291                      0              5               5           6         7
```

```
## 293          0          4          4         10         16
## 299          0          2          4          3          7
## 300          1          2          3          2          5
## 303          0          3          3          6         11
## 320          0          1          1          1          3
## 333          8          5          6          5          5
## 339         27          3          6          5          6
## 342          1          2          3          4         13
## 363          0          3          9          3          7
## 372          2          3          5          5         12
## 380          0          6          6         13         14
## 398          9          4          5          7         10
## 401          0          5          7          7          8
## 404          4          1          1          3          4
## 437          0          2          2          6          8
## 447          2          1          2          1          1
## 448          1         17         26         19         21
## 449          0          2          2          4          4
## 457          0          4          5          4          4
## 463          1          3          6          8          9
## 472          0          5          7          8         12
## 478          1          3          8          5          7
## 489          0          5          8          9          9
## 492          1          6          6          6         10
## 498          0          3          4          4          7
## 510          1          5          7          9         10
## 511          1          1          1          4          4
## 521          0          6          8          6          9
## 522          1          2          4          3          3
## 534          0          3          4          5          7
## 535          2          7         10         14         17
## 538          0          8         15          9         22
## 539          1          5          7         10         12
## 554          2          8         11         11         17
## 557          1          8         13         23         31
## 573          0          1          2          1          1
## 574          1          7          9          7          9
## 586          0          3          4          6         12
## 595          0          2          4          3          4
## 599          0          3          4          3          9
## 603          4          2          4          2          6
## 604          1          2          7          6         24
## 633          1          1          1          2          6
## 643          4          3          4          5         11
## 657          5          4          5          8         11
## 661          1          5          8          6         11
## 666          0          3          5          3          3
## 686          0          1          1          1          7
## 693          0          3          4          3          6
## 701          2          3          6          2         11
## 714          0          0          1          2          2
## 723          0          3          4          4          6
## 732          1          4          7          8          9
## 733          2          1          2          2          6
## 735          0          3          5          6         19
## 736          2          0          0          2          5
## 741          0          4          5          4          4
## 742          1          3          3          2         11
## 751          0          5          5          7          9
## 756          0          4          4          8         17
## 759          0          1          3          2          6
## 762          5          1          2          2          7
## 763          0          4          6          6          8
## 765          1          8         15          9         13
## 768          0          5          7          6          7
## 773          2          2          3          2          2
## 774          0          1          3          4          9
## 776          0          8         17         10         12
## 783          0          5          6          5         10
## 785          3          0          1          1          3
## 842          2          4          4          4          7
## 864          0          5          6          5          6
## 865          0          3          3          3          3
## 868          1          1          4          2          4
## 876          1          6         11          6          7
## 888          0          4          4          5          5
## 927          1          3          5          3          5
## 929          2          2          3          3          5
## 941          0          2          3          2          3
## 944          0          4          6          4          7
## 947          0          5          5         18         27
## 948          0          3          4          7         10
## 959          0          3          5          3          4
## 970          0          3          5          6         17
## 973          1          3          3          6          9
## 979          0          1          2          4          7
## 980          1          5          8          9         11
## 981          0          0          2          2          5
## 987          1          2          2          6         20
## 991          0          1          2          2          4
## 1001         0          2          9          6          7
## 1004         0          3          3          4          5
## 1010         0          1          3          1          8
## 1016         0          2          2          2          3
## 1018         0          1          2          7         11
## 1019         1          2          6          2          8
## 1042         0          7          9         10         14
## 1079         1          1          1          1          2
```

```
## 1087          2          2          2          2         17
## 1093          0          1          1          8         13
## 1103          0          0          1          1          7
## 1127          2          1          2          6         10
## 1132          0          3          3          4          6
## 1137          7          5          8          5          9
## 1138          3          1          4          6          7
## 1140          0          2          4          2          4
## 1144          0          1          2          1          2
## 1145          1          6          9          6          8
## 1154          1          5          8          5         11
## 1156          1          2          3          3          4
## 1157          5          4         12          5          9
## 1160          2          4         10          5          8
## 1162          1          5          5          7         11
## 1165          2          4          5          4          6
## 1176          0          5          8          6          8
## 1180          0          6          7          9         11
## 1182          1          2          3          3          5
## 1183          1          4          8          5          5
## 1184          0          7          9         13         17
## 1185          2          4          5          4          5
## 1201          1          2          3          2          3
## 1204          0          4          4          6          9
## 1234          0          3          3          5          9
## 1235          3          3          3          6          9
## 1236          0          5          7         12         19
## 1240          0          5          6          6          7
## 1288          2          6          8          6          8
## 1289         13          2          3          4          4
## 1297          1          2          4          4          6
## 1303          0          4          8          4          7
## 1305          7          2          9          3          4
## 1318          0          3          3          3          9
## 1331          1          2          3          7          7
## 1332          0          1          1          1          2
## 1333          0          9          9         10         11
## 1350          1          3          4          5          5
## 1358          6          4          6          8         11
## 1359          5          3          3          3          3
## 1364          1          4          5          7          9
## 1370          1          3          4          6         11
## 1372         20          0          2          2          8
## 1377          0          1          2          3          4
## 1381          0          3          7          6          6
## 1387          0          3          3          5          7
## 1401          1          1          1          9         15
## 1405          0          4          5          4          8
## 1417          0          4          5          6          6
## 1423          0          8         14         12         21
## 1426          3          2          3          2          6
## 1429          0          4          6          5         13
## 1436          2          4          6          4          6
## 1448          0          2          4          5          9
## 1454          1          2          2          2          3
## 1458          0          2          4          4          6
## 1467          2          6          6          7         10
## 1471          0          4          5          7          8
## 1474          1          4          5          5          7
## 1491          1          4          9          8         18
## 1495          0          2          2          5          9
## 1498          2          2          4         12         15
## 1508          1          6          9         13         19
## 1515          1          2          3          2          8
## 1528          2          5          5          5          8
## 1536          0          4          6          5          6
## 1541          0          5          6          6          8
## 1549          2          1          1          1          2
## 1556          0          3          4          3          7
## 1561          2          2          4          8         14
## 1563          1          1          3          2          5
## 1565          1          4          7          4          9
## 1586          0          1          2          2          3
## 1587          2          3          6          4          6
## 1589          0          4          6          6         25
## 1602          0          3          4          3          3
## 1615          1          2          5          7          9
## 1625          5          2          2          4          6
## 1630          0          2          3          2          4
## 1635          1          4          4          5         11
## 1654          1          3          6          4          6
## 1655          0          2          2          2          3
## 1670          1          3          3          9         12
## 1682          4          3          5          6         12
## 1687          0          1          1          3          3
## 1690          1          3          3          4          7
## 1694          1          1          3          3          5
## 1695          0          3          4          4          4
## 1697          1          5          6          5          8
## 1698          3          2          2          2          6
## 1705          0          4          7          5          9
## 1709          4          2          3          7          7
## 1719          0          5          8          5          6
## 1720          0          5          5         11         16
## 1731          0          5          7         12         12
## 1736          1          2          2          2          2
## 1740          0          7         12          7          8
## 1745          2          2          2          5          8
```

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## 1746          0          5         11          5          5
## 1758          0         10         13         11         19
## 1769          2          5          8          5          7
## 1778          0          5          7          6          7
## 1793          0          3          4          4          5
## 1795          0          2          4          2          4
## 1797          0          5          8          8          8
## 1800          0          9          9         11         14
## 1807          2          3          5          3          3
## 1815          1          1          2          1          4
## 1818          4          5          5          8         20
## 1826          0          2          2          2          7
## 1827          4          3          5          3          7
## 1835          5         11         15         18         20
## 1837          2          2          3          2          6
## 1840          0          4          6          5          9
## 1845          0          1          4          2          2
## 1851          2          1          3          1          1
## 1859          6          3          6          4         16
## 1863          0          1          1          4          5
## 1878          1          1          2          5          5
## 1903          0          3          5          6          7
## 1909          2          4          7          6          6
## 1914          2          4          4          4          5
## 1928          1          3          3          4          5
## 1947          1          2          3          2          2
## 1953          0          0          1          1          7
## 1955          1          7         11          8         10
## 1965          5          9         11          8         15
## 1978          2          4          6          5          5
## 1980          2          2          7          2         11
## 2007          0          2          2          2          4
## 2009          0          4          6          7          8
## 2031          0          4          5          5         17
## 2040          0          3          3          5          7
## 2044          0          2          4          6          6
## 2049          0          2          3          5          5
## 2052          0          2          3          5          9
## 2057          5          2          3          2          8
## 2059         12          1          4          2          2
## 2063          3          5          5          5          5
## 2067          0          2          4          3          6
## 2097          1          3          5          4          6
## 2102          0          2          2          2          2
## 2106          1          1          1          1          3
## 2111          0          3          3          3          6
## 2112          0          5          5          5          7
## 2113          0         13         15         16         20
## 2118          0          3          8          4          8
## 2120          0          5          5         10         13
## 2122          0          1          3          2          9
## 2125          1          5         10          6          7
## 2130          1          3         14          3          3
## 2133          0          3          3          3          5
## 2139          0          3          5          4         10
## 2144          0          4          7          8         14
## 2156          0          3          4          3          3
## 2160          1          3          3          3          6
## 2182          0          2          4          2          5
## 2183          0          2          4          3          3
## 2186          0          1          3          4          9
## 2210          0          4          4          6          6
## 2221          0          8         14          8          9
## 2233          0          2          6          2          3
## 2235          6          1          1          4          7
## 2240          0          1          2          2          2
## 2247          1          2          5          2          5
## 2249          3          2          2          3          8
## 2251          2          3          3         12         21
## 2261          0          6          7          6          6
## 2262          6          5         11          5         12
## 2275          0          3          3          4          9
## 2284          1          3          3          9         21
## 2313          1          2          2          3          6
## 2314          0          2          5          3          6
## 2332          1          3          3          6         11
## 2333          1          1          1          1          1
## 2334          0          5          7          8         10
## 2344          5          3         11          3          5
## 2346          0          3          4          3          4
## 2349          0          2          4          2          9
## 2352          0          3          5          3          7
## 2359          0          4          4          6         10
## 2364          0          4          5          4          9
## 2371          0          3          5          8         10
## 2380          0          5          6          5          5
## 2388          1          4         10          6          7
## 2398          0         12         17         13         23
## 2400          0          5         13         10         12
## 2401          2          4          7          4          6
## 2408          0          2          4          3          5
## 2410          0          2          4          3         10
## 2415          2          3          8          5         11
## 2424          1          7         11          7         13
## 2427          4          5          5          5          9
## 2428          2          2          2          5          8
## 2445          2          3          5          3          6
## 2454          0          1          3          2          5
```

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## 2458          1          4          8          4          7
## 2459          0          1          1          2          5
## 2461          9          2          4          2          3
## 2475          8          0          0          4         10
## 2479          0          3          3          3          3
## 2482          2          2          3          2          4
## 2497          0          5          9          7          9
## 2506          0          2          5          3          4
## 2508          0          2          2          5          5
## 2518          5          1          1          1          2
## 2521          0          4         13          6          7
## 2526          0          3          4          3          3
## 2528          1          2          4          2          7
## 2532          1          5          6          5          6
## 2534          1          2          5          5         18
## 2537          0          1          1          1          4
## 2543          1          1          4          1          3
## 2555          1          2          3          2          3
## 2559          0          3          5          8          9
## 2565          0          2          2          3          5
## 2569          0          4          4          6         12
## 2575          1          7          7          9         19
## 2577          1          2          2          2          4
## 2584          0          2          3          4          6
## 2586          0          3          5          3          6
## 2610          0          4          5          4          9
## 2621          1          9         15         11         15
## 2634          3          2          4          2          3
## 2646          0          6          7         13         13
## 2653          3          1          2          1          2
## 2656          2          3          4          6         12
## 2664          0          2          2          2          2
## 2668          1          2          3          3          8
## 2669          5          3          4          3          4
## 2675          0         12         17         12         15
## 2676          1          2          3          9         15
## 2685          0          3          6          3          4
## 2699          1          1          4          3          6
## 2706          1          1          3          2          7
## 2711          3          2          5          3          4
## 2717          2          5          7          8         11
## 2719          1          4          5          4          6
## 2720          2          2          3          3          7
## 2728          0          5          6          6          8
## 2737          3          3          5          6          9
## 2740          1          6          6          6         10
## 2746          8          5          5          5          7
## 2748          0          4          4          6          6
## 2759          1          1          2          3          6
## 2760          1          4          5          5          8
## 2783          3          9         16         14         16
## 2784          2          4          4          5         17
## 2793          0          4          5          4          4
## 2794          1          2          4          2          4
## 2804          0          1          2          1          1
## 2809          2          4          5          5          8
## 2815          0          6         10          7         14
## 2823          1          3          4          3          4
## 2828          2          4          5          4          5
## 2829          1          9         11         20         21
## 2836          0          6         11          7          7
## 2849          1          3          4          3          3
## 2862          0          1          1          2          2
## 2864          2          4          4          5          7
## 2870          0          5          8          7         11
## 2871          2          2          2          5         11
## 2881          2          7         10          9         14
## 2890          0          5         10         12         21
## 2902          0          3          4          4          5
## 2904          1          3          4          4          6
## 2905          0          4          5          4          9
## 2909          0          2          2          3          6
## 2910          1          2          2          6          6
## 2921          3          2          3          3          6
## 2926          1          1          2          2          4
## 2937          1          2          9          5          9
## 2943          0          2          3          2          2
## 2945          0          2          3          2          4
## 2953          0          6          7          8         10
## 2963          2          2          2          2          4
## 2964          1          4         12          4          5
## 2987          0          4          6         12         23
## 2990          0          3          3          4          5
## 2996          1          0          0          3          5
## 2997          0          6          6         10         12
## 2998          1          5          5          9         12
## 3011          2          3          3          4          5
## 3013          4          5          6          5          9
## 3014          0          1          3          1          5
## 3015          2          1          3          3         10
## 3019          0          3          4          6          9
## 3020          4          5          6          5         10
## 3038          1          4          4          6          9
## 3046          4          3          6          7         10
## 3055          2          3          5          3          3
## 3066          1          3          3          3          8
## 3068          1          2          2          3          4
## 3069          6          1          2          1          5
```

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## 3077          1          3          3          5          5
## 3091          3          2          4          2          3
## 3109          1          4          9          5         21
## 3110          0          2          5          2          4
## 3111          0          7         13          7          9
## 3114          0          4          4          4          7
## 3115          1          3          5          4          8
## 3127          4          3          4          4         11
## 3128          2          4          6          5          9
## 3129          0          3          5          3          9
## 3139          1          4          5          8          9
## 3144          0          1          4          3          3
## 3148          1          6          8          9         12
## 3157          0          2          5          3         10
## 3167          1          2          2          2          4
## 3168          2          3          4          4          4
## 3191          0          4          4          4          7
## 3192          3          2          3          4          8
## 3195          0          3          3          3          5
## 3197          0          4          5          5          5
## 3207          0          2          3          2          4
## 3220          0          1          1          3          8
## 3235          0          0          0          1          6
## 3240          0          1          1          2          3
## 3242          0          2          3          2          5
## 3245          0          7         10          7          9
## 3248          1          2          2          3          3
## 3249          1          2          7          7          8
## 3250          0          1          3          2          4
## 3253          4          6          6          7         10
## 3255          1          3          5          5          8
## 3263          0          2          2          2          8
## 3264          0          2          3          2          2
## 3275          1          1          2          3          6
## 3284          1         10         10         11         13
## 3301          1          6          7          8         11
## 3324          0          1          2          1          1
## 3327          0          2          4          2          9
## 3328          0          2          4          2          6
## 3338          1          2          4          2          2
## 3340          4          4          5          4          4
## 3348          0          5          7          5         12
## 3373          4          5          7          5         13
## 3375          1          3          6          5          9
## 3377          0          3          3          3          7
## 3382          0          2          6          3          6
## 3385          7          3          8          5         12
## 3390          0          2          4          3          7
## 3391          0          3          4          3          3
## 3405          0          4          8          4          7
## 3414          4          3          7          3          7
## 3415          0          3          5          3          5
## 3418          1          2          2          5          5
## 3423          0          4          5          4          5
## 3437          0          6          6          7         11
## 3452          0          3          3          3          7
## 3461          5          3          6          3          8
## 3468          3          6         10          7         15
## 3470          0          7         11         11         15
## 3473          2          5          6          5         12
## 3476          0          3          3          4          7
## 3478          0          4          4          4         16
## 3495          0          5          6          5          9
## 3496          3          1          1          1          3
## 3499          0          1          2          1          1
## 3512          0          7          9          7          7
## 3514          1          3          4          4          7
## 3524          1          0          1          4          5
## 3526          0          3          5          3          4
## 3528          2          1          1          6         13
## 3529          0          3          3          5          6
## 3533          0          6         12          6          9
## 3549          5          3          3          3          3
## 3551          1          3          4          3          4
## 3552          6          2          2          2         15
## 3563          0          2          2          3          6
## 3570          1          5          5          5          7
## 3573          0          1          1          4          8
## 3583          0          4          6          4          6
## 3587          1          1          1          3          5
## 3597          2          4          6          4          4
## 3601          2          1          2          1          6
## 3609          0          3          8          3          5
## 3618          0          5          5          7          9
## 3620          0          3          4          3          4
## 3626          4          6          6          9         12
## 3627          0          3          3          4          5
## 3638          1          6          6          7         12
## 3643          0          4          6          4          6
## 3647          1          4          6          8         12
## 3652          0          1          1          1          1
## 3654          3          0          0          4          7
## 3664          0          5          7          8         13
## 3669          0          2          5          2          4
## 3676          0          1          4          1          6
## 3677          5          2          2          3          7
## 3689          1          2          3          2          5
## 3694          3          0          0          3          7
```

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## 3695          1          5          5          5          8
## 3696          2          3          4          4         10
## 3724          1          4          4          9         13
## 3725          3          3          9          4          4
## 3753          1          2          5          2          3
## 3772          1          3          3          4          8
## 3792          0          1          1          5         13
## 3793          1          2          2          3         11
## 3795          0          4          6          9         10
## 3797          0          2          3          2          4
## 3798          0          5          5          6          6
## 3806          2          1          2          1          8
## 3812          1          5         11          6         11
## 3818          0          7         15         12         15
## 3820          0          3          4          3          3
## 3823          0          2          3          4          6
## 3829          5          4          5          4         10
## 3838          1          4          5          6         12
## 3842          0          1          3          1          6
## 3848          0          3         10          3          3
## 3863          0          5         10          6          8
## 3866          0          2          4          2          2
## 3867          1          2          2          8          8
## 3871          0          1          4          3         12
## 3880          0          4          5          4          9
## 3883          0          3         10          3          6
## 3891          0          7         10          8          9
## 3895          4          3          6          3          6
## 3896          2          3          6          3          3
## 3898          0          2          3          3         11
## 3903          1          3          9          3          7
## 3916          0          0          4          1          3
## 3928          0          1          1          3          5
## 3930          0          1          4          1          3
## 3940          0          6          9          8         13
## 3957          0          3          4          5          6
## 3966          0          2          2          3          4
## 3992          1          3          7          4          7
## 3993          1          7          9          7         12
## 4000          0          5          7          5          9
## 4004          0          1          1          1          6
## 4012          0          1          2          2          4
## 4014          0          6          9          8         16
## 4025          1          3         10          3          6
## 4029          1          3          5          3          5
## 4032          0          2          3          2          7
## 4033          0          1          1          1          3
## 4059          1          2          3          2          5
## 4066          0          3          3          5          5
## 4067          0          6         10          6          6
## 4077          2          6          7          8         10
## 4087          0          2          3          2          3
## 4088          1          3          3          3          4
## 4091          1         12         12         15         29
## 4102          2          9          9         10         12
## 4106          0          5          6          5          5
## 4112          2          4          5          5          7
## 4127          2          1          1          1          1
## 4129          0          5          6          5          6
## 4130          0          1          3          1          2
## 4134          0          2          2          2          3
## 4145          1          1          6          1          6
## 4156          0          5          5          6          8
## 4158          1          5          5          8          9
## 4166          1          3          4          3          3
## 4167          2          1          1          2          5
## 4168          0          1          1          2          9
## 4171          5          4          5          4          5
## 4176          0          3          5          4          4
## 4182          0          2          3          4         13
## 4183          2          2          4          2          6
## 4184          0          1          3          1          4
## 4187          4          8          8          8         17
## 4190          1          4          4          4         11
## 4192          0          2          2          2         14
## 4195          0          5          8          5          5
## 4218          1          2          3          2          5
## 4223          0          1          4          2          3
## 4226          1          1          1          4          6
## 4227          0          6          6          7         13
## 4242          0          2          3          3          5
## 4244          0          0          0          1          2
## 4246          9          3          5          3         11
## 4250          1          2          3          4          5
## 4264          1          3          4          4          8
## 4276          4          4          6          4          5
## 4281          0          1          4          1          2
## 4288          0          3          5          3          5
## 4296          1          2          2          2          3
## 4299         13          3          6          7          8
## 4302          1          1          4          1          1
## 4312          0          1          1          5          6
## 4315          1          3          3          3          4
## 4319          1          8          9         10         11
## 4327          2          6          7          7          9
## 4329          1          7          7         11         15
## 4332          1          2          4          7         11
## 4339          5          1          2          1          2
```

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## 4340          0          2          3          2          5
## 4343          0          1          3          2          7
## 4345          4          8          8          9         10
## 4359          0          3          4          7         18
## 4361          7          2          4          2          7
## 4366          1          2          3          3          4
## 4373         14          1          2          2          5
## 4374          0          2          3          2          2
## 4384          2          5          8         10         15
## 4393          2          2          2          3          7
## 4396          0          4          5          4          5
## 4409          0          1          3          1          4
## 4417          1          4          5          4          5
## 4422          0          8          9         12         19
## 4434          0          4          7          5          7
## 4438          0          0          1          3          8
## 4439          0          2          4          3          9
## 4444          0          5          7          6          9
## 4446          6          2          2          3         10
## 4454          1          3          7          3          4
## 4457          1          3          3          5         10
## 4460          0          4          6          8          9
## 4462          3          2          3          2          3
## 4467          1          9         11         12         24
## 4475          2          1          1          1          3
## 4480          9          6         10          7         16
## 4493          0          4          5          7          9
## 4496          1          6          8          8         10
## 4508          1          2          5          7         12
## 4513          0          5          6          6          8
## 4515          1          3          4          3          4
## 4521          0          4          6          8          9
## 4541          0          1          1          2          2
## 4542          0          2          4          3         12
## 4549          1          2          3          2          4
## 4556          0          1          3          2          5
## 4559          0          5          9         11         17
## 4560          4          1          4          1          7
## 4570          4          6          7          6         10
## 4572          1          2          3          2          5
## 4574          1          2          2          2          2
## 4578          0          4          6          8          9
## 4582          1          7          9          8         13
## 4596          2          2          4          2          2
## 4600          0          4          5          7          9
## 4612          2          4          5         11         12
## 4619          3          0          2          2         10
## 4628          0          4          6          4          5
## 4637          0          1          2          1         12
## 4652          4          4          6          4          7
## 4655          0          2          5          3          4
## 4657          1          4          5          4          4
## 4666          4         10         10         12         20
## 4686          3          1          5          1          4
## 4689          0          4         10          4          8
## 4693          1          2          4          2          2
## 4694          1          1          1          1          5
## 4702          0          5          6          8         11
## 4705          0          3          4          7          8
## 4707          1          5         11          5          7
## 4713          0          4          7          4          6
## 4716          4          1          1          1          3
## 4727          3          4          5          5          6
## 4733          0          2          2          2          8
## 4740          1          3          4          3          6
## 4752          2          3          3          3         17
## 4757          2          4          5          5          5
## 4759          0          3          4          3          3
## 4761          5          1          4          1          4
## 4773          1          3          4          4          8
## 4782          4          6          6          8         17
## 4787          0          4          4          5          8
## 4789          2          7         15          7         11
## 4803          9          3          5          4          9
## 4826          1          4          4          9         15
## 4827          1          2          2          3          4
## 4828          0          1          4          2          5
## 4855          0          1          3          5         11
## 4857          4          0          0          1          6
## 4866          1          6          7          7          7
## 4869          0          5          7         14         15
## 4877          1          5          8          7          7
## 4881          0          2          3          3          7
## 4883          1          5          7          8         18
## 4919          0          3          3          5          8
## 4924          1          2          4          2          7
## 4932          0          5          7          5          9
## 4936          0          7          9          7         13
## 4939          0          1          3          1          7
## 4942          2          3          5          3          5
## 4964          2          2          5          4          7
## 4969          1          5          6          5          6
## 4994          0         11         15         13         19
## 5000          1          3          4          4          5
## 5002          0          4          5          5          6
## 5004          0          3          3          3          6
## 5005          0          1          1          6         11
## 5012          0          2          3          6          9
```

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## 5013          1          1          1          1         11
## 5019          1          4          5          4          6
## 5028          2          2          2          2          9
## 5033          0          2          4          2          3
## 5056          0          3          3          4          8
## 5062          5          3          8          3          7
## 5067          0          2          4         12         15
## 5085          0          3          4          6          7
## 5101          0          1          5          2          8
## 5111          1          4          4          5          6
## 5113          2          1          1          3          4
## 5119          0          2          4         11         24
## 5121          0          1          2          1          2
## 5127          0          8          9          9         17
## 5129          3          1          1          3          4
## 5144          0          2          2          4         13
## 5146          2          4          6          5          6
## 5149          0          7         13         11         17
## 5153          1          1          1          3          6
## 5172          0          2          6          2          2
## 5175          1          3          8          3          5
## 5178          0          2          3          3          5
## 5189          0          4          7          8         12
## 5198          0          2          5          2          6
## 5199          0          1          2          1          1
## 5208          0          1          2          2          4
## 5222          0          3          4          8         13
## 5226          0          2          2          3          4
## 5227          0          2          3          5          8
## 5231          4          4          6          4          6
## 5253          0          0          2          1          5
## 5263          0          4          6          4          8
## 5272          0          3          4          3          4
## 5280          1          4          4          6          7
## 5288          1          4         10          6          8
## 5289          0          4          7          6         11
## 5293          0          4          6          6         10
## 5296          1          4          5          5          7
## 5318          0          4          4          7         12
## 5323          0          2          3         13         16
## 5338          0          5          5          5          8
## 5366          1          3          3          3          5
## 5374         17          1          2          1         18
## 5378          0          3          6          3          3
## 5386          3          3          3          3          4
## 5391          0          3         12          3          5
## 5398          4          2          2          6         11
## 5414          2          4          4          4          5
## 5423          0          7          7         10         14
## 5426          0          1          3          1          2
## 5430          0          9         11         14         21
## 5434          2          3          6          4          6
## 5439          1          5          6          7          9
## 5457          0          2          2          2          5
## 5461          0          1          1          1          2
## 5463          5          4          7          5         11
## 5469          1          4          9          4          5
## 5471          0          1          2          3          6
## 5487          6          2          3          2         11
## 5489          1          3          6          3          7
## 5493          3          4          5          4          5
## 5495          0          2          2          4          7
## 5504          1          1          1         12         21
## 5512          3          0          0          1          2
## 5520          0          9         17         11         14
## 5526          0         11         14         12         12
## 5528          0          2          3          2          2
## 5530          4          5          7          6         11
## 5542          0          1          3          1          4
## 5546          0          2          4          2          3
## 5560          1          8          9          8         13
## 5572          0          3          4          3          8
## 5606          0          3          9          3         11
## 5617          0          3          3          3          4
## 5618          3          1          2          1          3
## 5631          0          1          4          1          1
## 5644          5          5          7          8         15
## 5645          3          1          3          4          7
## 5650          0          2          9          2          2
## 5652          0          1          3          3          7
## 5653          0          2          2          3          9
## 5655          0          5          5          6         12
## 5657          0          1          1          2          6
## 5662          1          3          4          4         10
## 5678          0          4         10          4          6
## 5682          0          4          9          4          6
## 5686          0          7          7          8         11
## 5691         17          5          8          5         18
## 5701          0          6         10          7         10
## 5702          0          3          5          3          4
## 5713          0          6         11          7         12
## 5714          0          2          2          5          7
## 5719          0          1          2          2          7
## 5726          0          1          4          1         14
## 5730          2          1          2          1          3
## 5735          1          3          5          5          9
## 5738          4          3          3          3          4
## 5740          1          5          6          5          8
```

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## 5742                    3             1              5           1         2
## 5746                    0             2              3           3         3
## 5748                    1             2              4           3         6
## 5755                    0             1              1           2         4
## 5774                    2             0              1           1         3
## 5780                   24             3              3           4         4
## 5790                    0             3              5           3         4
## 5805                    1             7              7           7         8
## 5813                    1             1              3           3         5
## 5829                    1             2              3           2         3
## 5837                    2             7              9           9        15
## 5839                    0            12             13          12        16
## 5855                    1             2              3           2         2
## 5864                    0             3              6           5        19
## 5871                    1             6              9          10        12
## 5879                    0             1              1           1         3
## 5894                    2             4              5           5         9
## 5900                    2             4              4           5         7
## 5905                    0             1              2           2         4
## 5909                    0             3              4           5         6
## 5911                    1             1              4           1         3
## 5920                    2             1              1           1         2
## 5926                    0             2              5           3         7
## 5934                    0             8              9           8        11
## 5937                    0             1              4           1        10
## 5939                    0             8             11           8        11
## 5941                    1             5              6           6        11
## 5945                    0             8             14           9        11
##      num_il_tl num_op_rev_tl num_rev_accts num_rev_tl_bal_gt_0 num_sats
## 1           10           11           15                   5       12
## 13           3           10           23                   5       11
## 26           3            5            5                   4        8
## 29          10           10           16                   5       12
## 56          26            4            6                   2       21
## 58          12           16           35                   5       17
## 62           6            5           20                   3        6
## 79          15           11           17                   9       13
## 81          14            4            6                   1        7
## 85          13           10           12                   5       13
## 89          13           10           18                   7       20
## 94           7            5           13                   3        7
## 95           6            2            5                   1        5
## 100         10            7           12                   2       10
## 123          3           15           21                   7       16
## 129         19           12           21                   7       16
## 131          7            9           20                   4       11
## 146         19           25           27                  13       35
## 157          1            4            7                   3        5
## 177          6            3            5                   2        8
## 188         10            6           12                   5       11
## 189         14            6           14                   1        9
## 209         13            7            8                   6       11
## 211          9            9           12                   2       15
## 214          8           10           14                   6       17
## 223         13            6           12                   5       10
## 228          4           10           11                   6       11
## 237          5           18           19                  10       21
## 256          5           13           22                   8       15
## 266         19           10           14                   3       17
## 280          4           12           18                   8       16
## 282         11            3           10                   1        5
## 288          8           10           13                   4       12
## 289         10           13           29                   9       16
## 291          7            7           14                   5       11
## 293         14           12           18                   4       19
## 299          6            6           10                   4       11
## 300         11            5           11                   3        8
## 303          8            8           14                   3       10
## 320          7            1            4                   1        8
## 333         27            7            7                   6       22
## 339         71           12           17                   6       34
## 342          3            6           19                   3        8
## 363         15           12           20                   9       16
## 372         21           16           32                   5       23
## 380         10           13           14                   6       17
## 398         11            8           12                   5        9
## 401         13           13           17                   7       23
## 404          9            3            4                   1        6
## 437          4            6            8                   2       10
## 447         21            2            3                   2        5
## 448          6           30           36                  26       35
## 449          7            6            6                   2       11
## 457         12            7            7                   5       12
## 463          5           13           16                   6       16
## 472          6           12           19                   8       13
## 478         10           14           22                   8       16
## 489         32           18           22                   8       32
## 492          2            8           12                   6        9
## 498          8            8           13                   4       14
## 510          9           14           15                   7       17
## 511         18            4            5                   1        6
## 521          5            8           14                   8        9
## 522          7            5            7                   4        6
## 534          8            7           12                   4       10
## 535          2           21           29                  10       23
## 538          5           20           46                  15       22
## 539          9           13           17                   7       17
## 554          9           28           46                  11       32
```

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## 557        12          33          42                13      35
## 573        13           2           2                 2      14
## 574        11          11          16                 9      16
## 586        10          14          23                 4      16
## 595        21           9          12                 4      12
## 599         7           6          12                 4       9
## 603         5           4           9                 4       7
## 604         2          14          47                 7      15
## 633        32           5          13                 1      10
## 643         4           6          19                 4       9
## 657        13          11          16                 5      13
## 661         4          12          21                 8      15
## 666         4           6          11                 5       8
## 686         8           3          13                 1       4
## 693        25           8          11                 4      25
## 701        24           6          14                 6       9
## 714         7           4           5                 1       6
## 723        11           8          14                 4      13
## 732         3          15          18                 7      17
## 733        15           5          13                 2      10
## 735        13          12          32                 5      18
## 736        16           3           9                 0       6
## 741         3           8           8                 5      12
## 742        14           5          15                 3      10
## 751         7           9          11                 5      13
## 756        19          16          34                 4      27
## 759        15           5          18                 3       7
## 762         7           3           9                 2       7
## 763         8           8          11                 6      13
## 765         6          20          26                15      23
## 768        15           8          10                 7      13
## 773         5           4           5                 3       6
## 774        46          10          29                 3      18
## 776        15          24          30                17      31
## 783        13           8          19                 6      12
## 785         7           5          10                 1       8
## 842         3           4           9                 4       7
## 864        14           9          13                 6      20
## 865         9           3           6                 3       6
## 868        10           5           9                 4       7
## 876        16          11          14                11      15
## 888         8           5           6                 4       7
## 927         2           5           8                 5       6
## 929        21          10          21                 3      13
## 941        14           3           5                 3       6
## 944        10           6          11                 6      10
## 947         7          21          34                 5      24
## 948         4           9          15                 4      11
## 959         5           6           9                 5      10
## 970         9          13          29                 5      16
## 973        22          10          16                 3      14
## 979        42           8          12                 2      14
## 980         6          13          15                 8      18
## 981        16           4           8                 2      10
## 987        12           8          23                 2      10
## 991         3           7          10                 2      10
## 1001       17          13          18                 9      20
## 1004        9          10          11                 3      14
## 1010       22           6          16                 3      14
## 1016        2           3           9                 2       4
## 1018       11          14          23                 2      17
## 1019       11           7          16                 6      11
## 1042       10          17          22                 9      23
## 1079       23           2           3                 1      23
## 1087       11           2          23                 2       5
## 1093        2           9          17                 1      11
## 1103       11           3          14                 1       4
## 1127       19           8          18                 2      12
## 1132        3           4           7                 3       7
## 1137       30           9          17                 8      25
## 1138       23          11          14                 4      13
## 1140        7           5          15                 4       6
## 1144        7           8          10                 2      11
## 1145        6          13          19                 9      19
## 1154        9          10          20                 8      14
## 1156       19           4          12                 3      14
## 1157        7          15          35                12      18
## 1160       14          14          24                10      21
## 1162        7          10          17                 5      12
## 1165        4           5           9                 5       8
## 1176       21          11          18                 8      19
## 1180        7          13          18                 7      18
## 1182        2           4           7                 3       7
## 1183       11          13          14                 8      16
## 1184       11          19          28                 9      22
## 1185        9           5           7                 5       9
## 1201        2           3           4                 3       5
## 1204       23           8          15                 4      13
## 1234        6           6          11                 3       8
## 1235        9           6          10                 3       9
## 1236        6          17          29                 7      21
## 1240       17           8          12                 6      19
## 1288       13           9          13                 8      16
## 1289       18           5           5                 3      10
## 1297        4          10          15                 4      12
## 1303        8           8          19                 8      11
## 1305       11          16          25                 9      19
## 1318        4           3          12                 3       6
```

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## 1331        26          11          12           3        19
## 1332         8           2           6           1         8
## 1333         4          10          13           9        12
## 1350         7           6           8           4        11
## 1358        17          16          24           6        23
## 1359         6           5           5           3         6
## 1364         9           8          11           5        10
## 1370        10           8          21           4        12
## 1372        32           4          11           2         9
## 1377         4           4           7           2         8
## 1381         5          12          13           7        16
## 1387         5           5           8           3         9
## 1401         4          12          20           1        14
## 1405        22           6          11           5        14
## 1417        15           8          15           5        15
## 1423         8          23          40          14        25
## 1426         3           3           7           3         5
## 1429         8          11          22           7        15
## 1436         5          10          13           6        13
## 1448         7          10          22           4        13
## 1454         2           2           3           2         3
## 1458        10           8          18           4        11
## 1467        12           7          13           6        11
## 1471         8          10          13           5        12
## 1474         3           9          14           5        11
## 1491        10          15          28           9        20
## 1495         4           6          12           2         7
## 1498         7          21          27           4        24
## 1508        13          20          32           9        24
## 1515         2           3          13           3         5
## 1528         3           6          11           5         8
## 1536        29          10          11           6        14
## 1541        11          11          19           6        17
## 1549        17           2           6           1         5
## 1556        14           6          10           4        12
## 1561         5          18          28           4        19
## 1563        12           5          10           3        10
## 1565        10          12          21           7        18
## 1586        12           6           8           2        10
## 1587        31          10          13           6        13
## 1589        15          11          38           6        15
## 1602        11           6           6           4        11
## 1615         3          14          17           5        16
## 1625        10           6          10           2        12
## 1630        13           3           5           3        16
## 1635        10           5          14           4         7
## 1654         5           7          10           6         9
## 1655        24           4          11           2        17
## 1670         6           9          13           3        16
## 1682         7           9          18           5        13
## 1687        17           5           6           1        13
## 1690         9           5          13           3         8
## 1694        10           7          13           3        13
## 1695         7           7           9           4        10
## 1697         6           8          15           6        10
## 1698        20           4          11           2         8
## 1705         2           9          15           7        11
## 1709        20           9          10           3        14
## 1719         5          11          15           8        12
## 1720        11          16          25           5        19
## 1731        15          19          24           7        24
## 1736         4           2           2           2         7
## 1740         4          14          15          12        17
## 1745         7           8          16           2        10
## 1746         2          12          14          11        14
## 1758         9          19          32          13        24
## 1769        14          17          22           8        19
## 1778        12           9          14           7        16
## 1793        12           6           7           4         9
## 1795        13           6          12           4        12
## 1797         8          13          15           8        15
## 1800         2          11          14           9        14
## 1807         6           5           5           5        11
## 1815        30           7          14           2        12
## 1818         5          12          32           5        15
## 1826        15           3           9           2         6
## 1827        29           6          17           5        13
## 1835        11          30          42          15        33
## 1837         4           3          10           3         5
## 1840        16          10          21           6        21
## 1845         7           6           9           4        11
## 1851        10           4           7           3        10
## 1859         6           7          21           6         8
## 1863         4           4           8           1         7
## 1878        36           9          13           2        14
## 1903         7          10          12           5        15
## 1909        17          14          15           7        19
## 1914         6           5           7           4        10
## 1928         8           4           5           3         9
## 1947         7           4           6           3        12
## 1953        18           4          14           1         8
## 1955        13          17          23          11        21
## 1965        39          11          22          11        13
## 1978         7          11          13           6        15
## 1980         5           8          36           7        10
## 2007        12           7          11           2        12
## 2009        14           9          12           6        13
## 2031        11          11          29           5        13
```

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## 2040        23            6            9                3        9
## 2044        19           12           14                4       19
## 2049        10            8           10                3       13
## 2052        10            9           15                3       14
## 2057        11            4           12                3        6
## 2059        24            6            7                4       17
## 2063         5            6            6                5        8
## 2067         9            8           16                4       11
## 2097        18            8           10                5       13
## 2102         4            3            3                2        5
## 2106         3            1            4                1        4
## 2111         5            5           15                3        7
## 2112        14            7           11                5       10
## 2113         8           27           44               15       32
## 2118         7           11           16                8       12
## 2120        20           11           15                5       18
## 2122        10            4           17                3        7
## 2125        14           12           15               10       17
## 2130        11           15           15               14       19
## 2133        13            6           11                3        8
## 2139         5            7           14                5       10
## 2144        10           14           29                7       19
## 2156         5            4            4                4        6
## 2160         2            3            7                3        6
## 2182        12            4            8                4        9
## 2183        13            6            7                4        8
## 2186         5           14           27                3       16
## 2210        13            8            8                4       19
## 2221        41           17           18               14       20
## 2233         2            9           12                6       10
## 2235        17            6           19                1       21
## 2240        10            3            4                2        4
## 2247         5            5           12                5        7
## 2249        14            3            8                2       12
## 2251        15           17           31                3       22
## 2261         5            7            7                7        9
## 2262         4           15           28               11       18
## 2275        11            8           20                3       11
## 2284         7           11           28                3       14
## 2313         8            5           11                2        7
## 2314         5            9           15                5       11
## 2332         7           11           19                3       16
## 2333        12            3            5                1        4
## 2334        18           14           25                7       19
## 2344         5           14           23               11       16
## 2346        11            6           10                4       11
## 2349         2            6           26                4        7
## 2352        12            7           13                5       12
## 2359        20            6           11                4       11
## 2364         5            9           15                5       10
## 2371        14           11           15                5       14
## 2380         7            6            6                6       10
## 2388         6           17           21               10       18
## 2398         8           20           34               17       24
## 2400         9           28           40               13       31
## 2401        28           10           16                7       23
## 2408         6            8           12                4       11
## 2410         9            5           17                4        9
## 2415        20           12           24                8       15
## 2424        21           14           25               11       19
## 2427        11            5           11                5       11
## 2428        20            7           14                2       11
## 2445        37            5            9                5       11
## 2454         2            4            9                3        6
## 2458        10           14           20                8       16
## 2459         8            3            8                1        5
## 2461        15            5            6                4        8
## 2475        13            7           20                0       11
## 2479         1            3            3                3        5
## 2482         5            5            6                3        5
## 2497         6           15           22                9       17
## 2506         3            9           16                5       11
## 2508         4            7            7                2        8
## 2518        18            1            7                1        6
## 2521        16           17           23               13       23
## 2526         7            4            4                4        9
## 2528        13            5           14                4        9
## 2532         9            7           10                6       15
## 2534        29           10           29                5       13
## 2537        15            4           11                1        6
## 2543         6            6           14                4        9
## 2555         6            3            4                3        6
## 2559        15           14           16                5       19
## 2565         3            3            6                2        4
## 2569         2            7           13                4        9
## 2575         6            9           21                7       11
## 2577        22            3            8                2        7
## 2584        12            6            9                3       12
## 2586        12            7           15                5        9
## 2610        22            6           14                5       13
## 2621        28           18           25               15       35
## 2634        20            4            7                4       10
## 2646         8           16           16                7       20
## 2653         8            2            6                2        6
## 2656         8           10           20                4       13
## 2664         2            2            8                2        5
## 2668        21            4           12                3        8
## 2669        20            5            6                4       24
```

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## 2675        4          27          35                17       30
## 2676       10          17          28                 3       19
## 2685       11           6           9                 6       11
## 2699       32          10          17                 4       26
## 2706       20           6          12                 3       17
## 2711        7          10          20                 5       11
## 2717        6          17          27                 7       20
## 2719        9           5           8                 5        9
## 2720        4          17          24                 3       20
## 2728       12           8          13                 6       12
## 2737        2          12          20                 5       13
## 2740        7           6          11                 6        8
## 2746       30           7          10                 5       17
## 2748       13           8           8                 4       14
## 2759        5           7          12                 2       10
## 2760        9           7          12                 5       10
## 2783        8          28          36                16       31
## 2784       40           8          24                 4       15
## 2793       11           8          10                 5       14
## 2794       12           5          13                 4        9
## 2804        6           2           2                 2        3
## 2809        6           6          10                 5        7
## 2815        9          13          28                10       17
## 2823        3           7          11                 4        8
## 2828        8           5           6                 5        9
## 2829        7          24          29                11       30
## 2836        3          13          15                11       15
## 2849        4           4           4                 4        7
## 2862        5           5           6                 1        8
## 2864        6           6          11                 4        8
## 2870       17          14          18                 8       25
## 2871        6           5          12                 2        8
## 2881        6          14          22                10       18
## 2890        4          24          37                10       26
## 2902       10           5           6                 4       15
## 2904       21           6          10                 4       19
## 2905        8           7          14                 5        8
## 2909        7           4           8                 2        7
## 2910       12           7           8                 2       10
## 2921        2           4          12                 3        7
## 2926        5           4           6                 2        6
## 2937       13          18          34                 9       28
## 2943       10           3           4                 3        8
## 2945       16           4           7                 3        7
## 2953       10          11          15                 7       18
## 2963       10           6          14                 2        8
## 2964       15          12          14                12       19
## 2987       38          16          35                 6       21
## 2990        9           6           8                 3       10
## 2996        8           6           9                 0       13
## 2997        9          10          12                 6       15
## 2998       13           9          14                 5       16
## 3011        9           4           7                 3       10
## 3013        3           6          19                 6        8
## 3014       16           6          17                 3        8
## 3015       21          12          28                 3       16
## 3019       19           9          14                 4       14
## 3020        6           7          13                 6       10
## 3038       14           6          10                 4       14
## 3046        8          18          27                 6       23
## 3055       28           6           6                 5       10
## 3066       16           3          13                 3       14
## 3068        2           4           6                 2        5
## 3069        8           4          11                 2        7
## 3077        9           6           8                 3        8
## 3091       12          11          15                 4       13
## 3109        4          14          34                 9       16
## 3110        9           7           9                 5        8
## 3111       11          17          23                13       23
## 3114       37           8          13                 4       12
## 3115        7           6          12                 5        8
## 3127       12           6          16                 4       13
## 3128       15          10          22                 6       19
## 3129       12           6          16                 5       10
## 3139       17          12          17                 5       15
## 3144       36           8           8                 4       14
## 3148       11          15          19                 8       18
## 3157        4           7          20                 5       10
## 3167        7           3           8                 2        6
## 3168       17           6           6                 4       10
## 3191        6           4           8                 4        9
## 3192        6           6          11                 3        9
## 3195       14           3           8                 3        6
## 3197       10           9          10                 5       12
## 3207       13           4          10                 3        9
## 3220       11           3          12                 1        6
## 3235       16           1           9                 0        3
## 3240        1           2           3                 1        5
## 3242        6           3          10                 3        7
## 3245        7          15          20                10       19
## 3248       13           6           6                 2        9
## 3249       25          16          21                 7       19
## 3250       11           7          12                 3        8
## 3253        4           7          11                 6       10
## 3255       15          14          20                 5       18
## 3263        6           3          10                 2        5
## 3264       21           3           3                 3       23
## 3275        5           6          10                 2        7
```

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## 3284        5          14          17                10      16
## 3301        2          11          15                 7      12
## 3324        8           4           5                 2      12
## 3327        9           4          19                 4       5
## 3328        2           4           8                 4       5
## 3338        8           7           8                 4      12
## 3340       17           5           6                 5       9
## 3348        4           8          22                 7      11
## 3373        7          11          28                 7      15
## 3375       13           9          16                 7      15
## 3377       49           3          10                 3       4
## 3382       11          10          22                 6      14
## 3385       21          11          26                 8      22
## 3390       11           8          17                 4       9
## 3391       25           5           8                 4      19
## 3405       14           9          14                 8      12
## 3414       14          10          17                 7      14
## 3415       17           7           9                 5      12
## 3418        2           7           7                 2       8
## 3423        3           6           8                 5       9
## 3437        3           9          16                 6      11
## 3452       15           3          10                 3      11
## 3461        6           7          20                 6       9
## 3468       16          15          32                10      19
## 3470        5          16          25                11      19
## 3473        6          10          17                 6      12
## 3476       27           5          13                 3       8
## 3478        3           4          21                 4       6
## 3495       14           6          13                 6      10
## 3496        4           2           5                 1       4
## 3499        1           2           2                 2       3
## 3512        9          11          12                 9      14
## 3514        2           5           9                 4       7
## 3524        4           7          12                 1      10
## 3526        3           6           7                 5       7
## 3528       21          10          28                 1      19
## 3529       11           5           8                 3      10
## 3533        5          18          29                12      25
## 3549       15           5           7                 3      10
## 3551        2           7           9                 4       9
## 3552        3           2          21                 2       6
## 3563       29           4           7                 2      20
## 3570       16           5           8                 5      10
## 3573       10           5          12                 1       8
## 3583       11          10          18                 6      14
## 3587       11           6          17                 1       8
## 3597        5           7          10                 6       8
## 3601        3           2          10                 2       4
## 3609       13          10          17                 8      17
## 3618       19          10          16                 5      14
## 3620        6           4           6                 4       6
## 3626       13          12          16                 6      19
## 3627       10           6           9                 3      10
## 3638        6           8          13                 6      11
## 3643       11           7          10                 6      13
## 3647       11          16          23                 6      19
## 3652        3           2           3                 1       4
## 3654       18           6          13                 0      13
## 3664        5          14          23                 7      22
## 3669        4           7          11                 5       9
## 3676       18           5          12                 4       9
## 3677        6           3           7                 2       4
## 3689        2           4           8                 3       5
## 3694       28           7          16                 0      12
## 3695       16           5           9                 5      12
## 3696        5           5          12                 4       7
## 3724        6           9          18                 4      12
## 3725       27          13          15                 9      19
## 3753        7           5           7                 5      10
## 3772       10           6          12                 3      10
## 3792       23           8          20                 1      15
## 3793        9           7          15                 2       9
## 3795       10          17          19                 6      20
## 3797        4           3           6                 3       5
## 3798       17           6           6                 5      10
## 3806        4           2          16                 2       3
## 3812        4          14          20                11      15
## 3818        6          25          35                15      27
## 3820       12           6           7                 4      17
## 3823        9           8          16                 3      10
## 3829        8           7          19                 5      10
## 3838       12           9          26                 5      13
## 3842        5           5          14                 3       9
## 3848       11          10          11                10      13
## 3863       13          14          16                10      17
## 3866        6           6           7                 4       9
## 3867        3          12          17                 2      14
## 3871        7           8          25                 4      12
## 3880       11           6          16                 5       8
## 3883        6          12          18                11      16
## 3891       24          13          19                10      35
## 3895        7           9          18                 6      12
## 3896        5           8           9                 6      11
## 3898        7           4          14                 3       9
## 3903       12          10          22                 9      13
## 3916        7           6           8                 4       8
## 3928        6           4           7                 1       6
## 3930        9           4           9                 4       8
```

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## 3940        10          13          18           9        15
## 3957         9           7          11           4        11
## 3966         5           7           8           2         9
## 3992        11          11          18           7        13
## 3993         3          10          19           9        14
## 4000         3           8          20           7         9
## 4004        12           1           6           1        10
## 4012         6           4          11           2         6
## 4014        14          17          31           9        22
## 4025         5          12          20          10        15
## 4029        10           5           8           5         6
## 4032         8           3           9           3         6
## 4033         2           1           7           1         3
## 4059        11           4           7           3         9
## 4066        10           8          10           3        10
## 4067        10          14          15          10        23
## 4077         7          10          14           7        11
## 4087        17           6           9           3        10
## 4088         5           3           6           3         5
## 4091         2          17          31          12        21
## 4102         8          12          15           9        17
## 4106         5           6           6           6         8
## 4112         6           6           8           5        10
## 4127         8           2           2           1         3
## 4129        17           6           7           6        10
## 4130         7           3           6           3         5
## 4134         4           2           5           2         4
## 4145         7           9          19           6        12
## 4156         2           6          11           5         9
## 4158         2           8          10           5         9
## 4166        19           5           6           4        15
## 4167        14           2           6           1         9
## 4168        11           6          26           1        11
## 4171         6           6           9           5        12
## 4176        10           6           6           5        10
## 4182         3          10          23           3        10
## 4183        10           6          14           4         8
## 4184         8           5           8           3         6
## 4187        19          10          25           8        17
## 4190         6           7          20           4        12
## 4192        29           2          14           2         6
## 4195        23           8          10           8        13
## 4218         7           4          10           3         8
## 4223         3           7           8           4         8
## 4226        13           6          18           1        15
## 4227        14          15          36           6        20
## 4242        33           6           9           3        11
## 4244         6           5           7           0         7
## 4246        34          10          26           5        18
## 4250         7          10          14           3        11
## 4264         3           5          15           4         7
## 4276        13           7          14           6        14
## 4281        18          10          19           4        22
## 4288         6           6          11           5         9
## 4296         8           3           4           2         6
## 4299        34          14          15           6        18
## 4302         9           7          11           4         9
## 4312         9          11          14           1        14
## 4315        26           3           6           3        25
## 4319         7          11          14           9        16
## 4327        11          10          15           7        12
## 4329         3          18          25           7        19
## 4332         7          11          18           4        15
## 4339         8           3          11           2         5
## 4340         2           6          12           3         7
## 4343         5           5          14           3         8
## 4345        17          10          11           8        12
## 4359        12          14          31           4        15
## 4361        12           4          20           4         5
## 4366        14           7          18           3        18
## 4373        22           8          15           2        21
## 4374        24           3           5           3         9
## 4384         9          18          28           8        21
## 4393        15           4           8           2         8
## 4396        21          11          17           5        18
## 4409         8           5          10           3         8
## 4417         7           7           8           5         9
## 4422         5          15          28           9        17
## 4434         8          11          15           7        16
## 4438        11           7          16           1        12
## 4439         6          16          35           4        18
## 4444        30          12          18           7        17
## 4446        11           4          17           2         7
## 4454        14           8           9           7        21
## 4457        12           6          16           3        11
## 4460         6          16          21           6        17
## 4462        11           3           4           3         9
## 4467        11          19          52          11        22
## 4475         4           3          10           1         5
## 4480         4          13          26          10        16
## 4493        16           9          11           5        19
## 4496         6          12          17           8        14
## 4508        13          14          22           5        16
## 4513         3          12          14           6        13
## 4515         3           4           8           4         7
## 4521        14          13          16           6        22
## 4541        12           3           6           1         5
## 4542         8           6          22           4        10
```

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## 4549      16          3          10                3       6
## 4556      12          4           8                3       8
## 4559      14         18          27                9      22
## 4560      15          5          23                4       8
## 4570       8          8          13                7      10
## 4572       9         10          16                3      14
## 4574       8          2           3                2       4
## 4578       6         14          16                6      17
## 4582      11         10          16                9      16
## 4596      21          5          12                4      12
## 4600       6         15          22                5      19
## 4612      46         17          21                5      41
## 4619      13          4          18                2       8
## 4628      10          7           9                6      13
## 4637      39          4          19                2      20
## 4652      14          6          12                6       8
## 4655       4         10          15                5      11
## 4657       4          7          10                5      12
## 4666      32         13          31               10      31
## 4686       5          7          12                5       9
## 4689       7         13          19               10      17
## 4693       2          4           4                4       5
## 4694       8          4          11                1       9
## 4702      13         11          17                6      22
## 4705       2         14          17                4      16
## 4707       9         12          17               11      15
## 4713       4         11          19                7      14
## 4716      18          2           5                1       5
## 4727       7          7          12                5      10
## 4733       7          2           8                2       9
## 4740      11          4          19                4       6
## 4752      10          3          24                3       5
## 4757      25          7           9                5      18
## 4759       7          8          10                4      13
## 4761       9          5          14                4       9
## 4773       2          6          13                4       8
## 4782       7         10          21                6      13
## 4787       5          6           9                4      11
## 4789      11         17          31               15      27
## 4803      20          8          15                5      19
## 4826       5         16          38                4      19
## 4827       4          4           8                2       7
## 4828      14          7          13                4      12
## 4855       9         13          26                3      17
## 4857      11          3          16                0       9
## 4866      13         11          14                7      23
## 4869      12         19          27                7      23
## 4877       8         12          17                8      15
## 4881       6          8          16                3      10
## 4883       5         12          24                7      15
## 4919      23          8          19                3      22
## 4924       8          6          14                4      10
## 4932      15          7          11                7      17
## 4936       4         11          19                9      12
## 4939       9          3          13                3       7
## 4942      11          5           7                5       8
## 4964      10          9          13                5      11
## 4969      24          9          11                6      22
## 4994       6         18          27               15      22
## 5000       4          8          12                4      10
## 5002       1          6           8                5       8
## 5004      10          5          10                3      14
## 5005      13          7          14                1      15
## 5012      13          9          14                3      15
## 5013      15          2          18                1       6
## 5019       3          7          10                5      10
## 5028       6          3          14                2       5
## 5033      15          5          10                4      10
## 5056       4          9          15                3      12
## 5062      26         15          27                8      19
## 5067       5         18          26                4      20
## 5085      18         10          12                4      15
## 5101       2          6          21                5       9
## 5111       5          6           9                4       8
## 5113       4          3           5                1       4
## 5119       7         15          37                4      18
## 5121      12          2           6                2       5
## 5127       7         11          19                9      17
## 5129      16          5          11                1      15
## 5144       8         11          24                2      12
## 5146      16          7           9                6       9
## 5149      15         20          32               14      28
## 5153       9          3           8                1       5
## 5172       9          6           6                6       9
## 5175      17         12          17                8      18
## 5178       8          4          10                3       8
## 5189      18         15          24                7      22
## 5198      13          7          14                5      12
## 5199      14          5           6                2      18
## 5208      14          9          22                2      14
## 5222       5         12          20                4      14
## 5226       5          4           7                2       8
## 5227      10          6          10                3       9
## 5231      36         10          15                6      33
## 5253       8          3          11                2       6
## 5263       8          6          11                6       8
## 5272       7          9          11                4      11
## 5280       6          6           8                4       8
```

```
## 5288         6            14            22                  10       16
## 5289         9            13            22                   7       16
## 5293         3             9            20                   6       13
## 5296         8             6             8                   5       12
## 5318         3             8            15                   4        9
## 5323         4            20            29                   3       25
## 5338         4             5             9                   5        6
## 5366         4             3             6                   3        5
## 5374        11             5            40                   2       10
## 5378        19             6             6                   6       11
## 5386        11             3             7                   3        7
## 5391        20            13            19                  12       17
## 5398         2             6            11                   2        8
## 5414         3             4             5                   4        7
## 5423         2            10            14                   7       11
## 5426        15             6             8                   3        7
## 5430        16            21            36                  11       25
## 5434         5             8            11                   6       11
## 5439         2            11            17                   6       13
## 5457         9             5             8                   2       11
## 5461         7             1             4                   1        4
## 5463         4            12            20                   7       14
## 5469         4            10            13                   9       12
## 5471        10             6            11                   2        7
## 5487         7             5            18                   3        8
## 5489        14             9            20                   6       12
## 5493         3             7             9                   5        9
## 5495        31             6            10                   2       11
## 5504         4            16            30                   1       18
## 5512         1             1             4                   0        2
## 5520         9            25            40                  17       29
## 5526         7            15            15                  14       18
## 5528         3             3             3                   3        4
## 5530        17             9            19                   7       16
## 5542        10             7            19                   3       10
## 5546        10            10            12                   4       13
## 5560        22            16            28                   9       20
## 5572         1             5            12                   4        6
## 5606         7            12            27                   9       12
## 5617         4             4             8                   3        6
## 5618         6             2             5                   2        5
## 5631         1             5             7                   4        6
## 5644         4            11            21                   7       12
## 5645         3             6            12                   3        8
## 5650        12            10            10                   9       16
## 5652        22             6            12                   3       17
## 5653         3             4            14                   2        6
## 5655         8             7            13                   5        9
## 5657         5             3             7                   1        6
## 5662         5             6            12                   4        8
## 5678         3            11            16                  10       13
## 5682         5            17            27                   9       19
## 5686        10            11            14                   7       15
## 5691        25            15            40                   8       17
## 5701         4            11            16                  10       12
## 5702        15             6             8                   5       11
## 5713         5            14            20                  11       18
## 5714        11             8            11                   2       11
## 5719         9             6            18                   2       10
## 5726        13             5            25                   4        9
## 5730        10             8            14                   2       12
## 5735        15             7            16                   5       17
## 5738        25             3             5                   3       15
## 5740        11             6            17                   6       10
## 5742        11             7             8                   5        9
## 5746         7             4            11                   3        8
## 5748        12             7            15                   4       11
## 5755         5             4            11                   1        6
## 5774        14             5            11                   1       14
## 5780        39             5             5                   3        7
## 5790         6             5             6                   5        7
## 5805        14             7             8                   7        9
## 5813         2             6             9                   3        8
## 5829         9             4             6                   3        8
## 5837        37            14            21                   9       37
## 5839         7            13            20                  13       15
## 5855        10             3             3                   3        6
## 5864        15            14            37                   6       19
## 5871        13            16            21                   9       18
## 5879         6             1             4                   1        3
## 5894         4             8            15                   5       11
## 5900         7             6            12                   4       10
## 5905        21             5            12                   2       13
## 5909         7             6            10                   4       10
## 5911        10             5            11                   4        7
## 5920         3             2             3                   1        4
## 5926        14             8            16                   5       12
## 5934         8            10            14                   9       15
## 5937         6             6            33                   4       11
## 5939        12            12            16                  11       15
## 5941         9             9            21                   6       14
## 5945         2            26            35                  14       29
##      num_tl_120dpd_2m num_tl_30dpd num_tl_90g_dpd_24m num_tl_op_past_12m
## 1                   0           0                  0                  4
## 13                  0           0                  0                  1
## 26                  0           0                  0                  6
## 29                  0           0                  1                  1
## 56                  0           0                  0                  0
```

```
## 58          0          0          0          3
## 62          0          0          0          3
## 79          0          0          0          7
## 81          0          0          0          0
## 85          0          0          0          2
## 89          0          0          0          1
## 94          0          0          0          4
## 95          0          0          0          0
## 100         0          0          0          2
## 123         0          0          0          8
## 129         0          0          0          6
## 131         0          0          0          1
## 146         0          0          0          7
## 157         0          0          0          0
## 177         0          0          0          1
## 188         0          0          0          4
## 189         0          0          1          0
## 209         0          0          0          5
## 211         0          0          0          2
## 214         0          0          0          2
## 223         0          0          0          1
## 228         0          0          0          3
## 237         0          0          0          6
## 256         0          0          0          4
## 266         0          0          0          5
## 280         0          0          0          5
## 282         0          0          0          0
## 288         0          0          0          3
## 289         0          0          0          2
## 291         0          0          0          1
## 293         0          0          0          4
## 299         0          0          0          5
## 300         0          0          0          4
## 303         0          0          0          1
## 320         0          0          0          1
## 333         0          0          0          1
## 339         0          0          0          7
## 342         0          0          0          2
## 363         0          0          0          0
## 372         0          0          0          4
## 380         0          0          0          1
## 398         0          0          2          3
## 401         0          0          0          2
## 404         0          0          0          1
## 437         0          0          0          1
## 447         0          0          0          1
## 448         0          0          0          6
## 449         0          0          0          4
## 457         0          0          0          6
## 463         0          0          0          2
## 472         0          0          0          5
## 478         0          0          0          2
## 489         0          0          0          1
## 492         0          0          0          1
## 498         0          0          0          2
## 510         0          0          0          2
## 511         0          0          1          0
## 521         0          0          0          6
## 522         0          0          0          3
## 534         0          0          0          2
## 535         0          0          0          8
## 538         0          0          0          0
## 539         0          0          0          3
## 554         0          0          0          9
## 557         0          0          0          5
## 573         0          0          0          0
## 574         0          0          0          3
## 586         0          0          0          2
## 595         0          0          0          6
## 599         0          0          0          4
## 603         0          0          0          0
## 604         0          0          0          4
## 633         0          0          0          2
## 643         0          0          0          3
## 657         0          0          5         10
## 661         0          0          0          4
## 666         0          0          0          1
## 686         0          0          0          3
## 693         0          0          0          2
## 701         0          0          0          3
## 714         0          0          0          1
## 723         0          0          0          1
## 732         0          0          0          6
## 733         0          0          0          2
## 735         0          0          0         10
## 736         0          0          0          4
## 741         0          0          0          5
## 742         0          0          1          5
## 751         0          0          0          2
## 756         0          0          0          3
## 759         0          0          0          4
## 762         0          0          0          4
## 763         0          0          0          6
## 765         0          0          0          3
## 768         0          0          0          2
## 773         0          0          0          0
## 774         0          0          0          4
## 776         0          0          0          3
```

```
## 783          0          0          0          3
## 785          0          0          0          1
## 842          0          0          0          0
## 864          0          0          0          2
## 865          0          0          0          1
## 868          0          0          0          0
## 876          0          0          0          2
## 888          0          0          0          4
## 927          0          0          1          5
## 929          0          0          0          4
## 941          0          0          0          0
## 944          0          0          0          2
## 947          0          0          0          5
## 948          0          0          0          1
## 959          0          0          0          2
## 970          0          0          0          1
## 973          0          0          0          0
## 979          0          0          0          5
## 980          0          0          0          2
## 981          0          0          0          1
## 987          0          0          0          7
## 991          0          0          0          2
## 1001         0          0          0          7
## 1004         0          0          0          5
## 1010         0          0          0          1
## 1016         0          0          0          0
## 1018         0          0          0          2
## 1019         0          0          0          0
## 1042         0          0          0          3
## 1079         0          0          0          2
## 1087         0          0          0          6
## 1093         0          0          0          0
## 1103         0          0          0          0
## 1127         0          0          0          0
## 1132         0          0          0          3
## 1137         0          0          0          5
## 1138         0          0          0          5
## 1140         0          0          0          1
## 1144         0          0          0          3
## 1145         0          0          0          3
## 1154         0          0          0          0
## 1156         0          0          0          3
## 1157         0          0          0          8
## 1160         0          0          0          4
## 1162         0          0          0          5
## 1165         0          0          0          5
## 1176         0          0          0          3
## 1180         0          0          0         11
## 1182         0          0          0          0
## 1183         0          0          0          2
## 1184         0          0          0          9
## 1185         0          0          0          3
## 1201         0          0          0          4
## 1204         0          0          0          2
## 1234         0          0          0          0
## 1235         0          0          0          0
## 1236         0          0          0          3
## 1240         0          0          0          1
## 1288         0          0          0          3
## 1289         0          0          0          3
## 1297         0          0          1          5
## 1303         0          0          1          1
## 1305         0          0          0          4
## 1318         0          0          0          1
## 1331         0          0          0          9
## 1332         0          0          0          3
## 1333         0          0          0          1
## 1350         0          0          0          5
## 1358         0          0          0          3
## 1359         0          0          0          2
## 1364         0          0          0          3
## 1370         0          0          0          2
## 1372         0          0         18          1
## 1377         0          0          0          0
## 1381         0          0          0          2
## 1387         0          0          0          4
## 1401         0          0          1          1
## 1405         0          0          0          4
## 1417         0          0          0          0
## 1423         0          0          0          4
## 1426         0          0          0          2
## 1429         0          0          0          3
## 1436         0          0          0          7
## 1448         0          0          0          1
## 1454         0          0          0          0
## 1458         0          0          0          1
## 1467         0          0          0          3
## 1471         0          0          0          0
## 1474         0          0          0          4
## 1491         0          0          1          2
## 1495         0          0          0          2
## 1498         0          0          0          5
## 1508         0          0          0          2
## 1515         0          0          0          2
## 1528         0          0          0          0
## 1536         0          0          0          3
## 1541         0          0          0          6
## 1549         0          0          0          2
```

```
## 1556          0          0          0          1
## 1561          0          0          0          4
## 1563          0          0          0          5
## 1565          0          0          1          2
## 1586          0          0          0          3
## 1587          0          0          0          5
## 1589          0          0          0          8
## 1602          0          0          0          6
## 1615          0          0          0          2
## 1625          0          0          0          2
## 1630          0          0          0          1
## 1635          0          0          0          2
## 1654          0          0          0          0
## 1655          0          0          0          1
## 1670          0          0          0          4
## 1682          0          0          1          5
## 1687          0          0          0          3
## 1690          0          0          0          2
## 1694          0          0          1          2
## 1695          0          0          0          1
## 1697          0          0          2          2
## 1698          0          0          0          6
## 1705          0          0          0          3
## 1709          0          0          0          2
## 1719          0          0          0          5
## 1720          0          0          0          6
## 1731          0          0          0          3
## 1736          0          0          1          5
## 1740          0          0          0          5
## 1745          0          0          0          1
## 1746          0          0          0          0
## 1758          0          0          0          0
## 1769          0          0          2          3
## 1778          0          0          0          2
## 1793          0          0          0          2
## 1795          0          0          0          5
## 1797          0          0          0          4
## 1800          0          0          0          2
## 1807          0          0          0          3
## 1815          0          0          0          3
## 1818          0          0          0          2
## 1826          0          0          0          1
## 1827          0          0          0          3
## 1835          0          0          0          5
## 1837          0          0          0          2
## 1840          0          0          0          2
## 1845          0          0          0          1
## 1851          0          0          0          2
## 1859          0          0          0          3
## 1863          0          0          0          1
## 1878          0          0          0          5
## 1903          0          0          0          6
## 1909          0          0          0          5
## 1914          0          0          0          5
## 1928          0          0          0          1
## 1947          0          0          0          2
## 1953          0          0          0          5
## 1955          0          0          1          5
## 1965          0          0          6          1
## 1978          0          0          0          0
## 1980          0          0          0          3
## 2007          0          0          0          2
## 2009          0          0          0          4
## 2031          0          0          0          3
## 2040          0          0          0          1
## 2044          0          0          0          6
## 2049          0          0          0          4
## 2052          0          0          0          6
## 2057          0          0          0          3
## 2059          0          0          0          5
## 2063          0          0          0          4
## 2067          0          0          0          3
## 2097          0          0          0          4
## 2102          0          0          0          1
## 2106          0          0          1          0
## 2111          0          0          0          2
## 2112          0          0          0          4
## 2113          0          0          0          3
## 2118          0          0          0          4
## 2120          0          0          0          3
## 2122          0          0          0          1
## 2125          0          0          0          4
## 2130          0          0          0          1
## 2133          0          0          0          3
## 2139          0          0          0          4
## 2144          0          0          0          6
## 2156          0          0          0          0
## 2160          0          0          0          0
## 2182          0          0          0          4
## 2183          0          0          0          1
## 2186          0          0          0          5
## 2210          0          0          0          1
## 2221          0          0          0          2
## 2233          0          0          0          5
## 2235          0          0          0          3
## 2240          0          0          0          0
## 2247          0          0          0          2
## 2249          0          0          0          3
```

```
## 2251          0          0          1          9
## 2261          0          0          0          1
## 2262          0          0          1          0
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## 2314          0          0          0          1
## 2332          0          0          0          2
## 2333          0          0          0          1
## 2334          0          0          0          3
## 2344          0          0          0          2
## 2346          0          0          1          1
## 2349          0          0          0          0
## 2352          0          0          1          1
## 2359          0          0          0          2
## 2364          0          0          0          4
## 2371          0          0          0          2
## 2380          0          0          0          6
## 2388          0          0          0          7
## 2398          0          0          0          9
## 2400          0          0          0          5
## 2401          0          0          0          5
## 2408          0          0          0          0
## 2410          0          0          0          2
## 2415          0          0          0          6
## 2424          0          0          0          2
## 2427          0          0          0          1
## 2428          0          0          1          4
## 2445          0          0          0          2
## 2454          0          0          0          4
## 2458          0          0          0          2
## 2459          0          0          0          0
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## 2479          0          0          0          1
## 2482          0          0          0          2
## 2497          0          0          0          7
## 2506          0          0          0          1
## 2508          0          0          0          2
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## 2521          0          0          0          3
## 2526          0          0          0          2
## 2528          0          0          0          1
## 2532          0          0          0          4
## 2534          0          0          0          9
## 2537          0          0          0          4
## 2543          0          0          1          4
## 2555          0          0          0          2
## 2559          0          0          0          3
## 2565          0          0          0          0
## 2569          0          0          0          0
## 2575          0          0          1          1
## 2577          0          0          0          1
## 2584          0          0          0          1
## 2586          0          0          0          0
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## 2621          0          0          0          2
## 2634          0          0          0          5
## 2646          0          0          0          8
## 2653          0          0          0          0
## 2656          0          0          0          3
## 2664          0          0          0          4
## 2668          0          0          0          0
## 2669          0          0          0          3
## 2675          0          0          0          5
## 2676          0          0          0          3
## 2685          0          0          0          4
## 2699          0          0          0          2
## 2706          0          0          0          5
## 2711          0          0          0          4
## 2717          0          0          0          3
## 2719          0          0          0          3
## 2720          0          0          0          4
## 2728          0          0          0          1
## 2737          0          0          0          5
## 2740          0          0          0          2
## 2746          0          0          0          4
## 2748          0          0          0          1
## 2759          0          0          0          1
## 2760          0          0          0          2
## 2783          0          0          0          9
## 2784          0          0          1          6
## 2793          0          0          0          6
## 2794          0          0          0          4
## 2804          0          0          0          1
## 2809          0          0          1          4
## 2815          0          0          0          2
## 2823          0          0          0          2
## 2828          0          0          0          1
## 2829          0          0          0          5
## 2836          0          0          0          2
## 2849          0          0          0          1
## 2862          0          0          0          0
## 2864          0          0          0          0
## 2870          0          0          0         10
## 2871          0          0          1          1
## 2881          0          0          0          9
## 2890          0          0          0          3
```

```
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## 2904          0          0          0          4
## 2905          0          0          0          1
## 2909          0          0          0          1
## 2910          0          0          0          6
## 2921          0          0          4          1
## 2926          0          0          1          0
## 2937          0          0          1          3
## 2943          0          0          0          2
## 2945          0          0          0          2
## 2953          0          0          0          3
## 2963          0          0          0          3
## 2964          0          0          1          2
## 2987          0          0          0          2
## 2990          0          0          0          2
## 2996          0          0          0          5
## 2997          0          0          0          4
## 2998          0          0          0          2
## 3011          0          0          0          2
## 3013          0          0          1          4
## 3014          0          0          0          2
## 3015          0          0          0          6
## 3019          0          0          0          2
## 3020          0          0          0          2
## 3038          0          0          0          1
## 3046          0          0          0          7
## 3055          0          0          0          0
## 3066          0          0          0          0
## 3068          0          0          0          4
## 3069          0          0          0          3
## 3077          0          0          0          3
## 3091          0          0          0          5
## 3109          0          0          0          3
## 3110          0          0          0          4
## 3111          0          0          0          6
## 3114          0          0          0          0
## 3115          0          0          0          2
## 3127          0          0          1          1
## 3128          0          0          0          7
## 3129          0          0          0          4
## 3139          0          0          0          2
## 3144          0          0          0          4
## 3148          0          0          0          5
## 3157          0          0          0          1
## 3167          0          0          0          1
## 3168          0          0          0          4
## 3191          0          0          0          3
## 3192          0          0          1          4
## 3195          0          0          0          1
## 3197          0          0          0          4
## 3207          0          0          0          2
## 3220          0          0          0          0
## 3235          0          0          0          0
## 3240          0          0          0          0
## 3242          0          0          0          3
## 3245          0          0          0          3
## 3248          0          0          0          7
## 3249          0          0          0          4
## 3250          0          0          0          1
## 3253          0          0          0          4
## 3255          0          0          1          1
## 3263          0          0          0          1
## 3264          0          0          0          1
## 3275          0          0          0          1
## 3284          0          0          0          5
## 3301          0          0          1          1
## 3324          0          0          0          4
## 3327          0          0          0          6
## 3328          0          0          0          4
## 3338          0          0          0          4
## 3340          0          0          0          3
## 3348          0          0          0          0
## 3373          0          0          0          6
## 3375          0          0          1          4
## 3377          0          0          0          3
## 3382          0          0          0          3
## 3385          0          0          0          4
## 3390          0          0          0          1
## 3391          0          0          0          0
## 3405          0          0          0          0
## 3414          0          0          0          4
## 3415          0          0          0          2
## 3418          0          0          0          3
## 3423          0          0          0          0
## 3437          0          0          0          1
## 3452          0          0          1          4
## 3461          0          0          0          1
## 3468          0          0          0          8
## 3470          0          0          0          3
## 3473          0          0          0          0
## 3476          0          0          0          7
## 3478          0          0          0          3
## 3495          0          0          0          1
## 3496          0          0          1          2
## 3499          0          0          0          1
## 3512          0          0          0          2
## 3514          0          0          0          1
## 3524          0          0          0          1
```

```
## 3526          0          0          0          1
## 3528          0          0          0          2
## 3529          0          0          0          1
## 3533          0          0          0          3
## 3549          0          0          0          0
## 3551          0          0          0          1
## 3552          0          0          1          2
## 3563          0          0          0          0
## 3570          0          0          0          0
## 3573          0          0          0          0
## 3583          0          0          0          3
## 3587          0          0          1          1
## 3597          0          0          0          2
## 3601          0          0          0          1
## 3609          0          0          1          1
## 3618          0          0          0          6
## 3620          0          0          0          3
## 3626          0          0          0          3
## 3627          0          0          1          2
## 3638          0          0          0          3
## 3643          0          0          0          4
## 3647          0          0          0          1
## 3652          0          0          0          1
## 3654          0          0          0          3
## 3664          0          0          0          7
## 3669          0          0          0          0
## 3676          0          0          0          1
## 3677          0          0          2          1
## 3689          0          0          0          2
## 3694          0          0          0          3
## 3695          0          0          0          3
## 3696          0          0          0          2
## 3724          0          0          0          5
## 3725          0          0          0          8
## 3753          0          0          2          3
## 3772          0          0          0          3
## 3792          0          0          0          3
## 3793          0          0          0          2
## 3795          0          0          0          3
## 3797          0          0          0          0
## 3798          0          0          0          2
## 3806          0          0          0          2
## 3812          0          0          0          5
## 3818          0          0          0          5
## 3820          0          0          0          0
## 3823          0          0          0          1
## 3829          0          0          0          4
## 3838          0          0          0          1
## 3842          0          0          0          2
## 3848          0          0          0          3
## 3863          0          0          0          2
## 3866          0          0          0          2
## 3867          0          0          0          2
## 3871          0          0          0          6
## 3880          0          0          0          4
## 3883          0          0          0          1
## 3891          0          0          0          7
## 3895          0          0          0          1
## 3896          0          0          0          1
## 3898          0          0          0          2
## 3903          0          0          1          4
## 3916          0          0          0          2
## 3928          0          0          0          2
## 3930          0          0          0          3
## 3940          0          0          0         12
## 3957          0          0          0          2
## 3966          0          0          0          5
## 3992          0          0          0         10
## 3993          0          0          0          0
## 4000          0          0          0          3
## 4004          0          0          0          2
## 4012          0          0          0          4
## 4014          0          0          0          7
## 4025          0          0          0          1
## 4029          0          0          0          0
## 4032          0          0          0          0
## 4033          0          0          0          0
## 4059          0          0          0          1
## 4066          0          0          0          3
## 4067          0          0          0          4
## 4077          0          0          0          8
## 4087          0          0          0          3
## 4088          0          0          0          1
## 4091          0          0          0          4
## 4102          0          0          0          2
## 4106          0          0          0          3
## 4112          0          0          0          3
## 4127          0          0          2          0
## 4129          0          0          0          2
## 4130          0          0          0          2
## 4134          0          0          0          1
## 4145          0          0          0          2
## 4156          0          0          0          3
## 4158          0          0          0          2
## 4166          0          0          0          0
## 4167          0          0          1          5
## 4168          0          0          0          4
## 4171          0          0          0          3
```

```
## 4176          0          0          0          0
## 4182          0          0          0          2
## 4183          0          0          0          4
## 4184          0          0          0          0
## 4187          0          0          0          3
## 4190          0          0          1          0
## 4192          0          0          0          0
## 4195          0          0          0          3
## 4218          0          0          0          2
## 4223          0          0          0          2
## 4226          0          0          0          3
## 4227          0          0          0          3
## 4242          0          0          0          1
## 4244          0          0          0          2
## 4246          0          0         11          3
## 4250          0          0          0          2
## 4264          0          0          0          1
## 4276          0          0          4          3
## 4281          0          0          0          5
## 4288          0          0          0          0
## 4296          0          0          0          1
## 4299          0          0          5          4
## 4302          0          0          0          4
## 4312          0          0          0          2
## 4315          0          0          0          1
## 4319          0          0          0          1
## 4327          0          0          1          4
## 4329          0          0          0         19
## 4332          0          0          0          4
## 4339          0          0          0          1
## 4340          0          0          0          1
## 4343          0          0          1          1
## 4345          0          0          0          6
## 4359          0          0          0          0
## 4361          0          0          0          7
## 4366          0          0          1          0
## 4373          0          0          0          3
## 4374          0          0          0          2
## 4384          0          0          0          2
## 4393          0          0          0          2
## 4396          0          0          0          1
## 4409          0          0          0          2
## 4417          0          0          0          3
## 4422          0          0          0          5
## 4434          0          0          0          4
## 4438          0          0          0          2
## 4439          0          0          0          2
## 4444          0          0          0          2
## 4446          0          0          0          5
## 4454          0          0          0          1
## 4457          0          0          0          5
## 4460          0          0          0          2
## 4462          0          0          0          2
## 4467          0          0          0          6
## 4475          0          0          0          0
## 4480          0          0          0          2
## 4493          0          0          1          3
## 4496          0          0          1          3
## 4508          0          0          0          9
## 4513          0          0          0          6
## 4515          0          0          0          3
## 4521          0          0          0          0
## 4541          0          0          0          0
## 4542          0          0          0          2
## 4549          0          0          0          1
## 4556          0          0          0          0
## 4559          0          0          0          1
## 4560          0          0          0          2
## 4570          0          0          0          4
## 4572          0          0          0          3
## 4574          0          0          0          1
## 4578          0          0          0          6
## 4582          0          0          0          4
## 4596          0          0          0          3
## 4600          0          0          0          2
## 4612          0          0          0          1
## 4619          0          0          0          4
## 4628          0          0          0          2
## 4637          0          0          0          1
## 4652          0          0          0          3
## 4655          0          0          0          0
## 4657          0          0          0          2
## 4666          0          0          0          6
## 4686          0          0          0          4
## 4689          0          0          0          2
## 4693          0          0          0          4
## 4694          0          0          0          2
## 4702          0          0          0          7
## 4705          0          0          0          0
## 4707          0          0          0          2
## 4713          0          0          0          6
## 4716          0          0          0          2
## 4727          0          0          0          4
## 4733          0          0          0          4
## 4740          0          0          0          2
## 4752          0          0          0          6
## 4757          0          0          1          3
## 4759          0          0          0          1
```

```
## 4761          0          0          0          1
## 4773          0          0          0          4
## 4782          0          0          0          7
## 4787          0          0          0          2
## 4789          0          0          0          6
## 4803          0          0          0          7
## 4826          0          0          1          8
## 4827          0          0          1          5
## 4828          0          0          0          1
## 4855          0          0          0          4
## 4857          0          0          1          2
## 4866          0          0          0          1
## 4869          0          0          0          3
## 4877          0          0          0          3
## 4881          0          0          0          1
## 4883          0          0          0          1
## 4919          0          0          0          2
## 4924          0          0          0          3
## 4932          0          0          0          3
## 4936          0          0          0          2
## 4939          0          0          0          5
## 4942          0          0          0          4
## 4964          0          0          0          5
## 4969          0          0          0          2
## 4994          0          0          0          1
## 5000          0          0          0          4
## 5002          0          0          0          3
## 5004          0          0          0          2
## 5005          0          0          0          5
## 5012          0          0          0          0
## 5013          0          0          1          4
## 5019          0          0          1          1
## 5028          0          0          0          1
## 5033          0          0          0          3
## 5056          0          0          0          3
## 5062          0          0          0          9
## 5067          0          0          0          4
## 5085          0          0          0          3
## 5101          0          0          0          1
## 5111          0          0          0          1
## 5113          0          0          0          1
## 5119          0          0          0          4
## 5121          0          0          0          0
## 5127          0          0          0          0
## 5129          0          0          0          0
## 5144          0          0          0          1
## 5146          0          0          0          3
## 5149          0          0          0          6
## 5153          0          0          0          2
## 5172          0          0          0          3
## 5175          0          0          0          7
## 5178          0          0          0          1
## 5189          0          0          3          4
## 5198          0          0          0          4
## 5199          0          0          0          1
## 5208          0          0          0          4
## 5222          0          0          0          5
## 5226          0          0          0          0
## 5227          0          0          0          2
## 5231          0          0          0          5
## 5253          0          0          0          2
## 5263          0          0          0          1
## 5272          0          0          0          1
## 5280          0          0          1          0
## 5288          0          0          0          2
## 5289          0          0          0          1
## 5293          0          0          0          1
## 5296          0          0          0          1
## 5318          0          0          0          3
## 5323          0          0          0          7
## 5338          0          0          0          0
## 5366          0          0          1          1
## 5374          0          0         17          1
## 5378          0          0          0          3
## 5386          0          0          0          0
## 5391          0          0          0          1
## 5398          0          0          0          3
## 5414          0          0          0          0
## 5423          0          0          0          3
## 5426          0          0          0          3
## 5430          0          0          0          7
## 5434          0          0          0          2
## 5439          0          0          0          6
## 5457          0          0          0          1
## 5461          0          0          0          0
## 5463          0          0          0          6
## 5469          0          0          1          1
## 5471          0          0          0          5
## 5487          0          0          0          1
## 5489          0          0          0          3
## 5493          0          0          0          2
## 5495          0          0          0          4
## 5504          0          0          0          5
## 5512          0          0          0          1
## 5520          0          0          0          3
## 5526          0          0          0          8
## 5528          0          0          0          3
## 5530          0          0          3          6
```

```
## 5542              0            0                  0                  2
## 5546              0            0                  0                  2
## 5560              0            0                  1                  4
## 5572              0            0                  0                  3
## 5606              0            0                  0                  4
## 5617              0            0                  0                  2
## 5618              0            0                  0                  1
## 5631              0            0                  0                  0
## 5644              0            0                  0                  5
## 5645              0            0                  0                  4
## 5650              0            0                  0                  3
## 5652              0            0                  0                  8
## 5653              0            0                  0                  0
## 5655              0            0                  0                  4
## 5657              0            0                  0                  3
## 5662              0            0                  0                  1
## 5678              0            0                  0                  2
## 5682              0            0                  0                  4
## 5686              0            0                  0                  1
## 5691              0            0                  0                 10
## 5701              0            0                  0                  2
## 5702              0            0                  0                  2
## 5713              0            0                  0                  0
## 5714              0            0                  0                  3
## 5719              0            0                  0                  1
## 5726              0            0                  0                  6
## 5730              0            0                  0                  9
## 5735              0            0                  0                  5
## 5738              0            0                  4                  0
## 5740              0            0                  0                  2
## 5742              0            0                  1                  1
## 5746              0            0                  0                  5
## 5748              0            0                  0                  7
## 5755              0            0                  1                  2
## 5774              0            0                  0                 13
## 5780              0            0                  0                  2
## 5790              0            0                  0                  3
## 5805              0            0                  0                  0
## 5813              0            0                  0                  4
## 5829              0            0                  0                  0
## 5837              0            0                  0                 11
## 5839              0            0                  0                  2
## 5855              0            0                  0                  3
## 5864              0            0                  0                  4
## 5871              0            0                  0                  2
## 5879              0            0                  0                  0
## 5894              0            0                  0                  3
## 5900              0            0                  0                  4
## 5905              0            0                  0                  3
## 5909              0            0                  0                  0
## 5911              0            0                  0                  4
## 5920              0            0                  0                  2
## 5926              0            0                  0                  5
## 5934              0            0                  0                  1
## 5937              0            0                  0                  4
## 5939              0            0                  0                  3
## 5941              0            0                  0                  1
## 5945              0            0                  0                  2
##      pct_tl_nvr_dlq percent_bc_gt_75 pub_rec_bankruptcies tax_liens
## 1              91.7             0.0                    0         0
## 13             88.9            60.0                    0         0
## 26            100.0             0.0                    0         0
## 29             96.2             0.0                    0         0
## 56             83.3             0.0                    0         0
## 58             95.9             0.0                    0         0
## 62             92.3             0.0                    1         0
## 79             85.7            40.0                    0         0
## 81            100.0             0.0                    0         0
## 85             96.6             0.0                    0         0
## 89             93.5            25.0                    0         0
## 94             95.5            50.0                    0         0
## 95             85.7           100.0                    0         0
## 100            82.6             0.0                    0         0
## 123            96.0             9.1                    0         0
## 129            73.3             0.0                    0         0
## 131            96.2             0.0                    0         0
## 146            97.8             0.0                    0         0
## 157            75.0           100.0                    0         0
## 177            69.2             0.0                    0         0
## 188            96.7             0.0                    0         0
## 189            96.4             0.0                    0         0
## 209            90.9             0.0                    0         0
## 211            95.8             0.0                    0         0
## 214            90.5            80.0                    0         0
## 223            85.7            40.0                    0         0
## 228            93.3             0.0                    0         0
## 237            92.0            18.8                    0         0
## 256            95.8             0.0                    1         0
## 266            90.9             0.0                    0         0
## 280            95.5            37.5                    0         0
## 282            94.7             0.0                    0         0
## 288            95.2             0.0                    0         0
## 289            90.7             0.0                    0         0
## 291            91.7             0.0                    0         0
## 293            97.6             0.0                    0         0
## 299            85.7            66.7                    0         0
## 300            91.3             0.0                    0         0
## 303            90.5            16.7                    0         0
```

```
## 320          81.8            0.0                  0        0
## 333          72.7            0.0                  0        0
## 339          68.6            0.0                  0        0
## 342          92.0           33.3                  0        0
## 363          97.7          100.0                  0        0
## 372          94.2           20.0                  0        0
## 380         100.0            0.0                  0        0
## 398          57.1           28.6                  0        0
## 401          93.5           42.9                  0        0
## 404          69.2            0.0                  0        0
## 437          93.8           40.0                  0        0
## 447          88.0            0.0                  0        0
## 448          97.7           73.7                  0        0
## 449          93.3           25.0                  0        0
## 457          91.3           50.0                  0        0
## 463          90.9           50.0                  0        0
## 472          89.3           25.0                  0        0
## 478          88.9           20.0                  0        0
## 489          94.5           11.1                  0        0
## 492          85.7           33.3                  0        0
## 498          95.7            0.0                  0        0
## 510          92.0           22.2                  0        0
## 511          81.8            0.0                  0        0
## 521          89.5           16.7                  0        0
## 522         100.0            0.0                  0        0
## 534          95.5            0.0                  1        0
## 535          93.8            7.1                  0        0
## 538          98.1           22.2                  0        0
## 539         100.0            0.0                  0        0
## 554          85.5           36.4                  0        0
## 557         100.0            0.0                  0        0
## 573          93.8          100.0                  0        0
## 574          90.3           57.1                  0        0
## 586          96.9            0.0                  0        0
## 595          93.9            0.0                  0        0
## 599          95.7            0.0                  0        0
## 603          80.0            0.0                  0        0
## 604          82.2            0.0                  1        0
## 633          97.9            0.0                  0        0
## 643          76.9            0.0                  0        0
## 657          86.1            0.0                  1        0
## 661          72.4            0.0                  0        0
## 666          93.3           66.7                  0        0
## 686          95.5          100.0                  0        0
## 693          97.6          100.0                  0        0
## 701          79.5           66.7                  0        0
## 714          91.7            0.0                  0        0
## 723          96.0           50.0                  0        0
## 732          95.0            0.0                  0        0
## 733          91.2            0.0                  0        0
## 735         100.0            0.0                  0        0
## 736          92.0            0.0                  0        0
## 741          92.3            0.0                  1        0
## 742          77.4           33.3                  0        0
## 751          95.0            0.0                  0        0
## 756          96.2            0.0                  0        0
## 759          97.1            0.0                  0        0
## 762          70.6           50.0                  0        0
## 763          90.9            0.0                  0        0
## 765          73.5           33.3                  0        0
## 768          95.8            0.0                  0        0
## 773          81.8           50.0                  0        0
## 774         100.0            0.0                  0        0
## 776          93.6            0.0                  0        0
## 783          94.3           40.0                  0        0
## 785          82.4            0.0                  0        0
## 842          73.3           50.0                  0        0
## 864         100.0           60.0                  0        0
## 865          94.4           33.3                  0        0
## 868          94.7            0.0                  0        0
## 876          93.1           50.0                  0        0
## 888          93.3            0.0                  0        0
## 927          90.9          100.0                  1        0
## 929          95.3            0.0                  1        0
## 941          94.4          100.0                  0        0
## 944          90.9            0.0                  0        0
## 947          93.3            0.0                  0        0
## 948          91.3           14.3                  0        0
## 959          88.9           66.7                  0        0
## 970          92.5           16.7                  0        0
## 973          87.9           50.0                  0        0
## 979          98.2            0.0                  0        0
## 980          92.6            0.0                  0        0
## 981          97.1            0.0                  0        0
## 987         100.0            0.0                  1        0
## 991          94.1            0.0                  0        0
## 1001         97.1            0.0                  0        0
## 1004         94.4            0.0                  0        0
## 1010         97.0            0.0                  1        0
## 1016         81.8            0.0                  0        0
## 1018         97.5            0.0                  0        0
## 1019         96.9           50.0                  0        0
## 1042         93.5           11.1                  1        0
## 1079         88.5            0.0                  0        0
## 1087         91.2            0.0                  0        0
## 1093         95.5            0.0                  0        0
## 1103         84.6            0.0                  0        0
## 1127         95.1            0.0                  0        0
```

```
## 1132          83.3            50.0                    0         0
## 1137          83.3            80.0                    0         0
## 1138          87.8             0.0                    0         0
## 1140          81.8            50.0                    0         0
## 1144          94.1             0.0                    0         0
## 1145          96.2            16.7                    1         0
## 1154          93.5            60.0                    0         0
## 1156          96.7            33.3                    0         0
## 1157          84.1            20.0                    0         0
## 1160          65.1            20.0                    0         0
## 1162          87.5            28.6                    0         0
## 1165          84.6            50.0                    0         0
## 1176          95.0            20.0                    0         0
## 1180          96.6            11.1                    0         0
## 1182         100.0             0.0                    0         0
## 1183          96.4            40.0                    0         0
## 1184         100.0            15.4                    0         0
## 1185         100.0           100.0                    0         0
## 1201         100.0             0.0                    0         0
## 1204          93.0            33.3                    0         0
## 1234          93.8            20.0                    0         0
## 1235          84.2             0.0                    0         0
## 1236          97.1             0.0                    0         0
## 1240          93.3            83.3                    0         0
## 1288          89.3            16.7                    0         0
## 1289          43.5             0.0                    0         0
## 1297          95.0             0.0                    0         0
## 1303          93.1           100.0                    0         0
## 1305          76.9           100.0                    0         0
## 1318          93.8             0.0                    0         0
## 1331          97.3             0.0                    0         0
## 1332          73.3             0.0                    0         0
## 1333          90.0            55.6                    0         0
## 1350          88.2            40.0                    0         0
## 1358          81.8             0.0                    0         0
## 1359          54.5             0.0                    0         0
## 1364          89.5            42.9                    1         0
## 1370          97.0             0.0                    0         0
## 1372          54.9             0.0                    0         0
## 1377          83.3             0.0                    0         0
## 1381          83.3             0.0                    0         0
## 1387          95.0           100.0                    0         0
## 1401          95.8             0.0                    0         0
## 1405          97.2            50.0                    0         0
## 1417          82.4            50.0                    0         0
## 1423          97.7             0.0                    0         0
## 1426          92.3             0.0                    0         0
## 1429          94.1             0.0                    0         0
## 1436          75.0             0.0                    0         0
## 1448          96.6             0.0                    0         0
## 1454          80.0             0.0                    0         0
## 1458          96.7             0.0                    0         0
## 1467          89.3             0.0                    0         0
## 1471          95.2            16.7                    1         0
## 1474          94.7             0.0                    0         0
## 1491          97.7            37.5                    0         0
## 1495          87.5             0.0                    0         0
## 1498          94.1             8.3                    0         0
## 1508          95.7             7.7                    0         0
## 1515          94.4             0.0                    0         0
## 1528          78.6           100.0                    0         0
## 1536          91.1             0.0                    0         0
## 1541          81.3            50.0                    0         0
## 1549          92.3             0.0                    0         0
## 1556          77.8            66.7                    0         0
## 1561          93.8             0.0                    1         0
## 1563          96.2             0.0                    0         0
## 1565          91.7            50.0                    0         0
## 1586          95.7             0.0                    0         0
## 1587          89.4            25.0                    0         0
## 1589          97.5             0.0                    1         0
## 1602          94.4            66.7                    0         0
## 1615          95.0             0.0                    0         0
## 1625          65.0             0.0                    0         0
## 1630          25.0           100.0                    0         0
## 1635          83.3             0.0                    0         0
## 1654          93.8            75.0                    0         0
## 1655          91.7             0.0                    0         0
## 1670          95.2            22.2                    1         0
## 1682          86.7            25.0                    0         0
## 1687          96.0             0.0                    0         0
## 1690          91.7            33.3                    0         0
## 1694          93.3             0.0                    0         0
## 1695          75.0             0.0                    0         0
## 1697          85.7            80.0                    0         0
## 1698          86.5             0.0                    0         0
## 1705         100.0            20.0                    0         0
## 1709          84.4             0.0                    0         0
## 1719          95.2             0.0                    1         0
## 1720          97.6             0.0                    0         0
## 1731          97.6             0.0                    0         0
## 1736          75.0             0.0                    0         0
## 1740         100.0             0.0                    0         0
## 1745         100.0             0.0                    0         0
## 1746          93.8           100.0                    0         0
## 1758          93.2            63.6                    0         0
## 1769          92.1            60.0                    1         0
## 1778          96.7            20.0                    0         0
```

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## 1793          100.0            25.0                    0         0
## 1795           92.9           100.0                    1         0
## 1797           95.7             0.0                    0         0
## 1800           94.1            45.5                    0         0
## 1807           61.5            66.7                    0         0
## 1815           95.7             0.0                    0         0
## 1818           87.2            12.5                    0         0
## 1826           89.7           100.0                    0         0
## 1827           87.8            66.7                    0         0
## 1835           87.0            16.7                    0         0
## 1837           90.5           100.0                    0         0
## 1840           87.2            20.0                    0         0
## 1845           84.2             0.0                    0         0
## 1851           81.0           100.0                    0         0
## 1859           70.4             0.0                    0         0
## 1863           93.3             0.0                    0         0
## 1878           94.7             0.0                    0         0
## 1903           91.3             0.0                    0         0
## 1909           90.9            33.3                    0         0
## 1914           84.6             0.0                    0         0
## 1928           76.9            25.0                    0         0
## 1947           93.8           100.0                    0         0
## 1953           97.4             0.0                    0         0
## 1955          100.0             0.0                    0         0
## 1965           69.8            88.9                    0         0
## 1978           90.0            20.0                    0         0
## 1980           92.7             0.0                    0         0
## 2007           95.7            50.0                    0         0
## 2009           96.2             0.0                    0         0
## 2031           87.9            60.0                    1         0
## 2040           87.1             0.0                    0         0
## 2044           97.1             0.0                    0         0
## 2049           95.5             0.0                    0         0
## 2052           71.4             0.0                    0         0
## 2057           70.4             0.0                    0         0
## 2059           62.5             0.0                    0         0
## 2063           81.3             0.0                    0         0
## 2067           85.2             0.0                    0         0
## 2097           96.7             0.0                    0         0
## 2102          100.0             0.0                    0         0
## 2106           71.4             0.0                    0         0
## 2111           95.0             0.0                    0         0
## 2112           96.2            40.0                    0         0
## 2113           98.2            12.5                    0         0
## 2118           87.0             0.0                    0         0
## 2120           94.7             0.0                    0         0
## 2122           96.3             0.0                    0         0
## 2125           96.6             0.0                    0         0
## 2130           96.0           100.0                    0         0
## 2133           96.3            33.3                    0         0
## 2139           95.5            66.7                    0         0
## 2144           90.0            12.5                    0         0
## 2156           90.9            33.3                    0         0
## 2160           81.8           100.0                    0         0
## 2182           95.7             0.0                    0         0
## 2183           78.9            33.3                    0         0
## 2186           91.2             0.0                    0         0
## 2210           95.0             0.0                    0         0
## 2221           96.6            75.0                    0         0
## 2233           92.9            50.0                    0         0
## 2235           80.6             0.0                    0         0
## 2240           92.9             0.0                    0         0
## 2247           85.7           100.0                    0         0
## 2249           86.4             0.0                    0         0
## 2251           93.2             0.0                    0         0
## 2261           83.3             0.0                    0         0
## 2262           81.6             0.0                    0         0
## 2275           94.1            25.0                    0         0
## 2284           97.4             0.0                    0         0
## 2313           96.2            33.3                    0         0
## 2314           95.2             0.0                    1         0
## 2332           92.3             0.0                    0         0
## 2333           88.9             0.0                    0         0
## 2334           97.7             0.0                    1         0
## 2344           76.0            66.7                    0         0
## 2346           78.3           100.0                    0         0
## 2349           96.6            50.0                    0         0
## 2352           85.7             0.0                    0         0
## 2359           79.4            16.7                    0         0
## 2364           95.0             0.0                    0         0
## 2371           96.6             0.0                    0         0
## 2380           91.7             0.0                    0         0
## 2388           96.3            16.7                    0         0
## 2398           97.6             0.0                    0         0
## 2400           98.0            40.0                    0         0
## 2401           87.8            25.0                    0         0
## 2408           95.2             0.0                    0         0
## 2410           90.9             0.0                    1         0
## 2415           91.1            20.0                    1         0
## 2424           98.0            85.7                    0         0
## 2427           73.7             0.0                    0         0
## 2428           86.5            33.3                    0         0
## 2445           91.5           100.0                    0         0
## 2454           91.7            50.0                    0         0
## 2458           93.8            75.0                    0         0
## 2459           76.5             0.0                    0         0
## 2461           64.3           100.0                    0         0
## 2475           75.7             0.0                    0         0
```

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## 2479          80.0            0.0                    0         0
## 2482          72.7           50.0                    0         0
## 2497          93.3           14.3                    0         0
## 2506          95.2           33.3                    0         0
## 2508          81.8           20.0                    0         0
## 2518          72.0            0.0                    0         0
## 2521          95.2           16.7                    0         0
## 2526          84.6           66.7                    0         0
## 2528          90.3          100.0                    0         0
## 2532          73.9           20.0                    0         0
## 2534          95.0            0.0                    0         0
## 2537          92.6            0.0                    0         0
## 2543          90.0            0.0                    0         0
## 2555          85.7           50.0                    0         0
## 2559          91.2            0.0                    0         0
## 2565          88.9            0.0                    0         0
## 2569          94.1           16.7                    0         0
## 2575          96.7           44.4                    0         0
## 2577          92.9            0.0                    0         0
## 2584          95.7           50.0                    0         0
## 2586          77.8            0.0                    0         0
## 2610          97.2            0.0                    0         0
## 2621          94.5           36.4                    0         0
## 2634          89.7           50.0                    0         0
## 2646         100.0            0.0                    0         0
## 2653          58.8            0.0                    0         0
## 2656          87.5           40.0                    0         0
## 2664          84.6            0.0                    0         0
## 2668          97.0           33.3                    0         0
## 2669          81.5            0.0                    0         0
## 2675          79.1            8.3                    0         0
## 2676          97.4           11.1                    0         0
## 2685          81.8            0.0                    0         0
## 2699          91.7            0.0                    0         0
## 2706          87.5            0.0                    0         0
## 2711          81.3           33.3                    0         0
## 2717          91.9            0.0                    0         0
## 2719          94.7            0.0                    1         0
## 2720          96.4           33.3                    0         0
## 2728         100.0           50.0                    0         0
## 2737          81.8            0.0                    0         0
## 2740          82.4            0.0                    0         0
## 2746          75.6           40.0                    0         0
## 2748          95.5           20.0                    0         0
## 2759          88.9           50.0                    0         0
## 2760          95.2           20.0                    1         0
## 2783          90.5            0.0                    1         0
## 2784          84.1            0.0                    0         0
## 2793          94.1           50.0                    0         0
## 2794          77.3          100.0                    0         0
## 2804          87.5          100.0                    0         0
## 2809          88.2            0.0                    0         0
## 2815         100.0           28.6                    0         0
## 2823          85.7            0.0                    0         0
## 2828          92.3           50.0                    0         0
## 2829          95.1            0.0                    0         0
## 2836          92.9           66.7                    0         0
## 2849          77.8            0.0                    0         0
## 2862          92.3           50.0                    1         0
## 2864          89.5            0.0                    0         0
## 2870          91.7            0.0                    1         0
## 2871         100.0            0.0                    0         0
## 2881          73.3            0.0                    0         0
## 2890          95.6            0.0                    0         0
## 2902          94.1           25.0                    0         0
## 2904          93.9           25.0                    0         0
## 2905          91.3          100.0                    0         0
## 2909         100.0           33.3                    0         0
## 2910          94.7            0.0                    0         0
## 2921          78.6           66.7                    0         0
## 2926          81.8           50.0                    0         0
## 2937          95.7            0.0                    0         0
## 2943          93.3          100.0                    0         0
## 2945          95.7            0.0                    0         0
## 2953          96.4           75.0                    0         0
## 2963          75.0            0.0                    0         0
## 2964          92.6          100.0                    0         0
## 2987          98.6            8.3                    0         0
## 2990          94.1           50.0                    1         0
## 2996          94.1            0.0                    1         0
## 2997          96.2           10.0                    0         0
## 2998          96.9           25.0                    0         0
## 3011         100.0           50.0                    0         0
## 3013          84.0            0.0                    0         0
## 3014          97.1          100.0                    0         0
## 3015          90.6            0.0                    0         0
## 3019          88.9           33.3                    0         0
## 3020          77.3           40.0                    0         0
## 3038          95.8           33.3                    0         0
## 3046          77.8            0.0                    0         0
## 3055          89.5           33.3                    0         0
## 3066          93.9           66.7                    0         0
## 3068          75.0           33.3                    0         0
## 3069          72.7            0.0                    0         0
## 3077          94.4            0.0                    1         0
## 3091          88.9            0.0                    0         0
## 3109          97.4            0.0                    0         0
## 3110          92.9           50.0                    1         0
```

```
## 3111          97.1            28.6                    0         0
## 3114          98.1            50.0                    1         0
## 3115          84.2             0.0                    0         0
## 3127          78.1            25.0                    0         0
## 3128          79.5             0.0                    0         0
## 3129          96.4            66.7                    0         0
## 3139          96.9            50.0                    0         0
## 3144          96.0             0.0                    0         0
## 3148          90.6             0.0                    0         0
## 3157          89.7            50.0                    0         0
## 3167          78.6            50.0                    0         0
## 3168          90.9            25.0                    0         0
## 3191          94.1            25.0                    0         0
## 3192          75.0             0.0                    0         0
## 3195          95.8            66.7                    0         0
## 3197          95.2             0.0                    0         0
## 3207          87.5           100.0                    0         0
## 3220          90.0            33.3                    0         0
## 3235          96.2             0.0                    0         0
## 3240          66.7             0.0                    0         0
## 3242          88.9            50.0                    0         0
## 3245          96.6             0.0                    0         0
## 3248          95.2             0.0                    1         0
## 3249         100.0             0.0                    0         0
## 3250          95.7             0.0                    1         0
## 3253          61.1             0.0                    0         0
## 3255          86.5             0.0                    0         0
## 3263         100.0             0.0                    0         0
## 3264          95.8             0.0                    0         0
## 3275          93.8             0.0                    0         0
## 3284          95.5            18.2                    1         0
## 3301          94.4            12.5                    0         0
## 3324          93.3             0.0                    0         0
## 3327          96.9             0.0                    0         0
## 3328          90.0            50.0                    0         0
## 3338         100.0             0.0                    1         0
## 3340          81.8             0.0                    0         0
## 3348          84.4           100.0                    0         0
## 3373          65.0            20.0                    0         0
## 3375          96.6            20.0                    0         0
## 3377          96.6            33.3                    0         0
## 3382          97.4            33.3                    0         0
## 3385          86.3             0.0                    0         0
## 3390          92.9            33.3                    0         0
## 3391          97.0           100.0                    0         0
## 3405          92.9            25.0                    0         0
## 3414          84.8            33.3                    0         0
## 3415          92.6            33.3                    1         0
## 3418          88.9             0.0                    0         0
## 3423          92.3           100.0                    0         0
## 3437          86.4            57.1                    0         0
## 3452          96.3            33.3                    0         0
## 3461          75.0           100.0                    0         0
## 3468          77.6            14.3                    0         0
## 3470          96.8             0.0                    0         0
## 3473          92.0            60.0                    0         0
## 3476          97.6             0.0                    0         0
## 3478          96.7             0.0                    1         0
## 3495          96.6           100.0                    0         0
## 3496          44.4             0.0                    0         0
## 3499          33.3             0.0                    0         0
## 3512          95.2             0.0                    0         0
## 3514          81.8            25.0                    0         0
## 3524          85.0             0.0                    0         0
## 3526          90.0             0.0                    1         0
## 3528          91.8             0.0                    0         0
## 3529          87.5            40.0                    0         0
## 3533          97.3             0.0                    0         0
## 3549          72.7            66.7                    0         0
## 3551          69.2            66.7                    0         0
## 3552          82.4            50.0                    0         0
## 3563          97.1             0.0                    0         0
## 3570          84.0            20.0                    0         0
## 3573          69.6             0.0                    0         0
## 3583          90.3            50.0                    0         0
## 3587          86.2             0.0                    0         0
## 3597          80.0            25.0                    0         0
## 3601          71.4           100.0                    0         0
## 3609          71.0           100.0                    0         0
## 3618          93.8             0.0                    0         0
## 3620          75.0             0.0                    0         0
## 3626         100.0            11.1                    0         0
## 3627          94.7             0.0                    1         0
## 3638         100.0            14.3                    0         0
## 3643          69.6            75.0                    0         0
## 3647          97.2            25.0                    0         0
## 3652          62.5             0.0                    0         0
## 3654          90.3             0.0                    0         0
## 3664          97.1             0.0                    1         0
## 3669          93.3             0.0                    1         0
## 3676          93.3           100.0                    0         0
## 3677          66.7             0.0                    0         0
## 3689          88.9             0.0                    1         0
## 3694          89.4             0.0                    0         0
## 3695          96.7             0.0                    0         0
## 3696          45.0            25.0                    0         0
## 3724          87.5             0.0                    0         0
## 3725          93.0            25.0                    0         0
```

```
## 3753          75.0             0.0                    0         0
## 3772         100.0            50.0                    0         0
## 3792          87.8             0.0                    0         0
## 3793          87.5             0.0                    0         0
## 3795          96.6            22.2                    0         0
## 3797          83.3           100.0                    0         0
## 3798          87.0            50.0                    0         0
## 3806          57.9           100.0                    0         0
## 3812          95.8            33.3                    0         0
## 3818          97.5            16.7                    1         0
## 3820          94.7             0.0                    0         0
## 3823          92.3             0.0                    0         0
## 3829          76.9            50.0                    0         0
## 3838          92.7            16.7                    0         0
## 3842          77.3             0.0                    0         0
## 3848          91.3            66.7                    0         0
## 3863         100.0            33.3                    1         0
## 3866          85.7             0.0                    0         0
## 3867         100.0             0.0                    0         0
## 3871          96.6             0.0                    1         0
## 3880          93.8           100.0                    0         0
## 3883          96.0            33.3                    0         0
## 3891          97.7             0.0                    0         0
## 3895          76.0             0.0                    0         0
## 3896          94.1            66.7                    0         0
## 3898          96.9             0.0                    0         0
## 3903          94.4           100.0                    0         0
## 3916          94.7             0.0                    0         0
## 3928          80.0             0.0                    0         0
## 3930          94.4           100.0                    0         0
## 3940          96.0            25.0                    0         0
## 3957          94.7            20.0                    0         0
## 3966          92.3            33.3                    0         0
## 3992          95.7             0.0                    1         0
## 3993          85.7           100.0                    0         0
## 4000          80.0           100.0                    0         0
## 4004          94.4             0.0                    0         0
## 4012         100.0             0.0                    0         0
## 4014          93.9             0.0                    0         0
## 4025          92.6           100.0                    0         0
## 4029          83.3           100.0                    0         0
## 4032          88.9            50.0                    0         0
## 4033          92.9             0.0                    0         0
## 4059          77.3            50.0                    0         0
## 4066          95.0             0.0                    0         0
## 4067          96.4            33.3                    0         0
## 4077          90.9             0.0                    0         0
## 4087          96.2             0.0                    0         0
## 4088          83.3           100.0                    0         0
## 4091          91.7             7.1                    0         0
## 4102          74.1            22.2                    0         0
## 4106          90.9            40.0                    0         0
## 4112          66.7            20.0                    0         0
## 4127          77.8             0.0                    0         0
## 4129          95.8            20.0                    0         0
## 4130          85.7           100.0                    0         0
## 4134          81.8           100.0                    0         0
## 4145          96.0             0.0                    0         0
## 4156          75.0             0.0                    0         0
## 4158          83.3             0.0                    0         0
## 4166          95.8            33.3                    0         0
## 4167          91.7             0.0                    0         0
## 4168          97.5             0.0                    0         0
## 4171          62.5            25.0                    0         0
## 4176          94.7            50.0                    0         0
## 4182          96.0             0.0                    1         0
## 4183          92.6            50.0                    0         0
## 4184          93.8           100.0                    0         0
## 4187          91.3            75.0                    0         0
## 4190          93.3           100.0                    0         0
## 4192          90.9            50.0                    0         0
## 4195          93.3           100.0                    0         0
## 4218          86.4             0.0                    0         0
## 4223          90.9            50.0                    0         0
## 4226          71.0             0.0                    0         0
## 4227          98.1            42.9                    0         0
## 4242          85.4            66.7                    0         0
## 4244          92.3             0.0                    0         0
## 4246          82.3            33.3                    0         0
## 4250          95.2             0.0                    1         0
## 4264          94.1             0.0                    0         0
## 4276          83.3             0.0                    0         0
## 4281          85.3             0.0                    1         0
## 4288         100.0            66.7                    0         0
## 4296          92.3            50.0                    1         0
## 4299          68.8             0.0                    0         0
## 4302          95.5             0.0                    0         0
## 4312          96.2             0.0                    0         0
## 4315          97.1           100.0                    0         0
## 4319          90.9             0.0                    0         0
## 4327          88.5             0.0                    0         0
## 4329         100.0             0.0                    0         0
## 4332          96.4             0.0                    0         0
## 4339          57.9           100.0                    0         0
## 4340          92.9            50.0                    0         0
## 4343          76.2             0.0                    0         0
## 4345          86.2            11.1                    0         0
## 4359          95.3            14.3                    0         0
```

```
## 4361          78.8            0.0                    0         0
## 4366          91.7            0.0                    0         0
## 4373          52.6            0.0                    0         0
## 4374          96.4           50.0                    0         0
## 4384          94.9           10.0                    0         0
## 4393          91.7            0.0                    0         0
## 4396          95.3           50.0                    0         0
## 4409          95.2          100.0                    0         0
## 4417          70.6           50.0                    0         0
## 4422          97.1           50.0                    0         0
## 4434          96.3           40.0                    0         0
## 4438          96.8            0.0                    0         0
## 4439          95.6            0.0                    0         0
## 4444         100.0           83.3                    0         0
## 4446          78.6           33.3                    0         0
## 4454          92.3          100.0                    0         0
## 4457          90.6           20.0                    0         0
## 4460          96.4           37.5                    0         0
## 4462          60.0            0.0                    0         0
## 4467          77.6           50.0                    0         0
## 4475          70.6            0.0                    0         0
## 4480          67.7            0.0                    0         0
## 4493          76.9           14.3                    0         0
## 4496          96.0            0.0                    0         0
## 4508         100.0            0.0                    0         0
## 4513          93.3            0.0                    0         0
## 4515          85.7          100.0                    0         0
## 4521          93.3           66.7                    0         0
## 4541          94.7            0.0                    0         0
## 4542          97.1           33.3                    0         0
## 4549          96.4            0.0                    0         0
## 4556          91.7            0.0                    0         0
## 4559          97.8            0.0                    0         0
## 4560          77.8            0.0                    0         0
## 4570          72.7            0.0                    0         0
## 4572          92.6          100.0                    0         0
## 4574          91.7           50.0                    0         0
## 4578          95.7            0.0                    0         0
## 4582          96.2            0.0                    0         0
## 4596          91.4          100.0                    0         0
## 4600          96.6           42.9                    0         0
## 4612          97.1            0.0                    0         0
## 4619          93.5            0.0                    0         0
## 4628          95.2          100.0                    0         0
## 4637          98.1          100.0                    1         0
## 4652          75.0           75.0                    0         0
## 4655          89.5           66.7                    0         0
## 4657          88.2           25.0                    0         0
## 4666          90.5            8.3                    0         0
## 4686          84.2            0.0                    0         0
## 4689          96.6           75.0                    0         0
## 4693          83.3            0.0                    0         0
## 4694          94.4          100.0                    0         0
## 4702          97.1            0.0                    0         0
## 4705          90.0           14.3                    0         0
## 4707          96.4           40.0                    0         0
## 4713          91.7           25.0                    0         0
## 4716          67.9          100.0                    0         0
## 4727          78.9           20.0                    0         0
## 4733          88.2          100.0                    0         0
## 4740          96.0           66.7                    0         0
## 4752          91.2           33.3                    0         0
## 4757          94.3            0.0                    0         0
## 4759          94.4           33.3                    1         0
## 4761          58.1          100.0                    0         0
## 4773          94.1            0.0                    1         0
## 4782          86.7           12.5                    0         0
## 4787          85.7            0.0                    0         0
## 4789          92.7           57.1                    0         0
## 4803          70.6            0.0                    0         0
## 4826          97.9           11.1                    0         0
## 4827          71.4            0.0                    0         0
## 4828          96.7            0.0                    1         0
## 4855          94.3            0.0                    0         0
## 4857          87.9            0.0                    0         0
## 4866          96.4           28.6                    0         0
## 4869          92.7            0.0                    0         0
## 4877          85.7           28.6                    0         0
## 4881          95.2            0.0                    1         0
## 4883          83.9           25.0                    0         0
## 4919          97.6           20.0                    0         0
## 4924          91.3           50.0                    0         0
## 4932          93.9          100.0                    0         0
## 4936          95.7           57.1                    0         0
## 4939          96.4          100.0                    0         0
## 4942          89.5          100.0                    0         0
## 4964          92.3           50.0                    0         0
## 4969          94.7            0.0                    0         0
## 4994          97.6           83.3                    0         0
## 5000          94.4            0.0                    1         0
## 5002          90.0           80.0                    0         0
## 5004          95.0           33.3                    0         0
## 5005          93.1            0.0                    0         0
## 5012          93.1           16.7                    0         0
## 5013          97.6            0.0                    0         0
## 5019         100.0           25.0                    0         0
## 5028          85.7            0.0                    0         0
## 5033          92.0           50.0                    0         0
```

```
## 5056          87.0            0.0                    0         0
## 5062          92.7            0.0                    0         0
## 5067          97.1            9.1                    0         0
## 5085         100.0           16.7                    0         0
## 5101          96.3           50.0                    0         0
## 5111          85.7            0.0                    0         0
## 5113          77.8            0.0                    0         0
## 5119          86.0            0.0                    0         0
## 5121          88.9          100.0                    0         0
## 5127          97.0           77.8                    0         0
## 5129          81.5            0.0                    0         0
## 5144          84.8            0.0                    0         0
## 5146          90.5           20.0                    0         0
## 5149          92.9           36.4                    0         0
## 5153          92.3            0.0                    0         0
## 5172          93.3            0.0                    0         0
## 5175          87.2            0.0                    0         0
## 5178          91.3            0.0                    0         0
## 5189          81.4            0.0                    0         0
## 5198          96.3          100.0                    0         0
## 5199          95.0            0.0                    0         0
## 5208          76.9           50.0                    0         0
## 5222          95.8            0.0                    0         0
## 5226          93.3            0.0                    0         0
## 5227          90.0            0.0                    0         0
## 5231          90.6           25.0                    0         0
## 5253          94.7            0.0                    0         0
## 5263          70.0           50.0                    0         0
## 5272          87.0           33.3                    0         0
## 5280         100.0            0.0                    0         0
## 5288         100.0            0.0                    0         0
## 5289          72.7           66.7                    0         0
## 5293          96.3           16.7                    0         0
## 5296          70.6           20.0                    0         0
## 5318          94.1           14.3                    1         0
## 5323          97.4            7.7                    0         0
## 5338         100.0           20.0                    0         0
## 5366          90.9           33.3                    0         0
## 5374          66.7          100.0                    0         0
## 5378          91.7            0.0                    0         0
## 5386          85.7          100.0                    0         0
## 5391          97.6          100.0                    0         0
## 5398          64.3           16.7                    0         0
## 5414          80.0           50.0                    0         0
## 5423          93.8           10.0                    0         0
## 5426          95.7          100.0                    0         0
## 5430          98.2            0.0                    0         0
## 5434          77.8           75.0                    0         0
## 5439          95.5            0.0                    0         0
## 5457          95.2          100.0                    0         0
## 5461          92.3            0.0                    0         0
## 5463          73.9            0.0                    0         0
## 5469          82.4            0.0                    0         0
## 5471          95.0            0.0                    1         0
## 5487          65.4            0.0                    0         0
## 5489          94.1           66.7                    0         0
## 5493          60.0           25.0                    0         0
## 5495          97.4            0.0                    0         0
## 5504          93.1            8.3                    0         0
## 5512          40.0            0.0                    0         0
## 5520          91.8           36.4                    0         0
## 5526          95.8            8.3                    0         0
## 5528          83.3            0.0                    0         0
## 5530          90.9           16.7                    0         0
## 5542          97.0            0.0                    0         0
## 5546          95.5            0.0                    1         0
## 5560         100.0           12.5                    0         0
## 5572          92.3            0.0                    1         0
## 5606          92.6           66.7                    1         0
## 5617          84.6            0.0                    0         0
## 5618          75.0            0.0                    0         0
## 5631          50.0            0.0                    0         0
## 5644          69.2           37.5                    0         0
## 5645          77.8           25.0                    0         0
## 5650          92.3           50.0                    0         0
## 5652          97.4            0.0                    1         0
## 5653          84.2            0.0                    0         0
## 5655          88.2           16.7                    0         0
## 5657          94.4            0.0                    0         0
## 5662          88.2           50.0                    0         0
## 5678          85.7           50.0                    0         0
## 5682         100.0           25.0                    0         0
## 5686          96.2           62.5                    1         0
## 5691          75.0            0.0                    0         0
## 5701          95.0            0.0                    0         0
## 5702          96.2            0.0                    0         0
## 5713          89.7           42.9                    0         0
## 5714          96.3           20.0                    0         0
## 5719          96.9            0.0                    0         0
## 5726          88.4          100.0                    0         0
## 5730          80.0            0.0                    1         0
## 5735          93.9           25.0                    0         0
## 5738          75.0          100.0                    0         0
## 5740         100.0          100.0                    0         0
## 5742          73.7          100.0                    0         0
## 5746          95.2           33.3                    0         0
## 5748          93.5           66.7                    0         0
## 5755          75.0           50.0                    0         0
```

```
## 5774          84.0             0.0                   0         0
## 5780          47.8            25.0                   0         0
## 5790          84.6            66.7                   0         0
## 5805          95.7            85.7                   0         0
## 5813          92.9             0.0                   0         0
## 5829          70.6            50.0                   0         0
## 5837          90.6            11.1                   0         0
## 5839          93.5            16.7                   0         0
## 5855          92.9            50.0                   0         0
## 5864          90.9            20.0                   0         0
## 5871          94.1            20.0                   1         0
## 5879          77.8           100.0                   0         0
## 5894          78.9             0.0                   0         0
## 5900          91.3            20.0                   0         0
## 5905          97.4            50.0                   0         0
## 5909          95.7             0.0                   0         0
## 5911          95.8             0.0                   0         0
## 5920          66.7             0.0                   0         0
## 5926          92.9            33.3                   0         0
## 5934          92.6            37.5                   0         0
## 5937          92.9           100.0                   0         0
## 5939          96.4            75.0                   0         0
## 5941          93.8             0.0                   0         0
## 5945          94.7             0.0                   0         0
##      tot_hi_cred_lim total_bal_ex_mort total_bc_limit
## 1              53795             29137          15100
## 13             60016             35466          23900
## 26             21814              4353          17100
## 29             91400             31074          57000
## 56             62310             57369           1300
## 58             52500              6902          16500
## 62             54240             16864          10200
## 79            267200             20546          16300
## 81            218123             83370          19500
## 85            115952             59597          18200
## 89            174523            130003          39200
## 94            120534              8605           4600
## 95            322591             67414          16100
## 100           511364             77167          12000
## 123            99240             31843          61400
## 129           434033            180191          37400
## 131           189278             43469         128100
## 146           587072            166545          83900
## 157            20508             14180           1400
## 177           641784             65153           7500
## 188           757339             98731          48800
## 189           108099             78640          23400
## 209           253396            108363          23200
## 211           245661             50038          27000
## 214           114500            102608          21100
## 223           173905             56269          13800
## 228            59643             20106          37600
## 237           395958             55351         118500
## 256            57169             18535          28000
## 266           107044             99721           5300
## 280           136309             47134          28600
## 282            58212              4830          18800
## 288            62985             40747           8200
## 289           450058             31470          59100
## 291           259228             52854          53700
## 293           494534            109443         174400
## 299           537272             77081           6600
## 300            40542             25945          15600
## 303            95800             29471          69300
## 320            25168             20388            600
## 333           548892            234990          34200
## 339           378903            133624          18100
## 342           229328             34248           9100
## 363           222601             49971          23400
## 372           231086             34259          23600
## 380          1317356             94215          50500
## 398            48123             38839          15100
## 401            76865             47982          19000
## 404           104881             66143           8600
## 437           427700             70694          42700
## 447           199775             82715           3800
## 448           597056             61820          29700
## 449           183971             43897          18900
## 457           181945             50338          10600
## 463           241291             47721          12600
## 472            84300             51399          74200
## 478            70612             36590          27500
## 489           390510            138018          14200
## 492            30700             20025          20300
## 498           821582             81837          27200
## 510           102051             72001          15800
## 511           420000              3525          18600
## 521            27966             16053          19700
## 522            33283             20966           7000
## 534           105920             23907          24500
## 535           112290             50175          48500
## 538           794800             52440          55600
## 539           476148            119121          51200
## 554           133478             60861          39300
## 557           203710             43381         140900
## 573           288389             87668            600
## 574           441220             75120          43000
## 586            88516             46156          21900
```

```
## 595          99603          73376         16000
## 599         172801          10621         19300
## 603         539171          36753         21300
## 604          67800          37753          7700
## 633         435886         178830         14900
## 643         480139          24635         12100
## 657          44782          16345         18300
## 661         188067          26653         18900
## 666          62279          35276         18500
## 686          19417           4406          1000
## 693         287999         130150         16500
## 701         229304         105396          6500
## 714          38185          27498          2800
## 723         149212          70042         22000
## 732          36325          20437          9200
## 733         597514         139855          5400
## 735         709230         224593         36900
## 736          23213          16698          3700
## 741         268975          31760         16200
## 742          90326          69274          8800
## 751         144539          19825         59400
## 756         185016          42100         21500
## 759         169715          20765         22400
## 762         428144         175414         32000
## 763         223553          54572          9900
## 765         220941          17067         14800
## 768         167303          18677         31600
## 773          48970          26534          5300
## 774         342602         325084         21500
## 776         655883         177544         29100
## 783         382681          66949         45900
## 785           9840           3880          1000
## 842         151194          17473         14300
## 864         528804         100653         40000
## 865          92341          52498         29500
## 868          96716          82302          4800
## 876        1406942         282058         41000
## 888         279477          12313         10500
## 927          23611          18603          3000
## 929         105794          71357         28000
## 941          63816          54167         11000
## 944         152176         100130         35700
## 947         470643          96139        164000
## 948         372646          23351         40000
## 959         366652          47653          9500
## 970         136979         109172         41800
## 973         100600          91383         20500
## 979         401356         108698         20000
## 980         166042          22315         21500
## 981         531775          73664         21500
## 987         203020          14107         17500
## 991         224962          15521          8500
## 1001        185040         137403         38800
## 1004        232873          44576         16300
## 1010        421892          35908         10000
## 1016         23237           9117          5000
## 1018        369985          16845         54300
## 1019        639058         114970         20800
## 1042        392192          38308         28600
## 1079         96038          92059          2500
## 1087         43651          22885         14000
## 1093        203078           4085         69900
## 1103         43389          21223          7000
## 1127        281118          97362         34000
## 1132        556484          32668         29800
## 1137        351299         173311         20300
## 1138         77177          53688          7700
## 1140         38000          21763         25000
## 1144         70728          51958          8300
## 1145         57341          25263         25500
## 1154        141225          53558         20000
## 1156        116375          95845         14200
## 1157        330348          80020         15100
## 1160        497381          74721         19700
## 1162        342900          36343         35000
## 1165         42700          17267         25300
## 1176        240922         120570         73400
## 1180        237123          25639         38300
## 1182         42462          28954         16300
## 1183        323076          31918         25100
## 1184         68159          34075         27700
## 1185         73679          63963         18500
## 1201         61821          53279          1800
## 1204        438985          62822         35800
## 1234         69980          21744         23400
## 1235         62196           9135         40200
## 1236        109712          53875         47600
## 1240        156325         102667         18200
## 1288        360712         173975         30300
## 1289        209154         164753         30600
## 1297        108900          15873         20000
## 1303         32700          19472         11900
## 1305        135329          32608          2100
## 1318         73293          38150         24800
## 1331        616546         278489         40500
## 1332        359335         132615          3500
## 1333        168193         100915        117100
## 1350        138290          69579         31800
```

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## 1358          312149            97123          20100
## 1359           20775            16910           4200
## 1364           64645            35787          19500
## 1370          341470           101746          51900
## 1372          438577           146165           9700
## 1377          557217            40840          24000
## 1381           56905            23674          18900
## 1387          686287            79001          37500
## 1401           99663            51564          29700
## 1405          181283            32067          15600
## 1417          109163            79829          26300
## 1423          170167            65100          88500
## 1426          240790            17205           3100
## 1429          473636            49089          41900
## 1436          176886            37635           8100
## 1448           69921            16812          20300
## 1454            5856             1669           3200
## 1458          179193            64539          38500
## 1467          344800            13707          12200
## 1471          310690            18216          40100
## 1474          251922            12673          16300
## 1491          442094            66796          56700
## 1495           76800            25696          53800
## 1498           93844            39996          34700
## 1508          176404            47901          49400
## 1515           28439            17592           6900
## 1528           58659            32768          22500
## 1536          488217           149182          11100
## 1541          440613            62468          21500
## 1549           65145            18836          10500
## 1556          382299            85559          21900
## 1561           79029            37661          24900
## 1563          351382           122709          11000
## 1565          488483            84611          25200
## 1586          148162            92187          15000
## 1587          218065           172739          20800
## 1589          151246            33732          11000
## 1602          116325            47104           8200
## 1615           48965            15512          11700
## 1625           40027            34994           8600
## 1630           80779            47784          16500
## 1635           68243            40280          22900
## 1654           32600            26075          10600
## 1655          259984            76931           4000
## 1670          502666            48550          43100
## 1682           83492            51254          17800
## 1687          219319            20783          17900
## 1690           55305            35088          23600
## 1694          612250            24875          27800
## 1695           81044            50414           6300
## 1697           50937            17158          16600
## 1698          194070            24052           2500
## 1705          169939            48667          65800
## 1709          154614            88297          32900
## 1719           29800            16562          13000
## 1720          805437            35590         127500
## 1731          403950            31995          86700
## 1736          603760            83669           4800
## 1740           42262            17943          15900
## 1745          283712            22169          38700
## 1746          275342            28774          21300
## 1758          307010            51299          40000
## 1769          126385            23881          13800
## 1778          197125           181173          20500
## 1793          103394            10696          15500
## 1795          408092            49041           4700
## 1797           82100            30590          48900
## 1800           90747            39884          72200
## 1807          455049            38954           4100
## 1815          151038           135903           1500
## 1818          187199            14953          39900
## 1826          300546            11477           2100
## 1827          215913            74052           3000
## 1835          135837            84612          43200
## 1837          460078            30092           5500
## 1840          671028           213403          24100
## 1845          682362            60285          12700
## 1851          261279            57230           5000
## 1859           42700            22838          15400
## 1863          360500            17405          50500
## 1878          393054           132501          10100
## 1903          446684            56908          30700
## 1909          442070           103615          13600
## 1914          399879            71993           1800
## 1928          206839           208762          32800
## 1947          161310            37624           4500
## 1953          514043            16681           6000
## 1955          199183            23158          30500
## 1965          321571            52556          18500
## 1978           76648            25879          31300
## 1980           51849            38811           5600
## 2007           95774            53005          20300
## 2009          160357           110577          35600
## 2031          169571            16254           9200
## 2040          167997           172303           6800
## 2044          230957            87431          18800
## 2049          350855           107145          42600
## 2052          174441            54874           9600
```

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## 2057          193456            26696           9000
## 2059          243806            40932           5000
## 2063           44575            16992          30300
## 2067          356500            41274          23900
## 2097          269681            60784          15300
## 2102           16200            11086           1900
## 2106           33407            19757           2500
## 2111           44798            30920          14000
## 2112           62889            20818          21800
## 2113          643318            71500          91300
## 2118           51388            12795          13500
## 2120          462760            82487          48400
## 2122          105931            59433          14200
## 2125           58323            28198          18800
## 2130           80113            56018           5800
## 2133          207072            50287          49000
## 2139          177498            58010           5400
## 2144          188163            65621          38100
## 2156          212120            11600           7300
## 2160          148040             6606           4200
## 2182          175120            41747           4800
## 2183           97352            77106          11800
## 2186           73547            41903           9900
## 2210          154895           130512          53800
## 2221          157757           149453          18600
## 2233           10723             3718           1500
## 2235          179927           179409           8500
## 2240           35945            12840          26200
## 2247           64703            28648          11500
## 2249          136120           102622          30600
## 2251          101655            36021          24300
## 2261           58380            12421          16800
## 2262          533579            11461           4100
## 2275          468205            17935          40300
## 2284          223795            31348          44300
## 2313          276546            18794           7700
## 2314           47566            21357           4100
## 2332          118374            87677          30600
## 2333           36917            24758           5000
## 2334          140008            68648          34000
## 2344          110034            14216           6800
## 2346          199202            70661          12000
## 2349           33794            18076          10500
## 2352          461053            40039          15500
## 2359          340638            90838          13100
## 2364           22651             9036          10900
## 2371          108252            64276          24600
## 2380          349146           117849          16900
## 2388           90793            61506          16100
## 2398           81130            22667          49100
## 2400          192935            37414          12100
## 2401          361039            82617          34900
## 2408          458463             4879          55900
## 2410           80818            48289          21800
## 2415           44043            23223           8600
## 2424          403860           158842          15600
## 2427           72373            52964          25000
## 2428          291250           123641          10900
## 2445          205338           204087           2700
## 2454           87993             3904           2500
## 2458           51600            26700          21700
## 2459           70314            27057           4000
## 2461          234367            21408           7800
## 2475          203559            13244           1800
## 2479          162703            10116           2100
## 2482           19821            11705           3800
## 2497          222240            50700          40700
## 2506          115632            26523          29100
## 2508           49011            11634          24500
## 2518           26579             9040            300
## 2521          230364            65159          29400
## 2526          206645            36924           7900
## 2528          312509            69127          24200
## 2532          239050            38276          24100
## 2534          519698            88602          54800
## 2537           55850            48589           2000
## 2543          187313            22926            800
## 2555          168786            46336           3000
## 2559          159597            11055          16200
## 2565           22789             3874          15000
## 2569          243200            37311          40500
## 2575          292431            69544         130100
## 2577           93109            67054           5700
## 2584          124801            86299          22800
## 2586           86193            53543          16700
## 2610           81209            45555          34600
## 2621          501180            80530          36800
## 2634          138461            53711           4300
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## 2653          346897            40756          20000
## 2656          153600            39916          38400
## 2664          792005            64794          54000
## 2668           84943            78131          10100
## 2669          117234            51233          11500
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## 2685          329775            58299          14700
## 2699          364353           157943          17500
```

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## 2706          47077            32232           4500
## 2711          61377            25351           9400
## 2717         401904            19831          30800
## 2719         204467            59646          28800
## 2720         287170            46092          11000
## 2728         876868            94689          44100
## 2737          51758            14882          28200
## 2740          51300            25431          22600
## 2746          83407            53196          13600
## 2748         201783           128653          63000
## 2759          23068            16894           6500
## 2760         124366            94907          40100
## 2783          89129            37429          35900
## 2784         443012           408249          17500
## 2793         218911            28730           5600
## 2794         457407            68402          11500
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## 2809          21776             6347          11800
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## 2823          39947            30255          12300
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## 2829         499972            67881         123800
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## 2862         243729            55294           7000
## 2864          48799            19743          23400
## 2870         393650            71334          36600
## 2871          58628            17961          31800
## 2881          73154            24017          11300
## 2890         420042            37973          90800
## 2902         190806            61632          28200
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## 2905         111566            90949          80800
## 2909         150563            35971          22100
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## 2921         545615            55634          23500
## 2926          47625            26622          14000
## 2937         113832            54022          21400
## 2943         123511           141179           3000
## 2945          34835            23026           4600
## 2953         364730            60267          28200
## 2963         340604             6882           3500
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## 2987         486077           103401         146600
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## 3055         402872           203886          22000
## 3066         303136           101251          66000
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## 3077          82555            48147          25500
## 3091          44447            26494           5900
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## 3115          43679            23401          10300
## 3127         530790            61375          36300
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## 3144          98084             6538           2800
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## 3157         176551            25027           6500
## 3167          52115            49008           5500
## 3168          81618            59764           6500
## 3191         471430           107028          56300
## 3192         397710            31222          28000
## 3195         332093            67332          20100
## 3197         215151             8849          56800
## 3207         152687            74927          19900
## 3220         698976            24302          20700
## 3235          30551            18717           3000
## 3240         282287            85825          29000
## 3242         354792            37571          11300
## 3245         448694           169354          38300
## 3248         180587            30359           5000
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## 3255         187323           105121          51500
## 3263         211350            31134          18300
## 3264         147673           165656           9000
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## 3338         190849            15863           4800
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## 3348         236496            49398          13600
## 3373         213251            35340          15700
## 3375          92746            64437          22700
## 3377          70636            52070          39000
## 3382         543175            11332          15800
## 3385         546064           139027          26900
## 3390          46257            25469          11100
## 3391         113099            97063          18400
## 3405          73321            40880           9500
## 3414         144422            26774           4000
## 3415         357123           124460          26800
## 3418          18300             2654          12800
## 3423         359176            36407          15500
## 3437         201038            33079          33900
## 3452         752016           142705          13200
## 3461         145917             9176           3100
## 3468         426054            82049          66600
## 3470         403390            66603          96500
## 3473          72485            51347          46600
## 3476         304784            82323          35500
## 3478         182325            15663          16900
## 3495         184599            67292          35900
## 3496         116289            15740            500
## 3499          17589            16009           1000
## 3512         104978            31300          57800
## 3514          51240            25067          25700
## 3524         211623            24154          14100
## 3526          25288            12601           8300
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## 3552         474087            27477           5500
## 3563         163528           169717          33500
## 3570         414156            85233          43000
## 3573          76210            33078          25500
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## 3587         117849            73946          19000
## 3597          32826            16123           5500
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## 3609         196564            26537           6900
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## 3626         104104            54422          38400
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## 3643         304643            63871           6600
## 3647         196773            51543          17100
## 3652           5591             3740           2100
## 3654         201614           142942          25700
## 3664        1374427            95834          69800
## 3669          47336            20492          13500
## 3676          69731            31850           4500
## 3677          13300             6102           8600
## 3689          24500            11576          15700
## 3694         136194            87476          10600
## 3695         393158            97001          58300
## 3696         208153            35301           7900
## 3724          68406            35888          30500
## 3725          49235            29089           5900
## 3753         218707            59910          11800
## 3772         303108            47493           7800
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## 3793          42440            23465          12300
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## 3818          87995            30000          34500
## 3820          66706            42991          13000
## 3823          55655            19669          17000
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## 3838         158481            46789          28000
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## 3863         154241           132575          34500
## 3866          81032            15669           4000
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## 3883         754852           154858          22000
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## 3896         310049            59355          15300
## 3898         368985            22740          27900
## 3903         189128            72010          12300
## 3916         139747            14229           3800
## 3928         312425            11048           9600
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## 3940          71387            43146          23600
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## 4032          344516             55473          13500
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## 4059          535014             71853          13200
## 4066           97303             51069          29600
## 4067          511019             88554          34500
## 4077           55899             39644          26400
## 4087          138732             28593           8200
## 4088          223221              8593           2400
## 4091          396509             41493          70600
## 4102          379518             80537          47100
## 4106           43200             26757          16000
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## 4130           37408             23396           1000
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## 4145           50588             31465           3200
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## 4166           75319             56271          16600
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## 4168          731305             31082          13100
## 4171           63200             34950          26000
## 4176          407043            107214          19900
## 4182           18300              8399           9500
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## 4223           34881             28638           3600
## 4226           61512             33266           9200
## 4227          818127             99510          51000
## 4242          395740            202366           6800
## 4244           51782             33521            800
## 4246          486883            133004           5600
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## 4264           56810             36058          20400
## 4276           78484             63974           9700
## 4281          353014             78719           3700
## 4288          100822             27362           3700
## 4296           32546             26139           4000
## 4299          157106            108519          34900
## 4302           51898             26658          16500
## 4312          124960             29163          19500
## 4315          124634            134821          23500
## 4319          367600             30131          23300
## 4327           42428             23197          19200
## 4329           59503             18077          35500
## 4332          240800             44091          44400
## 4339           67993             50213           6000
## 4340           27200             14310          11500
## 4343          149518             63123           3800
## 4345           97777             80859          35000
## 4359           64500             18687          33100
## 4361           13900              8740           5500
## 4366          254693             89747          19500
## 4373           62230             53904           6500
## 4374           83900             50395          15000
## 4384          373887            116805          73200
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## 4409          231771             27941           5500
## 4417          201408              9814          10300
## 4422          126696             50297         108600
## 4434          322077             59611           6900
## 4438          323721             56991          29400
## 4439          144200             11373          15200
## 4444          131468            104845          26800
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## 4454          244412             80245           5200
## 4457          300643             38701          11800
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## 4462           56150             42121           7000
## 4467          173638             48743          40900
## 4475          191858              4630           8000
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## 4496           91241             30188          54400
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## 4513           55412             36237          11100
## 4515          149982             24813          19600
## 4521          130261            109086          14100
## 4541          246495             14066           1800
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## 4556          306058             43157          21000
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## 4560           69640             88706            500
```

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## 4572         245180            35418          17400
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## 4582         118913            74398          30100
## 4596         130104           118040          29600
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## 4612         446439           137620          60600
## 4619         287678            49804           1300
## 4628         268888            57758          16500
## 4637         122310           132559           4500
## 4652         112712           112719           8100
## 4655          60048            30563           9000
## 4657         184918            90055           8600
## 4666         484963           196488          51400
## 4686         619869            13821           1900
## 4689         329733            53757           9800
## 4693           5229             1590            800
## 4694         938903           133288          17500
## 4702         497415           105109          46100
## 4705         215297             9675          20100
## 4707         341157            52627          36000
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## 4716         521631           226455           8000
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## 4733         913845           244738           9100
## 4740         179560             5595           6800
## 4752          36551            24310          11700
## 4757          99415            46756          43500
## 4759          67994            45990          10000
## 4761         600151            52813           3000
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## 4782          78849            53075          31600
## 4787          51425            27511          27800
## 4789         205832            67762          16800
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## 4827          20734            10614           6600
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## 4869         282970            50421         147400
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## 4942         393271            60060           4900
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## 4969         373821           124280          34300
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## 5033         252933            66830          13700
## 5056         226781            24776          28300
## 5062          52789            32595           3100
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## 5085          54796            16502          20900
## 5101         355890            15554           3500
## 5111          51668            23543          14100
## 5113          22649            12208           6700
## 5119         257316            23952          16000
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## 5127         714030            54500          49000
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## 5153          55526            50157           6100
## 5172          54843            34149           7500
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## 5178         178744            75338          62000
## 5189         174143            47160          18500
## 5198         253468            27668           5000
## 5199          72550            59915           3000
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## 5222          91460            42063          30000
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## 5227          48173            13541          23900
## 5231         127187           142349          15000
## 5253          81763            55466           6000
## 5263         147431            23482           8900
## 5272         355099            13884          23700
## 5280          70144            13690          41000
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## 5289         365377            90916          21700
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```

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## 5434         222765            35809         14700
## 5439          30458             8353         16600
## 5457         447527            71145          7300
## 5461          44836             6396         12500
## 5463          40453            22060         14200
## 5469          36472            16380         10000
## 5471          48321            31086         10100
## 5487         242237            41867         10000
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## 5495         130733           111741         31500
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## 5520          69325            39875         14100
## 5526         294353            83230         37000
## 5528          10993             5705          1000
## 5530         613512           201719         26500
## 5542         520275            30878          4000
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## 5560         423005            57629         72100
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## 5644          30500            14868         15500
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## 5653         142176            18322         24500
## 5655          72257            14725         62300
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## 5934         591093            81744         78500
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## 13                        24516                                     N
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## 62                        28540                                     N
## 79                         7500                                     N
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```

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## 94                     6000                    N
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## 123                   24540                    N
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## 131                   59978                    N
## 146                  121772                    N
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## 189                   77199                    N
## 209                  105738                    N
## 211                   75761                    N
## 214                   82000                    N
## 223                   64825                    N
## 228                   22043                    N
## 237                   33258                    N
## 256                   16769                    N
## 266                   97644                    N
## 280                   42209                    N
## 282                   17730                    N
## 288                   29185                    N
## 289                   36383                    N
## 291                   54228                    N
## 293                  130134                    N
## 299                   72972                    N
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## 5318
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## 5338
## 5366
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## 5941
## 5945
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## 95                  Cash                    N
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## 1359               Cash                    N
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## 1587               Cash                    N
## 1589               Cash                    N
## 1602               Cash                    N
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## 2314              Cash                    N
## 2332              Cash                    N
```

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## 2428     DirectPay                N
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## 2479          Cash                N
## 2482          Cash                N
## 2497          Cash                N
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## 2559          Cash                N
## 2565          Cash                N
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## 2586          Cash                N
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## 2748          Cash                N
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## 2909          Cash                N
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## 2921          Cash                N
## 2926          Cash                N
## 2937     DirectPay                N
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## 3552              Cash                    N
## 3563              Cash                    N
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## 4560              Cash                    N
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## 4578              Cash                    N
## 4582              Cash                    N
## 4596              Cash                    N
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## 4619              Cash                    N
## 4628              Cash                    N
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## 4761              Cash                    N
## 4773              Cash                    N
## 4782              Cash                    N
## 4787              Cash                    N
## 4789         DirectPay                    N
## 4803              Cash                    N
## 4826              Cash                    N
## 4827              Cash                    N
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## 4828              Cash                    N
## 4855              Cash                    N
## 4857              Cash                    N
## 4866         DirectPay                    N
## 4869              Cash                    N
## 4877              Cash                    N
## 4881              Cash                    N
## 4883              Cash                    N
## 4919              Cash                    N
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## 5013              Cash                    N
## 5019              Cash                    N
## 5028              Cash                    N
## 5033              Cash                    Y                  Jan-2019
## 5056              Cash                    N
## 5062              Cash                    N
## 5067              Cash                    N
## 5085              Cash                    N
## 5101              Cash                    N
## 5111              Cash                    N
## 5113              Cash                    N
## 5119              Cash                    N
## 5121              Cash                    N
## 5127              Cash                    N
## 5129              Cash                    N
## 5144              Cash                    N
## 5146              Cash                    N
## 5149              Cash                    N
## 5153              Cash                    N
## 5172         DirectPay                    N
## 5175              Cash                    Y                  Jan-2019
## 5178              Cash                    N
## 5189              Cash                    N
## 5198              Cash                    N
## 5199              Cash                    N
## 5208              Cash                    N
## 5222              Cash                    N
## 5226              Cash                    N
## 5227              Cash                    N
## 5231              Cash                    N
## 5253              Cash                    N
## 5263         DirectPay                    N
## 5272              Cash                    N
## 5280              Cash                    N
## 5288              Cash                    N
## 5289              Cash                    N
## 5293              Cash                    N
## 5296              Cash                    N
## 5318              Cash                    N
## 5323              Cash                    N
## 5338              Cash                    N
## 5366              Cash                    N
## 5374              Cash                    N
## 5378              Cash                    N
## 5386              Cash                    N
## 5391              Cash                    N
## 5398              Cash                    N
## 5414              Cash                    N
## 5423              Cash                    N
## 5426              Cash                    N
## 5430              Cash                    N
## 5434              Cash                    N
## 5439              Cash                    N
## 5457              Cash                    N
## 5461              Cash                    N
## 5463              Cash                    N
## 5469              Cash                    N
## 5471              Cash                    N
## 5487              Cash                    N
## 5489         DirectPay                    N
## 5493         DirectPay                    N
## 5495              Cash                    N
## 5504              Cash                    N
## 5512              Cash                    N
## 5520              Cash                    N
## 5526              Cash                    N
## 5528              Cash                    N
## 5530              Cash                    N
## 5542              Cash                    N
## 5546              Cash                    N
## 5560              Cash                    N
## 5572              Cash                    N
## 5606              Cash                    N
## 5617              Cash                    N
## 5618              Cash                    N
## 5631              Cash                    N
```

```
## 5644              Cash                    Y                  Feb-2019
## 5645              Cash                    N
## 5650              Cash                    N
## 5652              Cash                    N
## 5653              Cash                    N
## 5655              Cash                    N
## 5657              Cash                    N
## 5662         DirectPay                    N
## 5678         DirectPay                    N
## 5682              Cash                    N
## 5686              Cash                    N
## 5691              Cash                    N
## 5701              Cash                    N
## 5702              Cash                    N
## 5713              Cash                    N
## 5714              Cash                    N
## 5719              Cash                    N
## 5726              Cash                    N
## 5730              Cash                    N
## 5735              Cash                    N
## 5738              Cash                    N
## 5740              Cash                    N
## 5742              Cash                    N
## 5746              Cash                    N
## 5748              Cash                    N
## 5755              Cash                    N
## 5774         DirectPay                    N
## 5780         DirectPay                    N
## 5790              Cash                    N
## 5805              Cash                    N
## 5813              Cash                    N
## 5829              Cash                    N
## 5837              Cash                    N
## 5839              Cash                    N
## 5855              Cash                    Y                  Jan-2019
## 5864              Cash                    N
## 5871              Cash                    N
## 5879              Cash                    N
## 5894              Cash                    N
## 5900              Cash                    N
## 5905              Cash                    N
## 5909              Cash                    N
## 5911              Cash                    N
## 5920              Cash                    N
## 5926              Cash                    N
## 5934              Cash                    N
## 5937              Cash                    N
## 5939         DirectPay                    N
## 5941              Cash                    N
## 5945              Cash                    N
##      settlement_status settlement_date               region
## 1                                             tennessee
## 13                                            tennessee
## 26                                              florida
## 29                                                maine
## 56                                            louisiana
## 58                                            minnesota
## 62                                           california
## 79                                              arizona
## 81                                            tennessee
## 85                                            tennessee
## 89                                            tennessee
## 94                                                maine
## 95                                              florida
## 100                                             florida
## 123                                       new hampshire
## 129                                           wisconsin
## 131                                             florida
## 146                                             georgia
## 157                                          washington
## 177                                       new hampshire
## 188                                               idaho
## 189                                             arizona
## 209                                             indiana
## 211                                              kansas
## 214                                           louisiana
## 223                                           tennessee
## 228                                            oklahoma
## 237                                             florida
## 256                                             florida
## 266                                          california
## 280                                              nevada
## 282                                              nevada
## 288                                             florida
## 289                                            colorado
## 291                                             montana
## 293                                               texas
## 299                                            colorado
## 300                                             vermont
## 303                                           wisconsin
## 320                                              nevada
## 333                                            new york
## 339                                        south dakota
## 342                                             montana
## 363                                               maine
## 372                                             montana
## 380                                          california
## 398                                              nevada
```

```
## 401                                    new mexico
## 404                                      nebraska
## 437                                    california
## 447                                      illinois
## 448                                    new mexico
## 449                                      illinois
## 457                                     tennessee
## 463                                    california
## 472                                       arizona
## 478                                          utah
## 489                                          iowa
## 492                                 new hampshire
## 498                                    california
## 510                                    california
## 511                                        nevada
## 521                                       florida
## 522                                       florida
## 534                                        nevada
## 535                                       florida
## 538                                    california
## 539                                       arizona
## 554                                   connecticut
## 557                                    california
## 573                                          utah
## 574                                 north carolina
## 586                                     tennessee
## 595                                   south dakota
## 599                                      minnesota
## 603                          district of columbia
## 604                                     tennessee
## 633                                       arizona
## 643                                        nevada
## 657                                        oregon
## 661                                      new york
## 666                                      colorado
## 686                                       florida
## 693                                       georgia
## 701                                  rhode island
## 714                                       montana
## 723                                    california
## 732                                     tennessee
## 733                                       arizona
## 735                                       florida
## 736                                        kansas
## 741                                   connecticut
## 742                                     new mexico
## 751                                       indiana
## 756                                   south dakota
## 759                                   south dakota
## 762                                       florida
## 763                                     tennessee
## 765                                     tennessee
## 768                                  rhode island
## 773                                     louisiana
## 774                                        kansas
## 776                                    california
## 783                                       florida
## 785                                     minnesota
## 842                                   connecticut
## 864                                     tennessee
## 865                                      oklahoma
## 868                                     tennessee
## 876                                 new hampshire
## 888                                      michigan
## 927                                      oklahoma
## 929                                       montana
## 941                                      colorado
## 944                                         texas
## 947                                       georgia
## 948                                        alaska
## 959                                 new hampshire
## 970                                    california
## 973                                       florida
## 979                                  rhode island
## 980                                         maine
## 981                                       florida
## 987                                        hawaii
## 991                                    california
## 1001                                     new york
## 1004                                     michigan
## 1010                                      florida
## 1016                                    tennessee
## 1018                                   california
## 1019                                massachusetts
## 1042                                      vermont
## 1079                                       oregon
## 1087                                   california
## 1093                                       nevada
## 1103                                      vermont
## 1127                                     new york
## 1132                                       nevada
## 1137                                    louisiana
## 1138                                         utah
## 1140                                         iowa
## 1144                                       nevada
## 1145                                         utah
## 1154                                       oregon
## 1156                                 new hampshire
```

```
## 1157                                    florida
## 1160                                 california
## 1162                                   colorado
## 1165                                   new york
## 1176                                   new york
## 1180                                  tennessee
## 1182                                   new york
## 1183                                    arizona
## 1184                                   illinois
## 1185                                    arizona
## 1201                                    vermont
## 1204                                    florida
## 1234                                     nevada
## 1235                                   virginia
## 1236                              pennsylvania
## 1240                                 louisiana
## 1288                                    alabama
## 1289                                    georgia
## 1297                                   new york
## 1303                                     nevada
## 1305                                  tennessee
## 1318                                   michigan
## 1331                                  tennessee
## 1332                                  tennessee
## 1333                              pennsylvania
## 1350                                   new york
## 1358                                    florida
## 1359                                  tennessee
## 1364                                 california
## 1370                                   michigan
## 1372                                    vermont
## 1377                                  tennessee
## 1381                                    florida
## 1387                                  tennessee
## 1401                                     nevada
## 1405                                    arizona
## 1417                                   missouri
## 1423                                connecticut
## 1426                                       utah
## 1429                                  louisiana
## 1436                                    florida
## 1448                                     nevada
## 1454                                  minnesota
## 1458                                    georgia
## 1467                                     oregon
## 1471                                    florida
## 1474                                    vermont
## 1491                                 california
## 1495                               rhode island
## 1498                                      maine
## 1508                                     oregon
## 1515                                  tennessee
## 1528                                 california
## 1536                                  tennessee
## 1541                                   colorado
## 1549                                      idaho
## 1556                                    montana
## 1561                                 california
## 1563                            massachusetts
## 1565                            massachusetts
## 1586                                   virginia
## 1587                                   new york
## 1589                                  tennessee
## 1602                                  tennessee
## 1615                            massachusetts
## 1625                                    arizona
## 1630                                 california
## 1635                                    indiana
## 1654                                     nevada
## 1655                                    montana
## 1670                                 california
## 1682                                   new york
## 1687                                      idaho
## 1690                                    vermont
## 1694                                  tennessee
## 1695                                 california
## 1697                                 new jersey
## 1698                                       utah
## 1705                                    montana
## 1709                                  louisiana
## 1719                                      idaho
## 1720                                 california
## 1731                            west virginia
## 1736                                 new mexico
## 1740                                 california
## 1745                                      idaho
## 1746                              pennsylvania
## 1758                                 washington
## 1769                                   illinois
## 1778                                  louisiana
## 1793                                     oregon
## 1795                                 california
## 1797                                   new york
## 1800                                     oregon
## 1807                                     oregon
## 1815                                  tennessee
## 1818                                    florida
## 1826                                      idaho
```

```
## 1827                                          missouri
## 1835                                        california
## 1837                                     massachusetts
## 1840                                             maine
## 1845                                              utah
## 1851                                            nevada
## 1859                                        california
## 1863                                           georgia
## 1878                                         tennessee
## 1903                                         louisiana
## 1909                                         wisconsin
## 1914                                          new york
## 1928                                        california
## 1947                                           montana
## 1953                                          colorado
## 1955                                             maine
## 1965                                             texas
## 1978                                             idaho
## 1980                                           florida
## 2007                                         minnesota
## 2009                                         tennessee
## 2031                                           alabama
## 2040                                            nevada
## 2044                                         tennessee
## 2049                                          illinois
## 2052                                      south dakota
## 2057                                           georgia
## 2059                                          new york
## 2063                                        washington
## 2067                                        california
## 2097                                          kentucky
## 2102                                            nevada
## 2106                                        california
## 2111                                           florida
## 2112                                          missouri
## 2113                                            nevada
## 2118                                       connecticut
## 2120                                           georgia
## 2122                                     massachusetts
## 2125                                           georgia
## 2130                                              utah
## 2133                                            nevada
## 2139                                             maine
## 2144                                          new york
## 2156                                        california
## 2160                                         tennessee
## 2182                                         tennessee
## 2183                                          oklahoma
## 2186                                        california
## 2210                                            nevada
## 2221                                     north carolina
## 2233                                          louisiana
## 2235                                        california
## 2240                                        california
## 2247                                             idaho
## 2249                                        washington
## 2251                                             idaho
## 2261                                        california
## 2262                                            nevada
## 2275                                        california
## 2284                                         tennessee
## 2313                                        california
## 2314                                            kansas
## 2332                                         tennessee
## 2333                                        california
## 2334                                           indiana
## 2344                                             oregon
## 2346                                         tennessee
## 2349                                     massachusetts
## 2352                                         tennessee
## 2359                                              utah
## 2364                                        california
## 2371                                        california
## 2380                                        california
## 2388                                        california
## 2398                                            nevada
## 2400            ACTIVE        Jan-2019       tennessee
## 2401                                           montana
## 2408                                        california
## 2410                                          illinois
## 2415                                         tennessee
## 2424                                           montana
## 2427                                            oregon
## 2428                                           alabama
## 2445                                           georgia
## 2454                                        new jersey
## 2458                                        california
## 2459                                      rhode island
## 2461                                           arizona
## 2475                                        new mexico
## 2479                                           florida
## 2482                                         minnesota
## 2497                                         tennessee
## 2506                                        california
## 2508                                           arizona
## 2518                                         tennessee
## 2521                                          missouri
## 2526                                     massachusetts
```

```
## 2528                                    tennessee
## 2532                                      montana
## 2534                                      georgia
## 2537                                     missouri
## 2543                                 rhode island
## 2555                                      vermont
## 2559                                     michigan
## 2565                                     new york
## 2569                                   california
## 2575                                       nevada
## 2577                                        idaho
## 2584                         district of columbia
## 2586                                 rhode island
## 2610                                     maryland
## 2621                                   california
## 2634                                      georgia
## 2646                                      georgia
## 2653                                  connecticut
## 2656                                       nevada
## 2664                                        idaho
## 2668                                    tennessee
## 2669                                        maine
## 2675                                     nebraska
## 2676                                 pennsylvania
## 2685                                    new jersey
## 2699                                    wisconsin
## 2706                                massachusetts
## 2711                                      vermont
## 2717                                   california
## 2719                                      montana
## 2720                                    louisiana
## 2728                                    tennessee
## 2737                                    new mexico
## 2740                                    louisiana
## 2746                                    louisiana
## 2748                                   california
## 2759                                  north dakota
## 2760                                   california
## 2783                                   california
## 2784                                   california
## 2793                                     colorado
## 2794                                     colorado
## 2804                                    minnesota
## 2809                                      georgia
## 2815                                      florida
## 2823                                      florida
## 2828                                        maine
## 2829                                      montana
## 2836                                   california
## 2849                                    minnesota
## 2862                                      georgia
## 2864                                     new york
## 2870                                massachusetts
## 2871                                       nevada
## 2881                                       nevada
## 2890                                      montana
## 2902                                massachusetts
## 2904                                      vermont
## 2905                                     illinois
## 2909                                new hampshire
## 2910                                     kentucky
## 2921                                   california
## 2926                                       nevada
## 2937                                       nevada
## 2943                                        maine
## 2945                                      vermont
## 2953                                     michigan
## 2963                                new hampshire
## 2964                                       nevada
## 2987                                west virginia
## 2990                                    tennessee
## 2996                                       nevada
## 2997                                massachusetts
## 2998                                massachusetts
## 3011                                new hampshire
## 3013                                       nevada
## 3014                                massachusetts
## 3015                                    tennessee
## 3019                                massachusetts
## 3020                                      florida
## 3038                                       oregon
## 3046                                   california
## 3055                                      florida
## 3066                                     nebraska
## 3068                                      arizona
## 3069                                   new mexico
## 3077                                   new jersey
## 3091                                   california
## 3109                                       nevada
## 3110                                    tennessee
## 3111                                    louisiana
## 3114                                       nevada
## 3115                                new hampshire
## 3127                                   california
## 3128                                    louisiana
## 3129                                     virginia
## 3139                                new hampshire
## 3144                                     kentucky
```

```
## 3148                                    new hampshire
## 3157                                        tennessee
## 3167                                         kentucky
## 3168                                         oklahoma
## 3191                                           nevada
## 3192                                          georgia
## 3195                                          vermont
## 3197                                        minnesota
## 3207                                     rhode island
## 3220                                       california
## 3235                                       new mexico
## 3240                                           nevada
## 3242                                           alaska
## 3245                                       california
## 3248                                          montana
## 3249                                         colorado
## 3250                                          vermont
## 3253                                          georgia
## 3255                                           oregon
## 3263                                         missouri
## 3264                                       california
## 3275                                        louisiana
## 3284                                       california
## 3301                                    massachusetts
## 3324                                         kentucky
## 3327                                       new mexico
## 3328                                           hawaii
## 3338                                           kansas
## 3340                                       california
## 3348                                         maryland
## 3373                                        tennessee
## 3375                                       california
## 3377                                        tennessee
## 3382                                        louisiana
## 3385                                             utah
## 3390                                       california
## 3391                                          georgia
## 3405                                           kansas
## 3414                                           oregon
## 3415                                         michigan
## 3418                                         michigan
## 3423                                       new mexico
## 3437                                          florida
## 3452                                    new hampshire
## 3461                                        tennessee
## 3468                                           alaska
## 3470                                           nevada
## 3473                                       california
## 3476                                        tennessee
## 3478                                            idaho
## 3495                                          georgia
## 3496                                          georgia
## 3499                                       california
## 3512                                      connecticut
## 3514                                           nevada
## 3524                                           nevada
## 3526                                          florida
## 3528                                          arizona
## 3529                                           kansas
## 3533                                    new hampshire
## 3549                                        tennessee
## 3551                                       california
## 3552                                       california
## 3563                                    massachusetts
## 3570                                           kansas
## 3573                                       california
## 3583                                        tennessee
## 3587                                           nevada
## 3597                                       california
## 3601                                       california
## 3609                                       california
## 3618                                        tennessee
## 3620                                         colorado
## 3626                                    massachusetts
## 3627                                        minnesota
## 3638                                      mississippi
## 3643                                          montana
## 3647                                          florida
## 3652                                       washington
## 3654                                         colorado
## 3664                                       california
## 3669                                        minnesota
## 3676                                            maine
## 3677                                          alabama
## 3689                                       california
## 3694                                          florida
## 3695                                    new hampshire
## 3696                                          georgia
## 3724                                         michigan
## 3725                                        tennessee
## 3753                                          montana
## 3772                                       california
## 3792                                          montana
## 3793                                     pennsylvania
## 3795                                          florida
## 3797                                       california
## 3798                                        louisiana
## 3806                                           nevada
```

```
## 3812                                    louisiana
## 3818                                      montana
## 3820                                   california
## 3823                                west virginia
## 3829                                      florida
## 3838                                      montana
## 3842                                  connecticut
## 3848                                   california
## 3863                                   california
## 3866                                     illinois
## 3867                                    tennessee
## 3871                                     new york
## 3880                                      montana
## 3883                                   california
## 3891                                      florida
## 3895                                      florida
## 3896                                         utah
## 3898                                      arizona
## 3903                                       kansas
## 3916                                     michigan
## 3928                                     colorado
## 3930                                 rhode island
## 3940                                      florida
## 3957                                     colorado
## 3966                                     new york
## 3992                                     michigan
## 3993                                     maryland
## 4000                                      georgia
## 4004                                         utah
## 4012                                    tennessee
## 4014                                     michigan
## 4025                                   california
## 4029                                 south dakota
## 4032                                massachusetts
## 4033                                 rhode island
## 4059                                      florida
## 4066                                   california
## 4067                                      georgia
## 4077                                       alaska
## 4087                                    tennessee
## 4088                                   california
## 4091                                new hampshire
## 4102                                   california
## 4106                               north carolina
## 4112                                    minnesota
## 4127                                        maine
## 4129                                    louisiana
## 4130                                     missouri
## 4134                                     oklahoma
## 4145                                       nevada
## 4156                                       oregon
## 4158                                       nevada
## 4166                                   california
## 4167                                new hampshire
## 4168                                massachusetts
## 4171                                      arizona
## 4176                                   new jersey
## 4182                                       oregon
## 4183                                new hampshire
## 4184                                   washington
## 4187                                new hampshire
## 4190                                      florida
## 4192                                     illinois
## 4195                                     illinois
## 4218                                       kansas
## 4223                                   california
## 4226                                      florida
## 4227                                       nevada
## 4242                                massachusetts
## 4244                                    tennessee
## 4246                                    louisiana
## 4250                                       nevada
## 4264                                       nevada
## 4276                                massachusetts
## 4281                                        idaho
## 4288                                        maine
## 4296                                   california
## 4299                                      montana
## 4302                                      vermont
## 4312                                     illinois
## 4315                                      florida
## 4319                                new hampshire
## 4327                                    tennessee
## 4329                                      alabama
## 4332                                    tennessee
## 4339                                   new jersey
## 4340                                 north dakota
## 4343                                 south dakota
## 4345                                      florida
## 4359                                     kentucky
## 4361                                      florida
## 4366                                      georgia
## 4373                                        idaho
## 4374                                      georgia
## 4384                                   california
## 4393                               south carolina
## 4396                                   california
## 4409                                massachusetts
```

```
## 4417                                        pennsylvania
## 4422                                             florida
## 4434                                            new york
## 4438                                       massachusetts
## 4439                                             florida
## 4444                                             georgia
## 4446                                          california
## 4454                                            colorado
## 4457                                             vermont
## 4460                                             indiana
## 4462                                         mississippi
## 4467                                              nevada
## 4475                                              kansas
## 4480                                            new york
## 4493                                             florida
## 4496                                              nevada
## 4508                                        rhode island
## 4513                                             florida
## 4515                                       massachusetts
## 4521                                          california
## 4541                                            kentucky
## 4542                                      south carolina
## 4549                                               maine
## 4556                                               texas
## 4559                                          california
## 4560                                              oregon
## 4570                                            new york
## 4572                                       massachusetts
## 4574                                               idaho
## 4578                                               idaho
## 4582                                             florida
## 4596                                                utah
## 4600                                          california
## 4612                                             florida
## 4619                                             florida
## 4628                                              kansas
## 4637                                               idaho
## 4652                                              nevada
## 4655                                              nevada
## 4657                                            colorado
## 4666                                           tennessee
## 4686                                          california
## 4689                                        south dakota
## 4693                                             georgia
## 4694                                              nevada
## 4702                                       new hampshire
## 4705                                             florida
## 4707                                               idaho
## 4713            ACTIVE        Jan-2019            kentucky
## 4716                                                utah
## 4727                                            nebraska
## 4733                                             georgia
## 4740                                         connecticut
## 4752                                          california
## 4757                                           tennessee
## 4759                                            new york
## 4761                                                utah
## 4773                                            colorado
## 4782                                          california
## 4787                                              nevada
## 4789                                        south dakota
## 4803                                             montana
## 4826                                              oregon
## 4827                                              nevada
## 4828                                            michigan
## 4855                                          california
## 4857                                                utah
## 4866                                             arizona
## 4869                                             alabama
## 4877                                             florida
## 4881                                           louisiana
## 4883                                            illinois
## 4919                                            michigan
## 4924                                               maine
## 4932                                                ohio
## 4936                                              oregon
## 4939                                             montana
## 4942                                          california
## 4964                                             vermont
## 4969                                                ohio
## 4994                                        south dakota
## 5000                                             florida
## 5002                                                utah
## 5004                                                utah
## 5005                                            kentucky
## 5012                                            new york
## 5013                                           new mexico
## 5019                                              nevada
## 5028                                             georgia
## 5033            ACTIVE        Dec-2018           tennessee
## 5056                                             florida
## 5062                                        south dakota
## 5067                                          california
## 5085                                             florida
## 5101                                          california
## 5111                                             florida
## 5113                                       new hampshire
## 5119                                            colorado
```

```
## 5121                                          montana
## 5127                                          florida
## 5129                                           oregon
## 5144                                           nevada
## 5146                                       california
## 5149                                          florida
## 5153                                          florida
## 5172                                           alaska
## 5175            ACTIVE        Dec-2018       massachusetts
## 5178                                        louisiana
## 5189                                           nevada
## 5198                                             utah
## 5199                                          montana
## 5208                                           nevada
## 5222                                             utah
## 5226                                             ohio
## 5227                                      south dakota
## 5231                                       california
## 5253                                            idaho
## 5263                                          florida
## 5272                                          georgia
## 5280                                          florida
## 5288                                          alabama
## 5289                                          florida
## 5293                                           nevada
## 5296                                         new york
## 5318                                           oregon
## 5323                                      massachusetts
## 5338                                           alaska
## 5366                                             iowa
## 5374                                        tennessee
## 5378                                         illinois
## 5386                                      new hampshire
## 5391                                         new york
## 5398                                      new hampshire
## 5414                                         nebraska
## 5423                                       california
## 5426                                          georgia
## 5430                                            idaho
## 5434                                          arizona
## 5439                                        louisiana
## 5457                                          indiana
## 5461                                        tennessee
## 5463                                      massachusetts
## 5469                                           nevada
## 5471                                          indiana
## 5487                                          georgia
## 5489                                       california
## 5493                                         new york
## 5495                                           nevada
## 5504                                           nevada
## 5512                                       california
## 5520                                         michigan
## 5526                                            texas
## 5528                                            idaho
## 5530                                        tennessee
## 5542                                       california
## 5546                                       california
## 5560                                           nevada
## 5572                                             utah
## 5606                                      new hampshire
## 5617                                          florida
## 5618                                          arizona
## 5631                                            idaho
## 5644            ACTIVE        Feb-2019       california
## 5645                                          alabama
## 5650                                            maine
## 5652                                          arizona
## 5653                                          arizona
## 5655                                      new hampshire
## 5657                                             utah
## 5662                                           oregon
## 5678                                          georgia
## 5682                                           nevada
## 5686                                             utah
## 5691                                       california
## 5701                                        tennessee
## 5702                                         michigan
## 5713                                         illinois
## 5714                                        tennessee
## 5719                                         new york
## 5726                                          montana
## 5730                                            idaho
## 5735                                       california
## 5738                                       california
## 5740                                        louisiana
## 5742                                       california
## 5746                                             utah
## 5748                                            idaho
## 5755                                      new hampshire
## 5774                                        tennessee
## 5780                                             ohio
## 5790                                          montana
## 5805                                          arizona
## 5813                                      massachusetts
## 5829                                        tennessee
## 5837                                        wisconsin
## 5839                                       new mexico
```

```
## 5855            BROKEN        Nov-2018            tennessee
## 5864                                               florida
## 5871                                             tennessee
## 5879                                              delaware
## 5894                                            new jersey
## 5900                                               florida
## 5905                                             tennessee
## 5909                                                 idaho
## 5911                                               florida
## 5920                                            new jersey
## 5926                                                nevada
## 5934                                            california
## 5937                                               montana
## 5939                                            california
## 5941                                              missouri
## 5945                                            california
##  [ reached 'max' / getOption("max.print") -- omitted 97838 rows ]
```

```
stateNY = loan[addr_state== 'NY',]

stateNY
```

```
##            X loan_amnt funded_amnt funded_amnt_inv       term int_rate
## 16      2787      1000        1000            1000  36 months    27.27
## 38      7352      1000        1000            1000  36 months    13.56
## 47      9963     20000       20000           20000  36 months    11.31
## 77     15539     10000       10000           10000  36 months    19.92
## 88     17846     18000       18000           17725  36 months    10.72
## 112    21838      4000        4000            4000  36 months    19.92
## 133    25597     20000       20000           20000  60 months    13.56
## 135    25963      6000        6000            6000  36 months    14.47
## 145    27851     12000       12000           12000  36 months    11.31
## 169    31591     10000       10000            9725  36 months    12.98
## 180    32727     15000       15000           15000  36 months     7.56
## 191    34531      9500        9500            9500  36 months     7.02
## 208    36925      3000        3000            3000  36 months    10.72
## 222    38920     15000       15000           14975  60 months    15.02
## 226    39320     30000       30000           30000  36 months    19.92
## 231    40419      8700        8700            8700  36 months    11.80
## 243    41856     30000       30000           30000  60 months    23.40
## 244    42229      5400        5400            5400  36 months     7.02
## 250    43794     17775       17775           17775  36 months    10.33
## 260    45383     22500       22500           22500  36 months    16.14
## 271    46875      1000        1000            1000  36 months    23.40
## 277    47629     10000       10000           10000  36 months    15.02
## 284    48625      8400        8400            8400  36 months    15.02
## 292    49487      4000        4000            4000  36 months    11.80
## 295    50133     10000       10000           10000  36 months     8.19
## 311    52277     20000       20000           20000  60 months    25.34
## 355    57271     11500       11500           11500  60 months    20.89
## 376    59905     24000       24000           24000  60 months    17.97
## 385    61956     17000       17000           17000  36 months     8.81
## 392    62564     35000       35000           35000  60 months    18.94
## 400    63202     15000       15000           15000  36 months    16.91
## 402    63340     20000       20000           20000  36 months     7.21
## 413    64165      7000        7000            7000  36 months    19.92
## 421    64749     10000       10000           10000  36 months    10.33
## 423    64845     20000       20000           20000  60 months    17.97
## 424    64855     20000       20000           20000  60 months    19.92
## 440    67469     30000       30000           30000  36 months    16.91
## 444    67714      8000        8000            8000  36 months    18.94
## 509    74966     40000       40000           40000  60 months    13.56
## 524    77317     10000       10000           10000  36 months    22.35
## 542    79827      6000        6000            6000  36 months    20.89
## 581    84476     10650       10650           10650  36 months    12.73
## 593    85868     35000       35000           35000  60 months    17.97
## 620    88673      6000        6000            6000  36 months    13.56
## 669    94017     35000       35000           35000  60 months    17.97
## 679    95357      6000        6000            6000  36 months    12.73
## 695    96639     25000       25000           25000  60 months    15.02
## 698    97133     12000       12000           12000  36 months     7.21
## 726    99080     15000       15000           15000  60 months    12.73
## 750   102078     10500       10500           10500  60 months    14.47
## 755   102347      8000        8000            8000  36 months    16.14
## 791   105343      7700        7700            7700  36 months    10.47
## 796   105581     30000       30000           30000  60 months    15.02
## 805   106248     25000       25000           25000  36 months    10.47
## 806   106424      7925        7925            7925  36 months    19.92
## 821   107988     16700       16700           16700  60 months    20.89
## 837   109588      8000        8000            8000  36 months    16.14
## 841   110161     13350       13350           13350  36 months    18.94
## 843   110309      2000        2000            2000  36 months    13.56
## 860   111493      6000        6000            6000  36 months    10.08
## 862   111663      2400        2400            2400  36 months    16.91
## 891   114272      3500        3500            3500  36 months    16.14
## 911   116433     18000       18000           18000  36 months    10.47
## 921   117685     18000       18000           18000  60 months    17.97
## 930   118600     18000       18000           18000  36 months    11.06
## 952   120318      9000        9000            9000  36 months    23.40
## 956   120523     20000       20000           20000  36 months    16.14
## 958   120821     11500       11500           11500  60 months    16.91
## 967   121955     35000       35000           35000  36 months    16.14
## 974   122671      9350        9350            9350  36 months    14.47
## 982   123455      5000        5000            5000  36 months    11.55
## 1014  126659      8600        8600            8600  36 months    11.06
## 1022  127166     35000       35000           35000  36 months    16.91
```

```
## 1045  128944      8000        8000            8000  36 months     6.67
## 1051  129755     19200       19200           19200  36 months    15.02
## 1075  131164     12500       12500           12500  60 months    16.91
## 1097  132915      7200        7200            7200  36 months    10.08
## 1099  133064      2000        2000            2000  36 months    10.47
## 1104  133399      9500        9500            9500  36 months    13.56
## 1107  133566     19900       19900           19900  60 months    10.08
## 1119  134546     10000       10000           10000  36 months    15.02
## 1125  135137      1000        1000            1000  36 months    23.40
## 1166  137936      5000        5000            5000  36 months    10.47
## 1167  137968     10000       10000           10000  36 months    18.94
## 1172  138630     16000       16000           16000  60 months    11.55
## 1173  138641     12000       12000           12000  36 months    16.91
## 1175  138698     12000       12000           12000  36 months     8.46
## 1177  138745      2000        2000            2000  36 months    13.56
## 1193  139819     10000       10000           10000  36 months    14.47
## 1200  140183     15000       15000           15000  36 months    22.35
## 1206  140524      5000        5000            5000  36 months    18.94
## 1223  141570     20000       20000           19975  36 months    14.47
## 1230  141865     20000       20000           20000  60 months    17.97
## 1238  142128     12775       12775           12775  60 months    28.72
## 1245  142968      2400        2400            2400  36 months    11.06
## 1250  143239     32000       32000           32000  36 months    14.47
## 1272  145353      4200        4200            4200  36 months     7.84
## 1282  146044      5000        5000            5000  36 months    10.08
## 1283  146098     16000       16000           16000  60 months    20.89
## 1298  146799     30000       30000           30000  36 months    22.35
## 1300  146849     10000       10000           10000  36 months    16.91
## 1308  147653     12000       12000           12000  60 months    27.27
## 1321  148714     10500       10500           10500  36 months    10.47
## 1322  148851     13100       13100           13100  36 months    26.31
## 1327  149268     10000       10000           10000  36 months    18.94
## 1374  153227      5500        5500            5500  36 months    11.55
## 1378  153448      8000        8000            8000  36 months    18.94
## 1385  153990     17475       17475           17475  36 months    20.89
## 1411  155524      5000        5000            5000  36 months    18.94
## 1415  155621     15000       15000           15000  36 months    18.94
## 1463  157767     12600       12600           12600  36 months    12.73
## 1517  161232     10000       10000           10000  36 months    20.89
## 1531  161998      9600        9600            9600  36 months    17.97
## 1598  166140     30000       30000           30000  36 months     7.21
## 1609  167538     10000       10000           10000  36 months    10.08
## 1638  169792      6000        6000            6000  36 months    18.94
## 1684  172687      8000        8000            8000  36 months    17.97
## 1710  174501      2500        2500            2500  36 months    11.55
## 1713  174639     20000       20000           20000  60 months    18.94
## 1722  175418     14000       14000           14000  36 months     7.21
## 1733  175921     13000       13000           13000  60 months    11.55
## 1742  176608      6500        6500            6500  36 months     6.11
## 1770  177629     20000       20000           20000  36 months    15.02
## 1777  178131      3000        3000            3000  36 months    27.27
## 1779  178274      8000        8000            8000  36 months    11.55
## 1781  178338     17000       17000           17000  60 months    17.97
## 1808  180439      4500        4500            4500  36 months     6.67
## 1814  180754     35000       35000           35000  60 months    19.92
## 1832  181821      6000        6000            6000  36 months    16.14
## 1834  181994     30900       30900           30900  36 months     8.46
## 1841  182216     25300       25300           25300  60 months    16.14
## 1858  182939      5500        5500            5500  36 months    20.89
## 1872  183503     24000       24000           24000  60 months    17.97
## 1888  184425      7000        7000            7000  36 months    10.08
## 1908  185782     10000       10000           10000  36 months    16.91
## 1912  185972     16000       16000           16000  60 months    18.94
## 1918  186168     20000       20000           20000  60 months    16.14
## 1923  186477     18000       18000           18000  36 months     6.11
## 1931  187021      8000        8000            8000  36 months     6.67
## 1940  187400     20000       20000           20000  36 months    17.97
## 1941  187515     27000       27000           27000  60 months    14.47
## 1966  188984     24000       24000           24000  60 months    20.89
## 1967  188996      4200        4200            4200  36 months    16.91
## 1969  189202     20000       20000           20000  60 months    17.97
## 1993  190208     21050       21050           21050  36 months     8.46
## 2000  190482     25000       25000           25000  36 months    11.55
## 2020  191556     36000       36000           36000  36 months    10.47
## 2021  191713     15000       15000           15000  36 months     7.21
## 2022  191774     15000       15000           15000  36 months     6.11
## 2024  191789      8000        8000            7750  36 months    11.55
## 2062  194183     20000       20000           20000  36 months    11.55
## 2064  194215      8000        8000            8000  36 months     7.84
## 2110  196632     18000       18000           17975  36 months    14.47
## 2134  198154     16000       16000           16000  60 months    10.47
## 2141  198416     20000       20000           20000  60 months    26.31
## 2152  198790      8100        8100            8100  36 months    16.14
## 2164  199412     25000       25000           25000  36 months    11.55
## 2188  200360      2400        2400            2400  36 months    22.35
## 2195  200877      2500        2500            2500  36 months     8.46
## 2205  201302     15000       15000           15000  36 months    11.55
## 2223  202191      4500        4500            4500  36 months     7.21
## 2228  202445      8000        8000            8000  36 months    14.47
## 2237  203281     13000       13000           13000  36 months     6.11
## 2266  205150     24000       24000           24000  36 months    16.91
## 2269  205279     24000       24000           24000  60 months    13.56
## 2276  205613     25000       25000           25000  36 months     6.11
## 2282  205885     16000       16000           16000  36 months    15.02
## 2291  206425      8200        8200            8200  36 months    19.92
## 2299  206920      3600        3600            3600  36 months    16.14
## 2309  207169     14000       14000           14000  60 months    26.31
## 2311  207247     10000       10000           10000  36 months    15.02
```

```
## 2317  207550      3500        3500            3500  36 months    10.47
## 2324  207831     30000       30000           30000  36 months    11.06
## 2360  209424     32000       32000           32000  36 months     7.21
## 2366  209690     18000       18000           18000  36 months    11.55
## 2372  209905      1500        1500            1500  36 months    14.47
## 2391  210623     14000       14000           14000  60 months    25.34
## 2451  213191     40000       40000           40000  60 months    13.56
## 2466  214008     20000       20000           20000  36 months    11.55
## 2487  214877     35000       35000           35000  36 months    14.47
## 2498  215522      8000        8000            8000  36 months    16.14
## 2507  216208     12700       12700           12700  36 months    10.08
## 2553  218053      3000        3000            3000  36 months     6.11
## 2570  218639      3600        3600            3600  36 months     7.84
## 2573  218749      5450        5450            5450  36 months    14.47
## 2594  220148     20000       20000           20000  60 months    15.02
## 2632  221567      5400        5400            5400  36 months    18.94
## 2644  221981     11000       11000           11000  36 months    24.37
## 2665  223167      3000        3000            3000  36 months    28.72
## 2666  223210     15500       15500           15500  60 months    30.79
## 2680  223929     25000       25000           25000  60 months    10.47
## 2682  224022     20000       20000           20000  36 months    22.35
## 2688  224242     25000       25000           25000  60 months    13.56
## 2697  224473      6000        6000            6000  36 months    16.91
## 2704  224706      8000        8000            8000  36 months     7.21
## 2739  226295     10000       10000           10000  60 months    18.94
## 2741  226466      7500        7500            7500  36 months    16.91
## 2750  226892      7000        7000            7000  36 months    10.08
## 2751  226987     14000       14000           14000  60 months    13.56
## 2754  227083      9600        9600            9600  36 months    16.14
## 2762  227426      7800        7800            7800  36 months     7.84
## 2764  227537     10000       10000            9975  36 months    16.91
## 2778  228201      6000        6000            6000  36 months    11.55
## 2802  229288     19000       19000           19000  60 months    14.47
## 2818  230096     12000       12000           12000  60 months    27.27
## 2822  230131     17000       17000           17000  36 months     7.21
## 2841  230772     16000       16000           16000  36 months    13.56
## 2848  231217     10000       10000           10000  36 months    11.55
## 2888  232822     20000       20000           19725  36 months    11.55
## 2922  234253     15000       15000           15000  60 months    22.35
## 2941  235301      1000        1000            1000  36 months    26.31
## 2956  235744     20200       20200           20200  60 months    25.34
## 2970  236379     12000       12000           12000  60 months    13.56
## 2986  237061     15000       15000           15000  36 months    13.56
## 3006  237652     14000       14000           13975  36 months    16.14
## 3030  238440     23000       23000           23000  36 months     6.11
## 3035  238720     12800       12800           12800  36 months    15.02
## 3044  239210     20000       20000           20000  36 months    24.37
## 3048  239365      4000        4000            4000  36 months    17.97
## 3063  240028      8000        8000            8000  36 months    10.08
## 3064  240106     12000       12000           12000  60 months    30.17
## 3072  240732      7500        7500            7500  36 months    10.08
## 3080  241359     15000       15000           15000  60 months    16.14
## 3082  241414     20000       20000           20000  60 months    14.47
## 3097  241957     12000       12000           12000  36 months     6.67
## 3098  241965     12000       12000           12000  60 months    14.03
## 3135  243548      4000        4000            4000  36 months    20.89
## 3151  244297     24000       24000           24000  36 months    16.14
## 3153  244323      6000        6000            6000  36 months    11.06
## 3171  244991     25000       25000           24750  36 months    11.55
## 3205  246126     10000       10000           10000  36 months    10.47
## 3217  246554      5500        5500            5500  36 months    17.97
## 3225  246800     10000       10000           10000  36 months     7.21
## 3227  246862     15000       15000           15000  60 months    18.94
## 3234  247171     15000       15000           15000  36 months    16.14
## 3239  247353      7000        7000            7000  36 months     7.84
## 3247  247586     29000       29000           29000  36 months    17.97
## 3331  250765     35000       35000           34975  36 months    15.02
## 3334  250807      6000        6000            6000  36 months    13.56
## 3372  252513     10000       10000           10000  36 months     6.83
## 3379  252806     10000       10000           10000  60 months    30.79
## 3393  253141     14400       14400           14400  36 months    13.56
## 3395  253278     30000       30000           30000  36 months    15.02
## 3403  253449      9350        9350            9350  36 months    11.55
## 3410  253783      1500        1500            1500  36 months    18.45
## 3413  253851     21000       21000           20975  36 months    17.47
## 3417  253946     15000       15000           15000  60 months    16.14
## 3487  256340     15000       15000           14975  36 months    22.90
## 3513  257441      6875        6875            6875  36 months    15.49
## 3521  257772     24000       24000           24000  60 months    25.81
## 3532  258218     20000       20000           20000  36 months     9.58
## 3558  259157      5000        5000            5000  36 months    17.47
## 3562  259302     10000       10000           10000  60 months     7.46
## 3571  259473     17500       17500           17500  60 months     7.46
## 3574  259610      4500        4500            4500  36 months     9.58
## 3581  259822      5000        5000            5000  36 months    15.49
## 3589  260159      4500        4500            4500  36 months     9.58
## 3605  260984      9000        9000            9000  36 months    14.52
## 3630  262730     10000       10000           10000  36 months    18.45
## 3631  262885      7250        7250            7250  36 months    21.85
## 3640  263095     25000       25000           25000  36 months     6.19
## 3642  263140     15000       15000           15000  36 months    15.49
## 3644  263231      5000        5000            5000  36 months    18.45
## 3653  263564     15000       15000           15000  60 months    10.07
## 3662  264009     20000       20000           20000  36 months    12.13
## 3663  264045      2000        2000            2000  36 months    15.49
## 3691  264979      6000        6000            6000  36 months    17.47
## 3713  265529     18000       18000           18000  60 months    11.05
## 3726  265950     23000       23000           23000  36 months    14.52
```

```
## 3746  266682     16000       16000           16000  60 months    19.42
## 3751  266798     10000       10000           10000  36 months    11.05
## 3757  267144      2500        2500            2500  36 months    29.69
## 3761  267271     10800       10800           10800  36 months     8.08
## 3763  267294     15000       15000           15000  36 months    13.06
## 3770  267529     16000       16000           16000  36 months    16.46
## 3774  267707     20000       20000           20000  36 months    16.46
## 3775  267734     15000       15000           15000  36 months    13.06
## 3786  268045     14000       14000           14000  60 months    14.52
## 3809  269025     20000       20000           20000  60 months    20.39
## 3824  269505     12500       12500           12500  36 months    12.13
## 3832  269776      7000        7000            6750  36 months    10.56
## 3845  270253     10000       10000           10000  36 months     7.46
## 3864  270749      6200        6200            6200  36 months    19.42
## 3877  271385      3000        3000            3000  36 months    18.45
## 3890  271699     11500       11500           11500  36 months    14.03
## 3907  272653      8000        8000            8000  36 months    13.06
## 3918  273125      5000        5000            5000  36 months    15.49
## 3925  273367      6000        6000            6000  36 months    10.56
## 3927  273399      7500        7500            7500  36 months    15.49
## 3945  273612     10000       10000           10000  36 months    12.13
## 3946  273621     40000       40000           40000  36 months     9.58
## 3972  274301      5000        5000            5000  36 months    11.05
## 3986  275029      2500        2500            2500  36 months     7.46
## 3988  275152     10000       10000           10000  60 months    20.39
## 4008  275622     30000       30000           30000  36 months    19.42
## 4015  275858      5200        5200            5200  36 months    17.47
## 4039  276629      2200        2200            2200  36 months    17.47
## 4047  276950     35000       35000           35000  60 months    16.46
## 4056  277233     25000       25000           25000  60 months    11.05
## 4076  278139     35000       35000           35000  36 months    13.06
## 4090  278680     20000       20000           20000  36 months    15.49
## 4103  279309      5000        5000            5000  36 months     6.19
## 4160  281123      6000        6000            6000  36 months     9.58
## 4164  281299     12000       12000           12000  36 months     8.08
## 4188  282039      7500        7500            7500  36 months    11.05
## 4222  283090     10950       10950           10950  60 months    24.84
## 4231  283303     30000       30000           30000  36 months    14.52
## 4236  283395     35000       35000           35000  60 months    20.39
## 4256  283791     14400       14400           14400  36 months    15.49
## 4282  284473      6000        6000            6000  36 months    11.05
## 4286  284551     30000       30000           30000  60 months    28.72
## 4306  284979     20800       20800           20800  36 months    11.05
## 4308  285023     11100       11100           11100  60 months    14.52
## 4313  285176      8000        8000            8000  36 months    20.39
## 4355  286536     10000       10000           10000  36 months    15.49
## 4358  286661     15000       15000           15000  36 months    10.56
## 4375  287067     17400       17400           17150  36 months    10.56
## 4383  287390      2000        2000            2000  36 months     9.58
## 4387  287494      6600        6600            6600  36 months     5.31
## 4404  288144     12000       12000           12000  36 months    21.85
## 4420  288573     10000       10000           10000  36 months     9.58
## 4449  289638     11200       11200           11200  60 months    14.03
## 4455  289858     11000       11000           11000  36 months     7.46
## 4463  290217      7700        7700            7700  36 months     9.58
## 4490  291156     16500       16500           16500  60 months    14.03
## 4495  291431     14000       14000           14000  36 months     9.58
## 4505  291936     12000       12000           12000  36 months    10.56
## 4507  291993      9200        9200            9200  36 months    10.07
## 4540  293006      9500        9500            9500  36 months    13.06
## 4553  293375      4000        4000            4000  36 months    16.46
## 4579  294242     23550       23550           23550  36 months    10.07
## 4591  294608     14000       14000           14000  36 months     5.31
## 4593  294618      8400        8400            8400  36 months    18.45
## 4599  294758     40000       40000           40000  60 months    12.13
## 4607  295162      6400        6400            6400  36 months     6.19
## 4636  296368     40000       40000           39725  36 months    12.13
## 4659  297155      1600        1600            1600  36 months    15.49
## 4667  297390      5000        5000            5000  36 months    13.06
## 4670  297448      6000        6000            6000  36 months    10.56
## 4676  297573     12000       12000           12000  60 months     5.31
## 4678  297619     30000       30000           30000  60 months    13.06
## 4679  297642      5000        5000            5000  36 months    19.42
## 4687  297764     22000       22000           21750  36 months    10.90
## 4697  297965     16000       16000           16000  36 months     6.83
## 4709  298458      5000        5000            5000  36 months    10.56
## 4725  298938      6500        6500            6500  36 months    21.85
## 4741  299441     27325       27325           27325  60 months    26.77
## 4777  300348     36000       36000           36000  60 months    12.13
## 4781  300459     12000       12000           12000  60 months    14.03
## 4796  300839      7200        7200            7200  36 months    12.13
## 4807  301208     35000       35000           34975  60 months    22.90
## 4808  301213     40000       40000           40000  60 months    12.13
## 4822  301877     10000       10000           10000  36 months     9.58
## 4830  302080     15000       15000           15000  36 months     9.58
## 4849  302725     26400       26400           26400  60 months    13.06
## 4853  302757      6500        6500            6500  36 months    20.39
## 4854  302793      6000        6000            6000  36 months    10.56
## 4859  302861      5000        5000            5000  36 months    19.42
## 4897  303909     35000       35000           35000  36 months    14.52
## 4966  305658     25000       25000           25000  60 months    10.07
## 4975  305890     20000       20000           20000  60 months    16.46
## 4991  306203      5000        5000            5000  36 months     6.83
## 5016  306935      7200        7200            7200  36 months    15.49
## 5020  307019     35000       35000           35000  60 months    14.52
## 5024  307152      4500        4500            4500  36 months     9.58
## 5026  307210     25000       25000           25000  60 months    17.47
## 5040  307861      8000        8000            8000  36 months    11.05
```

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## 5058  308189     12000       12000           12000  36 months    11.05
## 5078  308672     10000       10000           10000  36 months     9.58
## 5082  308775     22100       22100           22100  60 months    16.46
## 5092  309183     21925       21925           21925  36 months    18.45
## 5140  310703     15000       15000           15000  60 months    13.06
## 5143  310756      6500        6500            6500  36 months    16.46
## 5148  310990     14000       14000           14000  36 months    12.13
## 5188  311957     18000       18000           18000  60 months    14.03
## 5203  312366     15000       15000           15000  60 months    22.90
## 5214  312649     22000       22000           22000  60 months    26.77
## 5224  312956      6000        6000            6000  36 months    12.13
## 5229  313019     40000       40000           40000  60 months    10.07
## 5281  314437      4000        4000            4000  36 months    23.87
## 5290  314692     30000       30000           30000  36 months    10.07
## 5310  315086      3000        3000            3000  36 months    15.49
## 5327  315638      4000        4000            4000  36 months    17.47
## 5331  315786     12000       12000           12000  36 months    10.07
## 5334  315840     16000       16000           16000  60 months    14.03
## 5335  315909     30000       30000           30000  60 months    15.49
## 5336  315941     16000       16000           16000  36 months    11.05
## 5349  316321     20000       20000           20000  60 months    11.05
## 5353  316402     10000       10000           10000  36 months    10.56
## 5370  316910     38500       38500           38500  36 months     5.31
## 5381  317262     36000       36000           36000  60 months    15.49
## 5385  317420     15000       15000           15000  60 months    16.46
## 5396  317913     10000       10000           10000  36 months     9.58
## 5408  318326     13600       13600           13600  60 months    13.58
## 5415  318452     16000       16000           16000  36 months    10.07
## 5424  318618      8800        8800            8800  36 months     9.58
## 5428  318769     30000       30000           30000  36 months     7.96
## 5450  319242      7500        7500            7500  36 months    14.52
## 5474  320006     20000       20000           20000  36 months     9.58
## 5480  320137     13500       13500           13500  60 months    28.72
## 5486  320261      5000        5000            5000  36 months    11.05
## 5509  320799     21000       21000           21000  60 months    19.42
## 5518  321058      5000        5000            5000  36 months     6.07
## 5523  321105      6000        6000            6000  36 months    10.07
## 5534  321373      8000        8000            8000  36 months    11.98
## 5536  321452     10000       10000           10000  60 months    14.07
## 5541  321544     20000       20000           20000  60 months    25.81
## 5551  321870     12000       12000           12000  36 months     8.08
## 5557  322057     30000       30000           30000  60 months    26.77
## 5562  322121      8400        8400            8400  36 months    21.85
## 5584  322624     20000       20000           20000  60 months    11.05
## 5588  322732     10000       10000           10000  36 months    12.13
## 5598  323062     20000       20000           20000  60 months    15.49
## 5599  323082      3600        3600            3600  36 months    13.06
## 5625  323617      7200        7200            7200  36 months     6.83
## 5626  323811     20000       20000           20000  60 months    10.07
## 5633  324021     35000       35000           35000  36 months    12.13
## 5641  324267     18000       18000           18000  60 months    11.05
## 5674  325087      2500        2500            2500  36 months    20.39
## 5693  325572      6400        6400            6400  36 months    14.03
## 5697  325758     10000       10000           10000  60 months    19.42
## 5704  325995     10000       10000           10000  36 months    15.04
## 5712  326187      8700        8700            8700  36 months    25.81
## 5761  327386     10000       10000           10000  36 months     7.46
## 5763  327416      4000        4000            4000  36 months    10.07
## 5796  328468      7000        7000            7000  36 months    18.45
## 5797  328495     25000       25000           25000  60 months    17.47
## 5800  328540     11200       11200           11200  36 months    10.90
## 5808  328719     25000       25000           25000  60 months    20.39
## 5812  328827      7500        7500            7500  36 months     7.46
## 5814  328864     35000       35000           35000  36 months    15.04
## 5819  329005     10000       10000           10000  60 months    18.45
## 5824  329126     20000       20000           20000  60 months    20.39
## 5833  329435      9000        9000            9000  36 months     7.34
## 5851  329894     17250       17250           17250  60 months    14.03
## 5857  330063     24000       24000           23975  36 months    19.42
## 5862  330119     30000       30000           30000  60 months    24.84
## 5866  330194     18000       18000           18000  36 months    13.58
## 5873  330338      7000        7000            7000  36 months    10.41
## 5877  330454      5400        5400            5400  36 months     7.96
## 5891  330998     16000       16000           16000  36 months    14.07
## 5914  331729     18000       18000           18000  60 months    13.58
## 5936  332344     32000       32000           32000  36 months     6.07
## 5961  332776     15000       15000           15000  36 months    19.42
## 5969  333053     12000       12000           12000  36 months    11.98
## 5983  333337     20000       20000           20000  36 months     9.92
## 5984  333343     30000       30000           30000  36 months    10.41
## 5993  333520     10000       10000           10000  36 months     7.96
## 5995  333586      7500        7500            7500  36 months    12.61
## 6016  334132     25000       25000           25000  60 months    20.39
## 6022  334268     12000       12000           12000  36 months    15.04
## 6026  334328      5000        5000            5000  36 months    12.61
## 6040  334594     20000       20000           20000  36 months    10.41
## 6042  334622     10000       10000           10000  36 months     7.34
## 6058  335004     15000       15000           15000  60 months     9.92
## 6067  335251     16000       16000           16000  60 months    26.77
## 6081  335610     30000       30000           30000  60 months     7.34
## 6095  336132     32000       32000           32000  36 months     7.96
## 6098  336165     10000       10000           10000  36 months    17.47
## 6103  336251      6000        6000            6000  36 months    11.98
## 6107  336347     27050       27050           27050  60 months    15.04
## 6108  336350     12000       12000           12000  36 months     6.71
## 6110  336397     16000       16000           16000  60 months    14.07
## 6112  336448     12000       12000           12000  36 months    15.04
## 6125  336935      6000        6000            6000  36 months     7.34
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## 6137  337300     28000       28000           28000  36 months     9.43
## 6143  337455     16000       16000           16000  36 months     9.92
## 6153  337642     10000       10000           10000  36 months    13.58
## 6166  337820     10000       10000           10000  36 months     6.07
## 6198  338822     12000       12000           12000  36 months    12.61
## 6215  339261     20000       20000           20000  60 months    19.42
## 6216  339278      5000        5000            5000  36 months     7.96
## 6220  339352      3200        3200            3200  36 months    13.58
## 6226  339478     15000       15000           15000  60 months    11.98
## 6235  339758      8000        8000            8000  36 months    12.61
## 6245  340270      7500        7500            7500  36 months    21.85
## 6252  340356      8025        8025            8025  36 months    20.39
## 6261  340503     15000       15000           15000  60 months    18.45
## 6268  340750      7500        7500            7500  36 months    13.58
## 6302  341642     25000       25000           25000  60 months    26.77
## 6304  341649      8000        8000            8000  36 months    14.07
## 6331  342478     21000       21000           21000  60 months    21.85
## 6337  342767     23800       23800           23800  60 months    21.85
## 6373  343610     35000       35000           35000  36 months    10.41
## 6379  343781     20000       20000           20000  36 months    14.07
## 6397  344126     10000       10000           10000  36 months     6.71
## 6401  344238     36175       36175           36175  36 months     6.07
## 6438  345368     10000       10000           10000  36 months     7.96
## 6442  345449     12000       12000           12000  36 months    19.42
## 6447  345528     19000       19000           19000  36 months    12.61
## 6450  345590     30000       30000           30000  36 months    14.07
## 6464  345952      8000        8000            8000  36 months     6.71
## 6506  347153     10000       10000           10000  60 months    20.39
## 6513  347296     12000       12000           12000  36 months    14.07
## 6519  347394     10000       10000           10000  36 months    11.98
## 6520  347411     30000       30000           30000  36 months    16.01
## 6580  349085     15000       15000           15000  60 months    13.58
## 6616  350275      1500        1500            1500  36 months    18.45
## 6652  351234     40000       40000           40000  36 months    10.41
## 6667  351681     33600       33600           33600  60 months    19.42
## 6688  352099     15200       15200           15200  60 months    25.81
## 6693  352230      9500        9500            9500  36 months    13.58
## 6727  352921     29525       29525           29525  36 months    11.98
## 6732  353012     10000       10000           10000  60 months    20.39
## 6735  353071      5000        5000            5000  36 months    17.47
## 6746  353235     12000       12000           12000  36 months    17.47
## 6754  353513      3600        3600            3600  36 months     9.92
## 6770  353875      6000        6000            6000  36 months    15.04
## 6789  354441     19500       19500           19500  60 months    16.01
## 6803  354743     21000       21000           21000  60 months    26.77
## 6819  355152      2000        2000            2000  36 months    10.90
## 6820  355179      6025        6025            6025  36 months    16.01
## 6822  355255     12000       12000           12000  36 months    13.58
## 6824  355337     15000       15000           15000  36 months    19.42
## 6834  355611     10000       10000           10000  36 months    10.41
## 6841  355763     25600       25600           25600  36 months     6.71
## 6843  355804     32000       32000           32000  36 months     9.92
## 6858  356351     10000       10000           10000  36 months    14.07
## 6860  356427      6000        6000            6000  36 months    19.42
## 6889  357130     10000       10000           10000  36 months    20.39
## 6891  357142     21000       21000           21000  60 months    19.42
## 6894  357202      1500        1500            1500  36 months     6.71
## 6896  357237      2000        2000            2000  36 months     9.43
## 6899  357282     10000       10000           10000  36 months    10.41
## 6900  357296     12000       12000           12000  36 months     6.71
## 6917  357685     10000       10000           10000  60 months    16.01
## 6919  357740     18000       18000           18000  60 months    14.07
## 6923  357926     17000       17000           17000  60 months    30.65
## 6934  358157     10000       10000           10000  36 months    10.41
## 6941  358246     30000       30000           30000  36 months    21.85
## 6954  358535      6000        6000            6000  36 months     9.43
## 6957  358559     20500       20500           20500  60 months    30.75
## 6960  358604     32000       32000           32000  60 months    13.58
## 6962  358733      2500        2500            2500  36 months     6.71
## 6965  358767     10000       10000           10000  36 months     9.92
## 6971  358937      6000        6000            6000  36 months     7.96
## 6977  359013      6000        6000            6000  36 months    12.61
## 6989  359353      3500        3500            3500  36 months    14.07
## 7001  359526     20000       20000           20000  36 months    10.90
## 7008  359626      3200        3200            3200  36 months    20.39
## 7009  359636     35000       35000           35000  60 months    16.01
## 7012  359646     27000       27000           27000  60 months    10.90
## 7017  359685     40000       40000           40000  60 months    13.58
## 7033  359989      8000        8000            8000  36 months    16.01
## 7037  360037      8500        8500            8500  36 months    16.01
## 7057  360524     30000       30000           30000  60 months    21.85
## 7060  360566      4000        4000            4000  36 months    10.90
## 7064  360720      3500        3500            3500  36 months     7.96
## 7085  361137     20000       20000           20000  60 months    14.07
## 7129  362215     10400       10400           10400  60 months     9.92
## 7138  362482     20000       20000           20000  36 months     9.43
## 7145  362665     10000       10000           10000  60 months    19.42
## 7160  363066     40000       40000           40000  60 months     9.92
## 7174  363421     18575       18575           18575  36 months    26.77
## 7187  363893     13300       13300           13300  36 months    18.45
## 7189  363900     11000       11000           11000  60 months    17.47
## 7215  364487      5000        5000            5000  36 months    10.90
## 7216  364508     30000       30000           30000  36 months     6.07
## 7238  365149     10000       10000           10000  36 months     6.71
## 7266  365665     35000       35000           35000  60 months    18.45
## 7271  365879     10000       10000           10000  36 months     9.43
## 7281  366091      7700        7700            7700  36 months     7.96
## 7284  366118     22625       22625           22625  60 months    30.65
```

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## 7318  366990      5000        5000            5000  36 months     9.92
## 7343  367507     21000       21000           21000  36 months    16.01
## 7354  367758     30000       30000           30000  36 months    14.07
## 7373  368117     21000       21000           21000  36 months     9.43
## 7380  368300     28000       28000           28000  36 months    21.85
## 7382  368327      2000        2000            2000  36 months    16.01
## 7383  368330     12000       12000           12000  36 months     7.96
## 7411  368946     10000       10000           10000  36 months     9.92
## 7439  369512      7200        7200            7200  36 months     7.34
## 7466  370047     35000       35000           35000  36 months    12.61
## 7476  370304      4500        4500            4500  36 months    12.61
## 7521  371199     10000       10000           10000  60 months    15.04
## 7522  371232      6500        6500            6500  36 months     6.71
## 7544  371534      7000        7000            7000  36 months    11.98
## 7548  371593     10000       10000            9975  36 months    17.47
## 7560  372003     16000       16000           16000  36 months    13.58
## 7578  372535      8500        8500            8500  36 months    12.61
## 7581  372557      7000        7000            7000  36 months     7.34
## 7583  372615      6000        6000            6000  36 months    19.42
## 7616  373245     16000       16000           16000  36 months    10.41
## 7628  373429     20000       20000           19975  36 months    18.45
## 7641  373648      5000        5000            5000  36 months     9.92
## 7648  373787     15000       15000           15000  36 months    11.98
## 7664  374221     30000       30000           30000  60 months    21.85
## 7682  374680      2500        2500            2500  36 months     6.71
## 7736  375825     14400       14400           14400  60 months    14.07
## 7750  376196     24000       24000           24000  36 months     7.96
## 7753  376267      6000        6000            6000  36 months    21.85
## 7775  376830      4800        4800            4800  36 months     9.92
## 7785  377016     11000       11000           11000  60 months    20.39
## 7799  377420      7000        7000            7000  36 months    16.01
## 7809  377648      5000        5000            5000  36 months    11.98
## 7810  377662     20000       20000           20000  60 months     7.34
## 7812  377695     30000       30000           30000  36 months     7.96
## 7815  377728     15600       15600           15600  36 months     9.43
## 7825  377880     10350       10350           10350  60 months    25.81
## 7830  378023     24000       24000           24000  36 months    10.90
## 7845  378377      5000        5000            5000  36 months    13.58
## 7863  378700     30000       30000           30000  36 months    19.42
## 7867  378840     10000       10000           10000  36 months    10.90
## 7877  379047     12000       12000           12000  36 months    15.04
## 7886  379293     28000       28000           28000  36 months    18.45
## 7892  379478     15000       15000           15000  36 months    11.98
## 7897  379560     13000       13000           13000  36 months     9.92
## 7906  379845     18000       18000           18000  36 months    10.41
## 7927  380467     30000       30000           30000  36 months    21.85
## 7943  381060     10000       10000           10000  60 months    26.77
## 7970  381546      1200        1200            1200  36 months    21.85
## 7994  382071     10000       10000           10000  36 months    11.98
## 8010  382415     15000       15000           15000  36 months    20.39
## 8016  382577      1600        1600            1600  36 months    13.58
## 8045  383255     15000       15000           15000  60 months    25.81
## 8081  383921     14000       14000           14000  36 months     6.71
## 8090  384113      8400        8400            8400  36 months    11.98
## 8114  384847     15000       15000           15000  60 months    20.39
## 8124  384985      3800        3800            3800  36 months    10.41
## 8131  385242     25375       25375           25375  60 months    11.98
## 8139  385534     32000       32000           32000  36 months    12.61
## 8150  385757     12800       12800           12800  36 months     7.96
## 8158  385863      5000        5000            5000  36 months    14.07
## 8163  385990     22400       22400           22400  36 months    12.61
## 8168  386029     20000       20000           20000  36 months    13.58
## 8191  386480     10000       10000           10000  36 months     9.92
## 8205  386706     20000       20000           19725  36 months    10.90
## 8219  387127     28775       28775           28775  36 months    16.01
## 8225  387294     10000       10000           10000  36 months    16.01
## 8251  387945      5000        5000            5000  36 months     9.43
## 8253  387981     28175       28175           28175  36 months    11.98
## 8263  388239     40000       40000           40000  36 months     9.92
## 8271  388408     16000       16000           16000  60 months    24.84
## 8285  388623     10000       10000           10000  36 months    21.85
## 8296  388762     20000       20000           20000  36 months    23.87
## 8300  388880     35000       35000           35000  36 months     6.71
## 8326  389291      8000        8000            7975  36 months    15.04
## 8343  389662     20000       20000           20000  60 months    13.58
## 8349  389736      8000        8000            8000  36 months    23.87
## 8365  390009     14700       14700           14700  36 months    10.90
## 8381  390361      8500        8500            8500  36 months    10.90
## 8398  390687      3600        3600            3600  36 months    20.39
## 8402  390895      8400        8400            8400  36 months    12.61
## 8422  391268      8000        8000            8000  36 months    11.98
## 8423  391306      4000        4000            4000  36 months    10.41
## 8442  391681      5000        5000            5000  36 months    21.85
## 8458  392057     13500       13500           13500  60 months    28.72
## 8468  392200     10000       10000           10000  36 months    14.07
## 8469  392242      6000        6000            6000  36 months    20.39
## 8486  392503     15000       15000           15000  36 months     9.92
## 8508  392900     18000       18000           18000  60 months    18.45
## 8521  393206     12000       12000           12000  36 months     9.43
## 8527  393290     40000       40000           40000  60 months    15.04
## 8551  393913     12000       12000           12000  60 months    26.77
## 8561  394059     22000       22000           22000  60 months    24.84
## 8591  394601      4000        4000            4000  36 months    11.98
## 8604  394859      3000        3000            3000  36 months    15.04
## 8613  395092     35000       35000           35000  60 months    14.07
## 8615  395099     10000       10000           10000  36 months    11.98
## 8616  395100     15000       15000           15000  36 months     9.92
## 8628  395289     20000       20000           20000  60 months    14.07
```

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## 8629  395297      2500        2500            2500  36 months    12.61
## 8642  395570     15000       15000           15000  36 months     7.34
## 8643  395571     20000       20000           20000  60 months    12.61
## 8650  395729      5800        5800            5800  36 months    21.85
## 8660  395864     28000       28000           28000  60 months    20.39
## 8662  395918     25000       25000           25000  36 months    13.58
## 8683  396396     15000       15000           15000  36 months    14.07
## 8689  396482     36425       36425           36425  60 months    16.01
## 8700  396687     15000       15000           15000  60 months    13.58
## 8703  396715     24250       24250           24250  36 months    15.04
## 8705  396744      3000        3000            3000  36 months    12.61
## 8708  396842     12000       12000           12000  60 months    21.85
## 8731  397234     15000       15000           15000  60 months    19.42
## 8737  397427      3600        3600            3600  36 months     9.43
## 8739  397435     27000       27000           27000  60 months    16.01
## 8744  397506     20000       20000           20000  36 months    21.85
## 8769  397966     30000       30000           30000  36 months    16.01
## 8797  398635     16000       16000           16000  36 months    13.58
## 8818  399068     35000       35000           35000  36 months    14.07
## 8820  399077     27500       27500           27500  36 months    17.47
## 8821  399092     35000       35000           35000  36 months    15.04
## 8837  399537     22800       22800           22800  60 months    21.85
## 8843  399677     16000       16000           16000  36 months     9.92
## 8844  399699     10000       10000           10000  36 months     7.96
## 8848  399813     11200       11200           11200  36 months    14.07
## 8858  399959     25000       25000           25000  36 months    14.07
## 8869  400215      7000        7000            7000  36 months    10.90
## 8881  400448     10000       10000           10000  36 months    15.04
## 8882  400452      3050        3050            3050  36 months     9.43
## 8887  400605      4000        4000            4000  36 months     9.92
## 8892  400671     20425       20425           20425  60 months    24.84
## 8894  400791      6000        6000            5725  36 months    10.41
## 8899  400940     10000       10000           10000  36 months     7.96
## 8903  401064     16000       16000           16000  60 months    25.81
## 8908  401133      9000        9000            9000  36 months    12.61
## 8925  401504      5000        5000            5000  36 months     7.96
## 8932  401610     30000       30000           30000  60 months    24.84
## 8947  401967     19200       19200           19200  60 months    13.58
## 8964  402508     16000       16000           16000  60 months    28.72
## 8986  403049     15000       15000           15000  36 months    10.41
## 9008  403454     30000       30000           30000  60 months    25.81
## 9011  403488     10000       10000           10000  36 months     9.43
## 9013  403495      6000        6000            6000  36 months     9.92
## 9021  403654      7500        7500            7500  36 months     9.92
## 9023  403660     28000       28000           28000  60 months    12.61
## 9054  404310     32000       32000           32000  36 months    14.07
## 9084  404801      8000        8000            8000  36 months    20.39
## 9088  404885      2500        2500            2500  36 months     7.96
## 9129  405648      4000        4000            4000  36 months     7.34
## 9142  405991      7000        7000            7000  36 months     6.71
## 9146  406218     10000       10000           10000  60 months    21.85
## 9168  406661      2000        2000            2000  36 months    15.04
## 9175  406813     14000       14000           14000  36 months    10.90
## 9185  407059     16000       16000           16000  60 months    12.61
## 9191  407218      7500        7500            7500  36 months    10.90
## 9206  407554     40000       40000           40000  60 months     7.34
## 9208  407576     12000       12000           12000  60 months    15.04
## 9235  407914     35000       35000           35000  60 months    21.85
## 9269  408431     20000       20000           20000  60 months    21.85
## 9287  408890     12000       12000           12000  60 months    17.47
## 9313  409458      9600        9600            9600  36 months     9.43
## 9317  409504     10000       10000           10000  36 months    14.07
## 9318  409524      6000        6000            6000  36 months    12.61
## 9322  409544     10000       10000           10000  36 months    15.04
## 9349  410203     12000       12000           12000  60 months    11.98
## 9359  410397      6000        6000            6000  36 months     6.71
## 9360  410500     14000       14000           14000  60 months    20.39
## 9368  410655     38000       38000           38000  60 months    11.98
## 9369  410694     15600       15600           15600  60 months    18.45
## 9389  410992     16000       16000           15750  36 months     9.43
## 9417  411551     10000       10000           10000  60 months    23.88
## 9420  411574     14000       14000           14000  36 months    10.90
## 9423  411663     16000       16000           15975  36 months    13.58
## 9428  411732      6000        6000            6000  36 months    22.90
## 9449  412168     20000       20000           20000  36 months    15.04
## 9490  413205      6000        6000            6000  36 months     6.07
## 9494  413324      3000        3000            3000  36 months    17.47
## 9513  413569     10000       10000           10000  60 months    21.85
## 9518  413736      8000        8000            8000  36 months    14.07
## 9533  413964      2000        2000            2000  36 months    11.98
## 9548  414348     15000       15000           15000  60 months    16.01
## 9561  414581      8000        8000            8000  36 months    10.90
## 9563  414654     26000       26000           26000  60 months    26.77
## 9568  414814     16000       16000           16000  36 months     7.34
## 9576  414981     12800       12800           12800  36 months    13.58
## 9588  415143     11500       11500           11500  36 months    15.04
## 9634  416126      4500        4500            4500  36 months    18.45
## 9645  416328     16000       16000           16000  36 months    13.58
## 9660  416452      6000        6000            6000  36 months    18.45
## 9663  416546      5500        5500            5500  36 months    10.90
## 9675  416742      4200        4200            4200  36 months    15.04
## 9678  416784     13500       13500           13500  60 months    20.39
## 9686  416914      8000        8000            8000  36 months    21.85
## 9707  417353     14400       14400           14400  36 months    12.61
## 9708  417394      8000        8000            8000  36 months    16.01
## 9720  417695     35000       35000           35000  60 months    14.07
## 9724  417771      8000        8000            8000  36 months     9.92
## 9730  417869      9600        9600            9600  36 months    14.07
```

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## 9739  418130     25000       25000           25000  36 months    13.58
## 9749  418390     17750       17750           17750  36 months     6.07
## 9759  418541     18000       18000           18000  36 months    11.98
## 9771  418756     12000       12000           12000  60 months    15.04
## 9802  419769      9000        9000            8975  36 months    10.41
## 9807  419945     20000       20000           20000  36 months    12.61
## 9818  420097     10000       10000           10000  36 months    12.61
## 9822  420228      6000        6000            6000  36 months     9.43
## 9823  420232     12000       12000           12000  60 months    15.04
## 9869  421127      3200        3200            3200  36 months    12.61
## 9885  421331      6200        6200            6200  36 months     9.43
## 9916  421791      5000        5000            5000  36 months    10.90
## 9935  422309     15000       15000           15000  36 months    10.41
## 9965  423049      8500        8500            8500  36 months    10.41
## 9981  423396     35000       35000           34975  36 months    15.04
## 9985  423456      5000        5000            5000  36 months     9.43
## 9986  423457     13000       13000           13000  60 months    10.90
## 10009 423897     12000       12000           12000  36 months     9.92
## 10012 423931      6025        6025            6025  36 months    10.90
## 10027 424130      2500        2500            2500  36 months     9.43
## 10068 425041     11000       11000           11000  36 months    14.07
## 10074 425154      7000        7000            7000  36 months    10.90
## 10076 425189     10000       10000           10000  60 months    10.90
## 10092 425457      8000        8000            8000  36 months    16.01
## 10101 425600     15000       15000           15000  36 months    16.02
## 10124 426079      3000        3000            3000  36 months    17.09
## 10128 426118     30000       30000           30000  36 months    18.45
## 10129 426126      5000        5000            5000  36 months     9.43
## 10141 426454     20000       20000           20000  36 months    17.47
## 10142 426513     40000       40000           40000  36 months     5.31
## 10163 427054     10000       10000            9975  36 months     6.07
## 10165 427083      3200        3200            3200  36 months    16.01
## 10179 427502     10000       10000            9725  36 months    10.41
## 10188 427669      4000        4000            4000  36 months    14.08
## 10210 428068      7800        7800            7800  36 months     6.07
## 10220 428337      3200        3200            3200  36 months    11.98
## 10221 428347      5000        5000            5000  36 months    14.07
## 10240 428747      6400        6400            6400  36 months    11.98
## 10246 428846     30000       30000           30000  60 months    10.90
## 10249 428902     15000       15000           15000  36 months    17.47
## 10262 429128     11000       11000           10975  36 months    12.61
## 10265 429201     15000       15000           15000  36 months     7.96
## 10278 429489     35000       35000           35000  60 months    12.61
## 10288 429767      4500        4500            4500  36 months     6.07
## 10319 430160      4500        4500            4500  36 months     7.35
## 10328 430247     14400       14400           14400  60 months    20.39
## 10329 430267      8400        8400            8400  36 months    18.45
## 10335 430367     12000       12000           12000  60 months    11.98
## 10339 430424     24000       24000           24000  36 months     9.43
## 10366 431155     10000       10000           10000  36 months    21.45
## 10371 431270      5000        5000            5000  36 months    10.41
## 10385 431485      9500        9500            9500  36 months     7.97
## 10387 431501     10000       10000           10000  36 months     6.71
## 10417 432081      5400        5400            5400  36 months    10.42
## 10448 432837     20000       20000           20000  36 months    13.58
## 10449 432844      8000        8000            8000  36 months    11.99
## 10453 432905     35000       35000           35000  36 months    13.59
## 10455 432991      6000        6000            6000  36 months     9.43
## 10460 433044      3200        3200            3200  36 months    13.58
## 10464 433129     10000       10000           10000  60 months    20.39
## 10471 433280      6000        6000            6000  36 months    13.59
## 10482 433442     32875       32875           32875  36 months    14.08
## 10491 433629      1000        1000            1000  36 months    14.07
## 10494 433703     11225       11225           11225  36 months     7.96
## 10508 433977     20000       20000           20000  60 months    13.59
## 10517 434117      6025        6025            6025  36 months    12.62
## 10530 434282      6000        6000            6000  36 months     6.08
## 10532 434323      3600        3600            3600  36 months    11.99
## 10535 434354     24000       24000           24000  60 months    21.85
## 10545 434557     10500       10500           10500  36 months     9.43
## 10570 434997      9600        9600            9600  36 months    21.85
## 10573 435039     13200       13200           13200  36 months    16.01
## 10576 435073      7000        7000            7000  36 months    10.91
## 10579 435151     15000       15000           15000  36 months     9.44
## 10582 435205     11650       11650           11650  60 months    28.72
## 10592 435324      4800        4800            4800  36 months    14.07
## 10595 435360      4000        4000            4000  36 months    16.02
## 10601 435485     10000       10000           10000  36 months     6.08
## 10614 435729     16000       16000           16000  60 months    15.05
## 10620 435792     15000       15000           15000  36 months    11.99
## 10632 436015     20000       20000           20000  60 months    15.05
## 10641 436184      7000        7000            7000  36 months    10.42
## 10646 436312      5000        5000            5000  36 months     7.97
## 10655 436447      8000        8000            8000  36 months     7.35
## 10658 436558      5500        5500            5500  36 months    12.62
## 10661 436602     10000       10000           10000  36 months    13.59
## 10680 436969     11200       11200           11200  60 months    19.03
## 10689 437130     13000       13000           13000  60 months    24.85
##       installment grade sub_grade                                emp_title
## 16          40.98     E        E5                     Warehouse Associate
## 38          33.97     C        C1
## 47         657.72     B        B3                                    Sales
## 77         371.23     D        D3                                president
## 88         586.92     B        B2                                ATTORNEY
## 112        148.50     D        D3                 Senior Financial Analyst
## 133        460.82     C        C1                   Maintenance Technician
## 135        206.44     C        C2
## 145        394.63     B        B3                       Medical assistant
```

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## 169        336.85     B        B5                     Executive Assistant
## 180        467.01     A        A3                          Plant Services
## 191        293.42     A        A2            Executive Director of App Dev
## 208         97.82     B        B2                    Customer Service Rep
## 222        357.01     C        C3                            Claims admin
## 226       1113.69     D        D3                          Sr QA engineer
## 231        288.14     B        B4                               Paralegal
## 243        852.63     E        E1                                 Manager
## 244        166.79     A        A2      Financial services representative 2
## 250        576.31     B        B1                                      RN
## 260        792.59     C        C4                     Forklift technician
## 271         38.92     E        E1                                     LPN
## 277        346.76     C        C3                     Associate Professor
## 284        291.28     C        C3                     P&D delivery driver
## 292        132.48     B        B4                     Executive Assistant
## 295        314.25     A        A4                                   Sales
## 311        591.02     E        E3                  Database administrator
## 355        310.41     D        D4                                 teacher
## 376        609.06     D        D1                     Security Specialist
## 385        539.10     A        A5                       Corporate Manager
## 392        906.77     D        D2                           plant manager
## 400        534.12     C        C5
## 402        619.47     A        A3                  SERGEANT DEPUTY SHERIFF
## 413        259.86     D        D3                                     Rsc
## 421        324.23     B        B1                Administrative assistant
## 423        507.55     D        D1                         process engineer
## 424        528.99     D        D3                         Office Assistant
## 440       1068.24     C        C5   Certified Registered Nurse Anesthetist
## 444        293.01     D        D2                   Instructional Designer
## 509        921.64     C        C1                                Inspector
## 524        383.72     D        D5                                     CCHT
## 542        225.72     D        D4                     Executive Assistant
## 581        357.46     B        B5              Manufacturing technician II
## 593        888.20     D        D1                          General Manager
## 620        203.79     C        C1                            PARTS MANAGER
## 669        888.20     D        D1                       Operations Manager
## 679        201.39     B        B5                           SALES ENGINEER
## 695        595.02     C        C3                       Nurse practitioner
## 698        371.68     A        A3                                   Driver
## 726        339.23     B        B5                            Prison Warden
## 750        246.89     C        C2              Cash operations specialist
## 755        281.81     C        C4                       Substitute Teacher
## 791        250.16     B        B2                                 Doorman
## 796        714.02     C        C3                          Office Manager
## 805        812.21     B        B2              Health Physics Technician
## 806        294.20     D        D3                               supervisor
## 821        450.76     D        D4                                  COURIER
## 837        281.81     C        C4                                 Attorney
## 841        488.96     D        D2
## 843         67.93     C        C1                        Financial Planner
## 860        193.83     B        B1                                     Clerk
## 862         85.46     C        C5                                    Deputy
## 891        123.30     C        C4    Professional Account Sales Associate
## 911        584.79     B        B2                       Warehouse  manager
## 921        456.79     D        D1                       Account executive
## 930        589.81     B        B3                   Field Service Engineer
## 952        350.27     E        E1                      Director Of Quality
## 956        704.53     C        C4                                  driver
## 958        285.25     C        C5                    Maintenance Team Lead
## 967       1232.92     C        C4                                      RN
## 974        321.70     C        C2               Mission support specialist
## 982        165.00     B        B4                               Counselor
## 1014       281.80     B        B3                    Research coordinator
## 1022      1246.28     C        C5                         Managing Director
## 1045       245.82     A        A2          Customer Service Representative
## 1051       665.77     C        C3                           Police Officer
## 1075       310.06     C        C5                   Inside Support Manager
## 1097       232.60     B        B1                                Accounting
## 1099        64.98     B        B2                    Neighborhood Director
## 1104       322.67     C        C1                           Psychologist
## 1107       423.60     B        B1                         mri technologist
## 1119       346.76     C        C3         Inventory Management Specialist
## 1125        38.92     E        E1                        Carpet Technician
## 1166       162.45     B        B2
## 1167       366.26     D        D2                       Compliance Manager
## 1172       352.29     B        B4                    AVP of Revenue Cycle
## 1173       427.30     C        C5                    Operations specialist
## 1175       378.59     A        A5              App Virtualization Engineer
## 1177        67.93     C        C1 Principal Member of Technical Staff, R&D
## 1193       344.07     C        C2                       Facilities Manager
## 1200       575.58     D        D5        Professional liability underwiter
## 1206       183.13     D        D2           Continuous Improvement Manager
## 1223       688.13     C        C2                           Mail carrier
## 1230       507.55     D        D1
## 1238       403.33     F        F1                                     Ogp
## 1245        78.65     B        B3                           Staff sergeant
## 1250      1101.01     C        C2                          Health & Safety
## 1272       131.31     A        A4       Army enterprise service desk agent
## 1282       161.53     B        B1                    Financial Service Rep
## 1283       431.87     D        D4             Software Engineering Manager
## 1298      1151.16     D        D5                             QC Inspector
## 1300       356.08     C        C5
## 1308       368.37     E        E5                                 Operator
## 1321       341.13     B        B2                Licensed practical nurse
## 1322       529.98     E        E4                                 Director
## 1327       366.26     D        D2                              pt advocate
## 1374       181.50     B        B4                Customer Service Manager
## 1378       293.01     D        D2
```

```
## 1385      657.39    D       D4                  SLOT SHIFT SUPERVISOR
## 1411      183.13    D       D2                          Sr. Architect
## 1415      549.39    D       D2         Logistics management specialist
## 1463      422.91    B       B5                        Load Supervisor
## 1517      376.19    D       D4
## 1531      346.92    D       D1                        Parts  manager
## 1598      929.20    A       A3                 Supervisor Electrician
## 1609      323.05    B       B1                               Gen Mgr
## 1638      219.76    D       D2                       Transport Driver
## 1684      289.10    D       D1                           Hairstylist
## 1710       82.50    B       B4                SR. Machanical Designer
## 1713      518.16    D       D2
## 1722      433.63    A       A3       Investment advisor representative
## 1733      286.24    B       B4                           Electrician
## 1742      198.07    A       A1                          Bank Manager
## 1770      693.51    C       C3                                RN pcc
## 1777      122.92    E       E5                          IT Developer
## 1779      264.00    B       B4                        Branch Manager
## 1781      431.42    D       D1                        Safety Director
## 1808      138.27    A       A2                     Sgt denver sheriff
## 1814      925.73    D       D3              Field Service Technician
## 1832      211.36    C       C4          Messaging Service Sr. Advisor
## 1834      974.87    A       A5        Instructional Systems Specialist
## 1841      617.14    C       C4                 engineering technician
## 1858      206.91    D       D4                                  Buyer
## 1872      609.06    D       D1                       Personal Trainer
## 1888      226.14    B       B1        Electrical Utility Designer, Sr.
## 1908      356.08    C       C5                               Carrier
## 1912      414.53    D       D2                             Engr Tech
## 1918      487.86    C       C4                           DEI Manager
## 1923      548.50    A       A1                        Sales Director
## 1931      245.82    A       A2                     Executive Director
## 1940      722.75    D       D1                      nursing assistant
## 1941      634.85    C       C2               Sup Buildings and Grounds
## 1966      647.80    D       D4                        home health aid
## 1967      149.56    C       C5               Supervisor/ installation
## 1969      507.55    D       D1                             Operator 1
## 1993      664.11    A       A5                              carpenter
## 2000      825.00    B       B4
## 2020     1169.58    B       B2                      Senior Researcher
## 2021      464.60    A       A3                     Benefit Specialist
## 2022      457.08    A       A1             Vice President Lead Manager
## 2024      264.00    B       B4                              geeksqad
## 2062      660.00    B       B4                       Category Manager
## 2064      250.11    A       A4                               Teacher
## 2110      619.32    C       C2                        Office Manager
## 2134      343.67    B       B2                        Office Manager
## 2141      602.49    E       E4                            Production
## 2152      285.34    C       C4                             Principal
## 2164      825.00    B       B4                     Operations Manager
## 2188       92.10    D       D5                      Registered nurse
## 2195       78.88    A       A5             Information Systems Manager
## 2205      495.00    B       B4                             Attorney
## 2223      139.38    A       A3                     Operating Engineer
## 2228      275.26    C       C2
## 2237      396.14    A       A1                        Office Manager
## 2266      854.60    C       C5         Senior Divisional Merchandising
## 2269      552.98    C       C1                            Region Mgr
## 2276      761.80    A       A1                  Sales and Operations
## 2282      554.81    C       C3                         911 Dispatcher
## 2291      304.41    D       D3                      flavor technician
## 2299      126.82    C       C4                       Practice Manager
## 2309      421.74    E       E4                Maintenance supervisor
## 2311      346.76    C       C3                       Account Director
## 2317      113.71    B       B2                                Manager
## 2324      983.02    B       B3              Legal Practice Specialist
## 2360      991.15    A       A3                                Manager
## 2366      594.00    B       B4                             Sales lead
## 2372       51.61    C       C2                  Insurance Coordinator
## 2391      413.72    E       E3           Manager, Clinical Operations
## 2451      921.64    C       C1                        Office Manager
## 2466      660.00    B       B4                               manager
## 2487     1204.23    C       C2                       Senior Director
## 2498      281.81    C       C4                        Letter Carrier
## 2507      410.28    B       B1                        Casino Manager
## 2553       91.42    A       A1                               Analyst
## 2570      112.55    A       A4                             Caregiver
## 2573      187.52    C       C2                                 nurse
## 2594      476.01    C       C3                  System Administrator
## 2632      197.78    D       D2                         Sales Manager
## 2644      433.71    E       E2                  School Administrator
## 2665      125.27    F       F1                      Registered Nurse
## 2666      509.03    G       G1                              salesman
## 2680      536.98    B       B2                           Tax Auditor
## 2682      767.44    D       D5                               Manager
## 2688      576.02    C       C1                        Project Manager
## 2697      213.65    C       C5                         office manager
## 2704      247.79    A       A3                               Mechanic
## 2739      259.08    D       D2                            Ground ops
## 2741      267.06    C       C5                  Finance Professional
## 2750      226.14    B       B1                              Director
## 2751      322.58    C       C1                               teacher
## 2754      338.18    C       C4                               Janitor
## 2762      243.85    A       A4                        Lease Operator
## 2764      356.08    C       C5                   Executive Assistant
## 2778      198.00    B       B4                Maintenance Supervisor
## 2802      446.75    C       C2                     Counter Sales Rep
## 2818      368.37    E       E5                       Project Engineer
```

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## 2822       526.55     A        A3                   Appraisal Coordinator
## 2841       543.43     C        C1                              Supervisor
## 2848       330.00     B        B4                              Supervisor
## 2888       660.00     B        B4                                   Owner
## 2922       417.28     D        D5                     Executive Assistant
## 2941        40.46     E        E4                          Account manager
## 2956       596.93     E        E3                        Warehouse Manager
## 2970       276.49     C        C1                                O & M Tech
## 2986       509.47     C        C1                        Systems Developer
## 3006       493.17     C        C4                  IT Support Specialist
## 3030       700.86     A        A1                                 Manager
## 3035       443.85     C        C3                     School Psychologist
## 3044       788.55     E        E2                              Underwriter
## 3048       144.55     D        D1                            Store Manager
## 3063       258.44     B        B1                  Mental Health Specalist
## 3064       389.50     F        F3                              City Carrier
## 3072       242.29     B        B1                       Test Technician II
## 3080       365.89     C        C4                   Customer Service Tech
## 3082       470.26     C        C2                             QA Inspection
## 3097       368.72     A        A2                 Pretreatment Coordinator
## 3098       279.41     C        C2                      wastewater operator
## 3135       150.48     D        D4                             Shop Manager
## 3151       845.43     C        C4                                  manager
## 3153       196.61     B        B3                        Social  services
## 3171       825.00     B        B4                                  Teacher
## 3205       324.89     B        B2                medical program assistant
## 3217       198.76     D        D1                          Insurance Sales
## 3225       309.74     A        A3                              Supervisor
## 3227       388.62     D        D2      director of maintenance and grounds
## 3234       528.40     C        C4                  Senior Graphic Designer
## 3239       218.84     A        A4                                  Manager
## 3247      1047.99     D        D1            Student Assistance Specialist
## 3331      1213.63     C        C3                              IT Director
## 3334       203.79     C        C1                              Supervisor
## 3372       308.00     A        A3                Technical Program Manager
## 3379       328.41     G        G1                    GOVERNMENT CONTRACTOR
## 3393       489.09     C        C1                                Team Lead
## 3395      1040.26     C        C3    GS-12 Inventory Management Specialist
## 3403       308.55     B        B4                         Graphic Designer
## 3410        54.57     D        D2                    Dairy/Frozen Manager
## 3413       753.63     D        D1                 School Business Manager
## 3417       365.89     C        C4
## 3487       579.87     E        E1                      Fild Representative
## 3513       239.98     C        C4               AVP/Information Technology
## 3521       715.88     E        E4                          School teacher
## 3532       641.41     B        B1                Regional Property Manager
## 3558       179.44     D        D1                         boiler enginneer
## 3562       200.19     A        A4                      Production Engineer
## 3571       350.34     A        A4                                 Director
## 3574       144.32     B        B1                        Machine Operator
## 3581       174.53     C        C4
## 3589       144.32     B        B1                        Business Analyst
## 3605       309.88     C        C3                    Waste Water Treatment
## 3630       363.79     D        D2                            Program admin
## 3631       276.32     D        D5
## 3640       762.71     A        A2     Associate Director, Digital Strategy
## 3642       523.59     C        C4                            VP Operations
## 3644       181.90     D        D2                          Diesel Mechanic
## 3653       319.23     B        B2                                       RN
## 3662       665.53     B        B5
## 3663        69.82     C        C4
## 3691       215.33     D        D1                 fitness services manager
## 3713       391.82     B        B4                            Sales Manager
## 3726       791.91     C        C3                            campus patrol
## 3746       418.76     D        D3                 CUSTOMER SERVICE MANAGER
## 3751       327.63     B        B4  Lead operations maintenance technician
## 3757       105.71     F        F2                         Regional Manager
## 3761       338.84     A        A5                      Jail Admininstrator
## 3763       505.85     C        C1                                   Driver
## 3770       566.16     C        C5                        Service Advisor
## 3774       707.70     C        C5                     Service Coordinator
## 3775       505.85     C        C1                                    Owner
## 3786       329.55     C        C3                        Project Manager
## 3809       534.23     D        D4                                     Lead
## 3824       415.96     B        B5                       Financial Advisor
## 3832       227.72     B        B3
## 3845       310.88     A        A4                      Programmer Analyst
## 3864       228.59     D        D3                       Claims Specialist
## 3877       109.14     D        D2                                  Manager
## 3890       393.22     C        C2                               wg-6 step 2
## 3907       269.79     C        C1             Technical Support Technician
## 3918       174.53     C        C4                  Sales account manager
## 3925       195.19     B        B3                          Branch Manager
## 3927       261.80     C        C4                          CMM Technician
## 3945       332.77     B        B5                       Salvage specialist
## 3946      1282.82     B        B1                       Emergency manager
## 3972       163.82     B        B4                        Platoon Sergeant
## 3986        77.72     A        A4
## 3988       267.12     D        D4                                Professor
## 4008      1106.07     D        D3                            VA Counselor
## 4015       186.62     D        D1                               Dietitian
## 4039        78.96     D        D1                                 Analyst
## 4047       859.72     C        C5
## 4056       544.19     B        B4                              suporvisor
## 4076      1180.31     C        C1             Behavioral health specialist
## 4090       698.12     C        C4                                       RN
## 4103       152.55     A        A2                              Rad/CT Tech
## 4160       192.43     B        B1       Marketing Communications Associate
```

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## 4164      376.48    A       A5                          Investigator
## 4188      245.72    B       B4                             accounant
## 4222      320.38    E       E3                            Bus Driver
## 4231     1032.93    C       C3                               MANAGER
## 4236      934.90    D       D4                       Commercial Banker
## 4256      502.65    C       C4                                Teacher
## 4282      196.58    B       B4                                     IT
## 4286      947.15    F       F1                  Sr Executive Assistant
## 4306      681.46    B       B4
## 4308      261.28    C       C3                                    CMA
## 4313      298.91    D       D4                    Mortgage Consultant
## 4355      349.06    C       C4                                   Chef
## 4358      487.97    B       B3                       Driver coordinator
## 4375      566.04    B       B3                        Teacher Assistant
## 4383       64.15    B       B1                                 Soldiet
## 4387      198.73    A       A1                          Credit Analyst
## 4404      457.36    D       D5                           Parts Manager
## 4420      320.71    B       B1                             Furrion LLC
## 4449      260.78    C       C2              Manager of Web Applications
## 4455      341.97    A       A4
## 4463      246.95    B       B1                                 Teacher
## 4490      384.19    C       C2                              IT Manager
## 4495      448.99    B       B1                           Plant Manager
## 4505      390.37    B       B3                            driver cdl A
## 4507      297.17    B       B2                                Manager
## 4540      320.37    C       C1                       Division President
## 4553      141.54    C       C5
## 4579      760.67    B       B2                               Director
## 4591      421.55    A       A1                 Operations Administrator
## 4593      305.58    D       D2                           Outside Sales
## 4599      892.41    B       B5                               President
## 4607      195.26    A       A2                         SeniorTeller ll
## 4636     1331.06    B       B5                          Pharmacy Manager
## 4659       55.85    C       C4                   Package Ops Supervisor
## 4667      168.62    C       C1           Business Relationship Manager
## 4670      195.19    B       B3                     Lead Business Analyst
## 4676      228.17    A       A1                                Journeyman
## 4678      683.52    C       C1                          VP of operations
## 4679      184.35    D       D3                                 Staff RN
## 4687      719.22    B       B4                       Subsea Technician
## 4697      492.80    A       A3                          Office Manager
## 4709      162.66    B       B3                          Owner25 years
## 4725      247.74    D       D5                      Referral Coordinator
## 4741      830.63    E       E5                               Truck Diver
## 4777      803.17    B       B5                       Account Executive
## 4781      279.41    C       C2
## 4796      239.60    B       B5                         Bartender/server
## 4807      984.66    E       E1                               Team leader
## 4808      892.41    B       B5                             Charge Nurse
## 4822      320.71    B       B1                                       Rn
## 4830      481.06    B       B1                             Retro fitter
## 4849      601.50    C       C1                          Delivery/Driver
## 4853      242.86    D       D4                                     Tech
## 4854      195.19    B       B3            Network Engineer Technician 3
## 4859      184.35    D       D3                             truck driver
## 4897     1205.08    C       C3                                    Sales
## 4966      532.04    B       B2                                      CTO
## 4975      491.27    C       C5                                  Officer
## 4991      154.00    A       A3                Senior Financial Analyst
## 5016      251.33    C       C4                                   Driver
## 5020      823.86    C       C3                                  Teacher
## 5024      144.32    B       B1                            Store Manager
## 5026      627.65    D       D1                         Business Manager
## 5040      262.10    B       B4                                President
## 5058      393.15    B       B4                                 hvac tech
## 5078      320.71    B       B1                                 Director
## 5082      542.85    C       C5                     Agency Vice President
## 5092      797.60    D       D2                                  Manager
## 5140      341.76    C       C1                                 mechanic
## 5143      230.00    C       C5        Outreach Specialist/ Care Manager
## 5148      465.88    B       B5                         Owner, President
## 5188      419.11    C       C2                                  Analyst
## 5203      422.00    E       E1                                       RN
## 5214      668.76    E       E5                                  TEACHER
## 5224      199.66    B       B5                      Business Development
## 5229      851.27    B       B2                      Senior Claims Analyst
## 5281      156.66    E       E2                       Aircraft Technician
## 5290      969.01    B       B2                          software engineer
## 5310      104.72    C       C4                          claims specialist
## 5327      143.55    D       D1                         Intake Coordinator
## 5331      387.61    B       B2                           Contract Manager
## 5334      372.55    C       C2                           Lending Officer
## 5335      721.44    C       C4                               voip enginer
## 5336      524.20    B       B4                            Design Manager
## 5349      435.35    B       B4                      Production technician
## 5353      325.31    B       B3                       EMS Helicopter pilot
## 5370     1159.25    A       A1                          commercial banker
## 5381      865.73    C       C4                          Safety Specialist
## 5385      368.45    C       C5
## 5396      320.71    B       B1                       Correctional Officer
## 5408      313.50    C       C2                             Senior Drafter
## 5415      516.81    B       B2                 Loan Servicing Supervisor
## 5424      282.22    B       B1
## 5428      939.54    A       A5                                     owner
## 5450      258.24    C       C3                 Assistant General Manager
## 5474      641.41    B       B1                           Superintendent
## 5480      426.22    F       F1                               adv support
## 5486      163.82    B       B4
```

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## 5509       549.62     D        D3                              Rehab sup
## 5518       152.27     A        A2                        Finance Officer
## 5523       193.81     B        B2          Radiation Protection Supervisor
## 5534       265.64     B        B5                               shipping
## 5536       233.05     C        C3                           Home help aid
## 5541       596.57     E        E4                              Bus driver
## 5551       376.48     A        A5                Supply Chain Coordinator
## 5557       911.95     E        E5                        Personal trainer
## 5562       320.15     D        D5                     Information designer
## 5584       435.35     B        B4                      Distribution driver
## 5588       332.77     B        B5                              Set up tech
## 5598       480.96     C        C4                        Project Manager
## 5599       121.41     C        C1                           Mutuel Assoc
## 5625       221.76     A        A3                       Registered Nurse
## 5626       425.64     B        B2                      MRI technologist
## 5633      1164.68     B        B5                       Pharmacy manager
## 5641       391.82     B        B4                               Analyst
## 5674        93.41     D        D4
## 5693       218.84     C        C2                                Manager
## 5697       261.73     D        D3              Implementation Consultant
## 5704       346.85     C        C4                                Teacher
## 5712       349.65     E        E4                Claims Quality Assurance
## 5761       310.88     A        A4                           AR Supervisor
## 5763       129.21     B        B2     Proposal, Sales Support Coordinator
## 5796       254.65     D        D2                        Leasing Manager
## 5797       627.65     D        D1                           Reservations
## 5800       366.15     B        B4                      Teaching Assistant
## 5808       667.79     D        D4
## 5812       233.16     A        A4                        Legal Secretary
## 5814      1213.98     C        C4                          VP of Finance
## 5819       256.39     D        D2                            QA Manager
## 5824       534.23     D        D4                                manager
## 5833       279.30     A        A4                     Desktop Engineer II
## 5851       401.65     C        C2                               Teachers
## 5857       884.85     D        D3                                   Owner
## 5862       877.73     E        E3                               Educator
## 5866       611.54     C        C2            Business Development Manager
## 5873       227.23     B        B3                   Education specialist
## 5877       169.12     A        A5                                  Sales
## 5891       547.39     C        C3                        Senior Engineer
## 5914       414.92     C        C2                          Senior Pastor
## 5936       974.52     A        A2                                  ADMIN
## 5961       553.04     D        D3                        Registerd nurse
## 5969       398.46     B        B5                      ITA Watch Officer
## 5983       644.60     B        B2                           Receptionist
## 5984       973.81     B        B3                             management
## 5993       313.18     A        A5                         Office Manager
## 5995       251.30     C        C1                                Advisor
## 6016       667.79     D        D4                     Production Assistant
## 6022       416.22     C        C4                        Portfolio manager
## 6026       167.54     C        C1                           archaeologist
## 6040       649.21     B        B3            Physical Security Specialist
## 6042       310.33     A        A4                        Tooling engineer
## 6058       318.12     B        B2                              VP LENDING
## 6067       486.37     E        E5                                CHAPLAIN
## 6081       598.87     A        A4                               Pharmacist
## 6095      1002.18     A        A5                         Vendor Manager
## 6098       358.88     D        D1                         payment poster
## 6103       199.23     B        B5                               DIRECTOR
## 6107       644.09     C        C4                 Phlebotomist Technician
## 6108       368.94     A        A3                dna specialist/caseworker
## 6110       372.88     C        C3                                   Agent
## 6112       416.22     C        C4                              Dept. Mgr
## 6125       186.20     A        A4             Director of Pool Operations
## 6137       896.01     B        B1                                 Driver
## 6143       515.68     B        B2                      Operations Manager
## 6153       339.74     C        C2                           OFFICE MANAGER
## 6166       304.54     A        A2                         Vice President
## 6198       402.08     C        C1                              Supervisor
## 6215       523.45     D        D3                                   Sales
## 6216       156.59     A        A5              Site manager/traffic safety
## 6220       108.72     C        C2                   Preflight electrician
## 6226       333.52     B        B5                     President/Co-Founder
## 6235       268.06     C        C1                                Techican
## 6245       285.85     D        D5
## 6252       299.84     D        D4                      city counter driver
## 6261       384.59     D        D2                        security director
## 6268       254.81     C        C2                                  Laborer
## 6302       759.96     E        E5                             phlebotomist
## 6304       273.70     C        C3                               IT Analyst
## 6331       578.21     D        D5                         Program Manager
## 6337       655.31     D        D5                                 Manager
## 6373      1136.11     B        B3                         Vice President
## 6379       684.24     C        C3                                Mechanic
## 6397       307.45     A        A3                                  Forman
## 6401      1101.67     A        A2                                Director
## 6438       313.18     A        A5                       electrical foreman
## 6442       442.43     D        D3                             Unit Manager
## 6447       636.63     C        C1                         Vice President
## 6450      1026.35     C        C3                                 Surgeon
## 6464       245.96     A        A3                              Machinist
## 6506       267.12     D        D4                               Co owner
## 6513       410.54     C        C3                     Business Development
## 6519       332.05     B        B5                     Fleet Service Clerk
## 6520      1054.86     C        C5                    Import/Export Analyst
## 6580       345.77     C        C2                           Administration
## 6616        54.57     D        D2                     EXECUTIVE ASSISTANT
## 6652      1298.41     B        B3                       Facility Associate
```

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## 6667      879.39    D        D3       Asset Protection Assistant Manager
## 6688      453.39    E        E4                 Budget Systems Manager
## 6693      322.76    C        C2                     Production Worker
## 6727      980.38    B        B5                     Account Executive
## 6732      267.12    D        D4                          Site Manager
## 6735      179.44    D        D1                          Hairstylist
## 6746      430.65    D        D1                           Supervisor
## 6754      116.03    B        B2                        medical biller
## 6770      208.11    C        C4                   Emergency dispatcher
## 6789      474.31    C        C5                     Training Director
## 6803      638.36    E        E5                Accounts Representative
## 6819       65.39    B        B4                        Police officer
## 6820      211.86    C        C5                  Digital Image Support
## 6822      407.69    C        C2                     Cap One Supervisor
## 6824      553.04    D        D3                         Office Manager
## 6834      324.61    B        B3
## 6841      787.07    A        A3                                Manager
## 6843     1031.35    B        B2           Iron foreman /crane operator
## 6858      342.12    C        C3                       Registered Nurse
## 6860      221.22    D        D3                          Lead Mechanic
## 6889      373.63    D        D4
## 6891      549.62    D        D3            Personal marketing Assistant
## 6894       46.12    A        A3                       registered nurse
## 6896       64.01    B        B1                                Courier
## 6899      324.61    B        B3                       Systems engineer
## 6900      368.94    A        A3                                Teacher
## 6917      243.24    C        C5
## 6919      419.49    C        C3                       Dental Hygienist
## 6923      556.82    F        F4                 assistant produce manager
## 6934      324.61    B        B3               Director of Social Services
## 6941     1143.39    D        D5         Assistant Director Website Admin
## 6954      192.01    B        B1                                 TELLER
## 6957      672.72    F        F5                           Meat Manager
## 6960      737.64    C        C2                      Accounting Manager
## 6962       76.87    A        A3                           tire builder
## 6965      322.30    B        B2                              Deli Chef
## 6971      187.91    A        A5                         System Engineer
## 6977      201.04    C        C1                                Director
## 6989      119.75    C        C3                         Legal Assistant
## 7001      653.83    B        B4                             lab manager
## 7008      119.57    D        D4                       registered nurse
## 7009      851.32    C        C5                           Park and Rec
## 7012      585.70    B        B4                    SR Sales Consultant
## 7017      922.05    C        C2                                    SGT
## 7033      281.30    C        C5        Canine physical rehabilitationist
## 7037      298.88    C        C5                      A&P Specialst III
## 7057      826.02    D        D5                    CNA /central supply
## 7060      130.77    B        B4
## 7064      109.62    A        A5                                   Lead
## 7085      466.10    C        C3                                    CEO
## 7129      220.57    B        B2              Marketing Comms Analyst Sr.
## 7138      640.01    B        B1                Aftermarket sales manager
## 7145      261.73    D        D3               Business Banking Assistant
## 7160      848.31    B        B2                         Vice President
## 7174      756.04    E        E5                                Teacher
## 7187      483.84    D        D2                 Clinical Project Manager
## 7189      276.17    D        D1
## 7215      163.46    B        B4
## 7216      913.61    A        A2                     Service Supervisor
## 7238      307.45    A        A3
## 7266      897.37    D        D2                                  Owner
## 7271      320.01    B        B1                              Avp/ mgr
## 7281      241.15    A        A5                       Business Analyst
## 7284      741.06    F        F4                      Corporate Counsel
## 7318      161.15    B        B2                          Medical coder
## 7343      738.41    C        C5                        Project manager
## 7354     1026.35    C        C3                                Manager
## 7373      672.01    B        B1                          Administrator
## 7380     1067.17    D        D5                     Director of Nursing
## 7382       70.33    C        C5                    Medical Technologist
## 7383      375.82    A        A5                      Accounting Manager
## 7411      322.30    B        B2                                Realtor
## 7439      223.44    A        A4                 Satellite/Field Engineer
## 7466     1172.73    C        C1                           Broker Owner
## 7476      150.78    C        C1
## 7521      238.11    C        C4                       Assistant Manager
## 7522      199.85    A        A3                      Account processor
## 7544      232.44    B        B5                         Lead Associate
## 7548      358.88    D        D1                     Border Patrol Agent
## 7560      543.59    C        C2                    UI Design Engineer 2
## 7578      284.81    C        C1                        Engineering Tech
## 7581      217.23    A        A4
## 7583      221.22    D        D3                     Composite mechanic
## 7616      519.37    B        B3                Deputy Chief of Resources
## 7628      727.58    D        D2                                 Attorney
## 7641      161.15    B        B2                               Programmer
## 7648      498.08    B        B5                                President
## 7664      826.02    D        D5                                    Owner
## 7682       76.87    A        A3                           food service
## 7736      335.59    C        C3                     Director of Finance
## 7750      751.63    A        A5                                Director
## 7753      228.68    D        D5         Mail handler/Equipment Operator
## 7775      154.71    B        B2            Assistant body shop manager
## 7785      293.83    D        D4                                Manager
## 7799      246.14    C        C5                                    MSA
## 7809      166.03    B        B5                       Machine operator
## 7810      399.25    A        A4                Senior Director - Finance
## 7812      939.54    A        A5
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## 7815      499.21    B       B1          Senior Audit Manager Analytics
## 7825      308.73    E       E4                      SVP - Healthcare
## 7830      784.60    B       B4                         Beach manager
## 7845      169.87    C       C2                     Medical assistant
## 7863     1106.07    D       D3                        Systems Manager
## 7867      326.92    B       B4             Computer Technology Teacher
## 7877      416.22    C       C4                         Parts manager
## 7886     1018.60    D       D2                         Admin Officer
## 7892      498.08    B       B5                                 Owner
## 7897      418.99    B       B2                   Client Care Provider
## 7906      584.29    B       B3                                Teacher
## 7927     1143.39    D       D5             National Accounts Executive
## 7943      303.99    E       E5                               Officer
## 7970       45.74    D       D5                              Waitress
## 7994      332.05    B       B5            Multi-Line Claims Specialist
## 8010      560.44    D       D4                      Financial analyst
## 8016       54.36    C       C2                                   Emt
## 8045      447.43    E       E4                 Warranty administrator
## 8081      430.43    A       A3                     Technical Director
## 8090      278.92    B       B5                               Assembly
## 8114      400.68    D       D4                         Account Clerk
## 8124      123.35    B       B3                           route driver
## 8131      564.20    B       B5              Business System Consultant
## 8139     1072.21    C       C1    DSS (Database Sustainment Specialist
## 8150      400.87    A       A5                      Aircraft Mechanic
## 8158      171.06    C       C3                    Visual Merchandiser
## 8163      750.55    C       C1                  Relationship Manager
## 8168      679.48    C       C2                                 owner
## 8191      322.30    B       B2                       Service Manager
## 8205      653.83    B       B4          Architecture and Plans Manager
## 8219     1011.79    C       C5
## 8225      351.62    C       C5                         Night Manager
## 8251      160.01    B       B1                               Teacher
## 8253      935.55    B       B5                     Registered Nurse
## 8263     1289.19    B       B2                        Tax Supervisor
## 8271      468.13    E       E3              Central Office Technician
## 8285      381.13    D       D5                   Electrical engineer
## 8296      783.30    E       E2       Director, Quality and Regulatory
## 8300     1076.07    A       A3                             Pharmacist
## 8326      277.48    C       C4                            Supervisor
## 8343      461.03    C       C2               PET/CT Scan Technologist
## 8349      313.32    E       E2                      General Manager
## 8365      480.57    B       B4                                   CTO
## 8381      277.88    B       B4                     Correction officer
## 8398      134.51    D       D4                             Ramp agent
## 8402      281.46    C       C1                               attorney
## 8422      265.64    B       B5           Student Information Assistant
## 8423      129.85    B       B3                            Rig manager
## 8442      190.57    D       D5                        Director of IT
## 8458      426.22    F       F1                     Computer Assistant
## 8468      342.12    C       C3           Community Corrections Officer
## 8469      224.18    D       D4                           Representive
## 8486      483.45    B       B2                        Store manager
## 8508      461.50    D       D2                               LIAISON
## 8521      384.01    B       B1
## 8527      952.44    C       C4                VP of Product Management
## 8551      364.78    E       E5                           Truck Driver
## 8561      643.67    E       E3                           Housekeeping
## 8591      132.82    B       B5                                 Forman
## 8604      104.06    C       C4          chemical dependency councilor
## 8613      815.66    C       C3          Lead Sales Deployment Engineer
## 8615      332.05    B       B5                               teacher
## 8616      483.45    B       B2            Computer operator specialist
## 8628      466.10    C       C3                               Mechanic
## 8629       83.77    C       C1                           Plumbing pro
## 8642      465.50    A       A4                    Assistant Principal
## 8643      451.08    C       C1                        General Manager
## 8650      221.06    D       D5                         Vice President
## 8660      747.92    D       D4                           Truck driver
## 8662      849.35    C       C2                     Claim Services Mgr
## 8683      513.18    C       C3               Administrative Specialist
## 8689      885.98    C       C5                               Seargent
## 8700      345.77    C       C2                             field tech
## 8703      841.11    C       C4                      Registered nurse
## 8705      100.52    C       C1                    Fleet service clerk
## 8708      330.41    D       D5                                 Driver
## 8731      392.59    D       D3                                Manager
## 8737      115.21    B       B1                              associate
## 8739      656.74    C       C5                                  sales
## 8744      762.26    D       D5                                  Owner
## 8769     1054.86    C       C5                     Marine Technician
## 8797      543.59    C       C2                    physician assistant
## 8818     1197.41    C       C3          Sr. Operations and maintenance
## 8820      986.90    D       D1                      Director of sales
## 8821     1213.98    C       C4                                     IT
## 8837      627.77    D       D5                     Executive Director
## 8843      515.68    B       B2                     Managing Principal
## 8844      313.18    A       A5
## 8848      383.18    C       C3                      Echocardiographer
## 8858      855.30    C       C3                  extended family home
## 8869      228.84    B       B4                Senior No Fualt Adjuster
## 8881      346.85    C       C4                           Test Engineer
## 8882       97.61    B       B1                       Account Manager
## 8887      128.92    B       B2                          Truck Driver
## 8892      597.59    E       E3
## 8894      194.77    B       B3                     service technician
## 8899      313.18    A       A5                    Director of nursing
## 8903      477.25    E       E4              Security Shift Supervisor
```

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## 8908       301.56     C        C1                              COunselor
## 8925       156.59     A        A5                            supervisor
## 8932       877.73     E        E3                         Budget Analyst
## 8947       442.59     C        C2                              cjouselor
## 8964       505.15     F        F1       Private Contractor/ Owner Operator
## 8986       486.91     B        B3                                Teacher
## 9008       894.85     E        E4              Licensed Massage Therapist
## 9011       320.01     B        B1                                 Driver
## 9013       193.38     B        B2                       Substitute Teacher
## 9021       241.73     B        B2                                Partner
## 9023       631.51     C        C1                         Legal Assistant
## 9054      1094.78     C        C3                              Consultant
## 9084       298.91     D        D4                       Lead Developer/CTO
## 9088        78.30     A        A5                         Parts Consultant
## 9129       124.14     A        A4           Customer Support Administrator
## 9142       215.22     A        A3         Manager, Client Success Services
## 9146       275.34     D        D5                                Teacher
## 9168        69.37     C        C4                         Police Officer
## 9175       457.68     B        B4                                Teacher
## 9185       360.87     C        C1            Senior Engineering Consultant
## 9191       245.19     B        B4                         Project Manager
## 9206       798.49     A        A4                        Infantry Officer
## 9208       285.74     C        C4                                    CRNA
## 9235       963.68     D        D5                                    Chef
## 9269       550.68     D        D5
## 9287       301.28     D        D1                     Auto Damage adjuster
## 9313       307.21     B        B1         Licensed Mental Health Counselor
## 9317       342.12     C        C3                           Molding tech
## 9318       201.04     C        C1
## 9322       346.85     C        C4                        Senior purchaser
## 9349       266.82     B        B5                                payroll
## 9359       184.47     A        A3                 Customer service manager
## 9360       373.96     D        D4                   Financial consultant
## 9368       844.91     B        B5                              Care Taker
## 9369       399.97     D        D2          Customer Integration Consultant
## 9389       512.01     B        B1                     System Administrator
## 9417       286.99     E        E2           Community Rehabilitative Assoc
## 9420       457.68     B        B4                             Auctioneer
## 9423       543.59     C        C2                  General sales manager
## 9428       231.95     E        E1                              Director
## 9449       693.70     C        C4                   Senior Video Producer
## 9490       182.73     A        A2                          Social Worker
## 9494       107.67     D        D1                     Supervisor /auditor
## 9513       275.34     D        D5                                 Driver
## 9518       273.70     C        C3                 Radiology Technologist
## 9533        66.41     B        B5                             Social Work
## 9548       364.86     C        C5                        process operator
## 9561       261.54     B        B4                             Sr. Analyst
## 9563       790.35     E        E5                           Administrator
## 9568       496.53     A        A4                                     CAS
## 9576       434.87     C        C2                        CNC Line Operator
## 9588       398.88     C        C4                          Lead Technician
## 9634       163.71     D        D2                   Field Service Manager
## 9645       543.59     C        C2                       Customer Service
## 9660       218.28     D        D2                           ASM - Managee
## 9663       179.81     B        B4
## 9675       145.68     C        C4                     IT Support Engineer
## 9678       360.61     D        D4                                Liaison
## 9686       304.91     D        D5              Radiological technologist
## 9707       482.50     C        C1                              Engineer
## 9708       281.30     C        C5                       Inventory manager
## 9720       815.66     C        C3                      Nurse Practitioner
## 9724       257.84     B        B2
## 9730       328.44     C        C3                        Accounts Payable
## 9739       849.35     C        C2                        regional manager
## 9749       540.56     A        A2                        Senior Estiamtor
## 9759       597.69     B        B5                 Ultrasound Technologist
## 9771       285.74     C        C4
## 9802       292.15     B        B3                    Customer Service Rep
## 9807       670.13     C        C1                                   Sales
## 9818       335.07     C        C1                  Customer service staff
## 9822       192.01     B        B1                       Operations Manager
## 9823       285.74     C        C4                         Registered Nurse
## 9869       107.23     C        C1                            House Manager
## 9885       198.41     B        B1                                     RRT
## 9916       163.46     B        B4              Information Quality Analyst
## 9935       486.91     B        B3                           EDI SPECIALIST
## 9965       275.92     B        B3                     Corrections officer
## 9981      1213.98     C        C4                              Supervisor
## 9985       160.01     B        B1                                 Manager
## 9986       282.01     B        B4                              Supervisor
## 10009      386.76     B        B2                         Patient Advocate
## 10012      196.97     B        B4                           Office Manager
## 10027       80.01     B        B1                         Project Director
## 10068      376.33     C        C3              Assistant Marketing Manager
## 10074      228.84     B        B4                             IT Specialist
## 10076      216.93     B        B4         Pharmaceutical Sales Specialist
## 10092      281.30     C        C5                         Client Ops Spec.
## 10101      527.51     C        C5                                     RDH
## 10124      107.10     D        D1                       VP Brand Marketing
## 10128     1091.36     D        D2                 Heavy equipment operator
## 10129      160.01     B        B1                    Regional Director, PM
## 10141      717.75     D        D1                                   Owner
## 10142     1204.42     A        A1                           Parts Director
## 10163      304.54     A        A2                Implementation Consultant
## 10165      112.52     C        C5                           Loan processor
## 10179      324.61     B        B3                                   Biller
## 10188      136.87     C        C3                                 mechanic
```

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## 10210      237.54     A        A2                        Superintendent
## 10220      106.26     B        B5                           Deli Manager
## 10221      171.06     C        C3
## 10240      212.52     B        B5                       registered nurse
## 10246      650.78     B        B4                                Manager
## 10249      538.31     D        D1              Registered Dental Hygienist
## 10262      368.58     C        C1                          Store manager
## 10265      469.77     A        A5                            Coordinator
## 10278      789.39     C        C1                          Director of HR
## 10288      137.05     A        A2                                  Sales
## 10319      139.67     A        A4                   Regional Sales Manager
## 10328      384.65     D        D4                      Association Manager
## 10329      305.58     D        D2                                 Director
## 10335      266.82     B        B5
## 10339      768.01     B        B1       Clinical reimbursement coordinator
## 10366      379.07     D        D5
## 10371      162.31     B        B3                                 Teacher
## 10385      297.57     A        A5                   public health educator
## 10387      307.45     A        A3                                 Teacher
## 10417      175.31     B        B3                               Accountant
## 10448      679.48     C        C2                    Sr. Software Engineer
## 10449      265.68     B        B5                               supervisor
## 10453     1189.26     C        C2
## 10455      192.01     B        B1                        Insurance Agent
## 10460      108.72     C        C2                                   Maid
## 10464      267.12     D        D4                              Logistics
## 10471      203.88     C        C2                               Supervisor
## 10482     1124.87     C        C3                      Government Advisor
## 10491       34.22     C        C3                        registered nurse
## 10494      351.55     A        A5                 Regional Sales Associate
## 10508      461.13     C        C2            Special Agent Law Enforcement
## 10517      201.91     C        C1
## 10530      182.75     A        A2                Sr. Field App. Specialist
## 10532      119.56     B        B5                       Preschool Teacher
## 10535      660.81     D        D5                       Marketing Manager
## 10545      336.01     B        B1                                 Teacher
## 10570      365.89     D        D5        Network Operations Center Analyst
## 10573      464.14     C        C5                               food clerk
## 10576      228.88     B        B4                                   Sales
## 10579      480.08     B        B1                     engineer /designer 4
## 10582      367.81     F        F1                                   Pilot
## 10592      164.22     C        C3                                   Clerk
## 10595      140.67     C        C5                     Pharmaceutical Sales
## 10601      304.59     A        A2                                 Manager
## 10614      381.06     C        C4                               Consultant
## 10620      498.15     B        B5                   Advertising Consultant
## 10632      476.33     C        C4                                 Manager
## 10641      227.26     B        B3                                   Owner
## 10646      156.62     A        A5                     Sr. Account Manager
## 10655      248.30     A        A4                     Asst. Branch Manager
## 10658      184.32     C        C1                             Group Leader
## 10661      339.79     C        C2                    Captain (firefighter)
## 10680      290.72     D        D3                      Quality engineering
## 10689      380.43     E        E3                                Operations
##       emp_length home_ownership annual_inc verification_status  issue_d
## 16       5 years           RENT   40000.00     Source Verified Dec-2018
## 38                     MORTGAGE   28000.00        Not Verified Dec-2018
## 47        1 year           RENT   89000.00        Not Verified Dec-2018
## 77     10+ years           RENT  117000.00        Not Verified Dec-2018
## 88       4 years           RENT  105000.00     Source Verified Dec-2018
## 112      6 years       MORTGAGE  100000.00     Source Verified Dec-2018
## 133      8 years           RENT   65000.00        Not Verified Dec-2018
## 135                    MORTGAGE   17000.00        Not Verified Dec-2018
## 145    10+ years       MORTGAGE   80000.00        Not Verified Dec-2018
## 169    10+ years           RENT   59799.00     Source Verified Dec-2018
## 180    10+ years            OWN   78000.00        Not Verified Dec-2018
## 191    10+ years           RENT  144000.00        Not Verified Dec-2018
## 208    10+ years       MORTGAGE   65000.00        Not Verified Dec-2018
## 222      3 years       MORTGAGE   35000.00     Source Verified Dec-2018
## 226      7 years       MORTGAGE   89000.00        Not Verified Dec-2018
## 231      2 years       MORTGAGE   85000.00     Source Verified Nov-2018
## 243    10+ years           RENT   54000.00     Source Verified Nov-2018
## 244      2 years            OWN   49000.00        Not Verified Nov-2018
## 250      2 years       MORTGAGE   85000.00     Source Verified Nov-2018
## 260      6 years       MORTGAGE   42500.00            Verified Nov-2018
## 271      3 years           RENT   40000.00        Not Verified Nov-2018
## 277    10+ years       MORTGAGE  100000.00        Not Verified Nov-2018
## 284     < 1 year       MORTGAGE   46000.00     Source Verified Nov-2018
## 292    10+ years           RENT   85000.00     Source Verified Nov-2018
## 295    10+ years       MORTGAGE   65000.00        Not Verified Nov-2018
## 311      2 years           RENT   69000.00        Not Verified Nov-2018
## 355      8 years       MORTGAGE   45000.00            Verified Nov-2018
## 376      4 years       MORTGAGE  125000.00            Verified Nov-2018
## 385      8 years       MORTGAGE   90000.00            Verified Nov-2018
## 392      6 years       MORTGAGE  100000.00     Source Verified Nov-2018
## 400     < 1 year       MORTGAGE   90000.00     Source Verified Nov-2018
## 402    10+ years       MORTGAGE  140000.00     Source Verified Nov-2018
## 413      3 years           RENT   60000.00        Not Verified Nov-2018
## 421       1 year            OWN   45000.00     Source Verified Nov-2018
## 423    10+ years       MORTGAGE   95000.00     Source Verified Nov-2018
## 424      6 years       MORTGAGE   79000.00        Not Verified Nov-2018
## 440      8 years       MORTGAGE  230000.00        Not Verified Nov-2018
## 444      2 years       MORTGAGE  140000.00     Source Verified Nov-2018
## 509    10+ years           RENT   70000.00     Source Verified Nov-2018
## 524    10+ years       MORTGAGE   58000.00     Source Verified Nov-2018
## 542      2 years           RENT   59850.00        Not Verified Nov-2018
## 581      2 years       MORTGAGE   67406.56        Not Verified Oct-2018
## 593      7 years       MORTGAGE  102000.00     Source Verified Oct-2018
```

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## 620    10+ years           RENT   73000.00     Source Verified Oct-2018
## 669    10+ years       MORTGAGE  110000.00     Source Verified Oct-2018
## 679      2 years       MORTGAGE  150000.00        Not Verified Oct-2018
## 695      2 years       MORTGAGE  105579.23     Source Verified Oct-2018
## 698      8 years       MORTGAGE   80500.00        Not Verified Oct-2018
## 726    10+ years       MORTGAGE   70000.00     Source Verified Oct-2018
## 750      7 years            OWN   45000.00        Not Verified Oct-2018
## 755       1 year            OWN   40000.00        Not Verified Oct-2018
## 791    10+ years           RENT   50000.00        Not Verified Oct-2018
## 796    10+ years       MORTGAGE   71888.00            Verified Oct-2018
## 805    10+ years           RENT   90000.00            Verified Oct-2018
## 806      8 years       MORTGAGE   65000.00        Not Verified Oct-2018
## 821    10+ years       MORTGAGE   70000.00     Source Verified Oct-2018
## 837      8 years       MORTGAGE   85000.00     Source Verified Oct-2018
## 841                       RENT   29965.32            Verified Oct-2018
## 843      2 years           RENT   75000.00        Not Verified Oct-2018
## 860      6 years       MORTGAGE   56000.00     Source Verified Oct-2018
## 862    10+ years       MORTGAGE   95000.00        Not Verified Oct-2018
## 891    10+ years           RENT   32000.00        Not Verified Oct-2018
## 911      2 years       MORTGAGE   90000.00     Source Verified Oct-2018
## 921    10+ years       MORTGAGE  125000.00            Verified Oct-2018
## 930    10+ years       MORTGAGE  110000.00     Source Verified Oct-2018
## 952      7 years       MORTGAGE  140000.00     Source Verified Oct-2018
## 956      3 years            OWN  104000.00            Verified Oct-2018
## 958    10+ years       MORTGAGE  105000.00        Not Verified Oct-2018
## 967    10+ years       MORTGAGE  160000.00     Source Verified Oct-2018
## 974    10+ years           RENT  106000.00            Verified Oct-2018
## 982      2 years       MORTGAGE   34000.00     Source Verified Oct-2018
## 1014   10+ years           RENT   43000.00        Not Verified Oct-2018
## 1022     6 years       MORTGAGE  500000.00            Verified Oct-2018
## 1045     6 years           RENT   58000.00     Source Verified Sep-2018
## 1051   10+ years       MORTGAGE  110000.00        Not Verified Sep-2018
## 1075   10+ years       MORTGAGE  100000.00     Source Verified Sep-2018
## 1097   10+ years            OWN   50000.00     Source Verified Sep-2018
## 1099     4 years           RENT  113000.00     Source Verified Sep-2018
## 1104     5 years       MORTGAGE   90000.00        Not Verified Sep-2018
## 1107     4 years       MORTGAGE   60000.00     Source Verified Sep-2018
## 1119   10+ years       MORTGAGE   70000.00     Source Verified Sep-2018
## 1125     2 years           RENT   28000.00     Source Verified Sep-2018
## 1166    < 1 year            OWN   62000.00     Source Verified Sep-2018
## 1167    < 1 year       MORTGAGE   70000.00     Source Verified Sep-2018
## 1172   10+ years       MORTGAGE  185000.00     Source Verified Sep-2018
## 1173    < 1 year       MORTGAGE   42000.00     Source Verified Sep-2018
## 1175     7 years       MORTGAGE   97200.00        Not Verified Sep-2018
## 1177     3 years           RENT  157000.00        Not Verified Sep-2018
## 1193     6 years           RENT   70000.00        Not Verified Sep-2018
## 1200   10+ years       MORTGAGE   96000.00     Source Verified Sep-2018
## 1206     3 years       MORTGAGE  136000.00     Source Verified Sep-2018
## 1223   10+ years       MORTGAGE  100000.00     Source Verified Sep-2018
## 1230                   MORTGAGE   56800.00        Not Verified Sep-2018
## 1238     9 years            OWN   35000.00     Source Verified Sep-2018
## 1245   10+ years       MORTGAGE   55000.00     Source Verified Sep-2018
## 1250   10+ years       MORTGAGE   95000.00     Source Verified Sep-2018
## 1272     2 years       MORTGAGE   75000.00     Source Verified Sep-2018
## 1282     3 years       MORTGAGE   60000.00     Source Verified Sep-2018
## 1283     4 years           RENT  165000.00            Verified Sep-2018
## 1298   10+ years           RENT   70000.00            Verified Sep-2018
## 1300                       RENT   32000.00     Source Verified Sep-2018
## 1308     5 years       MORTGAGE   65000.00     Source Verified Sep-2018
## 1321     6 years           RENT   51000.00        Not Verified Sep-2018
## 1322     8 years       MORTGAGE  215000.00            Verified Sep-2018
## 1327   10+ years       MORTGAGE  120000.00            Verified Sep-2018
## 1374   10+ years       MORTGAGE   75000.00     Source Verified Sep-2018
## 1378                   MORTGAGE   48000.00            Verified Sep-2018
## 1385   10+ years       MORTGAGE   32600.00     Source Verified Sep-2018
## 1411      1 year           RENT   92000.00     Source Verified Sep-2018
## 1415   10+ years       MORTGAGE  130600.00        Not Verified Sep-2018
## 1463   10+ years            OWN   72000.00     Source Verified Sep-2018
## 1517                        OWN   82000.00        Not Verified Sep-2018
## 1531     5 years       MORTGAGE   55000.00        Not Verified Sep-2018
## 1598     2 years       MORTGAGE  103219.00     Source Verified Sep-2018
## 1609   10+ years            OWN  105000.00        Not Verified Sep-2018
## 1638    < 1 year       MORTGAGE   62000.00        Not Verified Aug-2018
## 1684     3 years           RENT   58000.00        Not Verified Aug-2018
## 1710      1 year       MORTGAGE   93000.00        Not Verified Aug-2018
## 1713                   MORTGAGE  140000.00     Source Verified Aug-2018
## 1722     7 years       MORTGAGE  225000.00     Source Verified Aug-2018
## 1733      1 year       MORTGAGE   72000.00        Not Verified Aug-2018
## 1742     2 years       MORTGAGE  105000.00        Not Verified Aug-2018
## 1770     3 years       MORTGAGE   76000.00     Source Verified Aug-2018
## 1777     3 years       MORTGAGE  100000.00            Verified Aug-2018
## 1779     2 years       MORTGAGE   43000.00            Verified Aug-2018
## 1781      1 year       MORTGAGE   67000.00            Verified Aug-2018
## 1808   10+ years       MORTGAGE  104000.00     Source Verified Aug-2018
## 1814     2 years           RENT  120000.00        Not Verified Aug-2018
## 1832     2 years            OWN  107000.00     Source Verified Aug-2018
## 1834     3 years       MORTGAGE  120000.00        Not Verified Aug-2018
## 1841   10+ years       MORTGAGE  110000.00     Source Verified Aug-2018
## 1858      1 year           RENT   50000.00     Source Verified Aug-2018
## 1872    < 1 year           RENT   71000.00     Source Verified Aug-2018
## 1888    < 1 year       MORTGAGE  100000.00     Source Verified Aug-2018
## 1908     3 years           RENT   45000.00     Source Verified Aug-2018
## 1912   10+ years           RENT   81630.00        Not Verified Aug-2018
## 1918   10+ years       MORTGAGE  108000.00        Not Verified Aug-2018
## 1923   10+ years       MORTGAGE  200000.00            Verified Aug-2018
## 1931     6 years           RENT   60000.00        Not Verified Aug-2018
## 1940     6 years           RENT   40000.00     Source Verified Aug-2018
## 1941     8 years       MORTGAGE  116000.00     Source Verified Aug-2018
```

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## 1966      1 year            OWN   45057.60        Not Verified Aug-2018
## 1967     5 years            OWN   56000.00     Source Verified Aug-2018
## 1969   10+ years       MORTGAGE   52000.00        Not Verified Aug-2018
## 1993   10+ years       MORTGAGE   93000.00        Not Verified Aug-2018
## 2000    < 1 year           RENT  100000.00        Not Verified Aug-2018
## 2020    < 1 year       MORTGAGE  105000.00            Verified Aug-2018
## 2021      1 year           RENT   95000.00     Source Verified Aug-2018
## 2022    < 1 year       MORTGAGE  120000.00     Source Verified Aug-2018
## 2024   10+ years       MORTGAGE   38000.00            Verified Aug-2018
## 2062    < 1 year       MORTGAGE   80000.00        Not Verified Aug-2018
## 2064   10+ years       MORTGAGE   47000.00     Source Verified Aug-2018
## 2110     2 years           RENT   60000.00        Not Verified Aug-2018
## 2134   10+ years       MORTGAGE   91000.00        Not Verified Aug-2018
## 2141   10+ years            OWN  120000.00        Not Verified Aug-2018
## 2152     4 years       MORTGAGE   85000.00     Source Verified Aug-2018
## 2164     4 years       MORTGAGE  175000.00            Verified Aug-2018
## 2188     4 years       MORTGAGE   72400.00        Not Verified Aug-2018
## 2195   10+ years       MORTGAGE   80000.00     Source Verified Aug-2018
## 2205     5 years       MORTGAGE   85000.00     Source Verified Aug-2018
## 2223   10+ years       MORTGAGE   73000.00        Not Verified Aug-2018
## 2228                   MORTGAGE   55500.00            Verified Aug-2018
## 2237   10+ years       MORTGAGE   68000.00     Source Verified Aug-2018
## 2266   10+ years           RENT  200000.00     Source Verified Aug-2018
## 2269   10+ years           RENT   90000.00     Source Verified Aug-2018
## 2276     4 years            OWN  175000.00        Not Verified Aug-2018
## 2282   10+ years       MORTGAGE   55000.00     Source Verified Aug-2018
## 2291   10+ years       MORTGAGE   56000.00     Source Verified Aug-2018
## 2299   10+ years       MORTGAGE   51900.00     Source Verified Aug-2018
## 2309     5 years           RENT   72000.00     Source Verified Aug-2018
## 2311     5 years       MORTGAGE  270000.00        Not Verified Aug-2018
## 2317   10+ years       MORTGAGE  145000.00        Not Verified Aug-2018
## 2324     4 years            OWN   68000.00     Source Verified Aug-2018
## 2360     8 years           RENT  220000.00     Source Verified Aug-2018
## 2366     4 years           RENT   60000.00     Source Verified Aug-2018
## 2372     2 years       MORTGAGE   30000.00        Not Verified Aug-2018
## 2391     8 years       MORTGAGE   70000.00     Source Verified Aug-2018
## 2451     7 years       MORTGAGE  195000.00            Verified Aug-2018
## 2466     7 years           RENT   61050.00        Not Verified Jul-2018
## 2487     8 years       MORTGAGE  150000.00            Verified Jul-2018
## 2498   10+ years       MORTGAGE   85000.00     Source Verified Jul-2018
## 2507     3 years            OWN   95000.00        Not Verified Jul-2018
## 2553     9 years       MORTGAGE  110606.00        Not Verified Jul-2018
## 2570     4 years           RENT   51800.00     Source Verified Jul-2018
## 2573   10+ years           RENT   57200.00            Verified Jul-2018
## 2594     3 years           RENT   82000.00        Not Verified Jul-2018
## 2632     4 years       MORTGAGE  110000.00            Verified Jul-2018
## 2644     3 years       MORTGAGE   75000.00     Source Verified Jul-2018
## 2665   10+ years       MORTGAGE  100000.00     Source Verified Jul-2018
## 2666     7 years           RENT   75000.00     Source Verified Jul-2018
## 2680   10+ years            OWN   75000.00     Source Verified Jul-2018
## 2682     5 years           RENT   46000.00            Verified Jul-2018
## 2688     3 years       MORTGAGE  185000.00        Not Verified Jul-2018
## 2697   10+ years            OWN   31200.00     Source Verified Jul-2018
## 2704     2 years       MORTGAGE   50148.00        Not Verified Jul-2018
## 2739   10+ years           RENT   61000.00        Not Verified Jul-2018
## 2741     3 years           RENT   48360.00        Not Verified Jul-2018
## 2750     4 years            OWN  123000.00        Not Verified Jul-2018
## 2751   10+ years       MORTGAGE   90000.00     Source Verified Jul-2018
## 2754      1 year            OWN   35000.00     Source Verified Jul-2018
## 2762     5 years       MORTGAGE  120000.00        Not Verified Jul-2018
## 2764      1 year            OWN   55000.00     Source Verified Jul-2018
## 2778     2 years       MORTGAGE  127400.00        Not Verified Jul-2018
## 2802    < 1 year           RENT   36400.00            Verified Jul-2018
## 2818     6 years       MORTGAGE   67500.00            Verified Jul-2018
## 2822      1 year           RENT   70000.00        Not Verified Jul-2018
## 2841    < 1 year           RENT   68000.00     Source Verified Jul-2018
## 2848   10+ years       MORTGAGE   78000.00     Source Verified Jul-2018
## 2888   10+ years            OWN   84000.00        Not Verified Jul-2018
## 2922   10+ years       MORTGAGE  111000.00     Source Verified Jul-2018
## 2941     6 years       MORTGAGE   80000.00     Source Verified Jul-2018
## 2956   10+ years       MORTGAGE   85000.00            Verified Jul-2018
## 2970   10+ years       MORTGAGE   59000.00     Source Verified Jul-2018
## 2986     2 years           RENT   71750.00            Verified Jul-2018
## 3006    < 1 year       MORTGAGE   60000.00     Source Verified Jul-2018
## 3030     5 years       MORTGAGE   85000.00     Source Verified Jul-2018
## 3035     3 years            OWN  150000.00        Not Verified Jul-2018
## 3044     4 years            OWN  100000.00            Verified Jul-2018
## 3048    < 1 year           RENT   43680.00     Source Verified Jul-2018
## 3063    < 1 year       MORTGAGE   55000.00        Not Verified Jul-2018
## 3064     3 years       MORTGAGE   59033.00     Source Verified Jul-2018
## 3072     2 years       MORTGAGE   50000.00     Source Verified Jul-2018
## 3080   10+ years           RENT  100000.00            Verified Jul-2018
## 3082   10+ years       MORTGAGE   86000.00     Source Verified Jul-2018
## 3097     5 years       MORTGAGE   80000.00        Not Verified Jul-2018
## 3098   10+ years       MORTGAGE   90000.00     Source Verified Jul-2018
## 3135     7 years            OWN   40000.00     Source Verified Jul-2018
## 3151     4 years       MORTGAGE   60000.00            Verified Jul-2018
## 3153      1 year            OWN   60000.00     Source Verified Jul-2018
## 3171     4 years           RENT   62000.00     Source Verified Jul-2018
## 3205     8 years            OWN   32000.00     Source Verified Jul-2018
## 3217     5 years           RENT  200000.00        Not Verified Jul-2018
## 3225     4 years       MORTGAGE   72000.00     Source Verified Jul-2018
## 3227   10+ years       MORTGAGE   62000.00        Not Verified Jul-2018
## 3234     3 years           RENT   81375.00        Not Verified Jul-2018
## 3239   10+ years       MORTGAGE   86000.00        Not Verified Jul-2018
## 3247   10+ years       MORTGAGE   72000.00     Source Verified Jul-2018
## 3331     4 years       MORTGAGE  125000.00        Not Verified Jul-2018
## 3334     7 years       MORTGAGE   80000.00            Verified Jul-2018
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## 3372   10+ years       MORTGAGE   74000.00        Not Verified Jul-2018
## 3379     2 years           RENT  135000.00            Verified Jul-2018
## 3393   10+ years           RENT   74880.00     Source Verified Jul-2018
## 3395     6 years       MORTGAGE  148730.20     Source Verified Jul-2018
## 3403     6 years            OWN   65000.00        Not Verified Jul-2018
## 3410   10+ years       MORTGAGE   40000.00            Verified Jul-2018
## 3413   10+ years           RENT   84000.00        Not Verified Jul-2018
## 3417                        OWN   75000.00        Not Verified Jul-2018
## 3487     6 years            OWN  110000.00     Source Verified Jul-2018
## 3513   10+ years            OWN   85000.00        Not Verified Jun-2018
## 3521   10+ years           RENT  111250.00     Source Verified Jun-2018
## 3532    < 1 year            OWN   65000.00     Source Verified Jun-2018
## 3558   10+ years            OWN   70000.00        Not Verified Jun-2018
## 3562   10+ years       MORTGAGE   68000.00     Source Verified Jun-2018
## 3571     2 years            OWN  103000.00     Source Verified Jun-2018
## 3574   10+ years           RENT   37274.00        Not Verified Jun-2018
## 3581                       RENT   30000.00            Verified Jun-2018
## 3589     6 years           RENT   77600.00        Not Verified Jun-2018
## 3605     3 years       MORTGAGE   60000.00     Source Verified Jun-2018
## 3630   10+ years           RENT   48000.00            Verified Jun-2018
## 3631                       RENT   10440.00            Verified Jun-2018
## 3640     2 years           RENT  145000.00        Not Verified Jun-2018
## 3642     6 years       MORTGAGE  113000.00            Verified Jun-2018
## 3644     3 years           RENT   39624.00     Source Verified Jun-2018
## 3653     2 years       MORTGAGE   85000.00        Not Verified Jun-2018
## 3662                       RENT   77000.00        Not Verified Jun-2018
## 3663                   MORTGAGE   89600.00        Not Verified Jun-2018
## 3691   10+ years            OWN   45000.00     Source Verified Jun-2018
## 3713   10+ years       MORTGAGE   93000.00     Source Verified Jun-2018
## 3726   10+ years       MORTGAGE   50000.00     Source Verified Jun-2018
## 3746   10+ years       MORTGAGE   55000.00            Verified Jun-2018
## 3751     2 years       MORTGAGE  115000.00        Not Verified Jun-2018
## 3757   10+ years       MORTGAGE  139992.00        Not Verified Jun-2018
## 3761   10+ years       MORTGAGE   59000.00     Source Verified Jun-2018
## 3763   10+ years           RENT   36000.00        Not Verified Jun-2018
## 3770    < 1 year            OWN   50000.00        Not Verified Jun-2018
## 3774      1 year           RENT   42000.00     Source Verified Jun-2018
## 3775     5 years           RENT   50000.00     Source Verified Jun-2018
## 3786     4 years       MORTGAGE  100203.00            Verified Jun-2018
## 3809     2 years       MORTGAGE   51000.00            Verified Jun-2018
## 3824   10+ years           RENT   65000.00     Source Verified Jun-2018
## 3832                   MORTGAGE   27000.00        Not Verified Jun-2018
## 3845    < 1 year           RENT   90000.00            Verified Jun-2018
## 3864   10+ years           RENT   36000.00     Source Verified Jun-2018
## 3877     2 years       MORTGAGE   65563.00     Source Verified Jun-2018
## 3890     2 years       MORTGAGE   75000.00        Not Verified Jun-2018
## 3907   10+ years            OWN   80000.00        Not Verified Jun-2018
## 3918     3 years       MORTGAGE   35000.00     Source Verified Jun-2018
## 3925     4 years       MORTGAGE   94200.00        Not Verified Jun-2018
## 3927   10+ years       MORTGAGE   46000.00     Source Verified Jun-2018
## 3945     7 years       MORTGAGE   60000.00     Source Verified Jun-2018
## 3946   10+ years       MORTGAGE  109000.00            Verified Jun-2018
## 3972   10+ years           RENT   90000.00     Source Verified Jun-2018
## 3986                   MORTGAGE   35898.00            Verified Jun-2018
## 3988   10+ years       MORTGAGE   69000.00            Verified Jun-2018
## 4008    < 1 year            OWN   38000.00        Not Verified Jun-2018
## 4015     9 years           RENT   54000.00        Not Verified Jun-2018
## 4039     2 years       MORTGAGE   52000.00     Source Verified Jun-2018
## 4047                       RENT   90000.00            Verified Jun-2018
## 4056   10+ years       MORTGAGE  100000.00        Not Verified Jun-2018
## 4076      1 year           RENT   35797.00     Source Verified Jun-2018
## 4090     5 years       MORTGAGE   60000.00        Not Verified Jun-2018
## 4103     4 years       MORTGAGE   95000.00        Not Verified Jun-2018
## 4160     6 years       MORTGAGE   89660.00     Source Verified Jun-2018
## 4164   10+ years           RENT  120000.00        Not Verified Jun-2018
## 4188   10+ years       MORTGAGE  116000.00        Not Verified Jun-2018
## 4222     4 years           RENT   70000.00        Not Verified Jun-2018
## 4231     7 years            OWN  100000.00     Source Verified Jun-2018
## 4236   10+ years            OWN  374000.00     Source Verified Jun-2018
## 4256     2 years            OWN   55000.00            Verified Jun-2018
## 4282     6 years       MORTGAGE  109500.00     Source Verified Jun-2018
## 4286   10+ years       MORTGAGE   91690.00            Verified Jun-2018
## 4306                   MORTGAGE   59000.00        Not Verified Jun-2018
## 4308     4 years           RENT   43000.00            Verified Jun-2018
## 4313   10+ years           RENT   52000.00     Source Verified Jun-2018
## 4355     4 years           RENT   83000.00     Source Verified Jun-2018
## 4358   10+ years            OWN   65000.00        Not Verified Jun-2018
## 4375      1 year           RENT   75345.00        Not Verified Jun-2018
## 4383   10+ years            OWN   75000.00        Not Verified Jun-2018
## 4387    < 1 year           RENT   85000.00     Source Verified Jun-2018
## 4404   10+ years            OWN   52000.00        Not Verified Jun-2018
## 4420     2 years       MORTGAGE  110000.00        Not Verified Jun-2018
## 4449   10+ years            OWN  105000.00        Not Verified Jun-2018
## 4455                   MORTGAGE  100000.00            Verified Jun-2018
## 4463   10+ years       MORTGAGE  125000.00     Source Verified Jun-2018
## 4490   10+ years       MORTGAGE  120000.00     Source Verified Jun-2018
## 4495   10+ years           RENT   65000.00     Source Verified Jun-2018
## 4505      1 year           RENT   52000.00     Source Verified Jun-2018
## 4507     3 years            OWN  120000.00        Not Verified Jun-2018
## 4540      1 year           RENT  140000.00        Not Verified Jun-2018
## 4553                   MORTGAGE   81000.00     Source Verified Jun-2018
## 4579     5 years           RENT  160000.00        Not Verified Jun-2018
## 4591   10+ years       MORTGAGE   83000.00        Not Verified Jun-2018
## 4593     2 years           RENT   50000.00        Not Verified Jun-2018
## 4599   10+ years       MORTGAGE  120000.00     Source Verified Jun-2018
## 4607    < 1 year       MORTGAGE   33000.00        Not Verified Jun-2018
## 4636     6 years       MORTGAGE  140000.00     Source Verified Jun-2018
## 4659     5 years       MORTGAGE   55000.00        Not Verified Jun-2018
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## 4667     6 years       MORTGAGE  140000.00        Not Verified May-2018
## 4670     2 years       MORTGAGE  120000.00     Source Verified Jun-2018
## 4676     4 years       MORTGAGE  130000.00        Not Verified Jun-2018
## 4678     2 years       MORTGAGE  175000.00     Source Verified May-2018
## 4679     6 years       MORTGAGE   75000.00        Not Verified May-2018
## 4687     7 years       MORTGAGE  125000.00     Source Verified Jun-2018
## 4697   10+ years            OWN   95000.00        Not Verified Jun-2018
## 4709    < 1 year            OWN   25000.00        Not Verified May-2018
## 4725     8 years            OWN   40000.00     Source Verified May-2018
## 4741   10+ years       MORTGAGE   80000.00        Not Verified Jun-2018
## 4777   10+ years       MORTGAGE  180880.00     Source Verified May-2018
## 4781                   MORTGAGE   54000.00        Not Verified May-2018
## 4796     8 years           RENT   33000.00     Source Verified May-2018
## 4807   10+ years            OWN  110000.00            Verified May-2018
## 4808   10+ years       MORTGAGE  189900.00     Source Verified May-2018
## 4822      1 year       MORTGAGE  150000.00        Not Verified May-2018
## 4830     3 years       MORTGAGE  119000.00        Not Verified May-2018
## 4849   10+ years       MORTGAGE   95000.00     Source Verified May-2018
## 4853   10+ years       MORTGAGE  120000.00        Not Verified May-2018
## 4854   10+ years            OWN  130000.00        Not Verified May-2018
## 4859     2 years           RENT   60000.00     Source Verified May-2018
## 4897     5 years           RENT   84000.00     Source Verified May-2018
## 4966     8 years       MORTGAGE  112500.00     Source Verified May-2018
## 4975     9 years       MORTGAGE   95000.00     Source Verified May-2018
## 4991     2 years           RENT   90000.00        Not Verified May-2018
## 5016      1 year           RENT 1008000.00     Source Verified May-2018
## 5020     5 years            OWN   75000.00     Source Verified May-2018
## 5024      1 year            OWN   63000.00        Not Verified May-2018
## 5026   10+ years           RENT   86000.00            Verified May-2018
## 5040   10+ years       MORTGAGE   70000.00        Not Verified May-2018
## 5058     2 years           RENT   85000.00     Source Verified May-2018
## 5078   10+ years            OWN   98000.00        Not Verified May-2018
## 5082     2 years       MORTGAGE  100000.00            Verified May-2018
## 5092     2 years       MORTGAGE   66000.00     Source Verified May-2018
## 5140   10+ years       MORTGAGE   99000.00     Source Verified May-2018
## 5143     2 years           RENT   44500.00        Not Verified May-2018
## 5148     6 years           RENT   48000.00            Verified May-2018
## 5188   10+ years       MORTGAGE  105000.00     Source Verified May-2018
## 5203   10+ years       MORTGAGE   85000.00        Not Verified May-2018
## 5214     2 years           RENT   39000.00     Source Verified May-2018
## 5224    < 1 year           RENT   98000.00        Not Verified May-2018
## 5229     7 years       MORTGAGE   80000.00     Source Verified May-2018
## 5281   10+ years       MORTGAGE  100000.00        Not Verified May-2018
## 5290   10+ years           RENT  140000.00            Verified May-2018
## 5310   10+ years            OWN   79000.00            Verified Jun-2018
## 5327     3 years       MORTGAGE   40000.00            Verified May-2018
## 5331    < 1 year       MORTGAGE   70000.00     Source Verified May-2018
## 5334      1 year           RENT   75000.00     Source Verified May-2018
## 5335   10+ years       MORTGAGE   68000.00     Source Verified May-2018
## 5336   10+ years       MORTGAGE   75000.00     Source Verified May-2018
## 5349   10+ years       MORTGAGE   60000.00            Verified May-2018
## 5353   10+ years       MORTGAGE   80000.00     Source Verified May-2018
## 5370     4 years       MORTGAGE  191938.00        Not Verified May-2018
## 5381   10+ years       MORTGAGE   95000.00     Source Verified May-2018
## 5385                       RENT   35000.00        Not Verified May-2018
## 5396     7 years           RENT   85000.00        Not Verified May-2018
## 5408   10+ years           RENT   75000.00     Source Verified May-2018
## 5415    < 1 year       MORTGAGE   81000.00     Source Verified May-2018
## 5424                   MORTGAGE   71000.00        Not Verified May-2018
## 5428   10+ years           RENT   55000.00     Source Verified May-2018
## 5450   10+ years       MORTGAGE  157600.00     Source Verified May-2018
## 5474   10+ years            OWN  145000.00     Source Verified May-2018
## 5480    < 1 year           RENT   38500.00        Not Verified May-2018
## 5486                       RENT   31116.00     Source Verified May-2018
## 5509     7 years       MORTGAGE   95000.00     Source Verified May-2018
## 5518   10+ years            OWN   32000.00        Not Verified May-2018
## 5523   10+ years       MORTGAGE  151000.00     Source Verified May-2018
## 5534     5 years            OWN   60000.00     Source Verified May-2018
## 5536     6 years           RENT   50000.00     Source Verified May-2018
## 5541     6 years           RENT   45000.00     Source Verified May-2018
## 5551     5 years           RENT   88100.00        Not Verified May-2018
## 5557     3 years           RENT   93000.00            Verified May-2018
## 5562    < 1 year           RENT   55000.00        Not Verified May-2018
## 5584     4 years           RENT   90000.00     Source Verified May-2018
## 5588   10+ years       MORTGAGE   60000.00            Verified May-2018
## 5598   10+ years       MORTGAGE   85000.00        Not Verified May-2018
## 5599   10+ years           RENT   84000.00     Source Verified May-2018
## 5625     6 years       MORTGAGE   64000.00        Not Verified May-2018
## 5626   10+ years            OWN  110000.00            Verified May-2018
## 5633     4 years       MORTGAGE  140000.00        Not Verified May-2018
## 5641    < 1 year           RENT   70000.00     Source Verified May-2018
## 5674                   MORTGAGE   34000.00     Source Verified May-2018
## 5693     9 years       MORTGAGE  137000.00        Not Verified May-2018
## 5697     2 years       MORTGAGE   70000.00        Not Verified May-2018
## 5704   10+ years           RENT   55000.00            Verified May-2018
## 5712     2 years           RENT   42000.00            Verified May-2018
## 5761     3 years           RENT   65000.00        Not Verified May-2018
## 5763   10+ years           RENT   62000.00     Source Verified May-2018
## 5796     2 years       MORTGAGE   60000.00     Source Verified May-2018
## 5797   10+ years       MORTGAGE   89000.00        Not Verified May-2018
## 5800     4 years           RENT   30000.00     Source Verified May-2018
## 5808                   MORTGAGE   92000.00            Verified May-2018
## 5812   10+ years           RENT   81500.00        Not Verified May-2018
## 5814     7 years       MORTGAGE  231500.00            Verified May-2018
## 5819   10+ years       MORTGAGE  105000.00        Not Verified May-2018
## 5824     2 years           RENT   85000.00     Source Verified May-2018
## 5833      1 year           RENT   78000.00        Not Verified May-2018
## 5851   10+ years       MORTGAGE  125000.00        Not Verified May-2018
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## 5857      1 year       MORTGAGE   51000.00        Not Verified May-2018
## 5862   10+ years            OWN  200000.00            Verified May-2018
## 5866     2 years       MORTGAGE   84000.00        Not Verified May-2018
## 5873     3 years           RENT   97645.00     Source Verified May-2018
## 5877     6 years            OWN   38000.00        Not Verified May-2018
## 5891     2 years       MORTGAGE  114000.00        Not Verified May-2018
## 5914     9 years       MORTGAGE   97000.00            Verified May-2018
## 5936   10+ years            OWN   80000.00        Not Verified May-2018
## 5961   10+ years            OWN   82000.00     Source Verified May-2018
## 5969     5 years       MORTGAGE  146000.00     Source Verified May-2018
## 5983   10+ years            OWN   48000.00        Not Verified May-2018
## 5984     3 years       MORTGAGE  190000.00     Source Verified May-2018
## 5993     9 years            OWN   80000.00        Not Verified May-2018
## 5995   10+ years       MORTGAGE   65000.00        Not Verified May-2018
## 6016     5 years           RENT   35375.00        Not Verified May-2018
## 6022   10+ years       MORTGAGE  131000.00        Not Verified May-2018
## 6026     6 years       MORTGAGE   62000.00     Source Verified May-2018
## 6040     9 years           RENT   85000.00     Source Verified May-2018
## 6042     2 years       MORTGAGE  110000.00     Source Verified May-2018
## 6058     3 years           RENT  221000.00     Source Verified May-2018
## 6067   10+ years       MORTGAGE   91000.00        Not Verified May-2018
## 6081   10+ years       MORTGAGE  108000.00            Verified May-2018
## 6095     5 years       MORTGAGE  180000.00     Source Verified May-2018
## 6098     7 years       MORTGAGE   33000.00            Verified May-2018
## 6103     8 years           RENT  134000.00        Not Verified May-2018
## 6107      1 year       MORTGAGE   68000.00        Not Verified May-2018
## 6108   10+ years       MORTGAGE   43000.00            Verified May-2018
## 6110     6 years       MORTGAGE   81800.00     Source Verified May-2018
## 6112   10+ years       MORTGAGE   53000.00            Verified May-2018
## 6125     4 years       MORTGAGE   93000.00        Not Verified May-2018
## 6137     5 years       MORTGAGE   92000.00     Source Verified May-2018
## 6143     7 years            OWN  175000.00            Verified May-2018
## 6153     4 years       MORTGAGE   36400.00     Source Verified May-2018
## 6166   10+ years       MORTGAGE  100000.00        Not Verified May-2018
## 6198   10+ years            OWN   69500.00     Source Verified May-2018
## 6215    < 1 year           RENT   65000.00     Source Verified May-2018
## 6216   10+ years       MORTGAGE  103000.00        Not Verified May-2018
## 6220     7 years       MORTGAGE  101000.00     Source Verified May-2018
## 6226   10+ years       MORTGAGE  152400.00        Not Verified May-2018
## 6235     4 years       MORTGAGE  110000.00            Verified May-2018
## 6245                        OWN   37000.00        Not Verified May-2018
## 6252     7 years       MORTGAGE   25000.00            Verified May-2018
## 6261     2 years           RENT  138000.00     Source Verified May-2018
## 6268      1 year           RENT   36000.00     Source Verified May-2018
## 6302      1 year           RENT   27000.00            Verified May-2018
## 6304   10+ years           RENT   93000.00            Verified May-2018
## 6331     5 years       MORTGAGE  118000.00     Source Verified May-2018
## 6337     5 years            OWN   35000.00            Verified May-2018
## 6373    < 1 year       MORTGAGE  350000.00            Verified Apr-2018
## 6379    < 1 year           RENT   65000.00            Verified Apr-2018
## 6397     8 years       MORTGAGE   75000.00     Source Verified May-2018
## 6401   10+ years       MORTGAGE  218000.00            Verified Apr-2018
## 6438   10+ years       MORTGAGE   84000.00     Source Verified Apr-2018
## 6442     2 years       MORTGAGE   48000.00     Source Verified Apr-2018
## 6447     4 years       MORTGAGE  155000.00     Source Verified Apr-2018
## 6450     2 years       MORTGAGE  361000.00     Source Verified Apr-2018
## 6464   10+ years       MORTGAGE   60000.00     Source Verified Apr-2018
## 6506    < 1 year       MORTGAGE   80000.00        Not Verified Apr-2018
## 6513   10+ years       MORTGAGE  101000.00     Source Verified Apr-2018
## 6519   10+ years            OWN  140000.00        Not Verified Apr-2018
## 6520     4 years           RENT   47000.00        Not Verified Apr-2018
## 6580   10+ years       MORTGAGE   40000.00            Verified May-2018
## 6616     5 years           RENT   34000.00            Verified Apr-2018
## 6652   10+ years       MORTGAGE   80000.00            Verified Apr-2018
## 6667     5 years           RENT   59300.00     Source Verified Apr-2018
## 6688     2 years       MORTGAGE   96000.00            Verified Apr-2018
## 6693   10+ years            OWN   45000.00        Not Verified Apr-2018
## 6727   10+ years       MORTGAGE  141000.00            Verified Apr-2018
## 6732    < 1 year           RENT   45000.00            Verified Apr-2018
## 6735     3 years           RENT   66000.00        Not Verified Apr-2018
## 6746   10+ years           RENT   39000.00            Verified Apr-2018
## 6754   10+ years            OWN  190000.00        Not Verified Apr-2018
## 6770   10+ years           RENT   52000.00     Source Verified Apr-2018
## 6789     3 years       MORTGAGE  100000.00            Verified Apr-2018
## 6803   10+ years            OWN   49000.00            Verified Apr-2018
## 6819     2 years       MORTGAGE   60000.00     Source Verified Apr-2018
## 6820     3 years       MORTGAGE   73000.00        Not Verified Apr-2018
## 6822   10+ years       MORTGAGE  100000.00        Not Verified Apr-2018
## 6824   10+ years            OWN   72000.00            Verified Apr-2018
## 6834                   MORTGAGE   62000.00     Source Verified Apr-2018
## 6841      1 year            OWN   78000.00     Source Verified Apr-2018
## 6843      1 year       MORTGAGE   90000.00            Verified Apr-2018
## 6858   10+ years       MORTGAGE   55000.00            Verified Apr-2018
## 6860     2 years           RENT   74880.00     Source Verified Apr-2018
## 6889                       RENT   31872.00        Not Verified Apr-2018
## 6891      1 year           RENT   55000.00        Not Verified Apr-2018
## 6894   10+ years       MORTGAGE  105000.00        Not Verified Apr-2018
## 6896     9 years       MORTGAGE   44000.00        Not Verified Apr-2018
## 6899      1 year       MORTGAGE  110000.00     Source Verified Apr-2018
## 6900     3 years       MORTGAGE   63000.00        Not Verified Apr-2018
## 6917                   MORTGAGE   52500.00        Not Verified Apr-2018
## 6919     2 years           RENT   84000.00     Source Verified Apr-2018
## 6923   10+ years           RENT   32600.00        Not Verified Apr-2018
## 6934     3 years       MORTGAGE   70000.00     Source Verified Apr-2018
## 6941     9 years       MORTGAGE  100000.00            Verified Apr-2018
## 6954     7 years       MORTGAGE   33000.00     Source Verified Apr-2018
## 6957   10+ years       MORTGAGE   83700.00     Source Verified Apr-2018
## 6960   10+ years           RENT   75000.00        Not Verified Apr-2018
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## 6962     5 years       MORTGAGE   60000.00        Not Verified Apr-2018
## 6965     9 years           RENT   37440.00        Not Verified Apr-2018
## 6971     2 years       MORTGAGE  140000.00        Not Verified Apr-2018
## 6977     4 years           RENT   42000.00        Not Verified Apr-2018
## 6989     3 years           RENT   45000.00        Not Verified Apr-2018
## 7001   10+ years       MORTGAGE  122000.00     Source Verified Apr-2018
## 7008     5 years       MORTGAGE   60000.00            Verified Apr-2018
## 7009     2 years            OWN  150000.00     Source Verified Apr-2018
## 7012     4 years       MORTGAGE   55000.00            Verified Apr-2018
## 7017     5 years           RENT   64000.00     Source Verified Apr-2018
## 7033     2 years           RENT   32000.00        Not Verified Apr-2018
## 7037     3 years            OWN  145000.00        Not Verified Apr-2018
## 7057   10+ years            OWN   65000.00     Source Verified Apr-2018
## 7060                       RENT   30000.00        Not Verified Apr-2018
## 7064     8 years       MORTGAGE  110000.00     Source Verified Apr-2018
## 7085     4 years       MORTGAGE   93000.00            Verified Apr-2018
## 7129     9 years       MORTGAGE  103000.00        Not Verified Apr-2018
## 7138     3 years       MORTGAGE  145000.00     Source Verified Apr-2018
## 7145    < 1 year       MORTGAGE  120000.00        Not Verified Apr-2018
## 7160     5 years           RENT  140000.00     Source Verified Apr-2018
## 7174   10+ years       MORTGAGE  102000.00        Not Verified Apr-2018
## 7187    < 1 year           RENT   93000.00     Source Verified Apr-2018
## 7189                       RENT   45000.00        Not Verified Apr-2018
## 7215                        OWN   33000.00     Source Verified Apr-2018
## 7216   10+ years       MORTGAGE   72000.00     Source Verified Apr-2018
## 7238                       RENT   72988.00        Not Verified Apr-2018
## 7266      1 year           RENT   85000.00     Source Verified Apr-2018
## 7271   10+ years            OWN  107500.00        Not Verified Apr-2018
## 7281    < 1 year       MORTGAGE   65509.00     Source Verified Apr-2018
## 7284    < 1 year       MORTGAGE  205000.00     Source Verified Apr-2018
## 7318     2 years       MORTGAGE   80000.00     Source Verified Apr-2018
## 7343     6 years           RENT   79000.00            Verified Apr-2018
## 7354     5 years            OWN   81000.00     Source Verified Apr-2018
## 7373   10+ years           RENT  109000.00     Source Verified Apr-2018
## 7380      1 year           RENT  100000.00     Source Verified Apr-2018
## 7382     6 years       MORTGAGE   80468.00            Verified Apr-2018
## 7383     6 years       MORTGAGE   57500.00     Source Verified Apr-2018
## 7411   10+ years           RENT  200000.00     Source Verified Apr-2018
## 7439   10+ years           RENT   70000.00        Not Verified Apr-2018
## 7466   10+ years       MORTGAGE  150000.00            Verified Apr-2018
## 7476                        OWN   66700.00        Not Verified Apr-2018
## 7521     5 years           RENT   55000.00            Verified Apr-2018
## 7522     5 years       MORTGAGE   58500.00        Not Verified Apr-2018
## 7544     6 years       MORTGAGE  160000.00     Source Verified Apr-2018
## 7548     4 years       MORTGAGE   74000.00            Verified Apr-2018
## 7560     2 years       MORTGAGE   82400.00     Source Verified Apr-2018
## 7578   10+ years       MORTGAGE   92000.00     Source Verified Apr-2018
## 7581                  MORTGAGE   48000.00            Verified Apr-2018
## 7583     2 years           RENT   38000.00            Verified Apr-2018
## 7616   10+ years       MORTGAGE  160000.00     Source Verified Apr-2018
## 7628     3 years           RENT  280000.00        Not Verified Apr-2018
## 7641     5 years           RENT   55000.00        Not Verified Apr-2018
## 7648   10+ years            OWN   38000.00        Not Verified Apr-2018
## 7664     5 years       MORTGAGE  100000.00     Source Verified Apr-2018
## 7682   10+ years            OWN   12000.00        Not Verified Apr-2018
## 7736     4 years       MORTGAGE  137500.00     Source Verified Apr-2018
## 7750   10+ years       MORTGAGE  153000.00        Not Verified Apr-2018
## 7753   10+ years       MORTGAGE   60000.00            Verified Apr-2018
## 7775     2 years           RENT   61992.00        Not Verified Apr-2018
## 7785     7 years       MORTGAGE   38000.00        Not Verified Apr-2018
## 7799     2 years       MORTGAGE   37000.00     Source Verified Apr-2018
## 7809     6 years           RENT   40000.00        Not Verified Apr-2018
## 7810     6 years           RENT  177000.00     Source Verified Apr-2018
## 7812                  MORTGAGE  160000.00        Not Verified Apr-2018
## 7815     2 years       MORTGAGE  145000.00        Not Verified Apr-2018
## 7825     8 years       MORTGAGE  320000.00     Source Verified Apr-2018
## 7830     6 years       MORTGAGE  125000.00     Source Verified Apr-2018
## 7845     4 years           RENT   44000.00     Source Verified Apr-2018
## 7863     2 years       MORTGAGE  115210.00     Source Verified Apr-2018
## 7867   10+ years            OWN   55040.00     Source Verified Apr-2018
## 7877     5 years            OWN   36000.00        Not Verified Apr-2018
## 7886   10+ years       MORTGAGE   80000.00            Verified Apr-2018
## 7892   10+ years       MORTGAGE   80000.00            Verified Apr-2018
## 7897   10+ years           RENT   35000.00        Not Verified Apr-2018
## 7906   10+ years       MORTGAGE  123000.00     Source Verified Apr-2018
## 7927     2 years       MORTGAGE  125000.00     Source Verified Apr-2018
## 7943     6 years           RENT  115000.00        Not Verified Apr-2018
## 7970     2 years           RENT   20600.00            Verified Apr-2018
## 7994   10+ years       MORTGAGE   85000.00     Source Verified Apr-2018
## 8010      1 year       MORTGAGE   67000.00            Verified Apr-2018
## 8016     5 years           RENT   80000.00     Source Verified Apr-2018
## 8045     8 years       MORTGAGE   65000.00     Source Verified Apr-2018
## 8081     6 years       MORTGAGE   65000.00        Not Verified Apr-2018
## 8090     2 years           RENT   41000.00     Source Verified Apr-2018
## 8114   10+ years           RENT   45000.00     Source Verified Apr-2018
## 8124     4 years           RENT   46000.00     Source Verified Apr-2018
## 8131   10+ years       MORTGAGE  112761.00        Not Verified Apr-2018
## 8139    < 1 year       MORTGAGE  100704.00     Source Verified Apr-2018
## 8150   10+ years           RENT  112000.00        Not Verified Apr-2018
## 8158     3 years           RENT   30000.00        Not Verified Apr-2018
## 8163   10+ years       MORTGAGE  187000.00            Verified Apr-2018
## 8168     6 years           RENT   75000.00        Not Verified Apr-2018
## 8191     4 years       MORTGAGE  120000.00        Not Verified Apr-2018
## 8205     2 years       MORTGAGE  130000.00     Source Verified Apr-2018
## 8219                       RENT   38000.00            Verified Apr-2018
## 8225    < 1 year           RENT   46238.00     Source Verified Apr-2018
## 8251   10+ years       MORTGAGE   70000.00     Source Verified Mar-2018
## 8253   10+ years       MORTGAGE  250000.00     Source Verified Mar-2018
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## 8263     2 years            OWN  140000.00     Source Verified Mar-2018
## 8271   10+ years           RENT   88000.00            Verified Mar-2018
## 8285     4 years           RENT   81000.00        Not Verified Mar-2018
## 8296     2 years       MORTGAGE  192000.00            Verified Mar-2018
## 8300   10+ years       MORTGAGE  104000.00            Verified Mar-2018
## 8326   10+ years            OWN   35000.00            Verified Mar-2018
## 8343   10+ years       MORTGAGE  110000.00        Not Verified Mar-2018
## 8349     4 years       MORTGAGE   48000.00     Source Verified Mar-2018
## 8365     5 years       MORTGAGE  110000.00     Source Verified Mar-2018
## 8381   10+ years       MORTGAGE   79000.00     Source Verified Mar-2018
## 8398     7 years       MORTGAGE   42161.00     Source Verified Mar-2018
## 8402     2 years           RENT   90000.00        Not Verified Mar-2018
## 8422   10+ years           RENT   52000.00     Source Verified Mar-2018
## 8423     5 years       MORTGAGE  122000.00     Source Verified Mar-2018
## 8442    < 1 year           RENT  110000.00     Source Verified Mar-2018
## 8458      1 year       MORTGAGE   55000.00            Verified Mar-2018
## 8468   10+ years            OWN   62016.00     Source Verified Mar-2018
## 8469      1 year           RENT   37000.00     Source Verified Mar-2018
## 8486   10+ years       MORTGAGE  115000.00        Not Verified Mar-2018
## 8508     8 years       MORTGAGE   80000.00        Not Verified Mar-2018
## 8521                        OWN   80000.00        Not Verified Mar-2018
## 8527     2 years       MORTGAGE  208000.00            Verified Mar-2018
## 8551     7 years       MORTGAGE   56000.00        Not Verified Mar-2018
## 8561   10+ years       MORTGAGE   33000.00            Verified Mar-2018
## 8591   10+ years       MORTGAGE   97000.00        Not Verified Mar-2018
## 8604      1 year       MORTGAGE   47000.00     Source Verified Mar-2018
## 8613     5 years       MORTGAGE   90000.00            Verified Mar-2018
## 8615   10+ years       MORTGAGE   60000.00     Source Verified Mar-2018
## 8616     8 years       MORTGAGE   75000.00        Not Verified Mar-2018
## 8628     2 years       MORTGAGE  110000.00        Not Verified Mar-2018
## 8629     2 years       MORTGAGE   52000.00            Verified Mar-2018
## 8642   10+ years       MORTGAGE  122000.00     Source Verified Mar-2018
## 8643     5 years           RENT   84000.00     Source Verified Mar-2018
## 8650     8 years           RENT  300000.00     Source Verified Mar-2018
## 8660    < 1 year       MORTGAGE   60000.00        Not Verified Mar-2018
## 8662     5 years           RENT   40000.00            Verified Mar-2018
## 8683   10+ years       MORTGAGE  133500.00     Source Verified Mar-2018
## 8689   10+ years       MORTGAGE  110000.00            Verified Mar-2018
## 8700   10+ years           RENT  100002.00        Not Verified Mar-2018
## 8703   10+ years            OWN  125000.00     Source Verified Mar-2018
## 8705   10+ years       MORTGAGE   67000.00            Verified Mar-2018
## 8708     4 years           RENT   45000.00     Source Verified Mar-2018
## 8731   10+ years       MORTGAGE  164200.00     Source Verified Mar-2018
## 8737   10+ years       MORTGAGE   54000.00        Not Verified Mar-2018
## 8739   10+ years            OWN  200000.00            Verified Mar-2018
## 8744   10+ years           RENT   52000.00     Source Verified Mar-2018
## 8769     8 years       MORTGAGE   60000.00            Verified Mar-2018
## 8797     2 years           RENT   93000.00     Source Verified Mar-2018
## 8818     5 years            OWN  105000.00            Verified Mar-2018
## 8820    < 1 year           RENT  230000.00        Not Verified Mar-2018
## 8821     4 years           RENT   56000.00            Verified Mar-2018
## 8837     9 years       MORTGAGE   67000.00     Source Verified Mar-2018
## 8843   10+ years       MORTGAGE  140000.00        Not Verified Mar-2018
## 8844                        OWN   85000.00            Verified Mar-2018
## 8848    < 1 year           RENT   38000.00     Source Verified Mar-2018
## 8858     3 years       MORTGAGE   48252.00        Not Verified Mar-2018
## 8869      1 year       MORTGAGE   45100.00        Not Verified Mar-2018
## 8881   10+ years           RENT   55000.00        Not Verified Mar-2018
## 8882    < 1 year           RENT   36000.00     Source Verified Mar-2018
## 8887     6 years           RENT   55000.00     Source Verified Mar-2018
## 8892                        RENT   43000.00            Verified Mar-2018
## 8894   10+ years       MORTGAGE   44000.00            Verified Mar-2018
## 8899      1 year       MORTGAGE   52000.00     Source Verified Mar-2018
## 8903     2 years           RENT   38000.00            Verified Mar-2018
## 8908     6 years       MORTGAGE   46000.00        Not Verified Mar-2018
## 8925   10+ years            OWN   50000.00     Source Verified Mar-2018
## 8932   10+ years            OWN  105000.00        Not Verified Mar-2018
## 8947   10+ years       MORTGAGE   82145.00            Verified Mar-2018
## 8964     4 years           RENT   80000.00        Not Verified Mar-2018
## 8986     3 years       MORTGAGE   52100.00     Source Verified Mar-2018
## 9008      1 year           RENT   79000.00     Source Verified Mar-2018
## 9011    < 1 year           RENT   38000.00     Source Verified Mar-2018
## 9013   10+ years            OWN   30000.00        Not Verified Mar-2018
## 9021   10+ years       MORTGAGE  131000.00     Source Verified Mar-2018
## 9023     4 years           RENT   40000.00     Source Verified Mar-2018
## 9054     4 years       MORTGAGE  190000.00     Source Verified Mar-2018
## 9084     7 years           RENT   90000.00            Verified Mar-2018
## 9088     8 years       MORTGAGE   70000.00        Not Verified Mar-2018
## 9129   10+ years           RENT   37294.00        Not Verified Mar-2018
## 9142     4 years       MORTGAGE  128000.00        Not Verified Mar-2018
## 9146     6 years       MORTGAGE   67000.00        Not Verified Mar-2018
## 9168   10+ years       MORTGAGE   75000.00            Verified Mar-2018
## 9175     3 years       MORTGAGE   70000.00        Not Verified Mar-2018
## 9185     4 years       MORTGAGE  100000.00        Not Verified Mar-2018
## 9191     4 years       MORTGAGE   84000.00        Not Verified Mar-2018
## 9206   10+ years       MORTGAGE  125000.00     Source Verified Mar-2018
## 9208    < 1 year           RENT  155000.00        Not Verified Mar-2018
## 9235     5 years            OWN   40000.00            Verified Mar-2018
## 9269                        OWN   63000.00        Not Verified Mar-2018
## 9287      1 year       MORTGAGE   60000.00            Verified Mar-2018
## 9313     8 years       MORTGAGE  110000.00        Not Verified Mar-2018
## 9317    < 1 year       MORTGAGE  132090.00        Not Verified Mar-2018
## 9318                   MORTGAGE   26928.00        Not Verified Mar-2018
## 9322     3 years           RENT  132000.00     Source Verified Mar-2018
## 9349   10+ years       MORTGAGE   45000.00     Source Verified Mar-2018
## 9359     3 years           RENT   70000.00     Source Verified Mar-2018
## 9360   10+ years       MORTGAGE   83000.00            Verified Mar-2018
## 9368     7 years       MORTGAGE   49900.00            Verified Mar-2018
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## 9369   10+ years       MORTGAGE   67839.84            Verified Mar-2018
## 9389   10+ years       MORTGAGE  185000.00     Source Verified Mar-2018
## 9417     5 years           RENT   32900.00     Source Verified Mar-2018
## 9420   10+ years       MORTGAGE   95000.00        Not Verified Mar-2018
## 9423     5 years       MORTGAGE  106000.00            Verified Mar-2018
## 9428   10+ years       MORTGAGE   93000.00        Not Verified Mar-2018
## 9449     3 years           RENT  150000.00        Not Verified Mar-2018
## 9490     3 years           RENT   43500.00        Not Verified Mar-2018
## 9494     4 years           RENT  150000.00        Not Verified Mar-2018
## 9513      1 year       MORTGAGE   60000.00     Source Verified Mar-2018
## 9518   10+ years       MORTGAGE   77000.00        Not Verified Mar-2018
## 9533    < 1 year       MORTGAGE   55000.00            Verified Mar-2018
## 9548   10+ years       MORTGAGE  100000.00            Verified Mar-2018
## 9561   10+ years       MORTGAGE   90000.00        Not Verified Mar-2018
## 9563     3 years       MORTGAGE   52000.00     Source Verified Mar-2018
## 9568     7 years       MORTGAGE   88000.00     Source Verified Mar-2018
## 9576     5 years       MORTGAGE   60000.00        Not Verified Mar-2018
## 9588   10+ years       MORTGAGE   85000.00            Verified Mar-2018
## 9634   10+ years       MORTGAGE   85000.00        Not Verified Mar-2018
## 9645   10+ years           RENT   48600.00     Source Verified Mar-2018
## 9660   10+ years       MORTGAGE   55000.00            Verified Mar-2018
## 9663                       RENT   23256.00            Verified Mar-2018
## 9675     2 years           RENT   98500.00     Source Verified Mar-2018
## 9678     2 years           RENT   62500.00        Not Verified Mar-2018
## 9686   10+ years       MORTGAGE   65000.00     Source Verified Mar-2018
## 9707   10+ years       MORTGAGE  130000.00     Source Verified Mar-2018
## 9708    < 1 year           RENT   58000.00     Source Verified Mar-2018
## 9720     6 years       MORTGAGE  105000.00     Source Verified Mar-2018
## 9724                   MORTGAGE   27000.00        Not Verified Mar-2018
## 9730     6 years            OWN   42000.00        Not Verified Mar-2018
## 9739      1 year           RENT  105000.00        Not Verified Mar-2018
## 9749     3 years           RENT  165000.00        Not Verified Mar-2018
## 9759     2 years           RENT   65000.00     Source Verified Mar-2018
## 9771                       RENT   16500.00        Not Verified Mar-2018
## 9802    < 1 year           RENT   36000.00     Source Verified Mar-2018
## 9807      1 year           RENT   55000.00     Source Verified Mar-2018
## 9818   10+ years           RENT   45000.00        Not Verified Mar-2018
## 9822     2 years       MORTGAGE   73500.00     Source Verified Mar-2018
## 9823     2 years           RENT   59000.00     Source Verified Mar-2018
## 9869    < 1 year           RENT   60000.00     Source Verified Mar-2018
## 9885     5 years           RENT   65000.00        Not Verified Mar-2018
## 9916   10+ years       MORTGAGE  840000.00     Source Verified Mar-2018
## 9935    < 1 year            OWN   53000.00            Verified Mar-2018
## 9965   10+ years            OWN   98000.00     Source Verified Mar-2018
## 9981   10+ years            OWN  104000.00     Source Verified Mar-2018
## 9985   10+ years           RENT  115000.00     Source Verified Mar-2018
## 9986     7 years       MORTGAGE   67500.00        Not Verified Mar-2018
## 10009  10+ years           RENT   32000.00        Not Verified Mar-2018
## 10012    8 years       MORTGAGE   40000.00        Not Verified Mar-2018
## 10027     1 year       MORTGAGE  110000.00        Not Verified Mar-2018
## 10068    2 years           RENT   66900.00            Verified Mar-2018
## 10074  10+ years            OWN   80000.00     Source Verified Mar-2018
## 10076    2 years       MORTGAGE   85000.00     Source Verified Mar-2018
## 10092    2 years            OWN   57000.00     Source Verified Mar-2018
## 10101    4 years           RENT   60000.00            Verified Mar-2018
## 10124    3 years       MORTGAGE  250000.00        Not Verified Feb-2018
## 10128    6 years           RENT   90000.00            Verified Mar-2018
## 10129  10+ years            OWN  139000.00        Not Verified Feb-2018
## 10141    4 years            OWN  250000.00     Source Verified Feb-2018
## 10142    6 years       MORTGAGE  157000.00            Verified Feb-2018
## 10163   < 1 year           RENT   60000.00        Not Verified Mar-2018
## 10165    5 years       MORTGAGE   27480.00            Verified Feb-2018
## 10179    4 years            OWN   45000.00        Not Verified Mar-2018
## 10188    9 years           RENT   70000.00     Source Verified Feb-2018
## 10210  10+ years       MORTGAGE   96000.00        Not Verified Feb-2018
## 10220    4 years           RENT   75000.00            Verified Feb-2018
## 10221                       OWN   57000.00            Verified Feb-2018
## 10240    3 years           RENT  146000.00     Source Verified Feb-2018
## 10246    4 years            OWN  140000.00            Verified Feb-2018
## 10249    5 years       MORTGAGE   65000.00     Source Verified Feb-2018
## 10262    2 years           RENT   45000.00        Not Verified Feb-2018
## 10265    8 years       MORTGAGE   70000.00     Source Verified Feb-2018
## 10278     1 year            OWN  115000.00     Source Verified Feb-2018
## 10288    3 years       MORTGAGE   53000.00     Source Verified Feb-2018
## 10319  10+ years       MORTGAGE   68000.00        Not Verified Feb-2018
## 10328     1 year       MORTGAGE   60000.00     Source Verified Feb-2018
## 10329  10+ years       MORTGAGE  180000.00        Not Verified Feb-2018
## 10335                      RENT   50000.00        Not Verified Feb-2018
## 10339     1 year       MORTGAGE   83200.00        Not Verified Feb-2018
## 10366                      RENT   23000.00            Verified Feb-2018
## 10371  10+ years       MORTGAGE   56000.00     Source Verified Feb-2018
## 10385     1 year           RENT   49000.00     Source Verified Feb-2018
## 10387  10+ years       MORTGAGE   70000.00     Source Verified Feb-2018
## 10417    2 years       MORTGAGE   87000.00     Source Verified Feb-2018
## 10448  10+ years       MORTGAGE  103165.00     Source Verified Feb-2018
## 10449    4 years       MORTGAGE   70000.00     Source Verified Feb-2018
## 10453                       OWN   95000.00            Verified Feb-2018
## 10455     1 year       MORTGAGE   75000.00        Not Verified Feb-2018
## 10460  10+ years            OWN   30000.00        Not Verified Feb-2018
## 10464  10+ years       MORTGAGE   89000.00        Not Verified Feb-2018
## 10471     1 year           RENT   60000.00        Not Verified Feb-2018
## 10482  10+ years       MORTGAGE  138500.00            Verified Feb-2018
## 10491    3 years           RENT   60000.00            Verified Feb-2018
## 10494    5 years       MORTGAGE   72000.00        Not Verified Feb-2018
## 10508  10+ years       MORTGAGE   53000.00            Verified Feb-2018
## 10517                       OWN   25000.00            Verified Feb-2018
## 10530    2 years           RENT  110000.00        Not Verified Feb-2018
## 10532    3 years           RENT   30000.00     Source Verified Feb-2018
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## 10535    2 years       MORTGAGE  150000.00            Verified Feb-2018
## 10545  10+ years       MORTGAGE   52000.00        Not Verified Feb-2018
## 10570  10+ years           RENT   60000.00     Source Verified Feb-2018
## 10573  10+ years           RENT   45000.00     Source Verified Feb-2018
## 10576  10+ years           RENT   80000.00        Not Verified Feb-2018
## 10579  10+ years       MORTGAGE   81806.00     Source Verified Feb-2018
## 10582  10+ years       MORTGAGE  465000.00            Verified Feb-2018
## 10592    5 years           RENT   45232.00        Not Verified Feb-2018
## 10595    6 years       MORTGAGE  115000.00            Verified Feb-2018
## 10601    5 years           RENT   60000.00            Verified Feb-2018
## 10614     1 year            OWN   84000.00     Source Verified Feb-2018
## 10620    8 years       MORTGAGE  130000.00        Not Verified Feb-2018
## 10632  10+ years            OWN  135000.00     Source Verified Feb-2018
## 10641  10+ years           RENT   60000.00     Source Verified Feb-2018
## 10646    5 years       MORTGAGE   64000.00        Not Verified Feb-2018
## 10655   < 1 year       MORTGAGE   50000.00        Not Verified Feb-2018
## 10658  10+ years       MORTGAGE   66300.00        Not Verified Feb-2018
## 10661  10+ years            OWN   70000.00        Not Verified Feb-2018
## 10680  10+ years           RENT   60000.00            Verified Feb-2018
## 10689    2 years           RENT   67000.00        Not Verified Feb-2018
##       loan_status pymnt_plan desc            purpose                   title
## 16     Fully Paid          n                  moving   Moving and relocation
## 38     Fully Paid          n      debt_consolidation      Debt consolidation
## 47     Fully Paid          n      debt_consolidation      Debt consolidation
## 77     Fully Paid          n          small_business                Business
## 88     Fully Paid          n             credit_card Credit card refinancing
## 112    Fully Paid          n      debt_consolidation      Debt consolidation
## 133    Fully Paid          n             credit_card Credit card refinancing
## 135   Charged Off          n      debt_consolidation      Debt consolidation
## 145    Fully Paid          n      debt_consolidation      Debt consolidation
## 169    Fully Paid          n      debt_consolidation      Debt consolidation
## 180    Fully Paid          n      debt_consolidation      Debt consolidation
## 191    Fully Paid          n             credit_card Credit card refinancing
## 208    Fully Paid          n             credit_card Credit card refinancing
## 222    Fully Paid          n      debt_consolidation      Debt consolidation
## 226    Fully Paid          n      debt_consolidation      Debt consolidation
## 231    Fully Paid          n                   other                   Other
## 243    Fully Paid          n                   other                   Other
## 244    Fully Paid          n      debt_consolidation      Debt consolidation
## 250    Fully Paid          n      debt_consolidation      Debt consolidation
## 260    Fully Paid          n      debt_consolidation      Debt consolidation
## 271    Fully Paid          n                   other                   Other
## 277    Fully Paid          n             credit_card Credit card refinancing
## 284    Fully Paid          n      debt_consolidation      Debt consolidation
## 292    Fully Paid          n      debt_consolidation      Debt consolidation
## 295    Fully Paid          n      debt_consolidation      Debt consolidation
## 311    Fully Paid          n             credit_card Credit card refinancing
## 355    Fully Paid          n      debt_consolidation      Debt consolidation
## 376    Fully Paid          n      debt_consolidation      Debt consolidation
## 385    Fully Paid          n      debt_consolidation      Debt consolidation
## 392    Fully Paid          n      debt_consolidation      Debt consolidation
## 400    Fully Paid          n                 medical        Medical expenses
## 402    Fully Paid          n          major_purchase          Major purchase
## 413    Fully Paid          n             credit_card Credit card refinancing
## 421    Fully Paid          n             credit_card Credit card refinancing
## 423    Fully Paid          n      debt_consolidation      Debt consolidation
## 424    Fully Paid          n      debt_consolidation      Debt consolidation
## 440    Fully Paid          n          small_business                Business
## 444    Fully Paid          n        home_improvement        Home improvement
## 509    Fully Paid          n      debt_consolidation      Debt consolidation
## 524    Fully Paid          n      debt_consolidation      Debt consolidation
## 542    Fully Paid          n                  moving   Moving and relocation
## 581    Fully Paid          n                  moving   Moving and relocation
## 593    Fully Paid          n      debt_consolidation      Debt consolidation
## 620    Fully Paid          n                   other                   Other
## 669    Fully Paid          n      debt_consolidation      Debt consolidation
## 679    Fully Paid          n          major_purchase          Major purchase
## 695    Fully Paid          n      debt_consolidation      Debt consolidation
## 698    Fully Paid          n      debt_consolidation      Debt consolidation
## 726    Fully Paid          n      debt_consolidation      Debt consolidation
## 750    Fully Paid          n      debt_consolidation      Debt consolidation
## 755    Fully Paid          n      debt_consolidation      Debt consolidation
## 791    Fully Paid          n      debt_consolidation      Debt consolidation
## 796    Fully Paid          n      debt_consolidation      Debt consolidation
## 805    Fully Paid          n      debt_consolidation      Debt consolidation
## 806    Fully Paid          n      debt_consolidation      Debt consolidation
## 821    Fully Paid          n      debt_consolidation      Debt consolidation
## 837    Fully Paid          n                vacation                Vacation
## 841    Fully Paid          n      debt_consolidation      Debt consolidation
## 843    Fully Paid          n             credit_card Credit card refinancing
## 860   Charged Off          n      debt_consolidation      Debt consolidation
## 862    Fully Paid          n        home_improvement        Home improvement
## 891    Fully Paid          n      debt_consolidation      Debt consolidation
## 911    Fully Paid          n        home_improvement        Home improvement
## 921    Fully Paid          n             credit_card Credit card refinancing
## 930    Fully Paid          n             credit_card Credit card refinancing
## 952    Fully Paid          n      debt_consolidation      Debt consolidation
## 956    Fully Paid          n      debt_consolidation      Debt consolidation
## 958    Fully Paid          n      debt_consolidation      Debt consolidation
## 967    Fully Paid          n      debt_consolidation      Debt consolidation
## 974    Fully Paid          n             credit_card Credit card refinancing
## 982    Fully Paid          n                   house             Home buying
## 1014   Fully Paid          n      debt_consolidation      Debt consolidation
## 1022   Fully Paid          n                   other                   Other
## 1045   Fully Paid          n             credit_card Credit card refinancing
## 1051   Fully Paid          n      debt_consolidation      Debt consolidation
## 1075   Fully Paid          n                   other                   Other
## 1097   Fully Paid          n      debt_consolidation      Debt consolidation
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## 1099   Fully Paid          n                   other                   Other
## 1104   Fully Paid          n                     car           Car financing
## 1107   Fully Paid          n                vacation                Vacation
## 1119   Fully Paid          n                     car           Car financing
## 1125   Fully Paid          n             credit_card Credit card refinancing
## 1166   Fully Paid          n      debt_consolidation      Debt consolidation
## 1167   Fully Paid          n      debt_consolidation      Debt consolidation
## 1172   Fully Paid          n      debt_consolidation      Debt consolidation
## 1173   Fully Paid          n      debt_consolidation      Debt consolidation
## 1175   Fully Paid          n      debt_consolidation      Debt consolidation
## 1177   Fully Paid          n                   other                   Other
## 1193   Fully Paid          n      debt_consolidation      Debt consolidation
## 1200   Fully Paid          n      debt_consolidation      Debt consolidation
## 1206   Fully Paid          n                  moving   Moving and relocation
## 1223   Fully Paid          n        home_improvement        Home improvement
## 1230   Fully Paid          n      debt_consolidation      Debt consolidation
## 1238   Fully Paid          n                   house             Home buying
## 1245   Fully Paid          n      debt_consolidation      Debt consolidation
## 1250   Fully Paid          n      debt_consolidation      Debt consolidation
## 1272   Fully Paid          n        home_improvement        Home improvement
## 1282   Fully Paid          n      debt_consolidation      Debt consolidation
## 1283   Fully Paid          n      debt_consolidation      Debt consolidation
## 1298   Fully Paid          n      debt_consolidation      Debt consolidation
## 1300   Fully Paid          n      debt_consolidation      Debt consolidation
## 1308   Fully Paid          n          major_purchase          Major purchase
## 1321   Fully Paid          n             credit_card Credit card refinancing
## 1322   Fully Paid          n      debt_consolidation      Debt consolidation
## 1327   Fully Paid          n      debt_consolidation      Debt consolidation
## 1374   Fully Paid          n      debt_consolidation      Debt consolidation
## 1378   Fully Paid          n                vacation                Vacation
## 1385   Fully Paid          n        home_improvement        Home improvement
## 1411   Fully Paid          n                  moving   Moving and relocation
## 1415   Fully Paid          n      debt_consolidation      Debt consolidation
## 1463   Fully Paid          n      debt_consolidation      Debt consolidation
## 1517   Fully Paid          n        home_improvement        Home improvement
## 1531   Fully Paid          n      debt_consolidation      Debt consolidation
## 1598   Fully Paid          n      debt_consolidation      Debt consolidation
## 1609   Fully Paid          n             credit_card Credit card refinancing
## 1638   Fully Paid          n                vacation                Vacation
## 1684   Fully Paid          n      debt_consolidation      Debt consolidation
## 1710   Fully Paid          n                   other                   Other
## 1713   Fully Paid          n        home_improvement        Home improvement
## 1722   Fully Paid          n             credit_card Credit card refinancing
## 1733   Fully Paid          n      debt_consolidation      Debt consolidation
## 1742   Fully Paid          n      debt_consolidation      Debt consolidation
## 1770   Fully Paid          n      debt_consolidation      Debt consolidation
## 1777   Fully Paid          n                 medical        Medical expenses
## 1779   Fully Paid          n      debt_consolidation      Debt consolidation
## 1781   Fully Paid          n      debt_consolidation      Debt consolidation
## 1808   Fully Paid          n                     car           Car financing
## 1814   Fully Paid          n      debt_consolidation      Debt consolidation
## 1832   Fully Paid          n      debt_consolidation      Debt consolidation
## 1834   Fully Paid          n      debt_consolidation      Debt consolidation
## 1841   Fully Paid          n                   other                   Other
## 1858   Fully Paid          n      debt_consolidation      Debt consolidation
## 1872   Fully Paid          n             credit_card Credit card refinancing
## 1888   Fully Paid          n      debt_consolidation      Debt consolidation
## 1908   Fully Paid          n          major_purchase          Major purchase
## 1912   Fully Paid          n      debt_consolidation      Debt consolidation
## 1918   Fully Paid          n             credit_card Credit card refinancing
## 1923   Fully Paid          n                vacation                Vacation
## 1931   Fully Paid          n             credit_card Credit card refinancing
## 1940   Fully Paid          n      debt_consolidation      Debt consolidation
## 1941   Fully Paid          n      debt_consolidation      Debt consolidation
## 1966   Fully Paid          n        home_improvement        Home improvement
## 1967   Fully Paid          n        home_improvement        Home improvement
## 1969   Fully Paid          n      debt_consolidation      Debt consolidation
## 1993   Fully Paid          n        home_improvement        Home improvement
## 2000   Fully Paid          n      debt_consolidation      Debt consolidation
## 2020   Fully Paid          n      debt_consolidation      Debt consolidation
## 2021   Fully Paid          n      debt_consolidation      Debt consolidation
## 2022   Fully Paid          n             credit_card Credit card refinancing
## 2024   Fully Paid          n      debt_consolidation      Debt consolidation
## 2062   Fully Paid          n      debt_consolidation      Debt consolidation
## 2064   Fully Paid          n        home_improvement        Home improvement
## 2110   Fully Paid          n             credit_card Credit card refinancing
## 2134   Fully Paid          n                   house             Home buying
## 2141   Fully Paid          n      debt_consolidation      Debt consolidation
## 2152   Fully Paid          n             credit_card Credit card refinancing
## 2164   Fully Paid          n          small_business                Business
## 2188   Fully Paid          n        home_improvement        Home improvement
## 2195   Fully Paid          n        home_improvement        Home improvement
## 2205  Charged Off          n      debt_consolidation      Debt consolidation
## 2223   Fully Paid          n        home_improvement        Home improvement
## 2228   Fully Paid          n      debt_consolidation      Debt consolidation
## 2237   Fully Paid          n      debt_consolidation      Debt consolidation
## 2266   Fully Paid          n      debt_consolidation      Debt consolidation
## 2269   Fully Paid          n      debt_consolidation      Debt consolidation
## 2276   Fully Paid          n      debt_consolidation      Debt consolidation
## 2282   Fully Paid          n             credit_card Credit card refinancing
## 2291   Fully Paid          n        home_improvement        Home improvement
## 2299   Fully Paid          n        home_improvement        Home improvement
## 2309   Fully Paid          n      debt_consolidation      Debt consolidation
## 2311   Fully Paid          n      debt_consolidation      Debt consolidation
## 2317   Fully Paid          n        home_improvement        Home improvement
## 2324   Fully Paid          n      debt_consolidation      Debt consolidation
## 2360   Fully Paid          n      debt_consolidation      Debt consolidation
## 2366   Fully Paid          n             credit_card Credit card refinancing
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## 2372   Fully Paid          n                   other                   Other
## 2391   Fully Paid          n      debt_consolidation      Debt consolidation
## 2451   Fully Paid          n      debt_consolidation      Debt consolidation
## 2466   Fully Paid          n      debt_consolidation      Debt consolidation
## 2487   Fully Paid          n      debt_consolidation      Debt consolidation
## 2498   Fully Paid          n                   house             Home buying
## 2507   Fully Paid          n      debt_consolidation      Debt consolidation
## 2553   Fully Paid          n        home_improvement        Home improvement
## 2570   Fully Paid          n      debt_consolidation      Debt consolidation
## 2573   Fully Paid          n      debt_consolidation      Debt consolidation
## 2594   Fully Paid          n      debt_consolidation      Debt consolidation
## 2632   Fully Paid          n      debt_consolidation      Debt consolidation
## 2644   Fully Paid          n      debt_consolidation      Debt consolidation
## 2665   Fully Paid          n                   other                   Other
## 2666   Fully Paid          n      debt_consolidation      Debt consolidation
## 2680  Charged Off          n        home_improvement        Home improvement
## 2682  Charged Off          n      debt_consolidation      Debt consolidation
## 2688   Fully Paid          n      debt_consolidation      Debt consolidation
## 2697   Fully Paid          n      debt_consolidation      Debt consolidation
## 2704   Fully Paid          n      debt_consolidation      Debt consolidation
## 2739   Fully Paid          n      debt_consolidation      Debt consolidation
## 2741   Fully Paid          n          major_purchase          Major purchase
## 2750   Fully Paid          n                   other                   Other
## 2751   Fully Paid          n      debt_consolidation      Debt consolidation
## 2754   Fully Paid          n      debt_consolidation      Debt consolidation
## 2762   Fully Paid          n      debt_consolidation      Debt consolidation
## 2764   Fully Paid          n                 medical        Medical expenses
## 2778   Fully Paid          n             credit_card Credit card refinancing
## 2802   Fully Paid          n      debt_consolidation      Debt consolidation
## 2818   Fully Paid          n             credit_card Credit card refinancing
## 2822   Fully Paid          n          major_purchase          Major purchase
## 2841   Fully Paid          n      debt_consolidation      Debt consolidation
## 2848   Fully Paid          n      debt_consolidation      Debt consolidation
## 2888   Fully Paid          n          major_purchase          Major purchase
## 2922   Fully Paid          n                   other                   Other
## 2941   Fully Paid          n          major_purchase          Major purchase
## 2956   Fully Paid          n      debt_consolidation      Debt consolidation
## 2970   Fully Paid          n      debt_consolidation      Debt consolidation
## 2986   Fully Paid          n      debt_consolidation      Debt consolidation
## 3006   Fully Paid          n      debt_consolidation      Debt consolidation
## 3030   Fully Paid          n      debt_consolidation      Debt consolidation
## 3035  Charged Off          n             credit_card Credit card refinancing
## 3044   Fully Paid          n      debt_consolidation      Debt consolidation
## 3048   Fully Paid          n      debt_consolidation      Debt consolidation
## 3063   Fully Paid          n      debt_consolidation      Debt consolidation
## 3064   Fully Paid          n                   other                   Other
## 3072   Fully Paid          n             credit_card Credit card refinancing
## 3080   Fully Paid          n      debt_consolidation      Debt consolidation
## 3082   Fully Paid          n      debt_consolidation      Debt consolidation
## 3097   Fully Paid          n             credit_card Credit card refinancing
## 3098   Fully Paid          n      debt_consolidation      Debt consolidation
## 3135   Fully Paid          n          major_purchase          Major purchase
## 3151   Fully Paid          n             credit_card Credit card refinancing
## 3153   Fully Paid          n             credit_card Credit card refinancing
## 3171   Fully Paid          n      debt_consolidation      Debt consolidation
## 3205   Fully Paid          n        home_improvement        Home improvement
## 3217   Fully Paid          n      debt_consolidation      Debt consolidation
## 3225   Fully Paid          n      debt_consolidation      Debt consolidation
## 3227   Fully Paid          n      debt_consolidation      Debt consolidation
## 3234   Fully Paid          n      debt_consolidation      Debt consolidation
## 3239   Fully Paid          n             credit_card Credit card refinancing
## 3247   Fully Paid          n      debt_consolidation      Debt consolidation
## 3331   Fully Paid          n                   house             Home buying
## 3334   Fully Paid          n      debt_consolidation      Debt consolidation
## 3372   Fully Paid          n             credit_card Credit card refinancing
## 3379   Fully Paid          n             credit_card Credit card refinancing
## 3393   Fully Paid          n             credit_card Credit card refinancing
## 3395   Fully Paid          n      debt_consolidation      Debt consolidation
## 3403   Fully Paid          n             credit_card Credit card refinancing
## 3410   Fully Paid          n                   other                   Other
## 3413   Fully Paid          n      debt_consolidation      Debt consolidation
## 3417   Fully Paid          n      debt_consolidation      Debt consolidation
## 3487   Fully Paid          n             credit_card Credit card refinancing
## 3513   Fully Paid          n        home_improvement        Home improvement
## 3521  Charged Off          n      debt_consolidation      Debt consolidation
## 3532   Fully Paid          n      debt_consolidation      Debt consolidation
## 3558   Fully Paid          n                   other                   Other
## 3562   Fully Paid          n      debt_consolidation      Debt consolidation
## 3571   Fully Paid          n             credit_card Credit card refinancing
## 3574   Fully Paid          n      debt_consolidation      Debt consolidation
## 3581  Charged Off          n                 medical        Medical expenses
## 3589   Fully Paid          n                   other                   Other
## 3605   Fully Paid          n      debt_consolidation      Debt consolidation
## 3630   Fully Paid          n      debt_consolidation      Debt consolidation
## 3631   Fully Paid          n                vacation                Vacation
## 3640   Fully Paid          n             credit_card Credit card refinancing
## 3642   Fully Paid          n      debt_consolidation      Debt consolidation
## 3644   Fully Paid          n          major_purchase          Major purchase
## 3653   Fully Paid          n        home_improvement        Home improvement
## 3662   Fully Paid          n                  moving   Moving and relocation
## 3663   Fully Paid          n                   other                   Other
## 3691   Fully Paid          n      debt_consolidation      Debt consolidation
## 3713   Fully Paid          n      debt_consolidation      Debt consolidation
## 3726   Fully Paid          n                   other                   Other
## 3746   Fully Paid          n        home_improvement        Home improvement
## 3751   Fully Paid          n             credit_card Credit card refinancing
## 3757  Charged Off          n                   other                   Other
## 3761   Fully Paid          n             credit_card Credit card refinancing
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## 3763   Fully Paid          n      debt_consolidation      Debt consolidation
## 3770   Fully Paid          n             credit_card Credit card refinancing
## 3774  Charged Off          n      debt_consolidation      Debt consolidation
## 3775  Charged Off          n                   house             Home buying
## 3786   Fully Paid          n                   house             Home buying
## 3809  Charged Off          n                   other                   Other
## 3824   Fully Paid          n             credit_card Credit card refinancing
## 3832  Charged Off          n      debt_consolidation      Debt consolidation
## 3845   Fully Paid          n          major_purchase          Major purchase
## 3864   Fully Paid          n             credit_card Credit card refinancing
## 3877  Charged Off          n                vacation                Vacation
## 3890   Fully Paid          n             credit_card Credit card refinancing
## 3907   Fully Paid          n             credit_card Credit card refinancing
## 3918   Fully Paid          n      debt_consolidation      Debt consolidation
## 3925   Fully Paid          n      debt_consolidation      Debt consolidation
## 3927   Fully Paid          n          major_purchase          Major purchase
## 3945  Charged Off          n             credit_card Credit card refinancing
## 3946   Fully Paid          n      debt_consolidation      Debt consolidation
## 3972   Fully Paid          n                   other                   Other
## 3986   Fully Paid          n      debt_consolidation      Debt consolidation
## 3988  Charged Off          n                   other                   Other
## 4008   Fully Paid          n                   other                   Other
## 4015  Charged Off          n      debt_consolidation      Debt consolidation
## 4039   Fully Paid          n      debt_consolidation      Debt consolidation
## 4047  Charged Off          n                   other                   Other
## 4056   Fully Paid          n          small_business                Business
## 4076   Fully Paid          n          major_purchase          Major purchase
## 4090  Charged Off          n      debt_consolidation      Debt consolidation
## 4103   Fully Paid          n        home_improvement        Home improvement
## 4160   Fully Paid          n             credit_card Credit card refinancing
## 4164   Fully Paid          n             credit_card Credit card refinancing
## 4188   Fully Paid          n      debt_consolidation      Debt consolidation
## 4222   Fully Paid          n             credit_card Credit card refinancing
## 4231   Fully Paid          n                   other                   Other
## 4236   Fully Paid          n      debt_consolidation      Debt consolidation
## 4256   Fully Paid          n             credit_card Credit card refinancing
## 4282   Fully Paid          n                   house             Home buying
## 4286   Fully Paid          n      debt_consolidation      Debt consolidation
## 4306   Fully Paid          n      debt_consolidation      Debt consolidation
## 4308  Charged Off          n                   other                   Other
## 4313   Fully Paid          n      debt_consolidation      Debt consolidation
## 4355   Fully Paid          n          major_purchase          Major purchase
## 4358  Charged Off          n      debt_consolidation      Debt consolidation
## 4375  Charged Off          n      debt_consolidation      Debt consolidation
## 4383  Charged Off          n                   house             Home buying
## 4387   Fully Paid          n             credit_card Credit card refinancing
## 4404   Fully Paid          n      debt_consolidation      Debt consolidation
## 4420   Fully Paid          n        home_improvement        Home improvement
## 4449   Fully Paid          n        home_improvement        Home improvement
## 4455   Fully Paid          n                   other                   Other
## 4463   Fully Paid          n             credit_card Credit card refinancing
## 4490   Fully Paid          n      debt_consolidation      Debt consolidation
## 4495   Fully Paid          n      debt_consolidation      Debt consolidation
## 4505   Fully Paid          n                  moving   Moving and relocation
## 4507   Fully Paid          n                     car           Car financing
## 4540   Fully Paid          n                   other                   Other
## 4553   Fully Paid          n      debt_consolidation      Debt consolidation
## 4579   Fully Paid          n      debt_consolidation      Debt consolidation
## 4591   Fully Paid          n      debt_consolidation      Debt consolidation
## 4593   Fully Paid          n      debt_consolidation      Debt consolidation
## 4599   Fully Paid          n             credit_card Credit card refinancing
## 4607   Fully Paid          n                vacation                Vacation
## 4636   Fully Paid          n      debt_consolidation      Debt consolidation
## 4659   Fully Paid          n      debt_consolidation      Debt consolidation
## 4667   Fully Paid          n             credit_card Credit card refinancing
## 4670   Fully Paid          n      debt_consolidation      Debt consolidation
## 4676   Fully Paid          n             credit_card Credit card refinancing
## 4678   Fully Paid          n      debt_consolidation      Debt consolidation
## 4679   Fully Paid          n      debt_consolidation      Debt consolidation
## 4687   Fully Paid          n      debt_consolidation      Debt consolidation
## 4697   Fully Paid          n             credit_card Credit card refinancing
## 4709  Charged Off          n             credit_card Credit card refinancing
## 4725   Fully Paid          n      debt_consolidation      Debt consolidation
## 4741   Fully Paid          n      debt_consolidation      Debt consolidation
## 4777   Fully Paid          n        home_improvement        Home improvement
## 4781   Fully Paid          n      debt_consolidation      Debt consolidation
## 4796   Fully Paid          n      debt_consolidation      Debt consolidation
## 4807   Fully Paid          n      debt_consolidation      Debt consolidation
## 4808  Charged Off          n          major_purchase          Major purchase
## 4822   Fully Paid          n      debt_consolidation      Debt consolidation
## 4830   Fully Paid          n             credit_card Credit card refinancing
## 4849   Fully Paid          n      debt_consolidation      Debt consolidation
## 4853   Fully Paid          n      debt_consolidation      Debt consolidation
## 4854   Fully Paid          n             credit_card Credit card refinancing
## 4859   Fully Paid          n                   other                   Other
## 4897  Charged Off          n      debt_consolidation      Debt consolidation
## 4966   Fully Paid          n          small_business                Business
## 4975   Fully Paid          n             credit_card Credit card refinancing
## 4991   Fully Paid          n          major_purchase          Major purchase
## 5016   Fully Paid          n                   other                   Other
## 5020   Fully Paid          n                   house             Home buying
## 5024   Fully Paid          n      debt_consolidation      Debt consolidation
## 5026  Charged Off          n      debt_consolidation      Debt consolidation
## 5040   Fully Paid          n          small_business                Business
## 5058  Charged Off          n      debt_consolidation      Debt consolidation
## 5078   Fully Paid          n        home_improvement        Home improvement
## 5082   Fully Paid          n             credit_card Credit card refinancing
## 5092   Fully Paid          n             credit_card Credit card refinancing
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## 5140   Fully Paid          n             credit_card Credit card refinancing
## 5143   Fully Paid          n             credit_card Credit card refinancing
## 5148   Fully Paid          n      debt_consolidation      Debt consolidation
## 5188   Fully Paid          n      debt_consolidation      Debt consolidation
## 5203   Fully Paid          n      debt_consolidation      Debt consolidation
## 5214  Charged Off          n      debt_consolidation      Debt consolidation
## 5224   Fully Paid          n      debt_consolidation      Debt consolidation
## 5229   Fully Paid          n        home_improvement        Home improvement
## 5281   Fully Paid          n      debt_consolidation      Debt consolidation
## 5290   Fully Paid          n             credit_card Credit card refinancing
## 5310   Fully Paid          n                 medical        Medical expenses
## 5327  Charged Off          n        home_improvement        Home improvement
## 5331   Fully Paid          n                vacation                Vacation
## 5334   Fully Paid          n           major_purchase          Major purchase
## 5335   Fully Paid          n      debt_consolidation      Debt consolidation
## 5336   Fully Paid          n      debt_consolidation      Debt consolidation
## 5349  Charged Off          n      debt_consolidation      Debt consolidation
## 5353   Fully Paid          n      debt_consolidation      Debt consolidation
## 5370   Fully Paid          n        home_improvement        Home improvement
## 5381   Fully Paid          n      debt_consolidation      Debt consolidation
## 5385   Fully Paid          n      debt_consolidation      Debt consolidation
## 5396   Fully Paid          n      debt_consolidation      Debt consolidation
## 5408   Fully Paid          n        home_improvement        Home improvement
## 5415   Fully Paid          n             credit_card Credit card refinancing
## 5424   Fully Paid          n             credit_card Credit card refinancing
## 5428   Fully Paid          n      debt_consolidation      Debt consolidation
## 5450   Fully Paid          n                  moving   Moving and relocation
## 5474   Fully Paid          n      debt_consolidation      Debt consolidation
## 5480   Fully Paid          n      debt_consolidation      Debt consolidation
## 5486  Charged Off          n                vacation                Vacation
## 5509  Charged Off          n             credit_card Credit card refinancing
## 5518   Fully Paid          n                     car           Car financing
## 5523   Fully Paid          n      debt_consolidation      Debt consolidation
## 5534   Fully Paid          n        home_improvement        Home improvement
## 5536   Fully Paid          n      debt_consolidation      Debt consolidation
## 5541   Fully Paid          n        home_improvement        Home improvement
## 5551   Fully Paid          n             credit_card Credit card refinancing
## 5557  Charged Off          n          small_business                Business
## 5562   Fully Paid          n      debt_consolidation      Debt consolidation
## 5584   Fully Paid          n           major_purchase          Major purchase
## 5588   Fully Paid          n      debt_consolidation      Debt consolidation
## 5598   Fully Paid          n        home_improvement        Home improvement
## 5599   Fully Paid          n      debt_consolidation      Debt consolidation
## 5625   Fully Paid          n           major_purchase          Major purchase
## 5626   Fully Paid          n      debt_consolidation      Debt consolidation
## 5633   Fully Paid          n      debt_consolidation      Debt consolidation
## 5641   Fully Paid          n      debt_consolidation      Debt consolidation
## 5674   Fully Paid          n                   other                   Other
## 5693   Fully Paid          n          small_business                Business
## 5697   Fully Paid          n      debt_consolidation      Debt consolidation
## 5704   Fully Paid          n      debt_consolidation      Debt consolidation
## 5712  Charged Off          n      debt_consolidation      Debt consolidation
## 5761   Fully Paid          n      debt_consolidation      Debt consolidation
## 5763   Fully Paid          n      debt_consolidation      Debt consolidation
## 5796  Charged Off          n      debt_consolidation      Debt consolidation
## 5797   Fully Paid          n      debt_consolidation      Debt consolidation
## 5800   Fully Paid          n        home_improvement        Home improvement
## 5808  Charged Off          n      debt_consolidation      Debt consolidation
## 5812   Fully Paid          n      debt_consolidation      Debt consolidation
## 5814   Fully Paid          n           major_purchase          Major purchase
## 5819   Fully Paid          n      debt_consolidation      Debt consolidation
## 5824  Charged Off          n      debt_consolidation      Debt consolidation
## 5833   Fully Paid          n             credit_card Credit card refinancing
## 5851   Fully Paid          n      debt_consolidation      Debt consolidation
## 5857   Fully Paid          n             credit_card Credit card refinancing
## 5862   Fully Paid          n             credit_card Credit card refinancing
## 5866   Fully Paid          n      debt_consolidation      Debt consolidation
## 5873   Fully Paid          n             credit_card Credit card refinancing
## 5877   Fully Paid          n      debt_consolidation      Debt consolidation
## 5891   Fully Paid          n             credit_card Credit card refinancing
## 5914   Fully Paid          n                   other                   Other
## 5936   Fully Paid          n      debt_consolidation      Debt consolidation
## 5961   Fully Paid          n      debt_consolidation      Debt consolidation
## 5969   Fully Paid          n        home_improvement        Home improvement
## 5983  Charged Off          n      debt_consolidation      Debt consolidation
## 5984   Fully Paid          n      debt_consolidation      Debt consolidation
## 5993   Fully Paid          n      debt_consolidation      Debt consolidation
## 5995   Fully Paid          n        home_improvement        Home improvement
## 6016   Fully Paid          n                   other                   Other
## 6022   Fully Paid          n             credit_card Credit card refinancing
## 6026   Fully Paid          n             credit_card Credit card refinancing
## 6040   Fully Paid          n      debt_consolidation      Debt consolidation
## 6042   Fully Paid          n             credit_card Credit card refinancing
## 6058   Fully Paid          n        home_improvement        Home improvement
## 6067   Fully Paid          n      debt_consolidation      Debt consolidation
## 6081  Charged Off          n             credit_card Credit card refinancing
## 6095   Fully Paid          n      debt_consolidation      Debt consolidation
## 6098   Fully Paid          n      debt_consolidation      Debt consolidation
## 6103   Fully Paid          n      debt_consolidation      Debt consolidation
## 6107  Charged Off          n      debt_consolidation      Debt consolidation
## 6108   Fully Paid          n             credit_card Credit card refinancing
## 6110   Fully Paid          n             credit_card Credit card refinancing
## 6112   Fully Paid          n             credit_card Credit card refinancing
## 6125   Fully Paid          n      debt_consolidation      Debt consolidation
## 6137   Fully Paid          n      debt_consolidation      Debt consolidation
## 6143   Fully Paid          n             credit_card Credit card refinancing
## 6153   Fully Paid          n      debt_consolidation      Debt consolidation
## 6166   Fully Paid          n        home_improvement        Home improvement
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## 6198   Fully Paid          n      debt_consolidation      Debt consolidation
## 6215   Fully Paid          n      debt_consolidation      Debt consolidation
## 6216   Fully Paid          n        home_improvement        Home improvement
## 6220  Charged Off          n                   other                   Other
## 6226   Fully Paid          n      debt_consolidation      Debt consolidation
## 6235   Fully Paid          n                   other                   Other
## 6245   Fully Paid          n      debt_consolidation      Debt consolidation
## 6252   Fully Paid          n      debt_consolidation      Debt consolidation
## 6261   Fully Paid          n             credit_card Credit card refinancing
## 6268   Fully Paid          n      debt_consolidation      Debt consolidation
## 6302  Charged Off          n      debt_consolidation      Debt consolidation
## 6304   Fully Paid          n      debt_consolidation      Debt consolidation
## 6331   Fully Paid          n             credit_card Credit card refinancing
## 6337   Fully Paid          n        home_improvement        Home improvement
## 6373   Fully Paid          n      debt_consolidation      Debt consolidation
## 6379   Fully Paid          n                   other                   Other
## 6397   Fully Paid          n          major_purchase          Major purchase
## 6401   Fully Paid          n      debt_consolidation      Debt consolidation
## 6438  Charged Off          n        home_improvement        Home improvement
## 6442  Charged Off          n      debt_consolidation      Debt consolidation
## 6447   Fully Paid          n             credit_card Credit card refinancing
## 6450   Fully Paid          n      debt_consolidation      Debt consolidation
## 6464   Fully Paid          n                     car           Car financing
## 6506  Charged Off          n      debt_consolidation      Debt consolidation
## 6513   Fully Paid          n      debt_consolidation      Debt consolidation
## 6519   Fully Paid          n        home_improvement        Home improvement
## 6520  Charged Off          n                   other                   Other
## 6580   Fully Paid          n        home_improvement        Home improvement
## 6616   Fully Paid          n                   other                   Other
## 6652   Fully Paid          n      debt_consolidation      Debt consolidation
## 6667  Charged Off          n          major_purchase          Major purchase
## 6688   Fully Paid          n      debt_consolidation      Debt consolidation
## 6693   Fully Paid          n      debt_consolidation      Debt consolidation
## 6727   Fully Paid          n      debt_consolidation      Debt consolidation
## 6732  Charged Off          n      debt_consolidation      Debt consolidation
## 6735   Fully Paid          n             credit_card Credit card refinancing
## 6746   Fully Paid          n      debt_consolidation      Debt consolidation
## 6754   Fully Paid          n      debt_consolidation      Debt consolidation
## 6770   Fully Paid          n             credit_card Credit card refinancing
## 6789   Fully Paid          n             credit_card Credit card refinancing
## 6803   Fully Paid          n      debt_consolidation      Debt consolidation
## 6819   Fully Paid          n             credit_card Credit card refinancing
## 6820   Fully Paid          n        home_improvement        Home improvement
## 6822   Fully Paid          n      debt_consolidation      Debt consolidation
## 6824  Charged Off          n      debt_consolidation      Debt consolidation
## 6834   Fully Paid          n      debt_consolidation      Debt consolidation
## 6841   Fully Paid          n      debt_consolidation      Debt consolidation
## 6843  Charged Off          n             credit_card Credit card refinancing
## 6858  Charged Off          n                  moving   Moving and relocation
## 6860   Fully Paid          n      debt_consolidation      Debt consolidation
## 6889  Charged Off          n      debt_consolidation      Debt consolidation
## 6891   Fully Paid          n      debt_consolidation      Debt consolidation
## 6894   Fully Paid          n               vacation               Vacation
## 6896   Fully Paid          n      debt_consolidation      Debt consolidation
## 6899   Fully Paid          n             credit_card Credit card refinancing
## 6900   Fully Paid          n      debt_consolidation      Debt consolidation
## 6917  Charged Off          n      debt_consolidation      Debt consolidation
## 6919   Fully Paid          n             credit_card Credit card refinancing
## 6923   Fully Paid          n      debt_consolidation      Debt consolidation
## 6934   Fully Paid          n               vacation               Vacation
## 6941   Fully Paid          n      debt_consolidation      Debt consolidation
## 6954   Fully Paid          n             credit_card Credit card refinancing
## 6957   Fully Paid          n      debt_consolidation      Debt consolidation
## 6960   Fully Paid          n      debt_consolidation      Debt consolidation
## 6962   Fully Paid          n                   other                   Other
## 6965   Fully Paid          n      debt_consolidation      Debt consolidation
## 6971   Fully Paid          n                   other                   Other
## 6977   Fully Paid          n      debt_consolidation      Debt consolidation
## 6989   Fully Paid          n                   other                   Other
## 7001   Fully Paid          n      debt_consolidation      Debt consolidation
## 7008   Fully Paid          n        home_improvement        Home improvement
## 7009  Charged Off          n      debt_consolidation      Debt consolidation
## 7012   Fully Paid          n      debt_consolidation      Debt consolidation
## 7017  Charged Off          n      debt_consolidation      Debt consolidation
## 7033   Fully Paid          n      debt_consolidation      Debt consolidation
## 7037   Fully Paid          n      debt_consolidation      Debt consolidation
## 7057  Charged Off          n      debt_consolidation      Debt consolidation
## 7060   Fully Paid          n                 medical        Medical expenses
## 7064   Fully Paid          n        home_improvement        Home improvement
## 7085   Fully Paid          n                   other                   Other
## 7129   Fully Paid          n        home_improvement        Home improvement
## 7138   Fully Paid          n      debt_consolidation      Debt consolidation
## 7145  Charged Off          n      debt_consolidation      Debt consolidation
## 7160  Charged Off          n          major_purchase          Major purchase
## 7174   Fully Paid          n      debt_consolidation      Debt consolidation
## 7187   Fully Paid          n      debt_consolidation      Debt consolidation
## 7189  Charged Off          n      debt_consolidation      Debt consolidation
## 7215   Fully Paid          n      debt_consolidation      Debt consolidation
## 7216   Fully Paid          n        home_improvement        Home improvement
## 7238   Fully Paid          n             credit_card Credit card refinancing
## 7266  Charged Off          n      debt_consolidation      Debt consolidation
## 7271   Fully Paid          n             credit_card Credit card refinancing
## 7281   Fully Paid          n             credit_card Credit card refinancing
## 7284   Fully Paid          n      debt_consolidation      Debt consolidation
## 7318   Fully Paid          n      debt_consolidation      Debt consolidation
## 7343   Fully Paid          n             credit_card Credit card refinancing
## 7354   Fully Paid          n      debt_consolidation      Debt consolidation
## 7373   Fully Paid          n                   other                   Other
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## 7380   Fully Paid          n             credit_card Credit card refinancing
## 7382   Fully Paid          n        home_improvement        Home improvement
## 7383  Charged Off          n                   house             Home buying
## 7411   Fully Paid          n                 medical        Medical expenses
## 7439   Fully Paid          n      debt_consolidation      Debt consolidation
## 7466   Fully Paid          n          small_business                Business
## 7476   Fully Paid          n                vacation                Vacation
## 7521   Fully Paid          n      debt_consolidation      Debt consolidation
## 7522   Fully Paid          n        home_improvement        Home improvement
## 7544   Fully Paid          n                   other                   Other
## 7548   Fully Paid          n      debt_consolidation      Debt consolidation
## 7560   Fully Paid          n      debt_consolidation      Debt consolidation
## 7578   Fully Paid          n      debt_consolidation      Debt consolidation
## 7581   Fully Paid          n                   house             Home buying
## 7583   Fully Paid          n      debt_consolidation      Debt consolidation
## 7616   Fully Paid          n             credit_card Credit card refinancing
## 7628  Charged Off          n      debt_consolidation      Debt consolidation
## 7641   Fully Paid          n             credit_card Credit card refinancing
## 7648  Charged Off          n                   other                   Other
## 7664   Fully Paid          n      debt_consolidation      Debt consolidation
## 7682   Fully Paid          n             credit_card Credit card refinancing
## 7736   Fully Paid          n        home_improvement        Home improvement
## 7750   Fully Paid          n                   other                   Other
## 7753   Fully Paid          n      debt_consolidation      Debt consolidation
## 7775   Fully Paid          n                     car           Car financing
## 7785   Fully Paid          n      debt_consolidation      Debt consolidation
## 7799   Fully Paid          n      debt_consolidation      Debt consolidation
## 7809   Fully Paid          n      debt_consolidation      Debt consolidation
## 7810   Fully Paid          n      debt_consolidation      Debt consolidation
## 7812   Fully Paid          n        home_improvement        Home improvement
## 7815   Fully Paid          n             credit_card Credit card refinancing
## 7825   Fully Paid          n        home_improvement        Home improvement
## 7830   Fully Paid          n                   other                   Other
## 7845   Fully Paid          n             credit_card Credit card refinancing
## 7863   Fully Paid          n      debt_consolidation      Debt consolidation
## 7867  Charged Off          n             credit_card Credit card refinancing
## 7877   Fully Paid          n      debt_consolidation      Debt consolidation
## 7886   Fully Paid          n      debt_consolidation      Debt consolidation
## 7892   Fully Paid          n          major_purchase          Major purchase
## 7897   Fully Paid          n                 medical        Medical expenses
## 7906   Fully Paid          n             credit_card Credit card refinancing
## 7927   Fully Paid          n      debt_consolidation      Debt consolidation
## 7943   Fully Paid          n                     car           Car financing
## 7970   Fully Paid          n      debt_consolidation      Debt consolidation
## 7994   Fully Paid          n             credit_card Credit card refinancing
## 8010   Fully Paid          n                   other                   Other
## 8016   Fully Paid          n                   other                   Other
## 8045   Fully Paid          n        home_improvement        Home improvement
## 8081   Fully Paid          n      debt_consolidation      Debt consolidation
## 8090  Charged Off          n      debt_consolidation      Debt consolidation
## 8114   Fully Paid          n      debt_consolidation      Debt consolidation
## 8124   Fully Paid          n          major_purchase          Major purchase
## 8131   Fully Paid          n      debt_consolidation      Debt consolidation
## 8139   Fully Paid          n      debt_consolidation      Debt consolidation
## 8150   Fully Paid          n      debt_consolidation      Debt consolidation
## 8158   Fully Paid          n             credit_card Credit card refinancing
## 8163   Fully Paid          n      debt_consolidation      Debt consolidation
## 8168   Fully Paid          n             credit_card Credit card refinancing
## 8191   Fully Paid          n             credit_card Credit card refinancing
## 8205   Fully Paid          n      debt_consolidation      Debt consolidation
## 8219  Charged Off          n          major_purchase          Major purchase
## 8225   Fully Paid          n             credit_card Credit card refinancing
## 8251   Fully Paid          n                vacation                Vacation
## 8253   Fully Paid          n      debt_consolidation      Debt consolidation
## 8263   Fully Paid          n      debt_consolidation      Debt consolidation
## 8271  Charged Off          n             credit_card Credit card refinancing
## 8285   Fully Paid          n             credit_card Credit card refinancing
## 8296   Fully Paid          n      debt_consolidation      Debt consolidation
## 8300   Fully Paid          n        home_improvement        Home improvement
## 8326   Fully Paid          n                   other                   Other
## 8343   Fully Paid          n      debt_consolidation      Debt consolidation
## 8349   Fully Paid          n      debt_consolidation      Debt consolidation
## 8365   Fully Paid          n             credit_card Credit card refinancing
## 8381   Fully Paid          n      debt_consolidation      Debt consolidation
## 8398  Charged Off          n      debt_consolidation      Debt consolidation
## 8402   Fully Paid          n          major_purchase          Major purchase
## 8422   Fully Paid          n                   other                   Other
## 8423   Fully Paid          n                vacation                Vacation
## 8442   Fully Paid          n        home_improvement        Home improvement
## 8458   Fully Paid          n      debt_consolidation      Debt consolidation
## 8468  Charged Off          n      debt_consolidation      Debt consolidation
## 8469  Charged Off          n      debt_consolidation      Debt consolidation
## 8486   Fully Paid          n             credit_card Credit card refinancing
## 8508   Fully Paid          n      debt_consolidation      Debt consolidation
## 8521  Charged Off          n             credit_card Credit card refinancing
## 8527   Fully Paid          n          major_purchase          Major purchase
## 8551  Charged Off          n                   other                   Other
## 8561  Charged Off          n             credit_card Credit card refinancing
## 8591   Fully Paid          n          major_purchase          Major purchase
## 8604  Charged Off          n                vacation                Vacation
## 8613   Fully Paid          n        home_improvement        Home improvement
## 8615   Fully Paid          n      debt_consolidation      Debt consolidation
## 8616   Fully Paid          n      debt_consolidation      Debt consolidation
## 8628   Fully Paid          n      debt_consolidation      Debt consolidation
## 8629  Charged Off          n      debt_consolidation      Debt consolidation
## 8642  Charged Off          n             credit_card Credit card refinancing
## 8643  Charged Off          n                   other                   Other
## 8650   Fully Paid          n      debt_consolidation      Debt consolidation
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## 8660   Fully Paid          n      debt_consolidation      Debt consolidation
## 8662   Fully Paid          n      debt_consolidation      Debt consolidation
## 8683   Fully Paid          n        home_improvement        Home improvement
## 8689  Charged Off          n      debt_consolidation      Debt consolidation
## 8700  Charged Off          n      debt_consolidation      Debt consolidation
## 8703   Fully Paid          n      debt_consolidation      Debt consolidation
## 8705   Fully Paid          n                   other                   Other
## 8708   Fully Paid          n      debt_consolidation      Debt consolidation
## 8731   Fully Paid          n      debt_consolidation      Debt consolidation
## 8737   Fully Paid          n                   other                   Other
## 8739   Fully Paid          n      debt_consolidation      Debt consolidation
## 8744   Fully Paid          n                   other                   Other
## 8769   Fully Paid          n      debt_consolidation      Debt consolidation
## 8797   Fully Paid          n      debt_consolidation      Debt consolidation
## 8818   Fully Paid          n      debt_consolidation      Debt consolidation
## 8820   Fully Paid          n      debt_consolidation      Debt consolidation
## 8821   Fully Paid          n      debt_consolidation      Debt consolidation
## 8837   Fully Paid          n      debt_consolidation      Debt consolidation
## 8843   Fully Paid          n      debt_consolidation      Debt consolidation
## 8844   Fully Paid          n      debt_consolidation      Debt consolidation
## 8848   Fully Paid          n      debt_consolidation      Debt consolidation
## 8858   Fully Paid          n      debt_consolidation      Debt consolidation
## 8869   Fully Paid          n      debt_consolidation      Debt consolidation
## 8881   Fully Paid          n      debt_consolidation      Debt consolidation
## 8882   Fully Paid          n      debt_consolidation      Debt consolidation
## 8887   Fully Paid          n             credit_card Credit card refinancing
## 8892   Fully Paid          n      debt_consolidation      Debt consolidation
## 8894   Fully Paid          n      debt_consolidation      Debt consolidation
## 8899   Fully Paid          n             credit_card Credit card refinancing
## 8903  Charged Off          n                   other                   Other
## 8908   Fully Paid          n      debt_consolidation      Debt consolidation
## 8925   Fully Paid          n        home_improvement        Home improvement
## 8932   Fully Paid          n        home_improvement        Home improvement
## 8947   Fully Paid          n      debt_consolidation      Debt consolidation
## 8964  Charged Off          n      debt_consolidation      Debt consolidation
## 8986   Fully Paid          n      debt_consolidation      Debt consolidation
## 9008  Charged Off          n                   other                   Other
## 9011   Fully Paid          n          small_business                Business
## 9013   Fully Paid          n      debt_consolidation      Debt consolidation
## 9021   Fully Paid          n      debt_consolidation      Debt consolidation
## 9023   Fully Paid          n                   other                   Other
## 9054   Fully Paid          n      debt_consolidation      Debt consolidation
## 9084  Charged Off          n             credit_card Credit card refinancing
## 9088   Fully Paid          n                   other                   Other
## 9129   Fully Paid          n             credit_card Credit card refinancing
## 9142   Fully Paid          n        home_improvement        Home improvement
## 9146  Charged Off          n                 medical        Medical expenses
## 9168   Fully Paid          n      debt_consolidation      Debt consolidation
## 9175   Fully Paid          n      debt_consolidation      Debt consolidation
## 9185   Fully Paid          n                   other                   Other
## 9191   Fully Paid          n      debt_consolidation      Debt consolidation
## 9206   Fully Paid          n      debt_consolidation      Debt consolidation
## 9208   Fully Paid          n      debt_consolidation      Debt consolidation
## 9235  Charged Off          n          major_purchase          Major purchase
## 9269  Charged Off          n      debt_consolidation      Debt consolidation
## 9287   Fully Paid          n      debt_consolidation      Debt consolidation
## 9313   Fully Paid          n                   other                   Other
## 9317  Charged Off          n      debt_consolidation      Debt consolidation
## 9318   Fully Paid          n      debt_consolidation      Debt consolidation
## 9322   Fully Paid          n      debt_consolidation      Debt consolidation
## 9349   Fully Paid          n      debt_consolidation      Debt consolidation
## 9359   Fully Paid          n             credit_card Credit card refinancing
## 9360   Fully Paid          n      debt_consolidation      Debt consolidation
## 9368   Fully Paid          n                   other                   Other
## 9369   Fully Paid          n      debt_consolidation      Debt consolidation
## 9389   Fully Paid          n             credit_card Credit card refinancing
## 9417  Charged Off          n      debt_consolidation      Debt consolidation
## 9420   Fully Paid          n             credit_card Credit card refinancing
## 9423   Fully Paid          n             credit_card Credit card refinancing
## 9428   Fully Paid          n             credit_card Credit card refinancing
## 9449  Charged Off          n        home_improvement        Home improvement
## 9490   Fully Paid          n      debt_consolidation      Debt consolidation
## 9494   Fully Paid          n      debt_consolidation      Debt consolidation
## 9513   Fully Paid          n      debt_consolidation      Debt consolidation
## 9518   Fully Paid          n      debt_consolidation      Debt consolidation
## 9533   Fully Paid          n               vacation                Vacation
## 9548   Fully Paid          n      debt_consolidation      Debt consolidation
## 9561   Fully Paid          n             credit_card Credit card refinancing
## 9563  Charged Off          n      debt_consolidation      Debt consolidation
## 9568   Fully Paid          n      debt_consolidation      Debt consolidation
## 9576   Fully Paid          n      debt_consolidation      Debt consolidation
## 9588   Fully Paid          n      debt_consolidation      Debt consolidation
## 9634   Fully Paid          n        home_improvement        Home improvement
## 9645   Fully Paid          n             credit_card Credit card refinancing
## 9660   Fully Paid          n      debt_consolidation      Debt consolidation
## 9663  Charged Off          n      debt_consolidation      Debt consolidation
## 9675   Fully Paid          n                  moving   Moving and relocation
## 9678   Fully Paid          n      debt_consolidation      Debt consolidation
## 9686   Fully Paid          n                   other                   Other
## 9707   Fully Paid          n      debt_consolidation      Debt consolidation
## 9708   Fully Paid          n                     car           Car financing
## 9720   Fully Paid          n      debt_consolidation      Debt consolidation
## 9724   Fully Paid          n             credit_card Credit card refinancing
## 9730   Fully Paid          n        home_improvement        Home improvement
## 9739   Fully Paid          n      debt_consolidation      Debt consolidation
## 9749   Fully Paid          n      debt_consolidation      Debt consolidation
## 9759  Charged Off          n             credit_card Credit card refinancing
## 9771  Charged Off          n      debt_consolidation      Debt consolidation
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## 9802   Fully Paid          n      debt_consolidation      Debt consolidation
## 9807  Charged Off          n             credit_card Credit card refinancing
## 9818   Fully Paid          n      debt_consolidation      Debt consolidation
## 9822   Fully Paid          n        home_improvement        Home improvement
## 9823   Fully Paid          n      debt_consolidation      Debt consolidation
## 9869   Fully Paid          n             credit_card Credit card refinancing
## 9885   Fully Paid          n             credit_card Credit card refinancing
## 9916   Fully Paid          n                vacation                Vacation
## 9935   Fully Paid          n        home_improvement        Home improvement
## 9965   Fully Paid          n        home_improvement        Home improvement
## 9981   Fully Paid          n      debt_consolidation      Debt consolidation
## 9985   Fully Paid          n                   other                   Other
## 9986   Fully Paid          n                     car           Car financing
## 10009  Fully Paid          n      debt_consolidation      Debt consolidation
## 10012  Fully Paid          n      debt_consolidation      Debt consolidation
## 10027  Fully Paid          n      debt_consolidation      Debt consolidation
## 10068  Fully Paid          n             credit_card Credit card refinancing
## 10074  Fully Paid          n             credit_card Credit card refinancing
## 10076  Fully Paid          n                   house             Home buying
## 10092  Fully Paid          n             credit_card Credit card refinancing
## 10101  Fully Paid          n      debt_consolidation      Debt consolidation
## 10124  Fully Paid          n                   other                   Other
## 10128 Charged Off          n      debt_consolidation      Debt consolidation
## 10129  Fully Paid          n             credit_card Credit card refinancing
## 10141 Charged Off          n                   other                   Other
## 10142  Fully Paid          n      debt_consolidation      Debt consolidation
## 10163  Fully Paid          n      debt_consolidation      Debt consolidation
## 10165  Fully Paid          n      debt_consolidation      Debt consolidation
## 10179  Fully Paid          n      debt_consolidation      Debt consolidation
## 10188  Fully Paid          n             credit_card Credit card refinancing
## 10210  Fully Paid          n      debt_consolidation      Debt consolidation
## 10220 Charged Off          n                  moving   Moving and relocation
## 10221  Fully Paid          n      debt_consolidation      Debt consolidation
## 10240  Fully Paid          n      debt_consolidation      Debt consolidation
## 10246  Fully Paid          n        home_improvement        Home improvement
## 10249  Fully Paid          n      debt_consolidation      Debt consolidation
## 10262  Fully Paid          n             credit_card Credit card refinancing
## 10265  Fully Paid          n        home_improvement        Home improvement
## 10278  Fully Paid          n      debt_consolidation      Debt consolidation
## 10288  Fully Paid          n                   other                   Other
## 10319  Fully Paid          n             credit_card Credit card refinancing
## 10328  Fully Paid          n      debt_consolidation      Debt consolidation
## 10329  Fully Paid          n      debt_consolidation      Debt consolidation
## 10335  Fully Paid          n          major_purchase          Major purchase
## 10339  Fully Paid          n             credit_card Credit card refinancing
## 10366  Fully Paid          n                     car           Car financing
## 10371  Fully Paid          n      debt_consolidation      Debt consolidation
## 10385  Fully Paid          n      debt_consolidation      Debt consolidation
## 10387  Fully Paid          n      debt_consolidation      Debt consolidation
## 10417  Fully Paid          n             credit_card Credit card refinancing
## 10448 Charged Off          n          major_purchase          Major purchase
## 10449  Fully Paid          n      debt_consolidation      Debt consolidation
## 10453  Fully Paid          n      debt_consolidation      Debt consolidation
## 10455  Fully Paid          n          small_business                Business
## 10460  Fully Paid          n             credit_card Credit card refinancing
## 10464  Fully Paid          n      debt_consolidation      Debt consolidation
## 10471 Charged Off          n             credit_card Credit card refinancing
## 10482  Fully Paid          n          small_business                Business
## 10491  Fully Paid          n             credit_card Credit card refinancing
## 10494  Fully Paid          n          small_business                Business
## 10508 Charged Off          n             credit_card Credit card refinancing
## 10517  Fully Paid          n                   other                   Other
## 10530  Fully Paid          n      debt_consolidation      Debt consolidation
## 10532  Fully Paid          n             credit_card Credit card refinancing
## 10535 Charged Off          n        home_improvement        Home improvement
## 10545  Fully Paid          n      debt_consolidation      Debt consolidation
## 10570  Fully Paid          n             credit_card Credit card refinancing
## 10573  Fully Paid          n             credit_card Credit card refinancing
## 10576  Fully Paid          n      debt_consolidation      Debt consolidation
## 10579 Charged Off          n      debt_consolidation      Debt consolidation
## 10582  Fully Paid          n      debt_consolidation      Debt consolidation
## 10592  Fully Paid          n      debt_consolidation      Debt consolidation
## 10595  Fully Paid          n      debt_consolidation      Debt consolidation
## 10601  Fully Paid          n      debt_consolidation      Debt consolidation
## 10614  Fully Paid          n             credit_card Credit card refinancing
## 10620  Fully Paid          n        home_improvement        Home improvement
## 10632  Fully Paid          n      debt_consolidation      Debt consolidation
## 10641  Fully Paid          n             credit_card Credit card refinancing
## 10646  Fully Paid          n             credit_card Credit card refinancing
## 10655  Fully Paid          n      debt_consolidation      Debt consolidation
## 10658  Fully Paid          n      debt_consolidation      Debt consolidation
## 10661  Fully Paid          n      debt_consolidation      Debt consolidation
## 10680  Fully Paid          n      debt_consolidation      Debt consolidation
## 10689  Fully Paid          n      debt_consolidation      Debt consolidation
##       zip_code addr_state   dti delinq_2yrs earliest_cr_line inq_last_6mths
## 16       952xx         CA  8.07          0         Mar-2014              0
## 38       329xx         FL 18.47          0         Jul-2006              0
## 47       054xx         VT 15.47          0         Jan-2005              1
## 77       240xx         VA  4.50          0         Jan-2006              0
## 88       112xx         NY 14.40          0         May-2001              0
## 112      983xx         WA 17.36          0         Jul-2003              0
## 133      190xx         PA 23.15          0         Mar-2007              0
## 135      342xx         FL 19.99          1         Nov-2000              0
## 145      958xx         CA 17.91          2         Jul-2002              0
## 169      443xx         OH 33.29          0         May-1998              0
## 180      871xx         NM 11.00          0         Aug-2005              1
## 191      280xx         NC 10.76          2         May-2003              0
## 208      402xx         KY 25.98          0         Sep-1993              1
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## 222      074xx         NJ 23.46          0         Feb-2004             0
## 226      605xx         IL 16.95          2         Dec-2001             1
## 231      806xx         CO 12.62          2         Feb-2005             0
## 243      220xx         VA 10.42          0         Sep-1994             0
## 244      272xx         NC 14.06          0         Aug-2006             0
## 250      333xx         FL  1.40          0         Mar-2007             1
## 260      645xx         MO 18.27          0         Apr-2007             1
## 271      450xx         OH 14.16          1         Mar-2006             1
## 277      245xx         VA 16.46          0         Oct-1997             0
## 284      833xx         ID 25.83          1         Nov-2006             1
## 292      554xx         MN 19.57          0         Mar-2003             3
## 295      015xx         MA 12.24          0         Jun-1996             0
## 311      222xx         VA 18.52          0         Apr-2005             0
## 355      042xx         ME 28.61          0         Mar-1998             0
## 376      221xx         VA 32.59          0         Oct-1992             0
## 385      331xx         FL 27.96          0         May-1997             0
## 392      173xx         PA 22.03          0         May-1998             0
## 400      727xx         AR 32.76          1         Mar-2004             0
## 402      191xx         PA 21.06          0         Sep-2002             2
## 413      117xx         NY  9.58          0         Apr-1978             2
## 421      334xx         FL 15.36          0         Dec-1995             0
## 423      014xx         MA 13.24          1         Jan-2007             0
## 424      376xx         TN 15.34          0         Dec-1995             0
## 440      194xx         PA  9.01          5         Aug-2001             2
## 444      306xx         GA  8.25          0         Jan-2008             0
## 509      331xx         FL 11.01          0         Dec-2004             0
## 524      934xx         CA  7.30          0         Nov-2008             0
## 542      917xx         CA 10.67          0         Sep-1996             4
## 581      800xx         CO 21.10          0         Dec-2005             0
## 593      850xx         AZ 20.49          1         Oct-1999             1
## 620      895xx         NV 35.64          0         Apr-2001             0
## 669      609xx         IL 20.82          0         Aug-2001             1
## 679      327xx         FL 13.02          0         Sep-2006             1
## 695      728xx         AR 20.72          0         Feb-2002             1
## 698      296xx         SC 20.13          0         Mar-1999             1
## 726      155xx         PA 25.66          0         Feb-2005             0
## 750      330xx         FL 15.71          0         Oct-2007             0
## 755      060xx         CT 25.56          1         Mar-2003             0
## 791      070xx         NJ 16.35          0         Mar-2000             3
## 796      985xx         WA 26.23          0         Mar-2006             0
## 805      834xx         ID  8.01          0         Oct-1996             0
## 806      297xx         SC 16.47          1         Oct-2005             0
## 821      891xx         NV 19.29          0         Nov-2004             1
## 837      667xx         KS 25.19          0         Oct-2000             1
## 841      600xx         IL 32.88          0         Apr-1996             0
## 843      076xx         NJ 20.40          0         Sep-2010             1
## 860      481xx         MI 22.29          0         Sep-1993             2
## 862      483xx         MI 19.14          1         Jun-2000             0
## 891      721xx         AR 22.69          0         Mar-2007             2
## 911      785xx         TX  5.03          1         Aug-1994             0
## 921      958xx         CA 21.72          0         Jan-2006             0
## 930      971xx         OR 12.27          0         Jan-2005             0
## 952      064xx         CT 11.07          0         Mar-1999             1
## 956      180xx         PA 13.52          0         Jan-2008             0
## 958      612xx         IL 16.24          2         Apr-2007             0
## 967      928xx         CA 10.70          0         Feb-1995             0
## 974      919xx         CA 14.85          1         Jun-1995             0
## 982      480xx         MI 14.54          1         Apr-1988             0
## 1014     330xx         FL 19.37          0         May-2002             0
## 1022     106xx         NY 11.27          0         Jan-2002             3
## 1045     221xx         VA 10.35          0         Aug-2006             0
## 1051     936xx         CA 25.06          1         May-2004             1
## 1075     957xx         CA 29.49          0         Sep-1998             1
## 1097     198xx         DE 18.00          0         Oct-1996             1
## 1099     950xx         CA 24.63          0         Oct-2000             0
## 1104     442xx         OH 13.93          0         Nov-2000             1
## 1107     430xx         OH 13.10          0         Jun-2007             0
## 1119     786xx         TX 23.06          1         Feb-2010             3
## 1125     563xx         MN 19.03          1         Aug-2010             0
## 1166     906xx         CA 14.15          0         Oct-2005             2
## 1167     557xx         MN 28.17          0         Jul-2011             0
## 1172     117xx         NY 12.14          0         Nov-1998             1
## 1173     908xx         CA 24.57          0         May-2006             1
## 1175     352xx         AL 14.27          0         Aug-1996             0
## 1177     950xx         CA 12.14          1         Oct-1989             1
## 1193     902xx         CA 12.36          0         Dec-2010             1
## 1200     604xx         IL 25.75          2         Apr-2001             1
## 1206     657xx         MO 22.03          0         Sep-2005             1
## 1223     802xx         CO  3.91          2         Jun-2005             0
## 1230     369xx         AL 26.24          0         Sep-1997             2
## 1238     550xx         MN 18.52          0         Nov-2004             0
## 1245     283xx         NC 34.85          0         May-2007             1
## 1250     601xx         IL 28.74          0         Apr-2008             1
## 1272     967xx         HI 24.67          1         Feb-2003             0
## 1282     704xx         LA 17.64          0         Sep-2003             0
## 1283     063xx         CT 27.29          1         Nov-2003             0
## 1298     366xx         AL 22.80          1         Jul-2008             0
## 1300     646xx         MO 25.24          0         Aug-1996             1
## 1308     298xx         SC 19.81          2         Aug-2001             0
## 1321     142xx         NY 30.89          0         Dec-1979             0
## 1322     760xx         TX 14.70          0         Jan-2003             1
## 1327     605xx         IL 26.64          2         Jan-1984             2
## 1374     761xx         TX 10.94          1         Aug-2002             1
## 1378     347xx         FL 19.75          0         Mar-2007             2
## 1385     932xx         CA 16.25          0         Jul-2005             0
## 1411     641xx         MO 25.19          2         Nov-2001             1
## 1415     357xx         AL 27.29          2         Nov-2000             0
## 1463     688xx         NE 15.23          0         Jul-2008             1
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## 1517     138xx         NY 10.29           0         Feb-2004             2
## 1531     631xx         MO 28.04           1         Dec-2001             3
## 1598     945xx         CA 24.69           0         May-2006             1
## 1609     344xx         FL  8.22           1         Apr-2006             1
## 1638     403xx         KY 22.47           2         Apr-2007             1
## 1684     906xx         CA 14.73           1         Jan-1996             0
## 1710     934xx         CA  9.12           1         May-2006             2
## 1713     349xx         FL 12.52           1         Nov-2003             0
## 1722     922xx         CA 18.83           0         Aug-1999             1
## 1733     030xx         NH 13.62           0         Nov-2006             1
## 1742     931xx         CA  7.35           0         Sep-2005             0
## 1770     299xx         SC 25.08           0         Jan-2004             0
## 1777     605xx         IL 26.20           2         Apr-2007             2
## 1779     323xx         FL 34.66           0         Jun-2005             0
## 1781     967xx         HI 31.06           0         Oct-2006             0
## 1808     801xx         CO 18.23           0         Sep-2002             0
## 1814     815xx         CO 10.61           1         Apr-1999             0
## 1832     183xx         PA 15.47           1         Jan-2004             1
## 1834     225xx         VA 18.29           0         Jul-1987             1
## 1841     206xx         MD 20.77           0         Oct-2005             0
## 1858     300xx         GA 19.44           0         Jun-2001             0
## 1872     840xx         UT 17.61           0         Aug-2008             0
## 1888     787xx         TX  3.22           0         Feb-2007             0
## 1908     751xx         TX 20.51           0         Jul-2008             0
## 1912     210xx         MD 13.39           1         Sep-2004             1
## 1918     972xx         OR 13.32           0         Oct-1999             1
## 1923     927xx         CA  4.70           0         Apr-2006             0
## 1931     071xx         NJ 16.36           0         Mar-2000             0
## 1940     921xx         CA 29.55           1         May-2007             0
## 1941     133xx         NY 14.15           0         Jun-1998             1
## 1966     088xx         NJ 14.07           0         Apr-1982             1
## 1967     446xx         OH 23.96           0         Mar-2005             1
## 1969     545xx         WI 12.46           0         Jun-1998             0
## 1993     853xx         AZ 17.78           0         Feb-2001             0
## 2000     112xx         NY 11.96           1         May-1995             0
## 2020     041xx         ME 31.49           0         Aug-2001             0
## 2021     111xx         NY 20.33           1         Jan-2006             0
## 2022     328xx         FL 21.36           1         Nov-2003             0
## 2024     150xx         PA 28.49           0         Sep-2001             1
## 2062     181xx         PA 21.33           1         Dec-2005             0
## 2064     338xx         FL 25.64           0         Jan-2008             0
## 2110     120xx         NY 33.22           0         Oct-1992             1
## 2134     463xx         IN 22.04           0         Nov-1980             0
## 2141     356xx         AL 29.62           0         Sep-2007             2
## 2152     853xx         AZ 28.28           1         Jan-2004             0
## 2164     730xx         OK 16.44           2         Feb-2007             0
## 2188     756xx         TX 34.34           0         Sep-2006             0
## 2195     148xx         NY 15.51           0         Dec-2003             1
## 2205     189xx         PA 25.47           1         May-2009             2
## 2223     141xx         NY  9.40           1         Oct-1999             1
## 2228     625xx         IL 25.17           1         Oct-1996             1
## 2237     487xx         MI 16.48           0         Jul-2004             1
## 2266     554xx         MN 14.89           1         Oct-2003             0
## 2269     986xx         WA 16.44           0         Apr-1992             0
## 2276     125xx         NY 21.68           2         Nov-2000             0
## 2282     467xx         IN 28.19           0         Apr-1990             2
## 2291     650xx         MO 16.97           1         Dec-2010             1
## 2299     325xx         FL 13.90           1         Aug-2001             1
## 2309     441xx         OH 16.47           0         Sep-2014             0
## 2311     016xx         MA 12.91           4         Apr-1997             0
## 2317     079xx         NJ 10.10           0         Jul-1993             0
## 2324     750xx         TX 16.43           0         Oct-1978             0
## 2360     951xx         CA 14.21           0         Apr-2009             1
## 2366     607xx         IL 24.84           1         Jan-2014             3
## 2372     780xx         TX 16.00           0         Jun-2005             0
## 2391     080xx         NJ 13.51           0         Feb-2006             0
## 2451     331xx         FL  9.35           1         Jan-1985             1
## 2466     946xx         CA 13.84           0         Dec-2006             0
## 2487     989xx         WA 22.31           0         May-2000             0
## 2498     802xx         CO 11.38           0         Nov-2005             1
## 2507     800xx         CO 10.73           0         Apr-2003             0
## 2553     801xx         CO 10.32           1         Jun-1993             0
## 2570     945xx         CA 18.64           0         Dec-2003             1
## 2573     271xx         NC 32.81           2         May-2004             0
## 2594     799xx         TX 26.59           0         Oct-2000             0
## 2632     531xx         WI 16.20           0         Jul-1998             0
## 2644     029xx         RI 30.13           0         May-1979             0
## 2665     773xx         TX 21.04           0         Aug-1996             0
## 2666     114xx         NY 21.26           0         Dec-2005             0
## 2680     123xx         NY 10.99           0         Apr-1997             1
## 2682     112xx         NY  4.64           0         May-2010             0
## 2688     853xx         AZ 12.11           1         Mar-2004             0
## 2697     324xx         FL 27.19           0         May-2002             0
## 2704     294xx         SC 25.87           0         Oct-1997             0
## 2739     606xx         IL 20.38           0         Apr-1987             0
## 2741     554xx         MN 19.35           0         Nov-1988             1
## 2750     070xx         NJ  9.70           0         May-1990             0
## 2751     805xx         CO 10.69           0         Mar-2004             0
## 2754     031xx         NH 20.51           1         Mar-2009             1
## 2762     882xx         NM 10.85           0         Aug-2007             0
## 2764     191xx         PA 21.71           2         Jun-2008             0
## 2778     954xx         CA  6.74           0         Aug-1996             0
## 2802     532xx         WI 17.94           0         Feb-2008             0
## 2818     982xx         WA 22.76           0         Oct-2001             1
## 2822     776xx         TX 22.99           0         May-2003             0
## 2841     328xx         FL 11.30           1         Jul-2008             0
## 2848     038xx         NH 19.03           0         Nov-2005             2
## 2888     286xx         NC 14.84           0         Apr-2004             1
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## 2922     980xx         WA 38.79          0         Jan-1981             2
## 2941     194xx         PA 14.27          2         Oct-1990             0
## 2956     333xx         FL 18.48          0         Mar-2004             1
## 2970     853xx         AZ 24.17          0         Oct-1994             0
## 2986     142xx         NY 21.09          0         Oct-2007             1
## 3006     840xx         UT 37.76          0         Oct-2005             1
## 3030     071xx         NJ 21.01          0         Sep-1995             1
## 3035     857xx         AZ 20.39          1         Nov-1988             1
## 3044     301xx         GA 39.16          0         May-2005             2
## 3048     752xx         TX 13.30          1         Aug-2008             0
## 3063     948xx         CA 11.52          0         Apr-2005             1
## 3064     945xx         CA 18.02          0         Aug-1988             2
## 3072     030xx         NH 23.12          0         Mar-2005             0
## 3080     601xx         IL  6.41          0         Aug-1994             3
## 3082     983xx         WA  8.82          1         Oct-2005             3
## 3097     403xx         KY 17.73          0         Oct-2006             1
## 3098     244xx         VA 21.37          0         Dec-1994             1
## 3135     424xx         KY 15.78          0         Nov-2005             0
## 3151     212xx         MD 23.82          0         Jan-2012             1
## 3153     260xx         WV 12.10          0         May-1999             0
## 3171     775xx         TX 20.75          0         Apr-2006             0
## 3205     537xx         WI 14.55          1         Sep-1998             0
## 3217     190xx         PA 12.73          0         Mar-2005             1
## 3225     301xx         GA 18.19          0         Jun-1999             1
## 3227     562xx         MN 25.80          1         Aug-2001             0
## 3234     787xx         TX 28.59          0         Sep-1998             1
## 3239     339xx         FL  9.39          0         Apr-1995             1
## 3247     245xx         VA 30.37          0         Aug-2006             1
## 3331     770xx         TX  5.21          0         Oct-2002             2
## 3334     060xx         CT 12.54          0         Jan-2002             0
## 3372     836xx         ID 12.49          0         Aug-2008             1
## 3379     432xx         OH  8.41          1         Jul-2009             1
## 3393     330xx         FL 18.24          0         Nov-2007             0
## 3395     172xx         PA  9.42          1         Jun-2008             2
## 3403     926xx         CA 19.85          1         Feb-2007             0
## 3410     544xx         WI 30.24          0         Apr-2003             0
## 3413     107xx         NY 17.41          1         Dec-1999             0
## 3417     329xx         FL 21.92          0         Jun-1983             1
## 3487     130xx         NY 16.28          0         May-2006             1
## 3513     444xx         OH 26.66          1         Feb-2003             2
## 3521     078xx         NJ  5.60          0         Nov-2003             2
## 3532     151xx         PA 38.09          1         Feb-2001             0
## 3558     080xx         NJ 15.79          0         Jan-2004             1
## 3562     478xx         IN 14.14          1         Jan-1992             1
## 3571     148xx         NY 15.32          1         Mar-1996             0
## 3574     182xx         PA 14.65          0         May-2003             0
## 3581     800xx         CO 24.76          0         Jul-2001             1
## 3589     551xx         MN 24.45          0         Dec-2005             1
## 3605     308xx         GA 39.40          0         Jan-2008             1
## 3630     800xx         CO 31.03          0         Aug-1999             0
## 3631     132xx         NY 22.32          0         Jun-1984             0
## 3640     070xx         NJ 19.31          0         Jul-1993             1
## 3642     805xx         CO 27.26          0         Feb-2002             1
## 3644     728xx         AR  4.48          1         Feb-2013             0
## 3653     410xx         KY 28.69          0         Feb-2004             1
## 3662     957xx         CA  7.43          0         Jul-2010             0
## 3663     077xx         NJ 24.71          0         Oct-1981             0
## 3691     329xx         FL 24.43          1         Oct-1997             0
## 3713     166xx         PA  7.70          1         Feb-1998             0
## 3726     029xx         RI 32.45          0         Feb-1998             0
## 3746     330xx         FL 14.42          1         Nov-2000             0
## 3751     853xx         AZ 22.87          0         Feb-1996             0
## 3757     330xx         FL 12.00          0         Apr-1998             1
## 3761     316xx         GA 25.85          0         Nov-2004             0
## 3763     983xx         WA 23.43          0         Feb-2000             0
## 3770     079xx         NJ 15.34          1         Oct-2004             1
## 3774     334xx         FL 21.71          2         Jul-2002             0
## 3775     109xx         NY  5.09          2         Feb-1992             0
## 3786     207xx         MD  3.79          0         Feb-2006             1
## 3809     924xx         CA 13.32          1         Aug-1995             1
## 3824     321xx         FL 28.59          0         Jan-1999             1
## 3832     923xx         CA 24.67          0         Dec-1998             0
## 3845     077xx         NJ  6.12          0         Jan-2015             1
## 3864     857xx         AZ 33.60          0         May-2005             0
## 3877     633xx         MO 14.63          1         Jan-2001             1
## 3890     840xx         UT 15.23          0         Nov-2010             1
## 3907     212xx         MD 27.83          0         Aug-1990             0
## 3918     078xx         NJ 30.25          0         Nov-2014             0
## 3925     925xx         CA  7.46          0         Sep-2009             0
## 3927     456xx         OH 15.89          0         Oct-2006             2
## 3945     751xx         TX 23.82          0         Mar-2008             0
## 3946     190xx         PA  8.38          1         Feb-2003             1
## 3972     660xx         KS 24.64          0         Dec-1998             0
## 3986     282xx         NC 19.02          0         Jul-1996             0
## 3988     282xx         NC 37.38          8         Jun-1994             1
## 4008     360xx         AL 21.19          0         Aug-2007             0
## 4015     393xx         MS 11.58          1         May-2004             2
## 4039     705xx         LA 13.43          0         Nov-1990             2
## 4047     838xx         ID  6.83          1         Jan-1985             1
## 4056     829xx         WY 11.15          3         Jul-2005             0
## 4076     851xx         AZ  1.84          0         Feb-2006             0
## 4090     664xx         KS 29.92          1         Aug-2004             2
## 4103     770xx         TX  7.09          0         Jan-2002             0
## 4160     273xx         NC  9.52          1         Feb-2004             1
## 4164     918xx         CA  6.63          0         Feb-1989             0
## 4188     207xx         MD 20.17          2         Aug-1974             1
## 4222     223xx         VA 17.88          0         Sep-1991             1
## 4231     891xx         NV  5.87          1         Dec-2004             3
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## 4236     117xx         NY  7.15          0         Jan-1998             1
## 4256     761xx         TX 26.38          0         Feb-1999             0
## 4282     554xx         MN  4.43          1         Aug-2008             0
## 4286     112xx         NY 23.00          0         Sep-2003             0
## 4306     302xx         GA 22.48          0         Nov-2001             0
## 4308     604xx         IL 16.80          0         Jul-2006             1
## 4313     194xx         PA 17.84          1         Dec-1990             0
## 4355     139xx         NY 11.16          0         Sep-1999             1
## 4358     356xx         AL 21.40          0         Oct-1984             2
## 4375     741xx         OK 16.36          0         Aug-2008             0
## 4383     799xx         TX 20.46          0         Nov-1999             0
## 4387     105xx         NY 19.96          0         Oct-1995             3
## 4404     067xx         CT 22.80          1         Jun-2006             0
## 4420     490xx         MI 19.59          0         Oct-1999             0
## 4449     190xx         PA 13.38          1         Oct-1985             1
## 4455     331xx         FL 13.09          0         Mar-1988             1
## 4463     540xx         WI  8.36          0         Nov-1984             0
## 4490     322xx         FL  8.80          1         Dec-1976             3
## 4495     334xx         FL 10.71          0         Dec-2010             0
## 4505     067xx         CT  4.50          0         Mar-2011             1
## 4507     236xx         VA 14.63          0         Mar-2002             1
## 4540     060xx         CT 11.74          3         Aug-1985             0
## 4553     704xx         LA 20.15          0         Sep-2005             0
## 4579     911xx         CA 21.95          0         Aug-2000             1
## 4591     980xx         WA  9.28          1         Dec-2003             0
## 4593     980xx         WA 18.99          0         May-2012             0
## 4599     217xx         MD 10.41          0         Aug-2002             0
## 4607     751xx         TX 17.93          0         Jun-2001             0
## 4636     701xx         LA 20.68          0         Jul-1999             0
## 4659     333xx         FL 25.09          0         Apr-2003             1
## 4667     890xx         NV 14.86          0         Nov-2003             0
## 4670     481xx         MI 18.44          0         Jul-1998             2
## 4676     920xx         CA  8.88          0         Aug-2005             1
## 4678     570xx         SD 17.60          1         Sep-2000             0
## 4679     197xx         DE 10.75          0         May-2005             0
## 4687     714xx         LA  9.00          1         Mar-2005             0
## 4697     115xx         NY 13.85          0         Sep-2004             1
## 4709     337xx         FL 13.78          1         Dec-1991             1
## 4725     247xx         WV 12.96          0         Sep-2002             0
## 4741     954xx         CA 39.06          1         Oct-1999             2
## 4777     236xx         VA  5.96          0         Dec-2004             0
## 4781     750xx         TX 20.13          0         Mar-2001             1
## 4796     920xx         CA 18.87          0         Dec-2011             1
## 4807     278xx         NC 37.44          0         Jul-1991             0
## 4808     302xx         GA 20.38          0         Oct-1994             0
## 4822     492xx         MI 16.12          0         Jun-1999             0
## 4830     173xx         PA 19.38          0         Jun-1998             0
## 4849     201xx         VA 19.42          0         Jan-1990             1
## 4853     322xx         FL 27.37          1         Dec-2001             0
## 4854     722xx         AR 12.01          0         Sep-2006             0
## 4859     300xx         GA 15.92          0         Feb-2007             1
## 4897     971xx         OR 22.17          1         Nov-1974             1
## 4966     393xx         MS  6.21          0         Feb-2000             0
## 4975     993xx         WA  9.56          1         Apr-2004             1
## 4991     907xx         CA  9.99          0         May-2007             1
## 5016     154xx         PA  1.18          0         Jul-1998             0
## 5020     606xx         IL  5.79          0         Nov-2004             2
## 5024     210xx         MD 17.21          1         Aug-2005             0
## 5026     810xx         CO 21.41          1         Nov-2003             2
## 5040     816xx         CO 33.60          0         Oct-1996             0
## 5058     331xx         FL 19.16          0         Mar-2005             0
## 5078     105xx         NY 26.77          1         Jun-1988             0
## 5082     334xx         FL 26.15          0         Mar-2003             0
## 5092     120xx         NY 29.38          0         Mar-2001             2
## 5140     751xx         TX 13.01          1         Dec-2001             1
## 5143     107xx         NY 16.94          0         Nov-2008             0
## 5148     980xx         WA 16.55          2         Jan-2013             0
## 5188     661xx         KS 14.85          1         Oct-1993             1
## 5203     604xx         IL 10.57          1         Dec-1997             1
## 5214     104xx         NY 12.86          2         Jun-2006             0
## 5224     554xx         MN 21.15          0         Mar-1996             1
## 5229     301xx         GA  9.30          0         Aug-1984             0
## 5281     282xx         NC  9.05          2         Nov-2003             1
## 5290     152xx         PA 14.51          1         Apr-2007             0
## 5310     495xx         MI 17.42          0         Feb-1982             0
## 5327     976xx         OR 17.16          0         Mar-1996             1
## 5331     330xx         FL 26.76          0         Jan-1994             0
## 5334     926xx         CA 12.08          0         Jan-2005             0
## 5335     435xx         OH 27.50          0         Feb-1985             1
## 5336     547xx         WI 19.68          0         Dec-2000             2
## 5349     391xx         MS 29.70          1         May-1997             1
## 5353     379xx         TN 16.55          0         Aug-1983             1
## 5370     303xx         GA  5.01          0         Oct-1998             0
## 5381     554xx         MN  7.66          1         Oct-2007             0
## 5385     778xx         TX 14.88          0         Mar-2010             1
## 5396     265xx         WV  7.72          0         Jun-2004             0
## 5408     207xx         MD 21.52          0         Sep-1996             0
## 5415     928xx         CA 21.51          5         Aug-1997             2
## 5424     750xx         TX 27.32          0         Oct-1990             1
## 5428     104xx         NY 15.78          0         Jan-1993             3
## 5450     809xx         CO  7.28          1         Dec-1996             0
## 5474     762xx         TX 20.33          0         Feb-1991             0
## 5480     331xx         FL 33.85          0         Jul-2008             0
## 5486     146xx         NY 17.47          0         Oct-2002             0
## 5509     681xx         NE  3.30          4         Jul-2004             1
## 5518     286xx         NC 10.77          1         Nov-1979             0
## 5523     853xx         AZ 19.20          0         Aug-2002             0
## 5534     337xx         FL 17.94          1         Dec-2004             0
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## 5536     121xx         NY 21.20           0         Jun-2003             0
## 5541     782xx         TX 19.55           0         Jun-2006             0
## 5551     919xx         CA 17.74           0         Jul-2006             0
## 5557     115xx         NY  7.96           2         Dec-2001             1
## 5562     301xx         GA  2.51           0         Sep-2011             0
## 5584     060xx         CT  5.31           0         May-2004             0
## 5588     439xx         OH 29.78           0         Mar-2007             0
## 5598     273xx         NC 14.57           0         Feb-1995             0
## 5599     112xx         NY 16.07           0         Mar-2003             0
## 5625     163xx         PA 36.94           0         Mar-1983             0
## 5626     199xx         DE 17.99           0         Aug-1993             2
## 5633     922xx         CA 14.29           0         Oct-2002             1
## 5641     946xx         CA  8.65           0         Jun-2008             1
## 5674     146xx         NY 25.20           0         Feb-2004             1
## 5693     371xx         TN  7.26           4         May-1996             0
## 5697     302xx         GA 12.62           1         May-2004             0
## 5704     284xx         NC 29.46           0         Mar-1999             1
## 5712     925xx         CA 15.57           1         May-1987             0
## 5761     928xx         CA 13.20           0         Sep-1995             0
## 5763     707xx         LA 14.40           0         Apr-2004             1
## 5796     212xx         MD 14.10           0         Nov-1999             0
## 5797     082xx         NJ 24.35           0         Feb-1997             0
## 5800     062xx         CT  7.40           0         Aug-2004             0
## 5808     077xx         NJ 19.25           0         Apr-2003             0
## 5812     112xx         NY 18.63           0         Nov-2004             0
## 5814     104xx         NY 28.96           0         Mar-1983             1
## 5819     140xx         NY  8.51           0         Feb-2007             1
## 5824     019xx         MA  9.42           1         Aug-2001             0
## 5833     981xx         WA  8.51           0         Aug-2005             0
## 5851     107xx         NY 17.38           0         Aug-1979             0
## 5857     802xx         CO 33.74           0         Jul-2005             1
## 5862     208xx         MD 23.51           0         Apr-1985             1
## 5866     970xx         OR 34.86           0         Jun-2006             1
## 5873     953xx         CA 20.63           1         Aug-2002             1
## 5877     190xx         PA 16.52           1         Nov-2008             0
## 5891     121xx         NY 20.13           1         Jun-2000             1
## 5914     760xx         TX 18.14           0         Aug-1996             1
## 5936     953xx         CA 10.08           0         Jun-1991             0
## 5961     480xx         MI 14.11           3         May-2004             2
## 5969     226xx         VA 12.90           1         Nov-2003             1
## 5983     088xx         NJ 23.93           0         Oct-1983             0
## 5984     370xx         TN  4.02           0         Oct-1995             0
## 5993     210xx         MD  7.98           0         Oct-2006             1
## 5995     481xx         MI 32.81           1         Mar-2001             2
## 6016     598xx         MT 19.38           0         Feb-2010             1
## 6022     080xx         NJ  4.48           1         May-1999             0
## 6026     831xx         WY 23.28           0         Nov-2003             0
## 6040     381xx         TN 19.86           0         Dec-2007             2
## 6042     145xx         NY 23.14           0         Nov-2002             0
## 6058     346xx         FL 14.17           0         Apr-1999             0
## 6067     330xx         FL 21.40           0         Sep-1997             0
## 6081     293xx         SC 12.50           0         Nov-1994             0
## 6095     112xx         NY  8.05           0         Jan-1996             3
## 6098     379xx         TN 36.95           0         Jan-2002             0
## 6103     223xx         VA 12.07           1         Feb-2001             0
## 6107     303xx         GA 18.46           0         Jul-2006             0
## 6108     403xx         KY 29.28           0         Oct-1998             2
## 6110     494xx         MI  9.02           0         Sep-1995             1
## 6112     064xx         CT 24.82           0         Jul-2009             1
## 6125     890xx         NV 22.31           0         Sep-1995             1
## 6137     800xx         CO 11.64           0         Apr-1995             1
## 6143     784xx         TX 27.15           1         Jul-2005             0
## 6153     342xx         FL 15.69           0         May-2002             2
## 6166     370xx         TN 14.38           0         May-1988             1
## 6198     370xx         TN  7.68           0         Oct-1988             1
## 6215     891xx         NV 22.64           1         Mar-1993             0
## 6216     986xx         WA 19.46           0         Mar-1996             0
## 6220     981xx         WA 16.36           1         Mar-2005             3
## 6226     752xx         TX 18.94           0         Apr-2005             1
## 6235     605xx         IL 16.38           0         Feb-2003             1
## 6245     606xx         IL 20.99           0         Dec-1969             0
## 6252     925xx         CA 17.71           1         Feb-2012             0
## 6261     100xx         NY  6.79           1         Mar-2005             3
## 6268     601xx         IL 28.57           0         Jun-2004             1
## 6302     773xx         TX  8.31           3         Jan-2003             0
## 6304     217xx         MD  9.56           3         May-2003             2
## 6331     760xx         TX 20.22           0         Aug-2001             1
## 6337     967xx         HI 26.89           1         Dec-1997             0
## 6373     480xx         MI 13.35           0         Feb-1999             1
## 6379     802xx         CO 26.96           0         Mar-2008             0
## 6397     190xx         PA 20.28           0         Aug-2009             1
## 6401     940xx         CA 15.41           0         Sep-1994             0
## 6438     729xx         AR 21.63           0         Mar-1999             1
## 6442     295xx         SC 19.05           0         Sep-2006             1
## 6447     217xx         MD 12.95           0         Jul-2004             2
## 6450     212xx         MD  7.79           1         Aug-1999             0
## 6464     158xx         PA 15.48           0         Jul-1997             1
## 6506     557xx         MN 18.54           0         Jan-2008             1
## 6513     335xx         FL  9.33           4         Dec-2004             0
## 6519     762xx         TX  5.54           0         Jun-2003             0
## 6520     773xx         TX  8.55           0         Dec-2005             2
## 6580     433xx         OH 13.89           0         Nov-2008             1
## 6616     104xx         NY 30.43           2         Apr-2014             1
## 6652     906xx         CA 20.64           1         Dec-2000             0
## 6667     328xx         FL 13.70           1         Oct-2006             0
## 6688     021xx         MA 19.69           1         Nov-2005             1
## 6693     717xx         AR 20.96           3         Jun-1993             1
## 6727     483xx         MI 31.40           0         Sep-1993             3
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## 6732     853xx         AZ 31.89           0         Jan-2005             1
## 6735     222xx         VA 15.87           0         Jun-1998             1
## 6746     277xx         NC 35.45           0         Apr-2005             0
## 6754     913xx         CA 14.10           0         Oct-1982             0
## 6770     754xx         TX 18.90           0         May-2007             2
## 6789     781xx         TX 34.62           0         Jun-2006             2
## 6803     021xx         MA 20.08           0         Apr-1996             0
## 6819     052xx         VT 16.94           2         Jul-2011             0
## 6820     011xx         MA  8.12           0         Sep-1997             2
## 6822     808xx         CO 18.19           0         Jan-1986             0
## 6824     207xx         MD 33.32           4         Jul-1997             1
## 6834     386xx         MS 16.07           0         Jan-1981             1
## 6841     333xx         FL 21.48           1         Feb-2006             0
## 6843     765xx         TX  8.07           0         Aug-2005             0
## 6858     630xx         MO 14.27           3         Aug-1998             0
## 6860     945xx         CA  8.49           2         Jul-2009             1
## 6889     960xx         CA 29.78           0         Mar-2004             0
## 6891     110xx         NY 26.93           1         Dec-1996             0
## 6894     028xx         RI 11.70           0         Jul-1998             0
## 6896     372xx         TN 13.26           0         Oct-2006             0
## 6899     378xx         TN 20.26           0         Sep-2005             0
## 6900     975xx         OR 15.68           0         Feb-2004             0
## 6917     011xx         MA 25.80           0         Jan-2000             0
## 6919     287xx         NC 17.99           1         May-2000             0
## 6923     977xx         OR 23.90           0         Jun-2005             0
## 6934     982xx         WA 21.07           2         Oct-1997             1
## 6941     207xx         MD 14.99           0         Nov-1995             0
## 6954     367xx         AL 10.44           0         Jul-2007             1
## 6957     974xx         OR 21.43           0         Apr-2002             0
## 6960     194xx         PA 21.68           0         Aug-2001             1
## 6962     371xx         TN 16.84           0         Mar-1993             1
## 6965     815xx         CO 15.22           0         Feb-1999             0
## 6971     023xx         MA 12.76           1         Feb-2004             0
## 6977     785xx         TX 23.06           0         Nov-2004             2
## 6989     235xx         VA 27.35           1         Sep-2003             1
## 7001     110xx         NY 17.18           0         Dec-2004             1
## 7008     270xx         NC 19.06           2         Jul-1995             1
## 7009     019xx         MA  3.34           1         Jul-1994             0
## 7012     300xx         GA 15.47           0         Mar-1987             0
## 7017     306xx         GA  7.24           0         Nov-2007             0
## 7033     450xx         OH 29.56           0         Sep-2006             0
## 7037     891xx         NV 10.93           0         Mar-2005             1
## 7057     021xx         MA 27.77           0         Nov-1995             0
## 7060     761xx         TX 34.16           1         Jul-1991             0
## 7064     313xx         GA 16.24           0         Aug-1999             3
## 7085     492xx         MI 17.10           0         Nov-1987             2
## 7129     206xx         MD 17.53           0         Oct-2003             0
## 7138     908xx         CA 17.47           0         May-2005             2
## 7145     793xx         TX 17.06           1         Jan-2006             1
## 7160     333xx         FL 13.42           0         Apr-2006             1
## 7174     980xx         WA 28.84           4         Oct-1995             1
## 7187     662xx         KS 15.52           0         Apr-2002             2
## 7189     917xx         CA 29.97           0         Jul-1990             3
## 7215     342xx         FL 13.82           0         Jan-1975             0
## 7216     877xx         NM 18.00           0         Mar-1996             0
## 7238     925xx         CA 14.44           2         Apr-2014             0
## 7266     337xx         FL  7.30           0         Dec-2004             0
## 7271     921xx         CA 14.10           0         Sep-1993             0
## 7281     891xx         NV 19.16           0         Nov-2007             0
## 7284     334xx         FL 26.10           0         Jan-1999             0
## 7318     711xx         LA 12.77           1         Nov-1994             2
## 7343     875xx         NM 26.01           1         Mar-2005             0
## 7354     275xx         NC 25.46           0         Nov-1991             0
## 7373     926xx         CA  9.02           0         Jul-1992             0
## 7380     112xx         NY  3.36           3         Sep-2008             1
## 7382     028xx         RI 25.80           1         Aug-1984             0
## 7383     530xx         WI 26.93           0         Dec-2001             0
## 7411     760xx         TX 17.64           0         Jun-1998             0
## 7439     337xx         FL 14.47           0         Jan-2002             0
## 7466     950xx         CA 12.34           0         Oct-1990             1
## 7476     082xx         NJ 24.11           0         Nov-1989             0
## 7521     069xx         CT 18.00           0         May-2011             0
## 7522     301xx         GA 26.36           0         Sep-2005             0
## 7544     838xx         ID 13.54           0         May-2006             0
## 7548     780xx         TX 30.42           0         Feb-2007             1
## 7560     891xx         NV 23.67           0         Oct-2005             2
## 7578     442xx         OH 21.17           1         Jun-2004             1
## 7581     989xx         WA 17.68           0         Nov-2001             1
## 7583     672xx         KS 31.93           0         Jul-2012             0
## 7616     782xx         TX 21.11           0         Dec-1991             0
## 7628     372xx         TN  4.42           0         Jan-1997             3
## 7641     913xx         CA 12.70           1         Aug-2009             1
## 7648     157xx         PA 28.29           0         Mar-1993             0
## 7664     985xx         WA 17.44           0         Aug-2005             0
## 7682     388xx         MS  9.70           0         Oct-2003             0
## 7736     442xx         OH 22.23           0         Apr-1986             0
## 7750     730xx         OK 21.53           1         Mar-1994             0
## 7753     948xx         CA  9.64           0         Nov-1992             3
## 7775     607xx         IL 19.76           3         Sep-1994             0
## 7785     380xx         TN 25.18           1         Feb-2007             1
## 7799     302xx         GA 26.79           0         Nov-1999             1
## 7809     330xx         FL 13.26           0         May-2012             0
## 7810     631xx         MO  6.45           0         Jan-2006             1
## 7812     300xx         GA 19.89           0         Dec-1998             0
## 7815     331xx         FL 23.18           1         Aug-1998             0
## 7825     300xx         GA 18.44           0         May-1993             0
## 7830     444xx         OH 13.14           0         Apr-2001             3
## 7845     330xx         FL 16.75           0         Sep-2009             0
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## 7863     460xx         IN 34.25           0         Apr-2008             0
## 7867     385xx         TN 32.84           1         Oct-2000             1
## 7877     480xx         MI 27.85           0         Aug-2001             1
## 7886     802xx         CO 18.58           3         Aug-2003             0
## 7892     483xx         MI 13.31           0         Jan-2005             2
## 7897     086xx         NJ 28.29           0         Aug-2003             1
## 7906     088xx         NJ 27.89           0         Nov-1980             1
## 7927     727xx         AR  9.68           1         Dec-2006             1
## 7943     223xx         VA 20.91           0         Jun-2006             1
## 7970     622xx         IL 29.72           1         Aug-2013             2
## 7994     700xx         LA 10.94           3         Apr-1988             0
## 8010     023xx         MA 23.59           1         Feb-2006             0
## 8016     117xx         NY 11.55           1         Jan-2008             0
## 8045     480xx         MI 18.13           2         Sep-2003             0
## 8081     229xx         VA 19.39           0         Nov-2001             0
## 8090     425xx         KY 12.38           0         Jun-2008             1
## 8114     405xx         KY  9.41           0         Aug-2004             1
## 8124     727xx         AR 19.85           0         Feb-1999             1
## 8131     282xx         NC 16.40           0         Jun-1987             1
## 8139     782xx         TX 38.78           0         May-1998             1
## 8150     970xx         OR 10.33           0         Apr-2003             1
## 8158     956xx         CA  4.07           0         Oct-2010             0
## 8163     606xx         IL 10.43           1         Jan-1990             0
## 8168     010xx         MA 14.98           0         Jan-2002             1
## 8191     806xx         CO  9.74           0         May-2003             0
## 8205     853xx         AZ 24.03           0         May-2004             0
## 8219     280xx         NC 22.93           0         Feb-2006             0
## 8225     333xx         FL 33.99           0         Apr-2010             0
## 8251     301xx         GA 24.07           0         Oct-2005             0
## 8253     945xx         CA 23.65           0         Sep-1998             1
## 8263     076xx         NJ  7.89           2         Nov-2010             3
## 8271     100xx         NY 19.96           0         Aug-1993             0
## 8285     114xx         NY 12.16           0         Sep-2011             2
## 8296     193xx         PA  9.07           2         Jul-2005             0
## 8300     277xx         NC 12.16           0         Jul-2003             0
## 8326     851xx         AZ 25.48           2         Aug-1986             0
## 8343     982xx         WA  6.99           0         Jan-2005             1
## 8349     430xx         OH 20.55           0         Oct-2006             0
## 8365     752xx         TX 13.00           0         Jun-1995             0
## 8381     604xx         IL 33.98           0         May-2005             0
## 8398     681xx         NE 24.37           0         Nov-2007             0
## 8402     300xx         GA 31.39           0         Sep-2005             0
## 8422     223xx         VA 11.42           0         Jun-2002             2
## 8423     760xx         TX 21.08           0         May-2007             1
## 8442     957xx         CA  9.42           0         Apr-1999             1
## 8458     967xx         HI  8.66           0         Dec-1998             0
## 8468     983xx         WA 26.39           0         Feb-2005             2
## 8469     770xx         TX 12.10           0         Mar-2012             1
## 8486     290xx         SC 20.45           0         Apr-1996             0
## 8508     453xx         OH 13.11           0         May-2008             1
## 8521     351xx         AL 28.12           1         Mar-1991             1
## 8527     982xx         WA  8.15           0         Apr-2008             1
## 8551     959xx         CA 15.77           1         Jun-2004             1
## 8561     498xx         MI 28.35           0         Apr-2003             0
## 8591     082xx         NJ  7.91           0         Oct-1996             0
## 8604     127xx         NY 11.52           0         Mar-2008             0
## 8613     956xx         CA 22.28           1         Jan-2007             2
## 8615     201xx         VA 20.32           0         Jul-2002             0
## 8616     934xx         CA 16.82           3         Apr-2012             1
## 8628     488xx         MI 12.06           0         Sep-2006             0
## 8629     078xx         NJ 19.74           8         Aug-1996             0
## 8642     925xx         CA 14.85           0         Oct-1996             0
## 8643     850xx         AZ  6.11           0         Feb-2009             1
## 8650     102xx         NY 15.25           0         May-1995             2
## 8660     302xx         GA 26.44           0         Oct-2005             3
## 8662     970xx         OR 25.37           0         Oct-2007             0
## 8683     302xx         GA 17.97           1         Nov-2007             1
## 8689     125xx         NY 19.55           0         Feb-2005             0
## 8700     936xx         CA 15.89           1         Oct-2004             0
## 8703     986xx         WA 25.00           0         Dec-2003             0
## 8705     330xx         FL 17.48           0         Sep-2003             1
## 8708     115xx         NY 10.50           0         Dec-2004             3
## 8731     212xx         MD 12.91           1         Jan-2007             0
## 8737     362xx         AL 25.51           0         Nov-1993             0
## 8739     958xx         CA  4.43           4         Jul-1997             0
## 8744     180xx         PA  8.42           1         Feb-2009             1
## 8769     331xx         FL 24.20           1         Nov-1994             1
## 8797     146xx         NY 12.84           3         Sep-2000             1
## 8818     679xx         KS 14.19           1         Jul-2011             0
## 8820     852xx         AZ 14.03           1         Mar-2002             0
## 8821     797xx         TX 14.85           1         Dec-2002             0
## 8837     800xx         CO 26.22           1         Jun-2000             1
## 8843     600xx         IL 12.10           1         Jul-1996             0
## 8844     290xx         SC 17.71           0         Feb-2007             0
## 8848     070xx         NJ 10.39           0         Dec-2003             1
## 8858     685xx         NE 20.52           0         Oct-2002             1
## 8869     992xx         WA 13.15           0         Apr-2003             0
## 8881     951xx         CA 14.29           0         Aug-1998             1
## 8882     890xx         NV 22.57           1         Jan-2008             0
## 8887     070xx         NJ  9.71           0         Nov-2003             1
## 8892     402xx         KY 35.39           0         Dec-2005             0
## 8894     329xx         FL 15.11           0         Jan-2008             2
## 8899     329xx         FL 28.64           0         Oct-2004             0
## 8903     937xx         CA 14.40           2         Nov-2004             0
## 8908     027xx         MA 18.18           1         May-2005             0
## 8925     708xx         LA 25.17           1         Jun-2006             1
## 8932     606xx         IL 14.51           0         Oct-2006             0
## 8947     945xx         CA 31.33           1         Mar-1994             0
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## 8964     993xx         WA 20.25           3         Oct-2013             0
## 8986     331xx         FL 35.84           0         Aug-2003             2
## 9008     760xx         TX  1.69           0         Sep-2006             0
## 9011     853xx         AZ 10.52           0         May-2006             0
## 9013     100xx         NY 25.64           0         Sep-1999             0
## 9021     727xx         AR  8.40           0         Apr-1988             1
## 9023     333xx         FL 22.32           0         Oct-2009             0
## 9054     910xx         CA 19.17           0         Oct-1989             0
## 9084     926xx         CA 17.96           0         Jan-2008             1
## 9088     871xx         NM  9.09           0         Dec-1997             0
## 9129     802xx         CO 10.88           0         Oct-2000             0
## 9142     750xx         TX  8.73           0         Jan-1996             0
## 9146     750xx         TX  5.50           2         Oct-1997             3
## 9168     778xx         TX 11.55           1         Oct-2001             0
## 9175     786xx         TX 17.83           0         Aug-2000             0
## 9185     201xx         VA 18.70           0         Sep-2005             1
## 9191     802xx         CO 12.57           0         Mar-2000             0
## 9206     924xx         CA 17.89           0         Dec-1992             0
## 9208     080xx         NJ 15.61           0         Aug-1999             0
## 9235     780xx         TX 10.62           1         May-2011             1
## 9269     207xx         MD 30.00           0         Aug-2001             0
## 9287     227xx         VA 12.32           0         Jun-2010             1
## 9313     058xx         VT 17.43           0         Mar-1998             0
## 9317     391xx         MS  8.53           1         Jan-2004             0
## 9318     331xx         FL 18.90           1         Oct-1982             0
## 9322     068xx         CT 12.93           1         Jan-1997             2
## 9349     666xx         KS 28.45           0         Apr-2005             0
## 9359     606xx         IL 13.18           1         Aug-2001             0
## 9360     483xx         MI 20.52           0         Oct-2000             0
## 9368     945xx         CA  7.48           0         Mar-1998             3
## 9369     760xx         TX 19.39           0         Mar-1997             0
## 9389     142xx         NY 12.77           0         Jul-1992             1
## 9417     117xx         NY 17.15           0         May-2005             1
## 9420     959xx         CA 15.56           0         Oct-2004             0
## 9423     800xx         CO 14.67           0         Feb-2003             1
## 9428     320xx         FL 17.78           1         Apr-2008             0
## 9449     751xx         TX  8.36           2         Dec-2006             3
## 9490     194xx         PA 24.19           0         Nov-2004             1
## 9494     066xx         CT  4.68           1         Nov-2007             2
## 9513     336xx         FL 15.64           0         Nov-2006             0
## 9518     794xx         TX 26.28           0         Apr-2006             0
## 9533     236xx         VA 18.39           1         Sep-2002             0
## 9548     779xx         TX 17.56           0         Nov-2004             0
## 9561     212xx         MD 12.09           0         Nov-1996             2
## 9563     346xx         FL 18.53           0         Dec-1993             0
## 9568     494xx         MI  9.59           0         Jan-2004             0
## 9576     490xx         MI 23.40           0         Aug-2003             1
## 9588     852xx         AZ 11.97           2         Aug-2000             0
## 9634     231xx         VA  9.15           1         Aug-2002             0
## 9645     296xx         SC 10.40           0         Jul-2009             1
## 9660     551xx         MN 27.53           0         Oct-2006             1
## 9663     190xx         PA 18.73           1         Sep-1979             1
## 9675     112xx         NY 11.56           2         Aug-2006             1
## 9678     331xx         FL 21.12           4         Mar-1995             0
## 9686     900xx         CA 26.81           0         Dec-2004             0
## 9707     622xx         IL 15.73           0         Jun-2001             1
## 9708     293xx         SC 15.27           1         Nov-2005             3
## 9720     462xx         IN 15.92           0         May-1999             0
## 9724     146xx         NY 30.18           0         Oct-1998             0
## 9730     442xx         OH 22.91           0         Jan-2006             1
## 9739     400xx         KY 25.91           1         Nov-1998             1
## 9749     100xx         NY 10.07           1         May-1998             0
## 9759     335xx         FL 21.38           3         Sep-2003             2
## 9771     630xx         MO 13.82           0         Dec-1996             0
## 9802     085xx         NJ 28.27           0         Sep-2007             0
## 9807     921xx         CA 22.42           0         Sep-2004             0
## 9818     331xx         FL 18.22           0         Dec-2001             0
## 9822     320xx         FL  7.90           1         Apr-1991             0
## 9823     331xx         FL 12.90           0         Nov-2006             0
## 9869     074xx         NJ 19.80           0         Oct-2005             2
## 9885     721xx         AR 15.14           0         Sep-2005             0
## 9916     916xx         CA  3.22           0         Aug-1996             2
## 9935     088xx         NJ 12.05           0         Apr-2006             0
## 9965     083xx         NJ 12.96           1         May-2003             0
## 9981     300xx         GA  8.00           0         Aug-1987             0
## 9985     951xx         CA  9.26           0         Aug-1992             0
## 9986     300xx         GA 12.15           0         Jun-2005             0
## 10009    770xx         TX 11.70           0         Nov-2002             0
## 10012    019xx         MA 12.51           0         Aug-1992             0
## 10027    207xx         MD 10.98           0         Feb-1985             0
## 10068    070xx         NJ 39.80           0         Oct-2006             2
## 10074    545xx         WI 39.86           0         Jul-1990             2
## 10076    087xx         NJ  6.11           0         Dec-2002             1
## 10092    850xx         AZ 22.78           0         Dec-1996             2
## 10101    027xx         MA 17.52           0         Nov-2003             0
## 10124    068xx         CT 13.92           0         Jun-2001             0
## 10128    898xx         NV 28.92           0         Jun-2005             0
## 10129    300xx         GA  5.48           5         Mar-2004             1
## 10141    053xx         VT  8.77           1         Oct-2007             3
## 10142    334xx         FL 16.73           0         Dec-1985             1
## 10163    894xx         NV  8.12           1         May-2005             0
## 10165    293xx         SC 24.89           0         Mar-2012             0
## 10179    481xx         MI 15.76           0         May-1989             2
## 10188    301xx         GA 11.79           0         Dec-2006             3
## 10210    451xx         OH 20.24           0         Nov-2000             0
## 10220    070xx         NJ 16.06           0         Feb-2001             1
## 10221    207xx         MD 22.22           1         Jul-1988             0
## 10240    028xx         RI 10.02           1         Sep-2006             1
```

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## 10246    301xx         GA  6.69           1         May-1983              0
## 10249    121xx         NY 31.02           0         Jul-2002              2
## 10262    939xx         CA  8.29           0         May-2007              1
## 10265    927xx         CA 14.04           1         Aug-2000              0
## 10278    482xx         MI  4.94           1         Jun-2001              2
## 10288    496xx         MI  9.28           0         Jan-2007              0
## 10319    282xx         NC 14.51           0         Apr-1999              0
## 10328    550xx         MN  9.14           0         Jan-2001              0
## 10329    741xx         OK 21.05           1         May-1991              2
## 10335    346xx         FL 29.53           0         Feb-2006              0
## 10339    198xx         DE 19.40           2         May-2003              0
## 10366    290xx         SC 24.16           1         May-1996              1
## 10371    546xx         WI 13.52           1         Dec-2000              0
## 10385    104xx         NY 32.54           1         Aug-2007              1
## 10387    933xx         CA 10.34           0         May-1990              0
## 10417    220xx         VA 10.86           4         Sep-2003              2
## 10448    921xx         CA 18.08           0         Mar-2011              0
## 10449    980xx         WA 20.44           0         Sep-2001              0
## 10453    346xx         FL 30.42           0         Oct-2002              3
## 10455    669xx         KS 22.93           0         Oct-2003              0
## 10460    282xx         NC 32.40           0         Oct-2001              0
## 10464    322xx         FL 16.53           1         Feb-1993              0
## 10471    833xx         ID 21.32           2         Mar-2007              0
## 10482    301xx         GA 20.46           0         Apr-2007              2
## 10491    633xx         MO 28.68           4         Apr-2006              0
## 10494    553xx         MN 31.73           1         Jul-2009              0
## 10508    242xx         VA 25.84           1         Jan-1985              0
## 10517    020xx         MA 21.80           0         Jul-1985              0
## 10530    300xx         GA 15.36           0         May-2000              0
## 10532    806xx         CO 33.48           0         Jul-2012              1
## 10535    983xx         WA 31.74           0         Sep-2003              1
## 10545    832xx         ID  7.62           0         Oct-2003              0
## 10570    900xx         CA 19.56           0         Jun-2006              1
## 10573    921xx         CA 27.55           0         Dec-1990              0
## 10576    182xx         PA 11.69           1         Mar-2001              0
## 10579    395xx         MS 10.49           0         May-2002              0
## 10582    874xx         NM 13.89           1         Sep-1978              0
## 10592    921xx         CA  7.83           0         Aug-2009              2
## 10595    782xx         TX  6.95           0         Apr-2004              1
## 10601    906xx         CA 10.40           0         Oct-2011              0
## 10614    300xx         GA 13.16           1         Oct-1983              0
## 10620    906xx         CA 22.80           1         Mar-1993              0
## 10632    641xx         MO 14.31           0         Mar-2003              1
## 10641    958xx         CA 17.72           0         Apr-1997              3
## 10646    300xx         GA 13.29           0         Jun-1988              1
## 10655    494xx         MI 32.48           0         Apr-1997              0
## 10658    294xx         SC  9.56           3         Sep-2001              0
## 10661    296xx         SC 21.04           4         Jul-1996              0
## 10680    029xx         RI 17.50           0         Jul-1994              0
## 10689    336xx         FL 29.36           0         May-1973              1
##       mths_since_last_delinq open_acc pub_rec revol_bal revol_util total_acc
## 16                        28        6       0         0        0.0        12
## 38                        42       10       0      7950       59.8        26
## 47                        79       11       0      9183       15.1        17
## 77                        65        3       0      1023       51.1         8
## 88                        29       15       0     16647       32.1        24
## 112                       43       14       0     37210       86.3        33
## 133                       64        8       0     22635       47.2        21
## 135                       23        8       0       650        8.3        10
## 145                       16       12       0     12795       79.0        22
## 169                       28       15       0      9028       34.1        34
## 180                       49        7       0      3458        6.0        36
## 191                       14        8       0      9010       73.9        18
## 208                       79       15       0      6359       30.3        46
## 222                       57        8       1      6949       39.3        13
## 226                        8       12       0     35274       50.7        30
## 231                        6       18       0     30784        3.5        39
## 243                       39        4       0      3873       35.2        11
## 244                       38       21       0      1542        4.9        39
## 250                       55        7       0         0        0.0        12
## 260                       35        9       1      2247        8.5        26
## 271                        3       17       0      7596       51.0        25
## 277                       29       16       0     21025       40.3        30
## 284                        7        9       1       968        7.4        29
## 292                       32       17       0      3380       12.4        72
## 295                       62        9       0     12544       19.1        21
## 311                       37        8       0     14107       82.0        15
## 355                       47       14       0     18655       64.3        47
## 376                       56       19       0     22322       48.2        47
## 385                       31       10       0      7155       77.8        40
## 392                       26       12       0     16095       26.6        22
## 400                       21       16       0     20911       36.8        34
## 402                       38       12       0     10284       31.0        29
## 413                       41       13       1      7185       61.4        40
## 421                       26       10       0      6919       26.2        27
## 423                       12       22       0     15383       27.4        30
## 424                       66        8       0      9752       81.3        20
## 440                        9        8       0      4804       38.7        22
## 444                       57       10       0     18677       59.3        50
## 509                       56        6       0      9790       20.9        13
## 524                       33        8       0      2840       40.6        21
## 542                       51       27       0      8349       38.7        40
## 581                       74        8       0      8791       51.4        14
## 593                       13       14       0     18108       51.9        29
## 620                      110       15       1     17994       64.7        25
## 669                       28       11       0     45689       42.5        35
## 679                       24       17       0     12032       20.6        32
## 695                       36       22       0     41419       39.4        55
```

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## 698                    66        9       0     12129       30.5        10
## 726                    47       10       1      2159       13.4        34
## 750                    36       16       0      6422       12.2        27
## 755                     8       11       0     17654       72.4        20
## 791                    66       23       1      2298        4.6        41
## 796                    81       19       0      4952        9.9        43
## 805                    77        6       1      1126        3.5        28
## 806                    11       20       0      8077       63.1        73
## 821                    31       13       0      3564       19.9        29
## 837                    76       16       0     17924       53.2        63
## 841                    39       13       0     11402       25.5        31
## 843                    47       22       0      7109       39.3        29
## 860                    51       18       0     31467       41.2        28
## 862                     9       19       0     10908       68.2        29
## 891                    65        9       1      2721       34.0        33
## 911                    12       11       0      4441       51.0        18
## 921                    70       17       0     36960       47.5        35
## 930                    59       11       0     14784       48.2        22
## 952                    33        7       1     16398       78.1        23
## 956                    32       13       0      6015       54.7        19
## 958                     7        9       0     13394       38.7        22
## 967                    57        7       0     22309       84.5        16
## 974                    19       14       0     11135       74.2        26
## 982                     3       15       0         0        0.0        57
## 1014                   60        6       1      3067       37.4        19
## 1022                   45       30       0    213324       30.1        49
## 1045                   45        5       0      4677       20.5        33
## 1051                   22       15       0     10563       60.4        31
## 1075                   72       22       0     24304       24.5        33
## 1097                   42       15       0     12536       21.0        35
## 1099                   66       14       0     25029       61.5        23
## 1104                   55        8       0      7859       25.5        23
## 1107                   48       12       0       180        0.4        32
## 1119                   10       28       0      7853       11.7        39
## 1125                   17        4       0       544       68.0         8
## 1166                   81        8       1      9060       32.7        10
## 1167                   34        8       0      5187       92.6        11
## 1172                   31       18       0      5501        6.3        66
## 1173                   80        7       0     13391       83.2        10
## 1175                   42        5       0     13470       93.5        14
## 1177                    5       12       0      9719       25.3        17
## 1193                   43        5       0      6334       35.2        16
## 1200                    7       16       0     33223       67.4        24
## 1206                   48       10       0      7486       39.2        31
## 1223                    3        6       0         0        0.0        23
## 1230                   78       12       0      8396       50.6        19
## 1238                   27        9       0      5632        0.0        13
## 1245                   32       12       0      4371       12.0        28
## 1250                   48       26       0     29934       64.7        37
## 1272                   11       16       0     11503       35.1        30
## 1282                   46       15       0      6428       27.6        55
## 1283                   18       16       1     37082       82.4        29
## 1298                    9       10       0     22719       59.0        23
## 1300                   75       15       0      4868       32.7        35
## 1308                    8        9       0         0        0.0        33
## 1321                   73       13       1     17055       43.8        41
## 1322                   31       14       0      8198       30.5        40
## 1327                   13       22       0     34672       61.3        40
## 1374                   16        7       0      3523       17.8        13
## 1378                   41        8       0       969       12.3        38
## 1385                   45       10       0      3213       14.5        25
## 1411                    3       11       0     12914       37.8        36
## 1415                    6       24       0      9924       23.3        46
## 1463                   59        7       0      4685       28.2        17
## 1517                   32        8       0       345        2.2        14
## 1531                   13       19       0      9894       24.5        64
## 1598                   49       12       0     25915       38.9        16
## 1609                   20       16       1      5730       26.8        22
## 1638                   18        5       0      5151       88.8        13
## 1684                   22       11       0      9909       75.2        20
## 1710                   23       10       0      4770       23.5        22
## 1713                    7        6       0      7842       17.0        30
## 1722                   61       21       0    190562       35.1        42
## 1733                   72        7       0     16026       40.1        20
## 1742                   64        5       0      2604       11.3        19
## 1770                   38        9       0     15585       61.8        31
## 1777                    5       39       0     19977       16.6        70
## 1779                   43       10       0     16844       92.0        18
## 1781                   80        9       0     17557       41.7        13
## 1808                   35        9       0      3109        7.0        20
## 1814                   15       13       0     18567       77.0        26
## 1832                   16        6       0      4970       66.3        12
## 1834                   26       17       0     17984       46.7        43
## 1841                   68        9       0     28550       50.9        42
## 1858                   61        7       0      3101       91.2        12
## 1872                   36       16       0     10486       89.6        26
## 1888                   52        9       0       488        1.1        25
## 1908                   40        5       0      7447       59.6        11
## 1912                   12       21       0     16638       30.4        40
## 1918                   29       23       0     24660       35.1        33
## 1923                   39       14       1     10677        9.9        34
## 1931                   65        9       1      5675       23.4        37
## 1940                   20       16       0     18791       30.5        34
## 1941                   47       17       1      6166       18.9        24
## 1966                   40       13       0      4758       36.6        28
## 1967                   45       13       0      7730       21.5        19
## 1969                   59        8       0      7201       73.5        21
## 1993                   24        7       0      9267       46.1        19
```

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## 2000                    6       6       0     12781       19.3        12
## 2020                   31      26       0     16511       39.6        46
## 2021                    9       7       0      2550        4.5        27
## 2022                    6      22       0     22776       54.6        45
## 2024                   65      20       0     15251       48.7        25
## 2062                   16      14       0     11170       23.6        27
## 2064                   24      10       0      8444       26.4        23
## 2110                   40      19       0     11338       24.2        46
## 2134                   32      17       0      8565       13.3        41
## 2141                   57      10       0     15623       54.1        32
## 2152                    9      15       0     35611       43.0        28
## 2164                   17      19       0      2554        8.7        41
## 2188                   79      13       0      1809       22.6        24
## 2195                   37       8       0     15801       80.2        19
## 2205                    9      15       0     29384       32.0        31
## 2223                   21       7       0      2349        6.0        26
## 2228                   15      10       0      7847       71.1        38
## 2237                   77       8       0     18083       55.6        14
## 2266                   19       9       0     10377       62.5        18
## 2269                   60       4       0     13167       62.1        14
## 2276                   13      15       0    146101       29.8        45
## 2282                   44      14       0     12173       59.1        16
## 2291                   10      17       0      5727       20.0        24
## 2299                   22      10       0      9995       32.3        23
## 2309                   27      10       0      7472       48.2        13
## 2311                   17      12       0     56118       82.0        25
## 2317                   71       8       0     15033       60.7        19
## 2324                   32      15       0     12470       55.4        24
## 2360                   51      10       0     10665       17.1        18
## 2366                   17      28       0     10678       10.0        38
## 2372                   29       4       0      9060       62.5        18
## 2391                   53      10       1     10234       64.0        15
## 2451                    2      16       0       156        0.8        38
## 2466                   32      18       0     15747       53.4        30
## 2487                   60      12       0     16628       60.5        28
## 2498                   49       9       0      5048       72.1        17
## 2507                   37       6       0      8963       81.5        13
## 2553                   18      14       0      1062        2.0        39
## 2570                   61      25       0      2197        3.4        35
## 2573                   15      20       0     20929       37.0        41
## 2594                   60       8       0      7522       20.6        22
## 2632                   28       9       0      4177       57.2        20
## 2644                   32      15       0     18424       48.0        38
## 2665                   66       9       0     12245       81.1        26
## 2666                   44       5       0     10545       64.7        17
## 2680                   41      18       0      7779       15.6        37
## 2682                   79       7       0      6155       58.1         9
## 2688                   23      10       0      6676       39.0        11
## 2697                   34       6       0      5879       65.3        12
## 2704                   31       9       0      3090        9.1        16
## 2739                   76       9       0      7812       60.6        18
## 2741                   58       7       0     21253       82.4        20
## 2750                   40       8       1      1320       17.8        30
## 2751                   59      10       0      8412       24.7        39
## 2754                   19       8       0      6489       39.1        15
## 2762                   34       9       0      8494       31.8        14
## 2764                   20      10       0      1792       30.9        17
## 2778                   29       8       0      3676       47.1        21
## 2802                   54       7       0       399        1.8        15
## 2818                   47       8       0      3869       47.2        25
## 2822                   56      12       0      7046       12.6        29
## 2841                   15      12       0      4598       29.7        20
## 2848                   39       9       0      5488       24.1        14
## 2888                   61      11       0     43642        8.0        21
## 2922                   41      16       0     50421       89.2        34
## 2941                   19       9       0      7174       62.4        23
## 2956                   41      16       1     13384       43.0        29
## 2970                   27       8       1      5363       26.2        26
## 2986                   34      18       0     11684       41.9        26
## 3006                   80       7       1      2187       24.6        16
## 3030                   47      12       0      5988       16.4        21
## 3035                   17      14       0     12491       73.9        36
## 3044                   61      12       0     17502       57.0        38
## 3048                    8       8       0      9455       63.0        11
## 3063                   33      15       0      5012       15.1        61
## 3064                   59      25       0      8898       20.0        52
## 3072                   79       6       0      8102       62.8        11
## 3080                   57      11       1       419        2.3        29
## 3082                    7      17       0     16328       28.2        42
## 3097                   55      10       0       280        0.9        19
## 3098                   38       7       0      5982       34.2        43
## 3135                   28       3       0      2768       46.1        10
## 3151                   35      10       0     23780       90.4        19
## 3153                   31      12       0      2080        6.7        23
## 3171                   46      12       0     10259       39.3        26
## 3205                    7      12       0      5123       15.8        21
## 3217                   34      15       0     22857       81.2        35
## 3225                   83      16       0      4208        6.0        33
## 3227                   19       6       0      2651       75.7        21
## 3234                   43      16       0      9361       20.9        30
## 3239                   49      19       0     10493       15.1        33
## 3247                   68      20       0     21724       60.0        44
## 3331                   40      12       0      3856       26.6        49
## 3334                   55      12       0      2796       14.6        19
## 3372                   41       9       0     10187       43.0        10
## 3379                   14      13       0     16692       45.0        19
## 3393                   77      10       0      9224       87.0        15
## 3395                   20      17       0     10473       63.1        35
```

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## 3403                    23        8       0     10656       23.7        18
## 3410                    45       10       1      8560       77.8        28
## 3413                     6       18       0     20215       59.9        22
## 3417                    47       12       0     20545       62.1        51
## 3487                    64       12       1     62863       85.9        18
## 3513                     9       17       0     31788       57.4        28
## 3521                    42       12       1       485        1.0        25
## 3532                    17       28       0     28887       54.0        41
## 3558                    38       10       0      4768       33.1        26
## 3562                     5        9       0     13432       29.8        17
## 3571                    15       28       0     19825       27.3        64
## 3574                    60        3       0      2071       18.0        12
## 3581                    26        6       0      8300       82.2        10
## 3589                    27       20       0      2139        8.2        34
## 3605                    46       14       0      2373       13.6        28
## 3630                    40       15       1      7514       35.1        30
## 3631                    34       13       0      1459        4.4        23
## 3640                    79       17       0     27912       43.2        38
## 3642                    32       14       0     16777       30.8        33
## 3644                     8       11       0      2936       14.7        14
## 3653                    48       26       0     16794       36.6        45
## 3662                    44       12       1      2029       10.2        24
## 3663                    34       12       0     21181       37.5        45
## 3691                    15       19       0     17129       55.6        31
## 3713                    20       11       0     13455       16.5        39
## 3726                    64       21       1     14192       23.3        35
## 3746                    21       18       1      1547        4.5        40
## 3751                    29        6       0      6103       42.4        16
## 3757                    35       11       0      7964       64.2        27
## 3761                    78       22       0     23540       38.4        72
## 3763                    64        9       0     16329       54.8        25
## 3770                    12       10       1      6121       42.8        21
## 3774                    20        4       0      1829       57.2        13
## 3775                     1        6       0       889        2.2        13
## 3786                    45       15       0       853        3.5        43
## 3809                    19        9       1      5561       32.0        17
## 3824                    49       14       0     11827       35.4        36
## 3832                    27       10       1      7972       35.0        30
## 3845                    33        3       0       839        6.0         6
## 3864                    68        5       0      4913       55.8        17
## 3877                    22        4       0      3984       99.6        15
## 3890                    52       23       0      9799       22.6        39
## 3907                    68       11       0      7914       22.5        27
## 3918                    35       20       0      4811       17.4        27
## 3925                    59       11       0      2658       32.8        18
## 3927                    81       19       0      4078       16.8        32
## 3945                    47       12       0      4110       28.0        23
## 3946                     4       16       0      8688       11.4        32
## 3972                    64       13       0      8860       31.9        26
## 3986                    27       11       0      3116       12.1        32
## 3988                    11       20       0      9050       23.7        65
## 4008                    45       10       0      1871       19.9        33
## 4015                    12       17       0      7873       28.4        34
## 4039                    77       15       0      3574       31.1        22
## 4047                    10        4       0      5969       13.9        13
## 4056                    13        4       0         0        0.0        18
## 4076                    62        4       0       344        3.8         9
## 4090                    19       21       0      4349       13.0        42
## 4103                    24       23       0      2095        3.9        47
## 4160                    15       12       0      5889       32.7        15
## 4164                    61        7       0     13861       47.1        28
## 4188                     7       16       0     24980       61.2        70
## 4222                    26        9       0      4660       27.4        14
## 4231                    18       12       1      7856       21.6        25
## 4236                    68       12       0     59641       93.9        25
## 4256                    46       12       0      8075       32.4        20
## 4282                    18        7       0      3205       27.4        12
## 4286                    72       16       0     10447       45.2        25
## 4306                    28       21       0      9154       28.7        28
## 4308                    58       17       0      8640       36.6        29
## 4313                    17        9       0     13422       46.9        14
## 4355                    30        6       0      2090       18.5         8
## 4358                    46       19       1     23814       31.7        44
## 4375                    25        5       0      5382       76.9        22
## 4383                    64        7       0     23718       97.6        13
## 4387                    45       19       0     10020        6.9        27
## 4404                    15       11       1      4476       47.6        28
## 4420                    64       12       0     13153       37.4        32
## 4449                     9       11       0      7465       18.9        34
## 4455                    31       14       0     17673       28.6        27
## 4463                    24       18       0      5062       17.0        28
## 4490                    17       19       0      4281       15.5        33
## 4495                    47        5       1      5542       18.9        11
## 4505                    33       13       0      8350       25.5        23
## 4507                    78       12       1     15685       57.7        20
## 4540                     5       15       0     14928       30.8        33
## 4553                    68        9       0      8592       67.1        24
## 4579                    29       25       0      6939       11.9        77
## 4591                    13        6       0     14196       59.4        22
## 4593                    38        9       0      4119       44.3        10
## 4599                    42       10       0     36967       61.5        27
## 4607                    67       11       0      5237       18.6        16
## 4636                    37       27       0     37717       36.8        54
## 4659                    32       14       0       910        2.0        23
## 4667                    53       20       0     28604       84.4        30
## 4670                    71       30       0     27005       27.5        46
## 4676                    65       13       0     18414       16.5        22
## 4678                    21       13       0     27242       52.6        21
```

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## 4679                    73        8       0     13127       59.7        22
## 4687                    16        6       0     16707       69.9        18
## 4697                    79       19       0     21756       52.7        27
## 4709                     7       16       0      2819       10.7        20
## 4725                    27        6       0      3046       59.7        25
## 4741                    23       22       0     22616       40.4        31
## 4777                    50       17       0     19216       41.5        37
## 4781                    46       14       0      1801        7.1        31
## 4796                    70        3       0       117        2.3        16
## 4807                    54       17       0    126943       89.9        34
## 4808                    76       33       0     12593        8.3        82
## 4822                    42       13       0     70778       67.2        33
## 4830                    41       10       0     12440       40.3        22
## 4849                    70       15       0     11433       16.4        43
## 4853                    10       14       0     12685       93.3        45
## 4854                    40       11       0     27874       45.8        33
## 4859                    69       12       0      3820       25.0        22
## 4897                    17       11       0      9109       78.5        23
## 4966                    66        9       0      3629       15.3        42
## 4975                    12       13       0     11716       73.7        30
## 4991                    54        6       0         0        0.0        10
## 5016                    27        8       0      6457       58.2        18
## 5020                    24        8       0      2860       39.2        28
## 5024                    16       16       0      3443       16.5        18
## 5026                    10        9       0     11890       58.6        23
## 5040                    53       10       0     26808       87.6        28
## 5058                    24       11       0      5543       52.3        19
## 5078                     7       18       0     21836       43.3        25
## 5082                    64       19       0     19041       68.5        28
## 5092                    34       16       0     27379       62.8        46
## 5140                    14       32       0     11571       10.2        99
## 5143                    41       13       0      4527       61.2        20
## 5148                     4        8       0         0        0.0        11
## 5188                    13       18       0     15144       32.1        33
## 5203                    20       13       1     10723       49.6        29
## 5214                    20        8       0      6832       56.0        21
## 5224                    32        8       0     12543       49.4        25
## 5229                    60       16       0      7270        9.7        54
## 5281                     9        6       0      1034       20.3        29
## 5290                    23        8       0     35292       77.9        13
## 5310                    44        5       0     57815      102.2        15
## 5327                    26       15       1      5186       24.6        20
## 5331                    77       10       1      5655       19.6        25
## 5334                    35        7       0     10184       27.0        30
## 5335                    73       20       0     35809       46.1        39
## 5336                    28        9       0      3090       22.9        39
## 5349                    14       13       0      6659       22.7        40
## 5353                    53       12       1     16912       40.1        31
## 5370                    42        6       0     14582       23.2        14
## 5381                    21       12       0     10838       30.7        26
## 5385                    55       14       0       669        7.4        70
## 5396                    33        7       0      5179       19.4        22
## 5408                    60       14       0     16406       61.7        27
## 5415                    16       14       1     93313       32.7        43
## 5424                    61        9       0     17324       43.6        14
## 5428                    63       11       0      3157        5.3        19
## 5450                    10        9       0      1216       19.0        25
## 5474                    46       10       0      1581        9.5        31
## 5480                    27        4       0      6509       76.6        15
## 5486                    54       10       0       200        2.4        36
## 5509                    18        8       0      2084       27.1        31
## 5518                     7        9       0        90        0.5        17
## 5523                    78       12       0     25563       62.3        23
## 5534                    19        7       0      3758       19.8        18
## 5536                    61       15       1      6326       16.5        34
## 5541                    40       11       0      9103       24.0        28
## 5551                    65       18       0       664        1.3        37
## 5557                    13        4       0        95        0.5         7
## 5562                    40       17       0      4387       49.9        17
## 5584                    37        5       0      2059        9.8         9
## 5588                    26        8       0     10365       79.1        17
## 5598                    39        6       0     15293       69.2        17
## 5599                    72       13       0     17152       62.6        28
## 5625                    43       11       0     20074       33.8        24
## 5626                    39       22       0     17792       35.9        65
## 5633                    40       18       0     23522       58.4        34
## 5641                    71        9       0      2065       11.2        44
## 5674                    31       10       0      6878       40.2        17
## 5693                    10        9       0      3484       33.2        37
## 5697                    14        7       0     10970       76.7        23
## 5704                    64       10       0     31960       72.0        17
## 5712                     5       16       1      6796       33.2        36
## 5761                    45       10       1      6277       22.2        20
## 5763                    46       23       0      1177        1.8        70
## 5796                    53        9       0      7500       67.4        14
## 5797                    64       20       0     28510       59.6        28
## 5800                    28       12       0      3069       17.5        61
## 5808                    25       13       0     24644       64.7        23
## 5812                    77       23       0     11838       31.9        35
## 5814                    47       19       0    103120       78.5        44
## 5819                    71       12       0     10527       31.1        32
## 5824                    18       10       0     16881       47.2        16
## 5833                    80        6       0     10952       31.4        10
## 5851                    60       20       0     10915       18.7        60
## 5857                    27       21       1     23232       42.7        34
## 5862                    29       33       0    233811       63.1        47
## 5866                    38       11       0     26132       80.7        37
## 5873                     5       15       0     10710       25.6        26
```

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## 5877                    23       13       0      3640       15.0        19
## 5891                     9       26       0     15481       30.4        53
## 5914                    38       13       0     17067       36.6        20
## 5936                    52       19       0     11485       15.4        28
## 5961                     9        5       0      1544       57.2        16
## 5969                     9       20       0     11485       65.3        27
## 5983                    40       10       0      7059       28.8        24
## 5984                    63       11       0     12079       30.3        25
## 5993                    40       11       0      8482       42.6        15
## 5995                     3       12       0     58347       42.1        32
## 6016                    53        7       0       164        3.4        20
## 6022                     3        7       0      5119       57.5        15
## 6026                    24        7       0      7619       72.6        22
## 6040                    76       12       0      9883       27.5        19
## 6042                    82       13       0     60381       27.5        23
## 6058                    37       13       0     34166       51.2        33
## 6067                    34        8       0     11491       53.2        14
## 6081                    36       10       0     66765       19.6        18
## 6095                    24       18       0     13340       24.1        37
## 6098                    75        9       0      8511       48.1        16
## 6103                    21       11       0      1847        8.9        23
## 6107                    80       11       1      7900       23.0        27
## 6108                    67       13       0     12789       48.4        27
## 6110                    75        9       1     17370       56.4        23
## 6112                    28       27       1     16561       54.7        32
## 6125                    28       23       0      2790        6.9        43
## 6137                    24       16       0      9886       26.6        45
## 6143                    16       15       0      6012       17.1        45
## 6153                    36       12       0      6469       45.6        25
## 6166                    40       15       0       611        1.5        29
## 6198                    82        9       0      9326       36.9        24
## 6215                     7       12       0     18739       40.4        23
## 6216                    58       22       0      4147        6.9        36
## 6220                    13       10       0     20318       69.8        25
## 6226                    76        9       0     14490       62.5        22
## 6235                    28       12       1     11337       39.9        32
## 6245                    27       10       0      8920       39.8        27
## 6252                    18        9       0      7422       56.2        16
## 6261                    23       13       1      4855       12.0        41
## 6268                    26        7       1      8575       55.0        22
## 6302                    17       11       0      1151       28.1        21
## 6304                     8       13       1      1533       24.0        56
## 6331                    38       31       0     19289       85.0        41
## 6337                    16        5       0      2010       17.0         7
## 6373                    51       12       0     79360       52.1        30
## 6379                    25        5       0       843       44.4         7
## 6397                    68       11       0      2612       14.4        15
## 6401                    39       24       0     13957       23.0        45
## 6438                    33       18       0     40705       57.0        28
## 6442                    31        8       0     13678       77.7        17
## 6447                    61       23       0     17654       51.0        29
## 6450                     1       13       0     17953       44.9        29
## 6464                    63        7       0      1037        8.1        18
## 6506                    65       10       1      3133       55.0        17
## 6513                    11       10       0      5013       25.6        28
## 6519                    50        9       0      9061       41.8        11
## 6520                    33       11       0      1238        4.4        14
## 6580                    38       13       0       904        5.9        33
## 6616                    23        6       0      1046       17.4         7
## 6652                    22       16       0        16        0.0        50
## 6667                    20        4       0      1030       60.6        14
## 6688                    10       12       0     21636       81.0        19
## 6693                    14       23       0      8411       57.2        36
## 6727                    53       16       0     84686       71.8        42
## 6732                    56        8       1      4067       20.3        16
## 6735                    26       10       0     20696       34.4        29
## 6746                    41       18       0     15230       41.5        32
## 6754                    33       24       0     11410       33.5        45
## 6770                    35       14       0      5109       36.2        23
## 6789                    30       13       0     25684       69.6        28
## 6803                    51       11       1     15968       62.1        24
## 6819                    19        6       0      1466       18.1        13
## 6820                    64        6       0      3882       51.8        23
## 6822                    75       10       1     10303       61.7        20
## 6824                    11       13       0      7568       42.0        33
## 6834                    28       13       0      9827       24.6        31
## 6841                    23        6       1      9549       39.5        10
## 6843                    37        4       0      3028       27.3         8
## 6858                     4       20       0     13573       39.1        29
## 6860                    14        3       0       427       32.8         9
## 6889                    43        6       0      5622       71.2        14
## 6891                    16       22       0      8488       33.2        40
## 6894                    44        6       0     24557       46.3        35
## 6896                    39       15       0      3254       22.3        19
## 6899                    27       23       0     22800       44.6        64
## 6900                    78       11       0      9307       30.4        20
## 6917                    33        8       0      7622       57.3        22
## 6919                    12        7       0     24433       95.8        26
## 6923                    46        9       0     17492       64.1        17
## 6934                    15        9       0      3466       62.2        30
## 6941                    24       11       1     31282       80.2        23
## 6954                    68       18       0      2514        7.5        33
## 6957                    37       13       0     15590       35.1        17
## 6960                    81       10       0     24612       55.3        24
## 6962                    37       16       0      3632       15.1        26
## 6965                    40        6       0      7035       54.5        21
## 6971                     8       12       0     31020       60.1        30
## 6977                    32       15       0      5989       31.0        45
```

```
## 6989                    16       17       0     12546       37.5        39
## 7001                    40       11       1     23208       41.3        24
## 7008                    15       10       0      3113       33.1        24
## 7009                     7        9       0      3692       41.0        16
## 7012                    66       12       1      3001       13.0        19
## 7017                    44        5       0       408        6.2        18
## 7033                    71        8       0      7381       59.0        31
## 7037                    32       15       0     17239       54.4        23
## 7057                    45       15       0     21617       60.7        49
## 7060                    17       17       0      4433       29.4        27
## 7064                    51       15       0      9385       25.2        39
## 7085                    67       11       0      5350       31.1        18
## 7129                    30       13       0     13665       33.5        23
## 7138                    74       24       0     59352       39.1        43
## 7145                    21       12       0      3326       66.5        14
## 7160                    67       17       0         8        0.0        42
## 7174                     3       19       0     14004       36.0        40
## 7187                    29       15       0      8754       36.2        25
## 7189                    25       12       0     13206       40.6        35
## 7215                    53        7       0      5772       52.0        20
## 7216                    38       25       0     15731       11.5        42
## 7238                    19       10       0      9437       64.6        12
## 7266                    43        8       0      3692        8.6        15
## 7271                    29       14       0     10982       25.8        24
## 7281                    81        9       0      9966       46.8        17
## 7284                    48        9       0    113569       92.5        22
## 7318                     5       16       0     15724       33.5        33
## 7343                    22       11       0     18647       76.1        17
## 7354                    45       11       0     40365       61.8        19
## 7373                    66        8       0      7487       36.7        11
## 7380                    15       15       0      9327       44.8        18
## 7382                     5       17       0     37989       63.4        36
## 7383                    35        6       0     10799       30.2        12
## 7411                    33       17       1     19810       32.1        35
## 7439                    51       10       0      6452       43.9        19
## 7466                    36       13       7      6117       36.8        26
## 7476                    36       12       0      6401       52.9        48
## 7521                    45        4       0      4002       70.2         6
## 7522                    55       19       0     28689       37.9        38
## 7544                    43       14       0     18573       34.8        27
## 7548                    62       19       0      5035       35.5        37
## 7560                    52       19       0     19093       40.0        45
## 7578                    18       11       1     35046       84.4        29
## 7581                    47        7       0      8068       57.6        18
## 7583                    48        8       0     10999       67.3         9
## 7616                    65       14       0     53992       85.6        17
## 7628                    62        6       0      6056       37.9        16
## 7641                    16       12       0      4375       42.9        17
## 7648                    57       10       0       696        5.2        22
## 7664                    67       34       0     48650       76.0        72
## 7682                    39       11       0       973       10.2        24
## 7736                    55       27       1     27154       56.3        36
## 7750                    23       28       0     49991       59.9        45
## 7753                    27        6       0      2209       33.0        13
## 7775                    15       30       0     13706       23.9        51
## 7785                     8        8       1      7869       29.1        20
## 7799                    51       17       0      4051       21.1        42
## 7809                    40       10       0      2953       16.7        16
## 7810                    72       15       0      3882        3.1        43
## 7812                    28       10       0     32510       95.7        23
## 7815                    11       24       0     49626       53.2        36
## 7825                    80       19       0     80277       62.7        40
## 7830                    37       27       0     14368       45.2        41
## 7845                    79       11       0      9327       61.8        13
## 7863                    50       20       0     38337       78.2        35
## 7867                    17       13       0      9562       51.7        25
## 7877                    38       10       1      3504       18.2        17
## 7886                    11       13       0     14348       72.8        28
## 7892                    50        6       2        70        1.1        12
## 7897                    26       14       0      1262       14.8        25
## 7906                    24       27       0     46090       72.6        43
## 7927                    21        7       0     16343       46.7        63
## 7943                    38       21       0     13797       60.2        41
## 7970                     8       19       0      3083        5.5        23
## 7994                    16       12       0     10144       73.0        22
## 8010                    16       15       1     11025       46.1        29
## 8016                    23        9       0       640       13.3        19
## 8045                    17       10       0      1824       12.8        39
## 8081                    49        7       0     17717       48.8        14
## 8090                    59       12       0       721       21.2        25
## 8114                    37        5       0      4119       50.2         8
## 8124                    60        8       1      7938       50.6        17
## 8131                    80       10       0      9871       36.6        17
## 8139                    59       15       0     25103       46.5        46
## 8150                    27        7       0     21926       64.9        25
## 8158                    24       12       0      2986       67.9        15
## 8163                     8        8       0      5664       26.0        17
## 8168                    29       13       0     19350       83.8        18
## 8191                    66        8       0      8325       51.1        22
## 8205                    71       15       0     55870       75.9        27
## 8219                    80        6       0      8644       37.7        14
## 8225                    39       24       0      5378       43.4        45
## 8251                    52       11       0     18095       65.8        22
## 8253                    71       23       1     23432       54.0        53
## 8263                     4       14       0     90232        5.2        25
## 8271                    29       25       1     17338       38.8        40
## 8285                    29        9       0      7178       44.6        23
## 8296                    11       10       0     16814       68.6        15
```

```
## 8300                    41        9       0     12237       29.3        19
## 8326                     9       13       0      4382       14.4        34
## 8343                    63        6       0      6906       39.9        16
## 8349                    51       13       0     10023       28.6        23
## 8365                    37       14       0     19188       75.8        25
## 8381                    44       12       0     36501       79.5        28
## 8398                    73        8       0      7287       80.1        13
## 8402                    33       20       0      6800       34.0        40
## 8422                    28       10       0      9408       37.9        20
## 8423                    62       11       0     14245       61.9        29
## 8442                    47       11       3      5117       33.7        23
## 8458                    29        7       0     10270       82.8        18
## 8468                    44       15       0     20380       72.0        36
## 8469                    38       18       0     11943       56.6        23
## 8486                    41        8       0     14636       69.4        28
## 8508                    27        7       0     15904       60.0        15
## 8521                    12       21       0     28325       30.8        47
## 8527                    65       25       0     22046       65.0        37
## 8551                     8        8       0      1946       21.4        13
## 8561                    64       11       0     19062       80.4        39
## 8591                    54        4       0      7943       81.1        17
## 8604                    24        6       0      6678       29.5        22
## 8613                    22       37       0      3368        5.4        73
## 8615                    33        9       0      7887       49.9        15
## 8616                    13       23       0      8974       29.9        24
## 8628                    36        7       0      8729       45.2        14
## 8629                    12        7       0      5686       77.9        34
## 8642                    54       11       0     19147       37.0        24
## 8643                    33        7       0       243        0.7        10
## 8650                    73       16       0     74511       73.3        32
## 8660                    28       27       0      6429       20.6        35
## 8662                    42        6       4      8874       42.5        16
## 8683                    21        7       0      2242       19.2        36
## 8689                    37       19       0     10617       23.8        28
## 8700                    16       16       1      8274       33.6        22
## 8703                    53       16       0     17653       39.7        45
## 8705                    56       10       0     15678       43.2        45
## 8708                    73       10       0      3320       13.4        20
## 8731                    15        6       0     15787       56.2        13
## 8737                    46        6       0      5585       39.6        22
## 8739                     9       13       1     10256       34.0        30
## 8744                     8        5       1       159        4.2        20
## 8769                     5        8       0     32159       84.4        11
## 8797                     6       17       0      5147       90.3        34
## 8818                    16        4       0     10483       48.5        15
## 8820                     5       17       0     11136       36.8        41
## 8821                    21       12       0      2175        8.6        34
## 8837                    13       18       0     19764       78.4        45
## 8843                    12        9       0     11715       58.0        21
## 8844                    68       19       0      9009        8.2        48
## 8848                    27       11       1      7698       40.1        15
## 8858                    37        7       1      8414       39.5        15
## 8869                    72        6       0      5798       43.9        15
## 8881                    75        6       0      5856       55.2        12
## 8882                    21        9       0      7975       33.6        23
## 8887                    39       12       0      6935       51.4        15
## 8892                    33       22       0      1682        6.6        49
## 8894                    79       10       1      2920       15.9        27
## 8899                    26        6       0     26941       69.9        20
## 8903                    17        4       0       740       37.0        17
## 8908                     6       10       0      8761       27.0        21
## 8925                    15       11       0       216        1.0        36
## 8932                    27       23       0     16927       29.9        32
## 8947                     5       27       0     18643       22.0        55
## 8964                     9        9       0     11442       53.2        16
## 8986                    29       19       0     19069       44.3        29
## 9008                    43       11       0      1986       37.5        18
## 9011                    40        4       0       328        4.3        17
## 9013                    64       15       0      3566       11.2        22
## 9021                    26        7       0      1604       34.9        25
## 9023                    25        8       0      3875       16.6        13
## 9054                    72       16       0     43763       89.3        28
## 9084                    38        9       0     13618       75.2        18
## 9088                    81        6       0       832       13.2        18
## 9129                    50       12       0       934        4.2        16
## 9142                    68        9       0      5202       13.7        28
## 9146                    22       11       0      9048       55.2        35
## 9168                     8       18       0      2568        6.9        47
## 9175                    44        8       0      9134       45.7        23
## 9185                    43       25       0     19658       13.0        48
## 9191                    39        8       0      4806       41.1        22
## 9206                    58       14       0       284        0.2        21
## 9208                    26       24       0      5149       15.8        45
## 9235                    23       11       0      5610       17.9        15
## 9269                    32       16       0     16253       33.7        25
## 9287                    36        7       0      8180       68.2        15
## 9313                    98       10       0      1803       22.8        25
## 9317                    17       10       0      3954       50.7        17
## 9318                     6       12       0      4691       10.5        43
## 9322                    21        8       0      5724       84.2        24
## 9349                    38        7       0     13171       39.1        18
## 9359                    14       13       0      3136       10.3        40
## 9360                    72       13       1     13364       57.9        24
## 9368                    75        5       0       527        5.4        10
## 9369                    68       13       0     12233       31.4        33
## 9389                    62       18       0     20352       36.0        50
## 9417                    25       14       0      3061       18.3        18
## 9420                    24        9       0     11657       24.1        16
```

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## 9423                    32      12      0      6460      42.2        21
## 9428                    14      19      1      8552      29.6        57
## 9449                    17      10      0        12       0.1        22
## 9490                    81      16      0      5060      12.3        30
## 9494                    17      13      0      8635      39.3        18
## 9513                    41       8      0     10723      61.3        12
## 9518                    37       8      0      6550      73.6        17
## 9533                     8      13      1     25212      71.0        44
## 9548                    55       9      0     11246      35.9        14
## 9561                    59       7      0     16347      57.0        23
## 9563                    25       7      1      3392      25.7        17
## 9568                    60      16      0     14716      28.0        48
## 9576                    33      14      0      7322      35.2        21
## 9588                     9      10      1      9497      59.7        23
## 9634                     6       9      0      8076      60.3        21
## 9645                    78      10      0      8832      53.2        17
## 9660                    38      12      0     20973      84.2        28
## 9663                     8       7      1      5061      31.2        16
## 9675                    14      18      0      1820      13.3        42
## 9678                    14      20      1     14748      32.4        32
## 9686                    59      16      1     15344      70.1        27
## 9707                    30      10      0      8627      52.3        44
## 9708                     4      19      0      3246      13.2        27
## 9720                    67      10      0     12596      64.6        31
## 9724                    51      16      0      2554       6.6        38
## 9730                    52       9      0      4605      39.0        13
## 9739                    20      11      0     15369      77.2        18
## 9749                    13      19      0      4480       8.1        36
## 9759                    16      20      0     11796      29.4        32
## 9771                    30      11      0      7321      20.6        25
## 9802                    32       8      0      5378      43.0        22
## 9807                    29       8      0     26446      84.5        21
## 9818                    64      10      0      5307      37.6        24
## 9822                    23       9      0      1882      18.8        10
## 9823                    65      24      0         0       0.0        32
## 9869                    27      12      0      5978      36.9        28
## 9885                    36      18      0      5931      23.4        57
## 9916                    40      27      0     15318      26.3        45
## 9935                    25       6      0      5524      51.6         9
## 9965                     3      14      0      6480      22.1        24
## 9981                    35      17      1     15661      72.8        25
## 9985                    36       7      0    198909       6.2        17
## 9986                    42       8      1      4706      21.1        12
## 10009                   50      16      0       947       4.0        18
## 10012                   24      12      0      5538      33.8        18
## 10027                   27      16      1     13095      21.3        29
## 10068                   27      25      0      7168      12.5        46
## 10074                   38      13      0     41865      53.5        32
## 10076                   32      10      0     16526      24.9        17
## 10092                   26      10      0      3956      45.5        50
## 10101                   46       8      0      2550      39.2        14
## 10124                   37      15      0      8180      33.3        45
## 10128                   49      17      0     17944      27.8        28
## 10129                   15      15      0     11398      30.6        29
## 10141                    6       7      1      5012      52.8        11
## 10142                   43      18      0     33444      37.9        35
## 10163                   12      12      0      5605       7.1        25
## 10165                   40      11      0      8448      46.7        15
## 10179                   36       7      0     10562      56.2        14
## 10188                   51      11      0     11685      35.7        19
## 10210                   47      14      0      9655      21.0        22
## 10220                   69      10      1      5119      48.3        32
## 10221                   19       6      0      6377      35.4        19
## 10240                   22      15      0     10097      30.6        23
## 10246                    7      23      0     29939      40.9        47
## 10249                   69      18      0     27743      57.2        39
## 10262                   41       8      0      4428      40.3        12
## 10265                   11      32      0     14822      13.2        60
## 10278                   23      19      0     17751      33.7        39
## 10288                   89       7      0         0       0.0        12
## 10319                   66      14      0     13621      45.1        24
## 10328                   35       8      0      5998      64.5        12
## 10329                   17      10      0      9301      72.1        34
## 10335                   29      11      0      9688      31.8        44
## 10339                   21      10      0      9440      49.9        20
## 10366                   19      11      0     11517      53.3        29
## 10371                    6      13      0      2637       5.4        22
## 10385                   13      23      0     11783      21.3        51
## 10387                   67      21      0      7340       6.8        59
## 10417                    8       6      0      5361      49.2        31
## 10448                   32      13      0     34181      62.8        16
## 10449                   68       7      0      7073      90.7        25
## 10453                   33      21      0     35720      55.8        37
## 10455                   29      11      0     11953      60.8        29
## 10460                   35      13      0     12093      39.6        16
## 10464                   22       5      0      5340      92.1        15
## 10471                   17       7      0      3134      49.7        31
## 10482                   34       6      0     12236      60.6        22
## 10491                   12      17      0      9593      22.4        24
## 10494                   19      23      0     11956      27.1        29
## 10508                   12       7      0     18716      41.0        21
## 10517                   36      11      0      6578      22.1        23
## 10530                   47       9      0      2538       8.1        27
## 10532                   39      13      1      3647      22.2        17
## 10535                   63      21      1     60326      64.0        60
## 10545                   75      13      0     11890      25.5        31
## 10570                   25       7      0     10812      71.6        13
## 10573                   59       9      1     10786      75.4        16
```

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## 10576                    8       13       0     15844       59.3        27
## 10579                   31        8       0      7248       76.3        22
## 10582                    8       20       0    125409       81.4        47
## 10592                   59       17       0       875        3.2        40
## 10595                   30       13       0      9627       39.9        18
## 10601                   24        6       0         2        0.0        15
## 10614                    9       11       2      8112       57.5        23
## 10620                    6       11       0      6653       65.2        27
## 10632                   26        4       0     23108       48.3        34
## 10641                   60       15       2      6475       24.5        29
## 10646                   65       13       0     10913       22.4        25
## 10655                   89        8       0      4714       31.4        20
## 10658                   13       11       0      1631        8.7        24
## 10661                    5       18       0     12293       31.8        39
## 10680                   43        6       0      9492       68.8        18
## 10689                   62        7       0     49332       81.8        20
##       initial_list_status out_prncp out_prncp_inv total_pymnt total_pymnt_inv
## 16                      f         0             0    1031.577         1031.58
## 38                      f         0             0    1014.588         1014.59
## 47                      w         0             0   20347.294        20347.29
## 77                      w         0             0   10182.029        10182.03
## 88                      f         0             0   18028.086        17752.66
## 112                     w         0             0    4105.244         4105.24
## 133                     w         0             0   20500.475        20500.48
## 135                     f         0             0       0.000            0.00
## 145                     w         0             0   12033.930        12033.93
## 169                     f         0             0   10200.182         9919.68
## 180                     w         0             0   15003.622        15003.62
## 191                     w         0             0    9512.972         9512.97
## 208                     w         0             0    3009.823         3009.82
## 222                     f         0             0   15008.133        14983.12
## 226                     f         0             0   30021.580        30021.58
## 231                     w         0             0    8847.865         8847.86
## 243                     w         0             0   30023.010        30023.01
## 244                     w         0             0    5429.488         5429.49
## 250                     w         0             0   17781.020        17781.02
## 260                     w         0             0   22513.109        22513.11
## 271                     w         0             0    1055.432         1055.43
## 277                     w         0             0   10183.582        10183.58
## 284                     w         0             0    8404.555         8404.56
## 292                     w         0             0    4105.125         4105.12
## 295                     w         0             0   10061.425        10061.42
## 311                     w         0             0   20016.611        20016.61
## 355                     w         0             0   12101.406        12101.41
## 376                     w         0             0   24678.997        24679.00
## 385                     w         0             0   17009.570        17009.57
## 392                     w         0             0   35715.714        35715.71
## 400                     w         0             0   15024.521        15024.52
## 402                     w         0             0   20365.695        20365.69
## 413                     w         0             0    7362.703         7362.70
## 421                     w         0             0   10240.878        10240.88
## 423                     w         0             0   20673.655        20673.66
## 424                     w         0             0   20035.859        20035.86
## 440                     w         0             0   31199.173        31199.17
## 444                     w         0             0    8120.256         8120.26
## 509                     w         0             0   41148.070        41148.07
## 524                     w         0             0   10008.440        10008.44
## 542                     w         0             0    6262.993         6262.99
## 581                     w         0             0   10919.716        10919.72
## 593                     w         0             0   35022.714        35022.71
## 620                     w         0             0    6035.574         6035.57
## 669                     w         0             0   35904.123        35904.12
## 679                     w         0             0    6002.762         6002.76
## 695                     w         0             0   26197.339        26197.34
## 698                     w         0             0   12237.191        12237.19
## 726                     w         0             0   15263.677        15263.68
## 750                     w         0             0   10671.927        10671.93
## 755                     f         0             0    8004.659         8004.66
## 791                     w         0             0    7964.734         7964.73
## 796                     w         0             0   30844.915        30844.92
## 805                     w         0             0   25520.383        25520.38
## 806                     w         0             0    8139.243         8139.24
## 821                     w         0             0   17297.285        17297.29
## 837                     w         0             0    8342.061         8342.06
## 841                     w         0             0   13914.464        13914.46
## 843                     w         0             0    2013.940         2013.94
## 860                     w         0             0       0.000            0.00
## 862                     f         0             0    2455.589         2455.59
## 891                     w         0             0    3559.285         3559.28
## 911                     w         0             0   18527.188        18527.19
## 921                     f         0             0   18904.032        18904.03
## 930                     w         0             0   18433.656        18433.66
## 952                     w         0             0    9673.563         9673.56
## 956                     w         0             0   21120.643        21120.64
## 958                     w         0             0   11837.644        11837.64
## 967                     w         0             0   36899.747        36899.75
## 974                     w         0             0    9785.054         9785.05
## 982                     w         0             0    5147.932         5147.93
## 1014                    w         0             0    8603.597         8603.60
## 1022                    w         0             0   36875.681        36875.68
## 1045                    w         0             0    8051.653         8051.65
## 1051                    w         0             0   19880.349        19880.35
## 1075                    w         0             0   12825.697        12825.70
## 1097                    w         0             0    7384.693         7384.69
## 1099                    w         0             0    2042.188         2042.19
## 1104                    w         0             0    9962.753         9962.75
## 1107                    w         0             0   19928.700        19928.70
## 1119                    w         0             0   10005.428        10005.43
```

```
## 1125                    f         0             0    1065.227         1065.23
## 1166                    w         0             0    5001.814         5001.81
## 1167                    w         0             0   10335.371        10335.37
## 1172                    w         0             0   16194.307        16194.31
## 1173                    f         0             0   12007.331        12007.33
## 1175                    w         0             0   12375.603        12375.60
## 1177                    w         0             0    2065.352         2065.35
## 1193                    w         0             0   10563.120        10563.12
## 1200                    f         0             0   15030.731        15030.73
## 1206                    w         0             0    5196.289         5196.29
## 1223                    f         0             0   20945.217        20919.04
## 1230                    w         0             0   20526.517        20526.52
## 1238                    w         0             0   12817.604        12817.60
## 1245                    w         0             0    2458.405         2458.41
## 1250                    f         0             0   33631.450        33631.45
## 1272                    w         0             0    4280.142         4280.14
## 1282                    w         0             0    5101.971         5101.97
## 1283                    w         0             0   16148.550        16148.55
## 1298                    w         0             0   32575.640        32575.64
## 1300                    w         0             0   10647.306        10647.31
## 1308                    w         0             0   12181.800        12181.80
## 1321                    w         0             0   10812.750        10812.75
## 1322                    f         0             0   13934.358        13934.36
## 1327                    w         0             0   10336.698        10336.70
## 1374                    w         0             0    5722.063         5722.06
## 1378                    w         0             0    8557.143         8557.14
## 1385                    w         0             0   18898.820        18898.82
## 1411                    w         0             0    5140.626         5140.63
## 1415                    w         0             0   15483.026        15483.03
## 1463                    w         0             0   12605.570        12605.57
## 1517                    f         0             0   10253.212        10253.21
## 1531                    f         0             0    9734.194         9734.19
## 1598                    w         0             0   30492.373        30492.37
## 1609                    w         0             0   10003.640        10003.64
## 1638                    w         0             0    6394.360         6394.36
## 1684                    w         0             0    8215.392         8215.39
## 1710                    f         0             0    2582.991         2582.99
## 1713                    w         0             0   21334.938        21334.94
## 1722                    w         0             0   14302.650        14302.65
## 1733                    w         0             0   13589.745        13589.74
## 1742                    f         0             0    6662.749         6662.75
## 1770                    w         0             0   21101.390        21101.39
## 1777                    f         0             0    3074.790         3074.79
## 1779                    w         0             0    8404.035         8404.04
## 1781                    w         0             0   18260.239        18260.24
## 1808                    w         0             0    4581.530         4581.53
## 1814                    w         0             0   35464.803        35464.80
## 1832                    w         0             0    6077.834         6077.83
## 1834                    w         0             0   32003.629        32003.63
## 1841                    w         0             0   25347.409        25347.41
## 1858                    w         0             0    5732.159         5732.16
## 1872                    w         0             0   25263.757        25263.76
## 1888                    w         0             0    7027.440         7027.44
## 1908                    w         0             0   10621.600        10621.60
## 1912                    w         0             0   16692.685        16692.68
## 1918                    w         0             0   21288.669        21288.67
## 1923                    w         0             0   18440.379        18440.38
## 1931                    w         0             0    8185.630         8185.63
## 1940                    w         0             0   21667.503        21667.50
## 1941                    w         0             0   28269.677        28269.68
## 1966                    w         0             0   24018.101        24018.10
## 1967                    w         0             0    4508.982         4508.98
## 1969                    w         0             0   20822.575        20822.57
## 1993                    w         0             0   21294.426        21294.43
## 2000                    w         0             0   25341.712        25341.71
## 2020                    w         0             0   36808.171        36808.17
## 2021                    w         0             0   15514.894        15514.89
## 2022                    w         0             0   15295.596        15295.60
## 2024                    f         0             0    8404.653         8142.01
## 2062                    f         0             0   20173.247        20173.25
## 2064                    f         0             0    8231.944         8231.94
## 2110                    f         0             0   18379.413        18353.89
## 2134                    w         0             0   16102.377        16102.38
## 2141                    w         0             0   20394.653        20394.65
## 2152                    w         0             0    8609.457         8609.46
## 2164                    w         0             0   26106.357        26106.36
## 2188                    w         0             0    2453.346         2453.35
## 2195                    f         0             0    2526.250         2526.25
## 2205                    w         0             0     499.820          499.82
## 2223                    w         0             0    4609.711         4609.71
## 2228                    f         0             0    8432.748         8432.75
## 2237                    w         0             0   13300.326        13300.33
## 2266                    w         0             0   24602.450        24602.45
## 2269                    w         0             0   24099.440        24099.44
## 2276                    w         0             0   25538.457        25538.46
## 2282                    f         0             0   16814.317        16814.32
## 2291                    w         0             0    8353.715         8353.72
## 2299                    w         0             0    3709.531         3709.53
## 2309                    w         0             0   14296.722        14296.72
## 2311                    w         0             0   10652.278        10652.28
## 2317                    w         0             0    3623.098         3623.10
## 2324                    w         0             0   31338.905        31338.91
## 2360                    w         0             0   32811.067        32811.07
## 2366                    w         0             0   18581.052        18581.05
## 2372                    w         0             0    1529.824         1529.82
## 2391                    w         0             0   14049.271        14049.27
## 2451                    w         0             0   42894.528        42894.53
## 2466                    w         0             0   20510.810        20510.81
```

```
## 2487                w        0            0   36684.880        36684.88
## 2498                w        0            0    8441.724         8441.72
## 2507                w        0            0   13373.198        13373.20
## 2553                w        0            0    3072.214         3072.21
## 2570                w        0            0    3650.700         3650.70
## 2573                w        0            0    5569.065         5569.07
## 2594                f        0            0   20010.846        20010.85
## 2632                w        0            0    5753.052         5753.05
## 2644                f        0            0   11648.516        11648.52
## 2665                w        0            0    3375.748         3375.75
## 2666                w        0            0   17101.010        17101.01
## 2680                w        0            0     672.440          672.44
## 2682                w        0            0    1542.610         1542.61
## 2688                w        0            0   25927.657        25927.66
## 2697                w        0            0    6471.347         6471.35
## 2704                w        0            0    8234.860         8234.86
## 2739                w        0            0   11049.336        11049.34
## 2741                w        0            0    7776.716         7776.72
## 2750                w        0            0    7156.208         7156.21
## 2751                w        0            0   14743.845        14743.85
## 2754                w        0            0    9605.593         9605.59
## 2762                w        0            0    7854.187         7854.19
## 2764                f        0            0   10024.336         9999.28
## 2778                w        0            0    6323.788         6323.79
## 2802                w        0            0   19618.057        19618.06
## 2818                w        0            0   12703.621        12703.62
## 2822                w        0            0   17256.685        17256.68
## 2841                w        0            0   16298.052        16298.05
## 2848                w        0            0   10381.816        10381.82
## 2888                f        0            0   20762.896        20477.41
## 2922                w        0            0   15665.517        15665.52
## 2941                w        0            0    1046.908         1046.91
## 2956                w        0            0   20512.805        20512.81
## 2970                w        0            0   12322.354        12322.35
## 2986                w        0            0   16102.434        16102.43
## 3006                f        0            0   14415.209        14389.47
## 3030                w        0            0   23004.096        23004.10
## 3035                w        0            0     877.020          877.02
## 3044                f        0            0   22107.369        22107.37
## 3048                w        0            0    4002.000         4002.00
## 3063                w        0            0    8404.479         8404.48
## 3064                w        0            0   12471.269        12471.27
## 3072                w        0            0    7831.997         7832.00
## 3080                w        0            0   16073.721        16073.72
## 3082                w        0            0   20472.264        20472.26
## 3097                w        0            0   12388.536        12388.54
## 3098                w        0            0   12428.877        12428.88
## 3135                w        0            0    4030.177         4030.18
## 3151                w        0            0   25056.316        25056.32
## 3153                w        0            0    6355.635         6355.64
## 3171                f        0            0   25025.508        24775.25
## 3205                w        0            0   10341.464        10341.46
## 3217                f        0            0    5611.808         5611.81
## 3225                w        0            0   10215.229        10215.23
## 3227                w        0            0   16278.247        16278.25
## 3234                w        0            0   15974.662        15974.66
## 3239                w        0            0    7165.970         7165.97
## 3247                f        0            0   29899.702        29899.70
## 3331                f        0            0   36664.392        36638.20
## 3334                f        0            0    6018.080         6018.08
## 3372                w        0            0   10199.250        10199.25
## 3379                w        0            0   10905.788        10905.79
## 3393                w        0            0   14746.643        14746.64
## 3395                w        0            0   30869.754        30869.75
## 3403                w        0            0    9370.998         9371.00
## 3410                w        0            0    1615.624         1615.62
## 3413                f        0            0   22530.564        22503.74
## 3417                w        0            0   16218.837        16218.84
## 3487                f        0            0   16703.056        16675.22
## 3513                w        0            0    7498.702         7498.70
## 3521                w        0            0    2078.810         2078.81
## 3532                w        0            0   20637.407        20637.41
## 3558                f        0            0    5026.686         5026.69
## 3562                w        0            0   10262.838        10262.84
## 3571                w        0            0   17973.247        17973.25
## 3574                w        0            0    4535.810         4535.81
## 3581                w        0            0     693.820          693.82
## 3589                w        0            0    4537.031         4537.03
## 3605                w        0            0    9204.607         9204.61
## 3630                w        0            0   10683.547        10683.55
## 3631                w        0            0    8258.260         8258.26
## 3640                w        0            0   25689.538        25689.54
## 3642                f        0            0   15161.353        15161.35
## 3644                w        0            0    5536.352         5536.35
## 3653                w        0            0   15811.129        15811.13
## 3662                w        0            0   20797.083        20797.08
## 3663                w        0            0    2053.458         2053.46
## 3691                w        0            0    6121.424         6121.42
## 3713                w        0            0   18858.042        18858.04
## 3726                w        0            0   23613.351        23613.35
## 3746                w        0            0   17829.624        17829.62
## 3751                w        0            0   10406.813        10406.81
## 3757                w        0            0      97.460           97.46
## 3761                w        0            0   11307.225        11307.22
## 3763                w        0            0   15021.763        15021.76
## 3770                w        0            0   16008.635        16008.63
## 3774                w        0            0     671.120          671.12
## 3775                f        0            0    1000.820         1000.82
```

```
## 3786                w        0            0   14502.697        14502.70
## 3809                w        0            0    1580.030         1580.03
## 3824                w        0            0   13295.480        13295.48
## 3832                f        0            0     902.670          870.43
## 3845                w        0            0   10229.661        10229.66
## 3864                w        0            0    6677.224         6677.22
## 3877                f        0            0     106.060          106.06
## 3890                w        0            0   11686.828        11686.83
## 3907                w        0            0    8254.815         8254.81
## 3918                w        0            0    5000.003         5000.00
## 3925                w        0            0    6286.773         6286.77
## 3927                w        0            0    7504.199         7504.20
## 3945                w        0            0     658.800          658.80
## 3946                w        0            0   40127.732        40127.73
## 3972                w        0            0    5228.348         5228.35
## 3986                w        0            0    2565.788         2565.79
## 3988                w        0            0     622.910          622.91
## 4008                w        0            0   33515.058        33515.06
## 4015                f        0            0     471.570          471.57
## 4039                w        0            0    2394.116         2394.12
## 4047                w        0            0    1698.420         1698.42
## 4056                w        0            0   25900.257        25900.26
## 4076                w        0            0   36798.070        36798.07
## 4090                w        0            0    2059.940         2059.94
## 4103                w        0            0    5059.051         5059.05
## 4160                w        0            0    6207.388         6207.39
## 4164                w        0            0   12310.797        12310.80
## 4188                w        0            0    7768.076         7768.08
## 4222                w        0            0   11815.034        11815.03
## 4231                w        0            0   31686.753        31686.75
## 4236                w        0            0   35102.684        35102.68
## 4256                f        0            0   15658.276        15658.28
## 4282                w        0            0    6324.876         6324.88
## 4286                w        0            0   31830.349        31830.35
## 4306                w        0            0   21993.528        21993.53
## 4308                w        0            0     274.710          274.71
## 4313                w        0            0    8153.324         8153.32
## 4355                w        0            0   10710.140        10710.14
## 4358                w        0            0    1446.310         1446.31
## 4375                f        0            0    1687.910         1663.66
## 4383                w        0            0     254.470          254.47
## 4387                w        0            0    6810.333         6810.33
## 4404                w        0            0   12009.909        12009.91
## 4420                w        0            0   10208.136        10208.14
## 4449                w        0            0   11600.595        11600.59
## 4455                w        0            0   11158.108        11158.11
## 4463                w        0            0    8158.273         8158.27
## 4490                w        0            0   17059.142        17059.14
## 4495                w        0            0   14459.105        14459.10
## 4505                w        0            0   12757.585        12757.59
## 4507                w        0            0    9764.048         9764.05
## 4540                w        0            0    9796.175         9796.17
## 4553                f        0            0    4136.368         4136.37
## 4579                w        0            0   24746.818        24746.82
## 4591                w        0            0   14436.387        14436.39
## 4593                w        0            0    8634.334         8634.33
## 4599                w        0            0   41961.499        41961.50
## 4607                w        0            0    6615.677         6615.68
## 4636                f        0            0   42185.309        41895.29
## 4659                f        0            0    1744.796         1744.80
## 4667                w        0            0    5368.630         5368.63
## 4670                w        0            0    6375.271         6375.27
## 4676                w        0            0   12144.738        12144.74
## 4678                w        0            0   31394.338        31394.34
## 4679                w        0            0    5155.322         5155.32
## 4687                f        0            0   22013.324        21763.17
## 4697                w        0            0   16205.901        16205.90
## 4709                w        0            0     644.770          644.77
## 4725                w        0            0    7342.444         7342.44
## 4741                w        0            0   31555.959        31555.96
## 4777                w        0            0   38000.632        38000.63
## 4781                w        0            0   12347.273        12347.27
## 4796                w        0            0    7577.126         7577.13
## 4807                f        0            0   39600.698        39572.41
## 4808                w        0            0    1757.860         1757.86
## 4822                w        0            0   10444.526        10444.53
## 4830                w        0            0   15938.367        15938.37
## 4849                w        0            0   27980.770        27980.77
## 4853                w        0            0    6767.766         6767.77
## 4854                w        0            0    6035.200         6035.20
## 4859                w        0            0    5545.496         5545.50
## 4897                w        0            0    3887.010         3887.01
## 4966                w        0            0   25375.006        25375.01
## 4975                w        0            0   21366.150        21366.15
## 4991                w        0            0    5101.283         5101.28
## 5016                f        0            0    7362.286         7362.29
## 5020                w        0            0   35018.355        35018.36
## 5024                w        0            0    4660.815         4660.81
## 5026                w        0            0    1907.220         1907.22
## 5040                w        0            0    8423.707         8423.71
## 5058                w        0            0    1565.230         1565.23
## 5078                w        0            0   10157.488        10157.49
## 5082                w        0            0   24373.960        24373.96
## 5092                f        0            0   21939.611        21939.61
## 5140                w        0            0   15286.793        15286.79
## 5143                f        0            0    6775.146         6775.15
## 5148                w        0            0   14837.064        14837.06
## 5188                w        0            0   18895.734        18895.73
```

```
## 5203                    w        0            0   15012.980        15012.98
## 5214                    w        0            0    2642.320         2642.32
## 5224                    w        0            0    6354.292         6354.29
## 5229                    w        0            0   41638.370        41638.37
## 5281                    f        0            0    4638.334         4638.33
## 5290                    w        0            0   31586.896        31586.90
## 5310                    w        0            0    3211.772         3211.77
## 5327                    w        0            0     566.440          566.44
## 5331                    w        0            0   12530.660        12530.66
## 5334                    w        0            0   17151.422        17151.42
## 5335                    w        0            0   30025.820        30025.82
## 5336                    w        0            0   16271.556        16271.56
## 5349                    w        0            0    1716.840         1716.84
## 5353                    w        0            0   10403.778        10403.78
## 5370                    w        0            0   39572.451        39572.45
## 5381                    w        0            0   39336.079        39336.08
## 5385                    w        0            0   16236.940        16236.94
## 5396                    w        0            0   10377.977        10377.98
## 5408                    w        0            0   14716.755        14716.75
## 5415                    w        0            0   16342.555        16342.56
## 5424                    f        0            0    9301.452         9301.45
## 5428                    w        0            0   31294.885        31294.89
## 5450                    w        0            0    7673.423         7673.42
## 5474                    w        0            0   20820.045        20820.04
## 5480                    w        0            0   13726.170        13726.17
## 5486                    w        0            0     652.210          652.21
## 5509                    w        0            0    2175.820         2175.82
## 5518                    w        0            0    5195.850         5195.85
## 5523                    w        0            0    6401.548         6401.55
## 5534                    w        0            0    8422.219         8422.22
## 5536                    w        0            0   10440.875        10440.88
## 5541                    w        0            0   20418.636        20418.64
## 5551                    w        0            0   12354.315        12354.31
## 5557                    w        0            0    4398.980         4398.98
## 5562                    w        0            0    8406.624         8406.62
## 5584                    w        0            0   20467.436        20467.44
## 5588                    w        0            0   10289.460        10289.46
## 5598                    w        0            0   21203.418        21203.42
## 5599                    f        0            0    3683.223         3683.22
## 5625                    w        0            0    7231.420         7231.42
## 5626                    w        0            0   20936.854        20936.85
## 5633                    w        0            0   36342.246        36342.25
## 5641                    w        0            0   19028.322        19028.32
## 5674                    w        0            0    2719.765         2719.76
## 5693                    w        0            0    6529.316         6529.32
## 5697                    w        0            0   10811.250        10811.25
## 5704                    w        0            0   10108.623        10108.62
## 5712                    f        0            0    1373.650         1373.65
## 5761                    w        0            0   10486.479        10486.48
## 5763                    f        0            0    4037.824         4037.82
## 5796                    w        0            0     494.950          494.95
## 5797                    w        0            0   25014.313        25014.31
## 5800                    w        0            0   11847.365        11847.37
## 5808                    w        0            0    3101.850         3101.85
## 5812                    w        0            0    7702.654         7702.65
## 5814                    w        0            0   38505.435        38505.43
## 5819                    w        0            0   10565.075        10565.08
## 5824                    w        0            0    1045.800         1045.80
## 5833                    w        0            0    9210.477         9210.48
## 5851                    w        0            0   18438.371        18438.37
## 5857                    f        0            0   26874.117        26846.12
## 5862                    w        0            0   32027.279        32027.28
## 5866                    f        0            0   19217.743        19217.74
## 5873                    w        0            0    7273.931         7273.93
## 5877                    w        0            0    5514.746         5514.75
## 5891                    w        0            0   17601.322        17601.32
## 5914                    w        0            0   19446.525        19446.53
## 5936                    w        0            0   32375.778        32375.78
## 5961                    w        0            0   15650.399        15650.40
## 5969                    w        0            0   12784.518        12784.52
## 5983                    w        0            0    2599.610         2599.61
## 5984                    w        0            0   31704.736        31704.74
## 5993                    w        0            0   10454.287        10454.29
## 5995                    f        0            0    7755.058         7755.06
## 6016                    w        0            0   25028.319        25028.32
## 6022                    w        0            0   12473.559        12473.56
## 6026                    w        0            0    5140.465         5140.46
## 6040                    w        0            0   20936.307        20936.31
## 6042                    w        0            0   10136.099        10136.10
## 6058                    w        0            0   16081.470        16081.47
## 6067                    w        0            0   16911.052        16911.05
## 6081                    w        0            0    4179.860         4179.86
## 6095                    w        0            0   33622.775        33622.77
## 6098                    w        0            0   10859.977        10859.98
## 6103                    w        0            0    6259.377         6259.38
## 6107                    w        0            0    1887.070         1887.07
## 6108                    w        0            0   12375.950        12375.95
## 6110                    w        0            0   16568.913        16568.91
## 6112                    w        0            0   12339.686        12339.69
## 6125                    w        0            0    6160.607         6160.61
## 6137                    w        0            0   28871.696        28871.70
## 6143                    w        0            0   17078.615        17078.61
## 6153                    w        0            0   10786.597        10786.60
## 6166                    w        0            0   10181.632        10181.63
## 6198                    w        0            0   12654.867        12654.87
## 6215                    w        0            0   21976.143        21976.14
## 6216                    w        0            0    5047.077         5047.08
## 6220                    w        0            0     323.750          323.75
```

```
## 6226                w        0            0   16284.452        16284.45
## 6235                f        0            0    8295.127         8295.13
## 6245                w        0            0    7514.480         7514.48
## 6252                w        0            0    8416.604         8416.60
## 6261                w        0            0   15092.245        15092.25
## 6268                w        0            0    7871.013         7871.01
## 6302                w        0            0    3002.660         3002.66
## 6304                w        0            0    8160.903         8160.90
## 6331                w        0            0   21935.789        21935.79
## 6337                w        0            0   25657.291        25657.29
## 6373                w        0            0   35359.293        35359.29
## 6379                w        0            0   20679.452        20679.45
## 6397                w        0            0   10334.279        10334.28
## 6401                w        0            0   36880.652        36880.65
## 6438                w        0            0    1248.300         1248.30
## 6442                w        0            0    2641.630         2641.63
## 6447                w        0            0   19242.572        19242.57
## 6450                w        0            0   31810.905        31810.90
## 6464                f        0            0    8011.931         8011.93
## 6506                w        0            0     511.580          511.58
## 6513                f        0            0   12019.135        12019.14
## 6519                w        0            0   10053.240        10053.24
## 6520                w        0            0    5220.930         5220.93
## 6580                f        0            0   15718.282        15718.28
## 6616                w        0            0    1515.487         1515.49
## 6652                w        0            0   42626.838        42626.84
## 6667                w        0            0    4324.450         4324.45
## 6688                w        0            0   16458.732        16458.73
## 6693                f        0            0   10207.067        10207.07
## 6727                w        0            0   32126.328        32126.33
## 6732                w        0            0    1068.480         1068.48
## 6735                f        0            0    5633.023         5633.02
## 6746                w        0            0   12225.740        12225.74
## 6754                w        0            0    3730.672         3730.67
## 6770                w        0            0    6510.905         6510.90
## 6789                w        0            0   21161.634        21161.63
## 6803                w        0            0   24400.204        24400.20
## 6819                w        0            0    2078.724         2078.72
## 6820                w        0            0    6585.222         6585.22
## 6822                w        0            0   12892.984        12892.98
## 6824                w        0            0    2749.020         2749.02
## 6834                w        0            0   10623.794        10623.79
## 6841                w        0            0   25882.214        25882.21
## 6843                w        0            0    3076.410         3076.41
## 6858                w        0            0    1702.780         1702.78
## 6860                w        0            0    6363.682         6363.68
## 6889                w        0            0    1109.560         1109.56
## 6891                w        0            0   21775.747        21775.75
## 6894                w        0            0    1547.525         1547.53
## 6896                w        0            0    2092.273         2092.27
## 6899                w        0            0   10285.831        10285.83
## 6900                w        0            0   12168.395        12168.40
## 6917                w        0            0     720.830          720.83
## 6919                w        0            0   18009.568        18009.57
## 6923                w        0            0   19081.885        19081.88
## 6934                w        0            0   10450.365        10450.37
## 6941                f        0            0   32959.669        32959.67
## 6954                w        0            0    6275.428         6275.43
## 6957                w        0            0   23053.184        23053.18
## 6960                w        0            0   33165.019        33165.02
## 6962                w        0            0    2551.116         2551.12
## 6965                w        0            0   10412.048        10412.05
## 6971                w        0            0    6111.136         6111.14
## 6977                w        0            0    6392.684         6392.68
## 6989                f        0            0    3842.483         3842.48
## 7001                w        0            0   21495.556        21495.56
## 7008                w        0            0    3581.423         3581.42
## 7009                w        0            0    5011.250         5011.25
## 7012                w        0            0   27010.340        27010.34
## 7017                w        0            0    1783.740         1783.74
## 7033                w        0            0    8004.626         8004.63
## 7037                w        0            0    9052.816         9052.82
## 7057                w        0            0    4057.270         4057.27
## 7060                f        0            0    4152.838         4152.84
## 7064                w        0            0    3502.317         3502.32
## 7085                w        0            0   21978.750        21978.75
## 7129                w        0            0   10409.172        10409.17
## 7138                w        0            0   21303.179        21303.18
## 7145                w        0            0    1341.980         1341.98
## 7160                w        0            0    2522.890         2522.89
## 7174                f        0            0   21349.530        21349.53
## 7187                w        0            0   14483.075        14483.07
## 7189                w        0            0    1168.820         1168.82
## 7215                f        0            0    5324.978         5324.98
## 7216                w        0            0   30821.628        30821.63
## 7238                w        0            0   10328.839        10328.84
## 7266                w        0            0    3598.470         3598.47
## 7271                w        0            0   10323.649        10323.65
## 7281                w        0            0    8102.030         8102.03
## 7284                w        0            0   23527.701        23527.70
## 7318                w        0            0    5305.239         5305.24
## 7343                w        0            0   22913.371        22913.37
## 7354                f        0            0   33057.082        33057.08
## 7373                w        0            0   21110.018        21110.02
## 7380                w        0            0   30869.588        30869.59
## 7382                f        0            0    2056.107         2056.11
## 7383                w        0            0    1497.970         1497.97
## 7411                w        0            0   10220.793        10220.79
```

```
## 7439                    w        0            0    7562.854         7562.85
## 7466                    w        0            0   37641.187        37641.19
## 7476                    w        0            0    4839.586         4839.59
## 7521                    w        0            0   10902.307        10902.31
## 7522                    w        0            0    6702.951         6702.95
## 7544                    w        0            0    7449.089         7449.09
## 7548                    f        0            0   11302.363        11274.11
## 7560                    f        0            0   16807.937        16807.94
## 7578                    f        0            0    8541.688         8541.69
## 7581                    w        0            0    7308.270         7308.27
## 7583                    f        0            0    6389.928         6389.93
## 7616                    w        0            0   16300.293        16300.29
## 7628                    f        0            0     707.080          706.20
## 7641                    w        0            0    5167.794         5167.79
## 7648                    w        0            0    2412.220         2412.22
## 7664                    w        0            0   31318.970        31318.97
## 7682                    w        0            0    2588.514         2588.51
## 7736                    w        0            0   14768.440        14768.44
## 7750                    w        0            0   25307.868        25307.87
## 7753                    w        0            0    6914.843         6914.84
## 7775                    f        0            0    5106.406         5106.41
## 7785                    w        0            0   12368.775        12368.78
## 7799                    w        0            0    7786.617         7786.62
## 7809                    w        0            0    5331.031         5331.03
## 7810                    w        0            0   20976.740        20976.74
## 7812                    w        0            0   31709.135        31709.13
## 7815                    w        0            0   16231.390        16231.39
## 7825                    w        0            0   12329.852        12329.85
## 7830                    w        0            0   24499.384        24499.38
## 7845                    w        0            0    5002.454         5002.45
## 7863                    w        0            0   32750.703        32750.70
## 7867                    w        0            0    1331.050         1331.05
## 7877                    w        0            0   12387.585        12387.58
## 7886                    f        0            0   29067.090        29067.09
## 7892                    w        0            0   15977.505        15977.51
## 7897                    w        0            0   13774.967        13774.97
## 7906                    w        0            0   18845.994        18845.99
## 7927                    w        0            0   31008.797        31008.80
## 7943                    w        0            0   10422.599        10422.60
## 7970                    w        0            0    1277.142         1277.14
## 7994                    w        0            0   10819.427        10819.43
## 8010                    w        0            0   17177.961        17177.96
## 8016                    w        0            0    1681.339         1681.34
## 8045                    f        0            0   15064.738        15064.74
## 8081                    w        0            0   14689.675        14689.68
## 8090                    w        0            0    1143.640         1143.64
## 8114                    w        0            0   15050.977        15050.98
## 8124                    w        0            0    4041.753         4041.75
## 8131                    w        0            0   27531.159        27531.16
## 8139                    f        0            0   32941.717        32941.72
## 8150                    w        0            0   13054.605        13054.60
## 8158                    w        0            0    5485.118         5485.12
## 8163                    w        0            0   23127.684        23127.68
## 8168                    w        0            0   21218.126        21218.13
## 8191                    f        0            0   10349.892        10349.89
## 8205                    f        0            0   21413.400        21118.97
## 8219                    f        0            0    3009.780         3009.78
## 8225                    f        0            0   11014.525        11014.52
## 8251                    w        0            0    5357.830         5357.83
## 8253                    w        0            0   29758.038        29758.04
## 8263                    w        0            0   41655.182        41655.18
## 8271                    w        0            0     892.100          892.10
## 8285                    w        0            0   11213.482        11213.48
## 8296                    f        0            0   21316.969        21316.97
## 8300                    w        0            0   35521.461        35521.46
## 8326                    f        0            0    8261.312         8235.50
## 8343                    w        0            0   22169.469        22169.47
## 8349                    f        0            0    8163.924         8163.92
## 8365                    w        0            0   15125.109        15125.11
## 8381                    w        0            0    9079.453         9079.45
## 8398                    w        0            0     533.960          533.96
## 8402                    w        0            0    8409.361         8409.36
## 8422                    w        0            0    8422.219         8422.22
## 8423                    f        0            0    4240.096         4240.10
## 8442                    w        0            0    5057.659         5057.66
## 8458                    w        0            0   15634.985        15634.98
## 8468                    w        0            0    1702.780         1702.78
## 8469                    w        0            0    1238.700         1238.70
## 8486                    w        0            0   15360.317        15360.32
## 8508                    f        0            0   18138.375        18138.38
## 8521                    w        0            0    2328.770         2328.77
## 8527                    w        0            0   41122.360        41122.36
## 8551                    w        0            0    1806.050         1806.05
## 8561                    w        0            0    4404.120         4404.12
## 8591                    w        0            0    4261.505         4261.50
## 8604                    w        0            0     517.790          517.79
## 8613                    w        0            0   36340.271        36340.27
## 8615                    w        0            0   10741.039        10741.04
## 8616                    f        0            0   15358.625        15358.62
## 8628                    w        0            0   21618.519        21618.52
## 8629                    w        0            0     500.870          500.87
## 8642                    w        0            0    1855.880         1855.88
## 8643                    w        0            0    1339.230         1339.23
## 8650                    w        0            0    6289.897         6289.90
## 8660                    w        0            0   30676.616        30676.62
## 8662                    w        0            0   26986.620        26986.62
## 8683                    w        0            0   15536.768        15536.77
## 8689                    w        0            0    4397.500         4397.50
```

```
## 8700                    w        0            0    1706.220         1706.22
## 8703                    w        0            0   24900.223        24900.22
## 8705                    w        0            0    3067.145         3067.15
## 8708                    w        0            0   12837.037        12837.04
## 8731                    w        0            0   16508.348        16508.35
## 8737                    w        0            0    3703.617         3703.62
## 8739                    w        0            0   28781.820        28781.82
## 8744                    f        0            0   21785.543        21785.54
## 8769                    w        0            0   31701.373        31701.37
## 8797                    w        0            0   16877.384        16877.38
## 8818                    f        0            0   37711.876        37711.88
## 8820                    w        0            0   29045.029        29045.03
## 8821                    w        0            0   35029.243        35029.24
## 8837                    w        0            0   26549.548        26549.55
## 8843                    f        0            0   16447.322        16447.32
## 8844                    w        0            0   10246.227        10246.23
## 8848                    f        0            0   11231.959        11231.96
## 8858                    w        0            0   26613.806        26613.81
## 8869                    w        0            0    7221.352         7221.35
## 8881                    w        0            0   10890.054        10890.05
## 8882                    w        0            0    3256.541         3256.54
## 8887                    w        0            0    4173.428         4173.43
## 8892                    w        0            0   23156.236        23156.24
## 8894                    f        0            0    6448.515         6152.96
## 8899                    w        0            0   10555.760        10555.76
## 8903                    w        0            0    1609.730         1609.73
## 8908                    f        0            0    9243.520         9243.52
## 8925                    w        0            0    5206.919         5206.92
## 8932                    w        0            0   35441.587        35441.59
## 8947                    w        0            0   20477.234        20477.23
## 8964                    w        0            0    2500.220         2500.22
## 8986                    w        0            0   15210.160        15210.16
## 9008                    w        0            0    3536.380         3536.38
## 9011                    w        0            0   10448.664        10448.66
## 9013                    w        0            0    6365.152         6365.15
## 9021                    w        0            0    7624.115         7624.12
## 9023                    w        0            0   29772.705        29772.71
## 9054                    w        0            0   33964.832        33964.83
## 9084                    w        0            0     289.850          289.85
## 9088                    w        0            0    2580.671         2580.67
## 9129                    f        0            0    4115.291         4115.29
## 9142                    w        0            0    7211.335         7211.33
## 9146                    w        0            0     526.400          526.40
## 9168                    w        0            0    2028.263         2028.26
## 9175                    w        0            0   14388.809        14388.81
## 9185                    w        0            0   16939.792        16939.79
## 9191                    w        0            0    8103.150         8103.15
## 9206                    w        0            0   40114.180        40114.18
## 9208                    w        0            0   12968.395        12968.40
## 9235                    w        0            0    2806.070         2806.07
## 9269                    w        0            0    2804.350         2804.35
## 9287                    w        0            0   12726.135        12726.14
## 9313                    w        0            0    9940.199         9940.20
## 9317                    w        0            0    1728.910         1728.91
## 9318                    w        0            0    6305.839         6305.84
## 9322                    w        0            0   11196.968        11196.97
## 9349                    w        0            0   12020.962        12020.96
## 9359                    w        0            0    6015.653         6015.65
## 9360                    w        0            0   14426.416        14426.42
## 9368                    w        0            0   41074.736        41074.74
## 9369                    w        0            0   16681.669        16681.67
## 9389                    f        0            0   16772.281        16510.21
## 9417                    w        0            0    1711.410         1711.41
## 9420                    w        0            0   14114.448        14114.45
## 9423                    f        0            0   17622.087        17594.55
## 9428                    f        0            0    6471.842         6471.84
## 9449                    f        0            0    4145.490         4145.49
## 9490                    w        0            0    6176.140         6176.14
## 9494                    f        0            0    3087.039         3087.04
## 9513                    w        0            0   10489.612        10489.61
## 9518                    f        0            0    8821.863         8821.86
## 9533                    w        0            0    2059.031         2059.03
## 9548                    w        0            0   15976.850        15976.85
## 9561                    w        0            0    8666.516         8666.52
## 9563                    w        0            0    4204.630         4204.63
## 9568                    w        0            0   16248.758        16248.76
## 9576                    f        0            0   13786.861        13786.86
## 9588                    f        0            0   11880.787        11880.79
## 9634                    w        0            0    4953.365         4953.37
## 9645                    f        0            0   16698.411        16698.41
## 9660                    f        0            0    6509.407         6509.41
## 9663                    w        0            0    1431.820         1431.82
## 9675                    f        0            0    4267.537         4267.54
## 9678                    w        0            0   13509.028        13509.03
## 9686                    w        0            0    9138.294         9138.29
## 9707                    f        0            0   14531.142        14531.14
## 9708                    w        0            0    8074.714         8074.71
## 9720                    w        0            0   35043.498        35043.50
## 9724                    w        0            0    8544.615         8544.61
## 9730                    w        0            0   10624.209        10624.21
## 9739                    w        0            0   25347.009        25347.01
## 9749                    w        0            0   17934.219        17934.22
## 9759                    w        0            0    2456.650         2456.65
## 9771                    w        0            0     561.450          561.45
## 9802                    f        0            0    9535.207         9508.72
## 9807                    f        0            0    2652.500         2652.50
## 9818                    f        0            0   11045.096        11045.10
## 9822                    w        0            0    6323.484         6323.48
```

```
## 9823                    w         0             0   13428.275        13428.28
## 9869                    f         0             0    3482.050         3482.05
## 9885                    f         0             0    6382.647         6382.65
## 9916                    f         0             0    5427.571         5427.57
## 9935                    w         0             0   15551.933        15551.93
## 9965                    f         0             0    8841.633         8841.63
## 9981                    f         0             0   35019.013        34994.00
## 9985                    w         0             0    5187.715         5187.72
## 9986                    w         0             0   13007.877        13007.88
## 10009                   w         0             0   12104.051        12104.05
## 10012                   w         0             0    6139.764         6139.76
## 10027                   w         0             0    2649.976         2649.98
## 10068                   w         0             0   11983.860        11983.86
## 10074                   f         0             0    7203.337         7203.34
## 10076                   w         0             0   10256.943        10256.94
## 10092                   f         0             0    8985.478         8985.48
## 10101                   f         0             0   16648.692        16648.69
## 10124                   w         0             0    3401.305         3401.31
## 10128                   w         0             0    2121.220         2121.22
## 10129                   w         0             0    5259.155         5259.16
## 10141                   f         0             0    1416.090         1416.09
## 10142                   w         0             0   40816.955        40816.96
## 10163                   f         0             0   10158.277        10132.88
## 10165                   w         0             0    3378.786         3378.79
## 10179                   f         0             0   10578.088        10287.19
## 10188                   w         0             0    4247.808         4247.81
## 10210                   w         0             0    8057.724         8057.72
## 10220                   w         0             0     529.170          529.17
## 10221                   f         0             0    5166.571         5166.57
## 10240                   w         0             0    6855.636         6855.64
## 10246                   w         0             0   31923.443        31923.44
## 10249                   w         0             0   15542.927        15542.93
## 10262                   f         0             0   11320.037        11294.31
## 10265                   w         0             0   15791.128        15791.13
## 10278                   w         0             0   35015.937        35015.94
## 10288                   w         0             0    4717.708         4717.71
## 10319                   w         0             0    4765.125         4765.13
## 10328                   w         0             0   15561.276        15561.28
## 10329                   w         0             0    8974.558         8974.56
## 10335                   w         0             0   12086.156        12086.16
## 10339                   w         0             0   24431.860        24431.86
## 10366                   w         0             0   10047.663        10047.66
## 10371                   w         0             0    5442.252         5442.25
## 10385                   w         0             0    9823.195         9823.20
## 10387                   w         0             0   10324.722        10324.72
## 10417                   w         0             0    5796.161         5796.16
## 10448                   w         0             0    3367.220         3367.22
## 10449                   w         0             0    8744.657         8744.66
## 10453                   w         0             0   36444.035        36444.04
## 10455                   w         0             0    6189.625         6189.62
## 10460                   w         0             0    3266.776         3266.78
## 10464                   w         0             0   11760.799        11760.80
## 10471                   w         0             0    1621.980         1621.98
## 10482                   w         0             0   36051.405        36051.41
## 10491                   f         0             0    1064.771         1064.77
## 10494                   w         0             0   11980.976        11980.98
## 10508                   w         0             0    3615.420         3615.42
## 10517                   w         0             0    6259.233         6259.23
## 10530                   w         0             0    6150.979         6150.98
## 10532                   w         0             0    3894.718         3894.72
## 10535                   w         0             0    4692.170         4692.17
## 10545                   w         0             0   11067.417        11067.42
## 10570                   f         0             0   10074.285        10074.29
## 10573                   w         0             0   14111.952        14111.95
## 10576                   w         0             0    7416.266         7416.27
## 10579                   w         0             0    3410.270         3410.27
## 10582                   w         0             0   13102.545        13102.54
## 10592                   w         0             0    4805.968         4805.97
## 10595                   w         0             0    4100.334         4100.33
## 10601                   w         0             0   10175.091        10175.09
## 10614                   w         0             0   16424.914        16424.91
## 10620                   w         0             0   15367.246        15367.25
## 10632                   w         0             0   21157.637        21157.64
## 10641                   w         0             0    7530.895         7530.89
## 10646                   f         0             0    5231.470         5231.47
## 10655                   w         0             0    8466.704         8466.70
## 10658                   w         0             0    5804.238         5804.24
## 10661                   w         0             0   10109.389        10109.39
## 10680                   w         0             0   12192.688        12192.69
## 10689                   w         0             0   15118.363        15118.36
##       total_rec_prncp total_rec_int total_rec_late_fee recoveries
## 16            1000.00         31.58               0.00       0.00
## 38            1000.00         14.59               0.00       0.00
## 47           20000.00        347.29               0.00       0.00
## 77           10000.00        182.03               0.00       0.00
## 88           18000.00         28.09               0.00       0.00
## 112           4000.00        105.24               0.00       0.00
## 133          20000.00        500.48               0.00       0.00
## 135              0.00          0.00               0.00       0.00
## 145          12000.00         33.93               0.00       0.00
## 169          10000.00        200.18               0.00       0.00
## 180          15000.00          3.62               0.00       0.00
## 191           9500.00         12.97               0.00       0.00
## 208           3000.00          9.82               0.00       0.00
## 222          15000.00          8.13               0.00       0.00
## 226          30000.00         21.58               0.00       0.00
## 231           8700.00        147.86               0.00       0.00
## 243          30000.00         23.01               0.00       0.00
```

```
## 244          5400.00         29.49              0.00       0.00
## 250         17775.00          6.02              0.00       0.00
## 260         22500.00         13.11              0.00       0.00
## 271          1000.00         55.43              0.00       0.00
## 277         10000.00        183.58              0.00       0.00
## 284          8400.00          4.56              0.00       0.00
## 292          4000.00        105.12              0.00       0.00
## 295         10000.00         61.42              0.00       0.00
## 311         20000.00         16.61              0.00       0.00
## 355         11500.00        601.41              0.00       0.00
## 376         24000.00        679.00              0.00       0.00
## 385         17000.00          9.57              0.00       0.00
## 392         35000.00        715.71              0.00       0.00
## 400         15000.00         24.52              0.00       0.00
## 402         20000.00        365.69              0.00       0.00
## 413          7000.00        362.70              0.00       0.00
## 421         10000.00        240.88              0.00       0.00
## 423         20000.00        673.66              0.00       0.00
## 424         20000.00         35.86              0.00       0.00
## 440         30000.00       1199.17              0.00       0.00
## 444          8000.00        120.26              0.00       0.00
## 509         40000.00       1148.07              0.00       0.00
## 524         10000.00          8.44              0.00       0.00
## 542          6000.00        262.99              0.00       0.00
## 581         10650.00        269.72              0.00       0.00
## 593         35000.00         22.71              0.00       0.00
## 620          6000.00         35.57              0.00       0.00
## 669         35000.00        904.12              0.00       0.00
## 679          6000.00          2.76              0.00       0.00
## 695         25000.00       1197.34              0.00       0.00
## 698         12000.00        237.19              0.00       0.00
## 726         15000.00        263.68              0.00       0.00
## 750         10500.00        171.93              0.00       0.00
## 755          8000.00          4.66              0.00       0.00
## 791          7700.00        264.73              0.00       0.00
## 796         30000.00        844.92              0.00       0.00
## 805         25000.00        520.38              0.00       0.00
## 806          7925.00        214.24              0.00       0.00
## 821         16700.00        597.29              0.00       0.00
## 837          8000.00        342.06              0.00       0.00
## 841         13350.00        564.46              0.00       0.00
## 843          2000.00         13.94              0.00       0.00
## 860             0.00          0.00              0.00       0.00
## 862          2400.00         55.59              0.00       0.00
## 891          3500.00         59.28              0.00       0.00
## 911         18000.00        527.19              0.00       0.00
## 921         18000.00        904.03              0.00       0.00
## 930         18000.00        433.66              0.00       0.00
## 952          9000.00        673.56              0.00       0.00
## 956         20000.00       1120.64              0.00       0.00
## 958         11500.00        337.64              0.00       0.00
## 967         35000.00       1899.75              0.00       0.00
## 974          9350.00        435.05              0.00       0.00
## 982          5000.00        147.93              0.00       0.00
## 1014         8600.00          3.60              0.00       0.00
## 1022        35000.00       1875.68              0.00       0.00
## 1045         8000.00         51.65              0.00       0.00
## 1051        19200.00        680.35              0.00       0.00
## 1075        12500.00        325.70              0.00       0.00
## 1097         7200.00        184.69              0.00       0.00
## 1099         2000.00         42.19              0.00       0.00
## 1104         9500.00        462.75              0.00       0.00
## 1107        19900.00         28.70              0.00       0.00
## 1119        10000.00          5.43              0.00       0.00
## 1125         1000.00         65.23              0.00       0.00
## 1166         5000.00          1.81              0.00       0.00
## 1167        10000.00        335.37              0.00       0.00
## 1172        16000.00        194.31              0.00       0.00
## 1173        12000.00          7.33              0.00       0.00
## 1175        12000.00        375.60              0.00       0.00
## 1177         2000.00         65.35              0.00       0.00
## 1193        10000.00        563.12              0.00       0.00
## 1200        15000.00         30.73              0.00       0.00
## 1206         5000.00        196.29              0.00       0.00
## 1223        20000.00        945.22              0.00       0.00
## 1230        20000.00        526.52              0.00       0.00
## 1238        12775.00         42.60              0.00       0.00
## 1245         2400.00         58.41              0.00       0.00
## 1250        32000.00       1631.45              0.00       0.00
## 1272         4200.00         80.14              0.00       0.00
## 1282         5000.00        101.97              0.00       0.00
## 1283        16000.00        148.55              0.00       0.00
## 1298        30000.00       2575.64              0.00       0.00
## 1300        10000.00        647.31              0.00       0.00
## 1308        12000.00        181.80              0.00       0.00
## 1321        10500.00        312.75              0.00       0.00
## 1322        13100.00        834.36              0.00       0.00
## 1327        10000.00        336.70              0.00       0.00
## 1374         5500.00        222.06              0.00       0.00
## 1378         8000.00        557.14              0.00       0.00
## 1385        17475.00       1423.82              0.00       0.00
## 1411         5000.00        140.63              0.00       0.00
## 1415        15000.00        483.03              0.00       0.00
## 1463        12600.00          5.57              0.00       0.00
## 1517        10000.00        253.21              0.00       0.00
## 1531         9600.00        134.19              0.00       0.00
## 1598        30000.00        492.37              0.00       0.00
## 1609        10000.00          3.64              0.00       0.00
```

```
## 1638        6000.00       394.36              0.00       0.00
## 1684        8000.00       215.39              0.00       0.00
## 1710        2500.00        82.99              0.00       0.00
## 1713       20000.00      1334.94              0.00       0.00
## 1722       14000.00       302.65              0.00       0.00
## 1733       13000.00       589.74              0.00       0.00
## 1742        6500.00       162.75              0.00       0.00
## 1770       20000.00      1101.39              0.00       0.00
## 1777        3000.00        74.79              0.00       0.00
## 1779        8000.00       404.04              0.00       0.00
## 1781       17000.00      1260.24              0.00       0.00
## 1808        4500.00        81.53              0.00       0.00
## 1814       35000.00       464.80              0.00       0.00
## 1832        6000.00        77.83              0.00       0.00
## 1834       30900.00      1103.63              0.00       0.00
## 1841       25300.00        47.41              0.00       0.00
## 1858        5500.00       232.16              0.00       0.00
## 1872       24000.00      1263.76              0.00       0.00
## 1888        7000.00        27.44              0.00       0.00
## 1908       10000.00       621.60              0.00       0.00
## 1912       16000.00       692.68              0.00       0.00
## 1918       20000.00      1288.67              0.00       0.00
## 1923       18000.00       440.38              0.00       0.00
## 1931        8000.00       185.63              0.00       0.00
## 1940       20000.00      1667.50              0.00       0.00
## 1941       27000.00      1269.68              0.00       0.00
## 1966       24000.00        18.10              0.00       0.00
## 1967        4200.00       308.98              0.00       0.00
## 1969       20000.00       822.57              0.00       0.00
## 1993       21050.00       244.43              0.00       0.00
## 2000       25000.00       341.71              0.00       0.00
## 2020       36000.00       808.17              0.00       0.00
## 2021       15000.00       514.89              0.00       0.00
## 2022       15000.00       295.60              0.00       0.00
## 2024        8000.00       404.65              0.00       0.00
## 2062       20000.00       173.25              0.00       0.00
## 2064        8000.00       231.94              0.00       0.00
## 2110       18000.00       379.41              0.00       0.00
## 2134       16000.00       102.38              0.00       0.00
## 2141       20000.00       394.65              0.00       0.00
## 2152        8100.00       509.46              0.00       0.00
## 2164       25000.00      1106.36              0.00       0.00
## 2188        2400.00        53.35              0.00       0.00
## 2195        2500.00        26.25              0.00       0.00
## 2205         350.63       149.19              0.00       0.00
## 2223        4500.00       109.71              0.00       0.00
## 2228        8000.00       432.75              0.00       0.00
## 2237       13000.00       300.33              0.00       0.00
## 2266       24000.00       602.45              0.00       0.00
## 2269       24000.00        99.44              0.00       0.00
## 2276       25000.00       538.46              0.00       0.00
## 2282       16000.00       814.32              0.00       0.00
## 2291        8200.00       153.72              0.00       0.00
## 2299        3600.00       109.53              0.00       0.00
## 2309       14000.00       296.72              0.00       0.00
## 2311       10000.00       652.28              0.00       0.00
## 2317        3500.00       123.10              0.00       0.00
## 2324       30000.00      1338.91              0.00       0.00
## 2360       32000.00       811.07              0.00       0.00
## 2366       18000.00       581.05              0.00       0.00
## 2372        1500.00        29.82              0.00       0.00
## 2391       14000.00        49.27              0.00       0.00
## 2451       40000.00      2894.53              0.00       0.00
## 2466       20000.00       510.81              0.00       0.00
## 2487       35000.00      1684.88              0.00       0.00
## 2498        8000.00       441.72              0.00       0.00
## 2507       12700.00       673.20              0.00       0.00
## 2553        3000.00        72.21              0.00       0.00
## 2570        3600.00        50.70              0.00       0.00
## 2573        5450.00       119.07              0.00       0.00
## 2594       20000.00        10.85              0.00       0.00
## 2632        5400.00       353.05              0.00       0.00
## 2644       11000.00       648.52              0.00       0.00
## 2665        3000.00       375.75              0.00       0.00
## 2666       15500.00      1601.01              0.00       0.00
## 2680         318.86       353.58              0.00       0.00
## 2682         423.58      1080.66             38.37       0.00
## 2688       25000.00       927.66              0.00       0.00
## 2697        6000.00       471.35              0.00       0.00
## 2704        8000.00       234.86              0.00       0.00
## 2739       10000.00      1049.34              0.00       0.00
## 2741        7500.00       276.72              0.00       0.00
## 2750        7000.00       156.21              0.00       0.00
## 2751       14000.00       743.85              0.00       0.00
## 2754        9600.00         5.59              0.00       0.00
## 2762        7800.00        54.19              0.00       0.00
## 2764       10000.00        24.34              0.00       0.00
## 2778        6000.00       323.79              0.00       0.00
## 2802       19000.00       618.06              0.00       0.00
## 2818       12000.00       703.62              0.00       0.00
## 2822       17000.00       256.68              0.00       0.00
## 2841       16000.00       298.05              0.00       0.00
## 2848       10000.00       381.82              0.00       0.00
## 2888       20000.00       762.90              0.00       0.00
## 2922       15000.00       665.52              0.00       0.00
## 2941        1000.00        46.91              0.00       0.00
## 2956       20200.00       312.81              0.00       0.00
## 2970       12000.00       322.35              0.00       0.00
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## 2986        15000.00       1102.43              0.00       0.00
## 3006        14000.00        415.21              0.00       0.00
## 3030        23000.00          4.10              0.00       0.00
## 3035          570.82        306.20              0.00       0.00
## 3044        20000.00       2107.37              0.00       0.00
## 3048         4000.00          2.00              0.00       0.00
## 3063         8000.00        404.48              0.00       0.00
## 3064        12000.00        471.27              0.00       0.00
## 3072         7500.00        332.00              0.00       0.00
## 3080        15000.00       1073.72              0.00       0.00
## 3082        20000.00        472.26              0.00       0.00
## 3097        12000.00        388.54              0.00       0.00
## 3098        12000.00        428.88              0.00       0.00
## 3135         4000.00         30.18              0.00       0.00
## 3151        24000.00       1056.32              0.00       0.00
## 3153         6000.00        355.64              0.00       0.00
## 3171        25000.00         25.51              0.00       0.00
## 3205        10000.00        341.46              0.00       0.00
## 3217         5500.00        111.81              0.00       0.00
## 3225        10000.00        215.23              0.00       0.00
## 3227        15000.00       1278.25              0.00       0.00
## 3234        15000.00        974.66              0.00       0.00
## 3239         7000.00        165.97              0.00       0.00
## 3247        29000.00        899.70              0.00       0.00
## 3331        35000.00       1664.39              0.00       0.00
## 3334         6000.00         18.08              0.00       0.00
## 3372        10000.00        199.25              0.00       0.00
## 3379        10000.00        905.79              0.00       0.00
## 3393        14400.00        346.64              0.00       0.00
## 3395        30000.00        869.75              0.00       0.00
## 3403         9350.00         21.00              0.00       0.00
## 3410         1500.00        115.62              0.00       0.00
## 3413        21000.00       1530.56              0.00       0.00
## 3417        15000.00       1218.84              0.00       0.00
## 3487        15000.00       1703.06              0.00       0.00
## 3513         6875.00        623.70              0.00       0.00
## 3521          612.02       1466.79              0.00       0.00
## 3532        20000.00        637.41              0.00       0.00
## 3558         5000.00         26.69              0.00       0.00
## 3562        10000.00        262.84              0.00       0.00
## 3571        17500.00        473.25              0.00       0.00
## 3574         4500.00         35.81              0.00       0.00
## 3581          448.55        245.27              0.00       0.00
## 3589         4500.00         37.03              0.00       0.00
## 3605         9000.00        204.61              0.00       0.00
## 3630        10000.00        683.55              0.00       0.00
## 3631         7250.00        978.26             30.00       0.00
## 3640        25000.00        689.54              0.00       0.00
## 3642        15000.00        161.35              0.00       0.00
## 3644         5000.00        536.35              0.00       0.00
## 3653        15000.00        811.13              0.00       0.00
## 3662        20000.00        797.08              0.00       0.00
## 3663         2000.00         53.46              0.00       0.00
## 3691         6000.00        121.42              0.00       0.00
## 3713        18000.00        858.04              0.00       0.00
## 3726        23000.00        613.35              0.00       0.00
## 3746        16000.00       1829.62              0.00       0.00
## 3751        10000.00        406.81              0.00       0.00
## 3757           43.86         53.60              0.00       0.00
## 3761        10800.00        507.22              0.00       0.00
## 3763        15000.00         21.76              0.00       0.00
## 3770        16000.00          8.63              0.00       0.00
## 3774          433.37        237.75              0.00       0.00
## 3775          688.93        311.89              0.00       0.00
## 3786        14000.00        502.70              0.00       0.00
## 3809          593.16        986.87              0.00       0.00
## 3824        12500.00        795.48              0.00       0.00
## 3832          673.30        229.37              0.00       0.00
## 3845        10000.00        229.66              0.00       0.00
## 3864         6200.00        477.22              0.00       0.00
## 3877           63.02         43.05              0.00       0.00
## 3890        11500.00        186.83              0.00       0.00
## 3907         8000.00        254.81              0.00       0.00
## 3918         5000.00          0.00              0.00       0.00
## 3925         6000.00        286.77              0.00       0.00
## 3927         7500.00          4.20              0.00       0.00
## 3945          465.72        193.08              0.00       0.00
## 3946        40000.00        127.73              0.00       0.00
## 3972         5000.00        228.35              0.00       0.00
## 3986         2500.00         65.79              0.00       0.00
## 3988          297.02        325.89              0.00       0.00
## 4008        30000.00       3515.06              0.00       0.00
## 4015          201.83        254.74             15.00       0.00
## 4039         2200.00        194.12              0.00       0.00
## 4047          279.19       1376.24             42.99       0.00
## 4056        25000.00        900.26              0.00       0.00
## 4076        35000.00       1798.07              0.00       0.00
## 4090         1336.97        722.97              0.00       0.00
## 4103         5000.00         59.05              0.00       0.00
## 4160         6000.00        207.39              0.00       0.00
## 4164        12000.00        310.80              0.00       0.00
## 4188         7500.00        268.08              0.00       0.00
## 4222        10950.00        865.03              0.00       0.00
## 4231        30000.00       1686.75              0.00       0.00
## 4236        35000.00        102.68              0.00       0.00
## 4256        14400.00       1258.28              0.00       0.00
## 4282         6000.00        324.88              0.00       0.00
## 4286        30000.00       1830.35              0.00       0.00
```

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## 4306        20800.00      1193.53              0.00       0.00
## 4308          126.97       147.74              0.00       0.00
## 4313         8000.00       153.32              0.00       0.00
## 4355        10000.00       710.14              0.00       0.00
## 4358         1077.34       368.97              0.00       0.00
## 4375         1249.69       438.22              0.00       0.00
## 4383          195.05        59.42              0.00       0.00
## 4387         6600.00       210.33              0.00       0.00
## 4404        12000.00         9.91              0.00       0.00
## 4420        10000.00       208.14              0.00       0.00
## 4449        11200.00       400.59              0.00       0.00
## 4455        11000.00       158.11              0.00       0.00
## 4463         7700.00       458.27              0.00       0.00
## 4490        16500.00       559.14              0.00       0.00
## 4495        14000.00       459.10              0.00       0.00
## 4505        12000.00       757.59              0.00       0.00
## 4507         9200.00       564.05              0.00       0.00
## 4540         9500.00       296.17              0.00       0.00
## 4553         4000.00       136.37              0.00       0.00
## 4579        23550.00      1196.82              0.00       0.00
## 4591        14000.00       436.39              0.00       0.00
## 4593         8400.00       234.33              0.00       0.00
## 4599        40000.00      1961.50              0.00       0.00
## 4607         6400.00       215.68              0.00       0.00
## 4636        40000.00      2185.31              0.00       0.00
## 4659         1600.00       144.80              0.00       0.00
## 4667         5000.00       368.63              0.00       0.00
## 4670         6000.00       375.27              0.00       0.00
## 4676        12000.00       144.74              0.00       0.00
## 4678        30000.00      1394.34              0.00       0.00
## 4679         5000.00       155.32              0.00       0.00
## 4687        22000.00        13.32              0.00       0.00
## 4697        16000.00       205.90              0.00       0.00
## 4709          480.94       163.83              0.00       0.00
## 4725         6500.00       842.44              0.00       0.00
## 4741        27325.00      4230.96              0.00       0.00
## 4777        36000.00      2000.63              0.00       0.00
## 4781        12000.00       347.27              0.00       0.00
## 4796         7200.00       377.13              0.00       0.00
## 4807        35000.00      4600.70              0.00       0.00
## 4808          981.09       776.77              0.00       0.00
## 4822        10000.00       444.53              0.00       0.00
## 4830        15000.00       938.37              0.00       0.00
## 4849        26400.00      1580.77              0.00       0.00
## 4853         6500.00       267.77              0.00       0.00
## 4854         6000.00        35.20              0.00       0.00
## 4859         5000.00       545.50              0.00       0.00
## 4897         2674.93      1212.08              0.00       0.00
## 4966        25000.00       375.01              0.00       0.00
## 4975        20000.00      1366.15              0.00       0.00
## 4991         5000.00       101.28              0.00       0.00
## 5016         7200.00       162.29              0.00       0.00
## 5020        35000.00        18.36              0.00       0.00
## 5024         4500.00       160.81              0.00       0.00
## 5026          802.65      1104.57              0.00       0.00
## 5040         8000.00       423.71              0.00       0.00
## 5058         1146.31       418.92              0.00       0.00
## 5078        10000.00       157.49              0.00       0.00
## 5082        22100.00      2273.96              0.00       0.00
## 5092        21925.00        14.61              0.00       0.00
## 5140        15000.00       286.79              0.00       0.00
## 5143         6500.00       275.15              0.00       0.00
## 5148        14000.00       837.06              0.00       0.00
## 5188        18000.00       895.73              0.00       0.00
## 5203        15000.00        12.98              0.00       0.00
## 5214          736.09      1906.23              0.00       0.00
## 5224         6000.00       354.29              0.00       0.00
## 5229        40000.00      1638.37              0.00       0.00
## 5281         4000.00       638.33              0.00       0.00
## 5290        30000.00      1586.90              0.00       0.00
## 5310         3000.00       211.77              0.00       0.00
## 5327          348.79       217.65              0.00       0.00
## 5331        12000.00       530.66              0.00       0.00
## 5334        16000.00      1151.42              0.00       0.00
## 5335        30000.00        25.82              0.00       0.00
## 5336        16000.00       271.56              0.00       0.00
## 5349         1018.70       698.14              0.00       0.00
## 5353        10000.00       403.78              0.00       0.00
## 5370        38500.00      1072.45              0.00       0.00
## 5381        36000.00      3336.08              0.00       0.00
## 5385        15000.00      1236.94              0.00       0.00
## 5396        10000.00       377.98              0.00       0.00
## 5408        13600.00      1116.75              0.00       0.00
## 5415        16000.00       342.56              0.00       0.00
## 5424         8800.00       501.45              0.00       0.00
## 5428        30000.00      1294.89              0.00       0.00
## 5450         7500.00       173.42              0.00       0.00
## 5474        20000.00       820.04              0.00       0.00
## 5480        13500.00       226.17              0.00       0.00
## 5486          477.66       174.55              0.00       0.00
## 5509          859.67      1316.15              0.00       0.00
## 5518         5000.00       195.85              0.00       0.00
## 5523         6000.00       401.55              0.00       0.00
## 5534         8000.00       422.22              0.00       0.00
## 5536        10000.00       440.88              0.00       0.00
## 5541        20000.00       418.64              0.00       0.00
## 5551        12000.00       354.31              0.00       0.00
## 5557            0.00         0.00              0.00    4398.98
```

```
## 5562          8400.00          6.62              0.00       0.00
## 5584         20000.00        467.44              0.00       0.00
## 5588         10000.00        289.46              0.00       0.00
## 5598         20000.00       1203.42              0.00       0.00
## 5599          3600.00         83.22              0.00       0.00
## 5625          7200.00         31.42              0.00       0.00
## 5626         20000.00        936.85              0.00       0.00
## 5633         35000.00       1342.25              0.00       0.00
## 5641         18000.00       1028.32              0.00       0.00
## 5674          2500.00        219.76              0.00       0.00
## 5693          6400.00        129.32              0.00       0.00
## 5697         10000.00        811.25              0.00       0.00
## 5704         10000.00        108.62              0.00       0.00
## 5712           671.39        702.26              0.00       0.00
## 5761         10000.00        486.48              0.00       0.00
## 5763          4000.00         37.82              0.00       0.00
## 5796           296.31        198.64              0.00       0.00
## 5797         25000.00         14.31              0.00       0.00
## 5800         11200.00        647.37              0.00       0.00
## 5808          1257.00       1844.85              0.00       0.00
## 5812          7500.00        202.65              0.00       0.00
## 5814         35000.00       3505.43              0.00       0.00
## 5819         10000.00        565.08              0.00       0.00
## 5824           392.10        653.70              0.00       0.00
## 5833          9000.00        210.48              0.00       0.00
## 5851         17250.00       1188.37              0.00       0.00
## 5857         24000.00       2874.12              0.00       0.00
## 5862         30000.00       2027.28              0.00       0.00
## 5866         18000.00       1217.74              0.00       0.00
## 5873          7000.00        273.93              0.00       0.00
## 5877          5400.00        114.75              0.00       0.00
## 5891         16000.00       1601.32              0.00       0.00
## 5914         18000.00       1446.53              0.00       0.00
## 5936         32000.00        375.78              0.00       0.00
## 5961         15000.00        650.40              0.00       0.00
## 5969         12000.00        784.52              0.00       0.00
## 5983          1936.94        630.44             32.23       0.00
## 5984         30000.00       1704.74              0.00       0.00
## 5993         10000.00        454.29              0.00       0.00
## 5995          7500.00        255.06              0.00       0.00
## 6016         25000.00         28.32              0.00       0.00
## 6022         12000.00        473.56              0.00       0.00
## 6026          5000.00        140.46              0.00       0.00
## 6040         20000.00        936.31              0.00       0.00
## 6042         10000.00        136.10              0.00       0.00
## 6058         15000.00       1081.47              0.00       0.00
## 6067         16000.00        911.05              0.00       0.00
## 6081          2961.49       1218.37              0.00       0.00
## 6095         32000.00       1622.77              0.00       0.00
## 6098         10000.00        859.98              0.00       0.00
## 6103          6000.00        259.38              0.00       0.00
## 6107           926.71        960.36              0.00       0.00
## 6108         12000.00        375.95              0.00       0.00
## 6110         16000.00        568.91              0.00       0.00
## 6112         12000.00        339.69              0.00       0.00
## 6125          6000.00        160.61              0.00       0.00
## 6137         28000.00        871.70              0.00       0.00
## 6143         16000.00       1078.61              0.00       0.00
## 6153         10000.00        786.60              0.00       0.00
## 6166         10000.00        181.63              0.00       0.00
## 6198         12000.00        654.87              0.00       0.00
## 6215         20000.00       1976.14              0.00       0.00
## 6216          5000.00         47.08              0.00       0.00
## 6220           219.99        103.76              0.00       0.00
## 6226         15000.00       1267.77             16.68       0.00
## 6235          8000.00        295.13              0.00       0.00
## 6245          7500.00         14.48              0.00       0.00
## 6252          8025.00        391.60              0.00       0.00
## 6261         15000.00         92.25              0.00       0.00
## 6268          7500.00        371.01              0.00       0.00
## 6302           836.48       2166.18              0.00       0.00
## 6304          8000.00        160.90              0.00       0.00
## 6331         21000.00        935.79              0.00       0.00
## 6337         23800.00       1857.29              0.00       0.00
## 6373         35000.00        359.29              0.00       0.00
## 6379         20000.00        679.45              0.00       0.00
## 6397         10000.00        334.28              0.00       0.00
## 6401         36175.00        705.65              0.00       0.00
## 6438           997.25        251.05              0.00       0.00
## 6442          1550.95       1090.68              0.00       0.00
## 6447         19000.00        242.57              0.00       0.00
## 6450         30000.00       1810.90              0.00       0.00
## 6464          8000.00         11.93              0.00       0.00
## 6506           196.06        315.52              0.00       0.00
## 6513         12000.00         19.14              0.00       0.00
## 6519         10000.00         53.24              0.00       0.00
## 6520          3361.56       1859.37              0.00       0.00
## 6580         15000.00        718.28              0.00       0.00
## 6616          1500.00         15.49              0.00       0.00
## 6652         40000.00       2626.84              0.00       0.00
## 6667          1733.35       2591.10              0.00       0.00
## 6688         15200.00       1258.73              0.00       0.00
## 6693          9500.00        707.07              0.00       0.00
## 6727         29525.00       2601.33              0.00       0.00
## 6732           398.84        669.64              0.00       0.00
## 6735          5000.00        633.02              0.00       0.00
## 6746         12000.00        225.74              0.00       0.00
## 6754          3600.00        130.67              0.00       0.00
```

```
## 6770        6000.00       510.90              0.00       0.00
## 6789       19500.00      1661.63              0.00       0.00
## 6803       21000.00      3400.20              0.00       0.00
## 6819        2000.00        78.72              0.00       0.00
## 6820        6025.00       560.22              0.00       0.00
## 6822       12000.00       892.98              0.00       0.00
## 6824        1602.48      1146.54              0.00       0.00
## 6834       10000.00       623.79              0.00       0.00
## 6841       25600.00       282.21              0.00       0.00
## 6843        2319.52       756.89              0.00       0.00
## 6858        1151.03       551.75              0.00       0.00
## 6860        6000.00       363.68              0.00       0.00
## 6889         621.58       487.98              0.00       0.00
## 6891       21000.00       775.75              0.00       0.00
## 6894        1500.00        47.53              0.00       0.00
## 6896        2000.00        92.27              0.00       0.00
## 6899       10000.00       285.83              0.00       0.00
## 6900       12000.00       168.40              0.00       0.00
## 6917         333.89       386.94              0.00       0.00
## 6919       18000.00         9.57              0.00       0.00
## 6923       17000.00      2081.88              0.00       0.00
## 6934       10000.00       450.37              0.00       0.00
## 6941       30000.00      2959.67              0.00       0.00
## 6954        6000.00       275.43              0.00       0.00
## 6957       20500.00      2553.18              0.00       0.00
## 6960       32000.00      1165.02              0.00       0.00
## 6962        2500.00        51.12              0.00       0.00
## 6965       10000.00       412.05              0.00       0.00
## 6971        6000.00       111.14              0.00       0.00
## 6977        6000.00       392.68              0.00       0.00
## 6989        3500.00       342.48              0.00       0.00
## 7001       20000.00      1495.56              0.00       0.00
## 7008        3200.00       381.42              0.00       0.00
## 7009        1163.34      3805.34             42.57       0.00
## 7012       27000.00        10.34              0.00       0.00
## 7017         944.08       839.66              0.00       0.00
## 7033        8000.00         4.63              0.00       0.00
## 7037        8500.00       552.82              0.00       0.00
## 7057        1450.73      2606.54              0.00       0.00
## 7060        4000.00       152.84              0.00       0.00
## 7064        3500.00         2.32              0.00       0.00
## 7085       20000.00      1978.75              0.00       0.00
## 7129       10400.00         9.17              0.00       0.00
## 7138       20000.00      1303.18              0.00       0.00
## 7145         409.40       917.58             15.00       0.00
## 7160        1565.80       957.09              0.00       0.00
## 7174       18575.00      2774.53              0.00       0.00
## 7187       13300.00      1183.07              0.00       0.00
## 7189          43.51      1110.31             15.00       0.00
## 7215        5000.00       324.98              0.00       0.00
## 7216       30000.00       821.63              0.00       0.00
## 7238       10000.00       328.84              0.00       0.00
## 7266        1091.03      2462.57             44.87       0.00
## 7271       10000.00       323.65              0.00       0.00
## 7281        7700.00       402.03              0.00       0.00
## 7284       22625.00       902.70              0.00       0.00
## 7318        5000.00       305.24              0.00       0.00
## 7343       21000.00      1913.37              0.00       0.00
## 7354       30000.00      3057.08              0.00       0.00
## 7373       21000.00       110.02              0.00       0.00
## 7380       28000.00      2869.59              0.00       0.00
## 7382        2000.00        56.11              0.00       0.00
## 7383        1196.72       301.25              0.00       0.00
## 7411       10000.00       220.79              0.00       0.00
## 7439        7200.00       362.85              0.00       0.00
## 7466       35000.00      2641.19              0.00       0.00
## 7476        4500.00       339.59              0.00       0.00
## 7521       10000.00       902.31              0.00       0.00
## 7522        6500.00       202.95              0.00       0.00
## 7544        7000.00       449.09              0.00       0.00
## 7548       10000.00      1302.36              0.00       0.00
## 7560       16000.00       807.94              0.00       0.00
## 7578        8500.00        41.69              0.00       0.00
## 7581        7000.00       308.27              0.00       0.00
## 7583        6000.00       389.93              0.00       0.00
## 7616       16000.00       300.29              0.00       0.00
## 7628         420.08       287.00              0.00       0.00
## 7641        5000.00       167.79              0.00       0.00
## 7648         323.43       139.77             24.90    1924.12
## 7664       30000.00      1318.97              0.00       0.00
## 7682        2500.00        88.51              0.00       0.00
## 7736       14400.00       368.44              0.00       0.00
## 7750       24000.00      1307.87              0.00       0.00
## 7753        6000.00       914.84              0.00       0.00
## 7775        4800.00       306.41              0.00       0.00
## 7785       11000.00      1368.78              0.00       0.00
## 7799        7000.00       786.62              0.00       0.00
## 7809        5000.00       331.03              0.00       0.00
## 7810       20000.00       976.74              0.00       0.00
## 7812       30000.00      1709.13              0.00       0.00
## 7815       15600.00       631.39              0.00       0.00
## 7825       10350.00      1979.85              0.00       0.00
## 7830       24000.00       499.38              0.00       0.00
## 7845        5000.00         2.45              0.00       0.00
## 7863       30000.00      2750.70              0.00       0.00
## 7867         957.30       373.75              0.00       0.00
## 7877       12000.00       387.58              0.00       0.00
## 7886       28000.00      1067.09              0.00       0.00
```

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## 7892        15000.00        952.61             24.90       0.00
## 7897        13000.00        774.97              0.00       0.00
## 7906        18000.00        845.99              0.00       0.00
## 7927        30000.00       1008.80              0.00       0.00
## 7943        10000.00        422.60              0.00       0.00
## 7970         1200.00         77.14              0.00       0.00
## 7994        10000.00        819.43              0.00       0.00
## 8010        15000.00       2177.96              0.00       0.00
## 8016         1600.00         81.34              0.00       0.00
## 8045        15000.00         42.37             22.37       0.00
## 8081        14000.00        689.68              0.00       0.00
## 8090          792.01        351.63              0.00       0.00
## 8114        15000.00         50.98              0.00       0.00
## 8124         3800.00        241.75              0.00       0.00
## 8131        25375.00       2156.16              0.00       0.00
## 8139        32000.00        941.72              0.00       0.00
## 8150        12800.00        254.60              0.00       0.00
## 8158         5000.00        485.12              0.00       0.00
## 8163        22400.00        727.68              0.00       0.00
## 8168        20000.00       1218.13              0.00       0.00
## 8191        10000.00        349.89              0.00       0.00
## 8205        20000.00       1413.40              0.00       0.00
## 8219         1908.89       1100.89              0.00       0.00
## 8225        10000.00       1014.52              0.00       0.00
## 8251         5000.00        357.83              0.00       0.00
## 8253        28175.00       1583.04              0.00       0.00
## 8263        40000.00       1655.18              0.00       0.00
## 8271          276.69        615.41              0.00       0.00
## 8285        10000.00       1213.48              0.00       0.00
## 8296        20000.00       1316.97              0.00       0.00
## 8300        35000.00        521.46              0.00       0.00
## 8326         8000.00        261.31              0.00       0.00
## 8343        20000.00       2169.47              0.00       0.00
## 8349         8000.00        163.92              0.00       0.00
## 8365        14700.00        425.11              0.00       0.00
## 8381         8500.00        579.45              0.00       0.00
## 8398          300.92        233.04              0.00       0.00
## 8402         8400.00          9.36              0.00       0.00
## 8422         8000.00        422.22              0.00       0.00
## 8423         4000.00        240.10              0.00       0.00
## 8442         5000.00         57.66              0.00       0.00
## 8458        13500.00       2134.98              0.00       0.00
## 8468         1151.03        551.75              0.00       0.00
## 8469          246.54        167.84              0.00     824.32
## 8486        15000.00        360.32              0.00       0.00
## 8508        18000.00        138.38              0.00       0.00
## 8521          581.70        180.03              0.00    1567.04
## 8527        40000.00       1122.36              0.00       0.00
## 8551          507.55       1298.50              0.00       0.00
## 8561          380.44        876.54              0.00    3147.14
## 8591         4000.00        261.50              0.00       0.00
## 8604          340.73        177.06              0.00       0.00
## 8613        35000.00       1340.27              0.00       0.00
## 8615        10000.00        741.04              0.00       0.00
## 8616        15000.00        358.62              0.00       0.00
## 8628        20000.00       1618.52              0.00       0.00
## 8629          354.19        146.68              0.00       0.00
## 8642         1508.77        347.11              0.00       0.00
## 8643          730.36        608.87              0.00       0.00
## 8650         5800.00        489.90              0.00       0.00
## 8660        28000.00       2676.62              0.00       0.00
## 8662        25000.00       1986.62              0.00       0.00
## 8683        15000.00        536.77              0.00       0.00
## 8689         2054.13       2343.37              0.00       0.00
## 8700          900.25        805.97              0.00       0.00
## 8703        24250.00        650.22              0.00       0.00
## 8705         3000.00         67.15              0.00       0.00
## 8708        12000.00        837.04              0.00       0.00
## 8731        15000.00       1508.35              0.00       0.00
## 8737         3600.00        103.62              0.00       0.00
## 8739        27000.00       1781.82              0.00       0.00
## 8744        20000.00       1785.54              0.00       0.00
## 8769        30000.00       1701.37              0.00       0.00
## 8797        16000.00        877.38              0.00       0.00
## 8818        35000.00       2711.88              0.00       0.00
## 8820        27500.00       1545.03              0.00       0.00
## 8821        35000.00         29.24              0.00       0.00
## 8837        22800.00       3749.55              0.00       0.00
## 8843        16000.00        447.32              0.00       0.00
## 8844        10000.00        246.23              0.00       0.00
## 8848        11200.00         31.96              0.00       0.00
## 8858        25000.00       1613.81              0.00       0.00
## 8869         7000.00        221.35              0.00       0.00
## 8881        10000.00        890.05              0.00       0.00
## 8882         3050.00        206.54              0.00       0.00
## 8887         4000.00        173.43              0.00       0.00
## 8892        20425.00       2731.24              0.00       0.00
## 8894         6000.00        448.51              0.00       0.00
## 8899        10000.00        555.76              0.00       0.00
## 8903          269.10       1116.77             23.86     200.00
## 8908         9000.00        243.52              0.00       0.00
## 8925         5000.00        206.92              0.00       0.00
## 8932        30000.00       5441.59              0.00       0.00
## 8947        19200.00       1277.23              0.00       0.00
## 8964          639.89       1860.33              0.00       0.00
## 8986        15000.00        210.16              0.00       0.00
## 9008         1031.08       2505.30              0.00       0.00
## 9011        10000.00        448.66              0.00       0.00
```

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## 9013        6000.00       365.15              0.00       0.00
## 9021        7500.00       124.12              0.00       0.00
## 9023       28000.00      1772.71              0.00       0.00
## 9054       32000.00      1964.83              0.00       0.00
## 9084         162.98       126.87              0.00       0.00
## 9088        2500.00        80.67              0.00       0.00
## 9129        4000.00       115.29              0.00       0.00
## 9142        7000.00       211.33              0.00       0.00
## 9146         188.21       338.19              0.00       0.00
## 9168        2000.00        28.26              0.00       0.00
## 9175       14000.00       388.81              0.00       0.00
## 9185       16000.00       939.79              0.00       0.00
## 9191        7500.00       603.15              0.00       0.00
## 9206       40000.00       114.18              0.00       0.00
## 9208       12000.00       968.40              0.00       0.00
## 9235         997.10      1808.97              0.00       0.00
## 9269           0.00         0.00              0.00    2804.35
## 9287       12000.00       726.14              0.00       0.00
## 9313        9600.00       340.20              0.00       0.00
## 9317        1150.22       578.69              0.00       0.00
## 9318        6000.00       305.84              0.00       0.00
## 9322       10000.00      1196.97              0.00       0.00
## 9349       12000.00        20.96              0.00       0.00
## 9359        6000.00        15.65              0.00       0.00
## 9360       14000.00       426.42              0.00       0.00
## 9368       38000.00      3074.74              0.00       0.00
## 9369       15600.00      1081.67              0.00       0.00
## 9389       16000.00       772.28              0.00       0.00
## 9417          87.99       185.73              0.00    1437.69
## 9420       14000.00       114.45              0.00       0.00
## 9423       16000.00      1622.09              0.00       0.00
## 9428        6000.00       471.84              0.00       0.00
## 9449        2740.76      1404.73              0.00       0.00
## 9490        6000.00       176.14              0.00       0.00
## 9494        3000.00        87.04              0.00       0.00
## 9513       10000.00       489.61              0.00       0.00
## 9518        8000.00       821.86              0.00       0.00
## 9533        2000.00        59.03              0.00       0.00
## 9548       15000.00       976.85              0.00       0.00
## 9561        8000.00       666.52              0.00       0.00
## 9563        1099.66      3065.45             39.52       0.00
## 9568       16000.00       248.76              0.00       0.00
## 9576       12800.00       986.86              0.00       0.00
## 9588       11500.00       380.79              0.00       0.00
## 9634        4500.00       453.37              0.00       0.00
## 9645       16000.00       698.41              0.00       0.00
## 9660        6000.00       509.41              0.00       0.00
## 9663        1072.45       359.37              0.00       0.00
## 9675        4200.00        67.54              0.00       0.00
## 9678       13500.00         9.03              0.00       0.00
## 9686        8000.00      1138.29              0.00       0.00
## 9707       14400.00       131.14              0.00       0.00
## 9708        8000.00        74.71              0.00       0.00
## 9720       35000.00        43.50              0.00       0.00
## 9724        8000.00       544.61              0.00       0.00
## 9730        9600.00      1024.21              0.00       0.00
## 9739       25000.00       347.01              0.00       0.00
## 9749       17750.00       184.22              0.00       0.00
## 9759        1697.16       759.49              0.00       0.00
## 9771         272.38       289.07              0.00       0.00
## 9802        9000.00       535.21              0.00       0.00
## 9807        1869.06       783.44              0.00       0.00
## 9818       10000.00      1045.10              0.00       0.00
## 9822        6000.00       323.48              0.00       0.00
## 9823       12000.00      1428.28              0.00       0.00
## 9869        3200.00       282.05              0.00       0.00
## 9885        6200.00       182.65              0.00       0.00
## 9916        5000.00       427.57              0.00       0.00
## 9935       15000.00       551.93              0.00       0.00
## 9965        8500.00       341.63              0.00       0.00
## 9981       35000.00        19.01              0.00       0.00
## 9985        5000.00       187.72              0.00       0.00
## 9986       13000.00         7.88              0.00       0.00
## 10009      12000.00       104.05              0.00       0.00
## 10012       6025.00       114.76              0.00       0.00
## 10027       2500.00       149.98              0.00       0.00
## 10068      11000.00       983.86              0.00       0.00
## 10074       7000.00       203.34              0.00       0.00
## 10076      10000.00       256.94              0.00       0.00
## 10092       8000.00       985.48              0.00       0.00
## 10101      15000.00      1648.69              0.00       0.00
## 10124       3000.00       401.31              0.00       0.00
## 10128       1269.91       851.31              0.00       0.00
## 10129       5000.00       259.16              0.00       0.00
## 10141        859.38       556.71              0.00       0.00
## 10142      40000.00       816.96              0.00       0.00
## 10163      10000.00       158.28              0.00       0.00
## 10165       3200.00       178.79              0.00       0.00
## 10179      10000.00       578.09              0.00       0.00
## 10188       4000.00       247.81              0.00       0.00
## 10210       7800.00       257.72              0.00       0.00
## 10220        379.06       150.11              0.00       0.00
## 10221       5000.00       166.57              0.00       0.00
## 10240       6400.00       455.64              0.00       0.00
## 10246      30000.00      1923.44              0.00       0.00
## 10249      15000.00       542.93              0.00       0.00
## 10262      11000.00       320.04              0.00       0.00
## 10265      15000.00       791.13              0.00       0.00
```

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## 10278        35000.00         15.94               0.00       0.00
## 10288         4500.00        217.71               0.00       0.00
## 10319         4500.00        265.13               0.00       0.00
## 10328        14400.00       1161.28               0.00       0.00
## 10329         8400.00        574.56               0.00       0.00
## 10335        12000.00         86.16               0.00       0.00
## 10339        24000.00        431.86               0.00       0.00
## 10366        10000.00         47.66               0.00       0.00
## 10371         5000.00        442.25               0.00       0.00
## 10385         9500.00        323.20               0.00       0.00
## 10387        10000.00        324.72               0.00       0.00
## 10417         5400.00        396.16               0.00       0.00
## 10448         2317.60       1049.62               0.00       0.00
## 10449         8000.00        744.66               0.00       0.00
## 10453        35000.00       1444.04               0.00       0.00
## 10455         6000.00        189.62               0.00       0.00
## 10460         3200.00         66.78               0.00       0.00
## 10464        10000.00       1760.80               0.00       0.00
## 10471         1131.53        490.45               0.00       0.00
## 10482        32875.00       3176.41               0.00       0.00
## 10491         1000.00         64.77               0.00       0.00
## 10494        11225.00        755.98               0.00       0.00
## 10508          471.92        420.14               0.00    2723.36
## 10517         6025.00        234.23               0.00       0.00
## 10530         6000.00        150.98               0.00       0.00
## 10532         3600.00        294.72               0.00       0.00
## 10535         1654.90       3037.27               0.00       0.00
## 10545        10500.00        567.42               0.00       0.00
## 10570         9600.00        474.29               0.00       0.00
## 10573        13200.00        911.95               0.00       0.00
## 10576         7000.00        416.27               0.00       0.00
## 10579         2595.17        815.10               0.00       0.00
## 10582        11650.00       1452.54               0.00       0.00
## 10592         4800.00          5.97               0.00       0.00
## 10595         4000.00        100.33               0.00       0.00
## 10601        10000.00        175.09               0.00       0.00
## 10614        16000.00        424.91               0.00       0.00
## 10620        15000.00        367.25               0.00       0.00
## 10632        20000.00       1157.64               0.00       0.00
## 10641         7000.00        530.89               0.00       0.00
## 10646         5000.00        231.47               0.00       0.00
## 10655         8000.00        466.70               0.00       0.00
## 10658         5500.00        304.24               0.00       0.00
## 10661        10000.00        109.39               0.00       0.00
## 10680        11200.00        992.69               0.00       0.00
## 10689        13000.00       2118.36               0.00       0.00
##       collection_recovery_fee last_pymnt_d last_pymnt_amnt next_pymnt_d
## 16                     0.0000     Jan-2019         1035.37
## 38                     0.0000     Jan-2019         1015.72
## 47                     0.0000     Feb-2019        19720.99
## 77                     0.0000     Jan-2019        10193.10
## 88                     0.0000     Dec-2018        18038.81
## 112                    0.0000     Jan-2019         4114.09
## 133                    0.0000     Feb-2019        20054.73
## 135                    0.0000                         0.00
## 145                    0.0000     Dec-2018        12041.47
## 169                    0.0000     Jan-2019        10214.60
## 180                    0.0000     Dec-2018        15016.22
## 191                    0.0000     Dec-2018         9516.67
## 208                    0.0000     Dec-2018         3011.61
## 222                    0.0000     Dec-2018        15020.65
## 226                    0.0000     Dec-2018        30054.78
## 231                    0.0000     Feb-2019           74.13
## 243                    0.0000     Dec-2018        30101.01
## 244                    0.0000     Jan-2019         5433.70
## 250                    0.0000     Dec-2018        17801.42
## 260                    0.0000     Dec-2018        22533.29
## 271                    0.0000     Jan-2019         1017.81
## 277                    0.0000     Jan-2019        10191.92
## 284                    0.0000     Dec-2018         8411.57
## 292                    0.0000     Jan-2019         3975.26
## 295                    0.0000     Dec-2018        10070.53
## 311                    0.0000     Nov-2018        20087.00
## 355                    0.0000     Jan-2019        11804.35
## 376                    0.0000     Jan-2019          367.52
## 385                    0.0000     Nov-2018        17026.21
## 392                    0.0000     Dec-2018        35789.37
## 400                    0.0000     Nov-2018        15038.61
## 402                    0.0000     Feb-2019        19134.76
## 413                    0.0000     Feb-2019         6850.73
## 421                    0.0000     Jan-2019         9922.39
## 423                    0.0000     Jan-2019        20186.08
## 424                    0.0000     Nov-2018        20057.99
## 440                    0.0000     Jan-2019        30159.11
## 444                    0.0000     Jan-2019         1035.67
## 509                    0.0000     Jan-2019        40256.56
## 524                    0.0000     Nov-2018        10020.86
## 542                    0.0000     Jan-2019         6051.20
## 581                    0.0000     Jan-2019        10569.79
## 593                    0.0000     Nov-2018        35057.65
## 620                    0.0000     Dec-2018          340.09
## 669                    0.0000     Nov-2018        35939.06
## 679                    0.0000     Oct-2018         6007.00
## 695                    0.0000     Jan-2019        24978.16
## 698                    0.0000     Jan-2019        11498.64
## 726                    0.0000     Nov-2018        15284.90
## 750                    0.0000     Nov-2018        10688.81
## 755                    0.0000     Oct-2018         8019.01
```

```
## 791                    0.0000     Feb-2019         7218.73
## 796                    0.0000     Dec-2018        30155.93
## 805                    0.0000     Dec-2018        24722.71
## 806                    0.0000     Dec-2018         8148.01
## 821                    0.0000     Dec-2018        16865.91
## 837                    0.0000     Jan-2019         7785.61
## 841                    0.0000     Dec-2018        13439.54
## 843                    0.0000     Nov-2018         1016.95
## 860                    0.0000                         0.00
## 862                    0.0000     Dec-2018         2387.04
## 891                    0.0000     Nov-2018         3562.42
## 911                    0.0000     Jan-2019        17368.08
## 921                    0.0000     Jan-2019        18008.42
## 930                    0.0000     Dec-2018        17854.91
## 952                    0.0000     Feb-2019         8652.00
## 956                    0.0000     Feb-2019        19024.98
## 958                    0.0000     Dec-2018        11579.40
## 967                    0.0000     Feb-2019        33279.45
## 974                    0.0000     Feb-2019         8827.47
## 982                    0.0000     Dec-2018         4965.28
## 1014                   0.0000     Oct-2018         8608.88
## 1022                   0.0000     Feb-2019        33169.72
## 1045                   0.0000     Nov-2018         8057.58
## 1051                   0.0000     Jan-2019        18580.85
## 1075                   0.0000     Jan-2019         2907.26
## 1097                   0.0000     Jan-2019         4190.92
## 1099                   0.0000     Nov-2018         1978.37
## 1104                   0.0000     Jan-2019         9001.90
## 1107                   0.0000     Oct-2018        19939.84
## 1119                   0.0000     Oct-2018        10013.77
## 1125                   0.0000     Dec-2018          988.69
## 1166                   0.0000     Oct-2018         5007.63
## 1167                   0.0000     Nov-2018        10021.71
## 1172                   0.0000     Oct-2018        16214.84
## 1173                   0.0000     Oct-2018        12018.60
## 1175                   0.0000     Jan-2019        11251.11
## 1177                   0.0000     Dec-2018         1932.50
## 1193                   0.0000     Feb-2019         9202.92
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## 1206                   0.0000     Nov-2018         5018.42
## 1223                   0.0000     Jan-2019        18896.91
## 1230                   0.0000     Oct-2018        20546.49
## 1238                   0.0000     Sep-2018        12837.98
## 1245                   0.0000     Nov-2018         2381.23
## 1250                   0.0000     Jan-2019        30179.87
## 1272                   0.0000     Dec-2018         4019.35
## 1282                   0.0000     Nov-2018         4918.57
## 1283                   0.0000     Oct-2018        16167.12
## 1298                   0.0000     Jan-2019        29159.41
## 1300                   0.0000     Jan-2019         9588.46
## 1308                   0.0000     Oct-2018        12199.98
## 1321                   0.0000     Dec-2018        10142.71
## 1322                   0.0000     Dec-2018        12912.70
## 1327                   0.0000     Nov-2018         9991.48
## 1374                   0.0000     Jan-2019         5181.09
## 1378                   0.0000     Jan-2019         7690.91
## 1385                   0.0000     Jan-2019        16896.22
## 1411                   0.0000     Oct-2018         5145.89
## 1415                   0.0000     Nov-2018        14949.42
## 1463                   0.0000     Sep-2018        12614.48
## 1517                   0.0000     Oct-2018        10276.42
## 1531                   0.0000     Oct-2018         9743.77
## 1598                   0.0000     Nov-2018        29575.19
## 1609                   0.0000     Sep-2018        10009.24
## 1638                   0.0000     Feb-2019           43.10
## 1684                   0.0000     Oct-2018         7986.19
## 1710                   0.0000     Jan-2019         1837.09
## 1713                   0.0000     Jan-2019        19759.41
## 1722                   0.0000     Jan-2019           62.22
## 1733                   0.0000     Jan-2019        12739.36
## 1742                   0.0000     Feb-2019         5872.68
## 1770                   0.0000     Dec-2018        19054.24
## 1777                   0.0000     Oct-2018         3079.33
## 1779                   0.0000     Jan-2019         7358.31
## 1781                   0.0000     Jan-2019        16568.50
## 1808                   0.0000     Dec-2018         1668.39
## 1814                   0.0000     Sep-2018        35503.53
## 1832                   0.0000     Sep-2018         6088.59
## 1834                   0.0000     Jan-2019        28118.67
## 1841                   0.0000     Aug-2018        25370.10
## 1858                   0.0000     Oct-2018         5531.63
## 1872                   0.0000     Nov-2018        24057.62
## 1888                   0.0000     Sep-2018         7031.36
## 1908                   0.0000     Dec-2018         9562.75
## 1912                   0.0000     Nov-2018        16294.99
## 1918                   0.0000     Dec-2018        19843.02
## 1923                   0.0000     Jan-2019        16252.49
## 1931                   0.0000     Dec-2018         7449.64
## 1940                   0.0000     Jan-2019        18796.47
## 1941                   0.0000     Dec-2018        26386.83
## 1966                   0.0000     Aug-2018        24073.81
## 1967                   0.0000     Jan-2019         3912.83
## 1969                   0.0000     Nov-2018        20225.16
## 1993                   0.0000     Sep-2018        21314.22
## 2000                   0.0000     Sep-2018        25373.79
## 2020                   0.0000     Oct-2018        35680.47
## 2021                   0.0000     Feb-2019        13221.93
## 2022                   0.0000     Dec-2018        13929.45
```

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## 2024                    0.0000     Jan-2019         7353.78
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## 2134                    0.0000     Sep-2018        16120.99
## 2141                    0.0000     Sep-2018        20423.88
## 2152                    0.0000     Jan-2019         7482.63
## 2164                    0.0000     Jan-2019        16709.90
## 2188                    0.0000     Sep-2018         2459.31
## 2195                    0.0000     Sep-2018         2528.60
## 2205                    0.0000     Sep-2018          519.07
## 2223                    0.0000     Dec-2018         3033.37
## 2228                    0.0000     Dec-2018         7590.89
## 2237                    0.0000     Dec-2018        12105.84
## 2266                    0.0000     Sep-2018        24625.00
## 2269                    0.0000     Aug-2018        24117.52
## 2276                    0.0000     Jan-2019         8740.53
## 2282                    0.0000     Dec-2018        15176.59
## 2291                    0.0000     Sep-2018         8362.79
## 2299                    0.0000     Oct-2018         3585.94
## 2309                    0.0000     Sep-2018        14317.18
## 2311                    0.0000     Jan-2019         9273.58
## 2317                    0.0000     Jan-2019         1672.33
## 2324                    0.0000     Jan-2019        27425.26
## 2360                    0.0000     Feb-2019        12880.96
## 2366                    0.0000     Nov-2018        17416.15
## 2372                    0.0000     Sep-2018         1532.23
## 2391                    0.0000     Aug-2018        14068.98
## 2451                    0.0000     Feb-2019        38316.46
## 2466                    0.0000     Oct-2018        19267.80
## 2487                    0.0000     Nov-2018        34304.56
## 2498                    0.0000     Dec-2018         7603.46
## 2507                    0.0000     Feb-2019        11328.91
## 2553                    0.0000     Jan-2019         2708.57
## 2570                    0.0000     Jan-2019          441.09
## 2573                    0.0000     Aug-2018         5577.83
## 2594                    0.0000     Aug-2018        20044.23
## 2632                    0.0000     Nov-2018         5165.39
## 2644                    0.0000     Nov-2018        10810.89
## 2665                    0.0000     Dec-2018         2903.39
## 2666                    0.0000     Nov-2018        15600.43
## 2680                    0.0000     Nov-2018           80.00
## 2682                    0.0000     Dec-2018          800.00
## 2688                    0.0000     Nov-2018          108.97
## 2697                    0.0000     Dec-2018         5622.39
## 2704                    0.0000     Dec-2018         7246.90
## 2739                    0.0000     Jan-2019         9774.98
## 2741                    0.0000     Nov-2018         1356.59
## 2750                    0.0000     Oct-2018         6723.53
## 2751                    0.0000     Dec-2018        13739.20
## 2754                    0.0000     Jul-2018         9614.20
## 2762                    0.0000     Aug-2018         7857.59
## 2764                    0.0000     Aug-2018        10033.73
## 2778                    0.0000     Jan-2019         5337.64
## 2802                    0.0000     Oct-2018        18793.29
## 2818                    0.0000     Sep-2018        12371.61
## 2822                    0.0000     Oct-2018        11828.20
## 2841                    0.0000     Aug-2018        16322.16
## 2848                    0.0000     Nov-2018         9404.65
## 2888                    0.0000     Nov-2018        17345.73
## 2922                    0.0000     Sep-2018        15266.86
## 2941                    0.0000     Sep-2018         1007.91
## 2956                    0.0000     Aug-2018        20541.25
## 2970                    0.0000     Sep-2018        12054.90
## 2986                    0.0000     Feb-2019        13056.91
## 3006                    0.0000     Aug-2018        14427.76
## 3030                    0.0000     Jul-2018        23011.91
## 3035                    0.0000     Sep-2018          443.85
## 3044                    0.0000     Dec-2018        18980.25
## 3048                    0.0000     Jul-2018         4005.99
## 3063                    0.0000     Jan-2019         6956.23
## 3064                    0.0000     Sep-2018          101.88
## 3072                    0.0000     Dec-2018         6871.24
## 3080                    0.0000     Dec-2018        14637.06
## 3082                    0.0000     Aug-2018        20504.42
## 3097                    0.0000     Jan-2019        10553.83
## 3098                    0.0000     Oct-2018        11888.77
## 3135                    0.0000     Jul-2018         4034.82
## 3151                    0.0000     Oct-2018        23386.98
## 3153                    0.0000     Feb-2019         5179.67
## 3171                    0.0000     Jul-2018        25041.55
## 3205                    0.0000     Nov-2018         9372.61
## 3217                    0.0000     Aug-2018         5617.30
## 3225                    0.0000     Oct-2018         9587.74
## 3227                    0.0000     Jan-2019          134.63
## 3234                    0.0000     Dec-2018        13874.51
## 3239                    0.0000     Oct-2018         6713.04
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## 3331                    0.0000     Oct-2018        34266.34
## 3334                    0.0000     Jul-2018         6027.12
## 3372                    0.0000     Oct-2018         9490.84
## 3379                    0.0000     Oct-2018        10274.63
## 3393                    0.0000     Sep-2018        14279.25
## 3395                    0.0000     Sep-2018        29929.62
## 3403                    0.0000     Jul-2018         9383.00
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## 3413                    0.0000     Dec-2018        19556.80
## 3417                    0.0000     Jan-2019        14416.29
```

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## 3487                    0.0000     Jan-2019        13832.33
## 3513                    0.0000     Feb-2019         6070.65
## 3521                    0.0000     Oct-2018          715.88
## 3532                    0.0000     Nov-2018        18734.47
## 3558                    0.0000     Jul-2018         5036.40
## 3562                    0.0000     Nov-2018         9666.41
## 3571                    0.0000     Nov-2018        16936.74
## 3574                    0.0000     Aug-2018         4540.60
## 3581                    0.0000     Nov-2018          174.53
## 3589                    0.0000     Aug-2018         4539.43
## 3605                    0.0000     Oct-2018          313.64
## 3630                    0.0000     Oct-2018         9602.43
## 3631                    0.0000     Feb-2019         6594.14
## 3640                    0.0000     Nov-2018        22647.30
## 3642                    0.0000     Jul-2018        15174.26
## 3644                    0.0000     Jan-2019         4450.07
## 3653                    0.0000     Dec-2018        14223.37
## 3662                    0.0000     Jan-2019         2317.38
## 3663                    0.0000     Aug-2018         1985.36
## 3691                    0.0000     Jul-2018         6127.24
## 3713                    0.0000     Nov-2018        17312.86
## 3726                    0.0000     Oct-2018         1274.73
## 3746                    0.0000     Feb-2019        14782.53
## 3751                    0.0000     Oct-2018         9436.20
## 3757                    0.0000     Jul-2018          105.71
## 3761                    0.0000     Jan-2019         9283.88
## 3763                    0.0000     Jun-2018        15043.53
## 3770                    0.0000     Jun-2018        16037.89
## 3774                    0.0000     Aug-2018          707.70
## 3775                    0.0000     Aug-2018          505.85
## 3786                    0.0000     Oct-2018         8528.69
## 3809                    0.0000     Sep-2018          534.23
## 3824                    0.0000     Dec-2018        11224.10
## 3832                    0.0000     Oct-2018          227.72
## 3845                    0.0000     Oct-2018         1990.16
## 3864                    0.0000     Dec-2018         4049.55
## 3877                    0.0000     Jul-2018          109.14
## 3890                    0.0000     Jul-2018        11695.79
## 3907                    0.0000     Sep-2018         7721.03
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## 3925                    0.0000     Dec-2018         3114.34
## 3927                    0.0000     Jun-2018         7510.65
## 3945                    0.0000     Aug-2018          332.77
## 3946                    0.0000     Jul-2018        40149.02
## 3972                    0.0000     Nov-2018         4576.14
## 3986                    0.0000     Oct-2018         2333.67
## 3988                    0.0000     Aug-2018          267.12
## 4008                    0.0000     Jan-2019        26943.37
## 4015                    0.0000     Nov-2018           50.00
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## 4047                    0.0000     Oct-2018          859.72
## 4056                    0.0000     Oct-2018        24329.07
## 4076                    0.0000     Dec-2018        21085.20
## 4090                    0.0000     Sep-2018          698.12
## 4103                    0.0000     Nov-2018            1.24
## 4160                    0.0000     Oct-2018         5633.29
## 4164                    0.0000     Oct-2018        11186.75
## 4188                    0.0000     Oct-2018         7035.52
## 4222                    0.0000     Oct-2018           29.42
## 4231                    0.0000     Oct-2018        28612.16
## 4236                    0.0000     Jun-2018        35142.33
## 4256                    0.0000     Jan-2019        12654.77
## 4282                    0.0000     Dec-2018         5338.29
## 4286                    0.0000     Aug-2018        30931.07
## 4306                    0.0000     Dec-2018        18599.00
## 4308                    0.0000     Jul-2018          292.62
## 4313                    0.0000     Jul-2018         8171.44
## 4355                    0.0000     Nov-2018         9331.11
## 4358                    0.0000     Sep-2018          487.97
## 4375                    0.0000     Sep-2018          566.04
## 4383                    0.0000     Oct-2018           64.15
## 4387                    0.0000     Jan-2019         5612.10
## 4404                    0.0000     Jun-2018        12039.04
## 4420                    0.0000     Aug-2018         9892.75
## 4449                    0.0000     Sep-2018        11087.76
## 4455                    0.0000     Aug-2018         5520.70
## 4463                    0.0000     Feb-2019         6425.92
## 4490                    0.0000     Sep-2018        16303.62
## 4495                    0.0000     Oct-2018        13119.58
## 4505                    0.0000     Jan-2019        10422.41
## 4507                    0.0000     Feb-2019         7689.01
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## 4553                    0.0000     Aug-2018         3998.49
## 4579                    0.0000     Dec-2018        20877.59
## 4591                    0.0000     Jan-2019        11911.22
## 4593                    0.0000     Jul-2018         8642.94
## 4599                    0.0000     Nov-2018        32418.82
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## 4636                    0.0000     Dec-2018          285.23
## 4659                    0.0000     Jan-2019         1412.45
## 4667                    0.0000     Jan-2019         4364.17
## 4670                    0.0000     Jan-2019         5211.17
## 4676                    0.0000     Aug-2018        11923.65
## 4678                    0.0000     Oct-2018        29387.31
## 4679                    0.0000     Aug-2018         4981.76
## 4687                    0.0000     Jun-2018        22026.64
## 4697                    0.0000     Aug-2018        15718.04
## 4709                    0.0000     Oct-2018          162.66
```

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## 4725                0.0000     Jan-2019        5871.78
## 4741                0.0000     Jan-2019       26653.46
## 4777                0.0000     Nov-2018       34812.21
## 4781                0.0000     Aug-2018       12077.21
## 4796                0.0000     Nov-2018        6187.19
## 4807                0.0000     Jan-2019       33781.80
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## 4830                0.0000     Feb-2019       12578.93
## 4849                0.0000     Nov-2018       25593.92
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## 4854                0.0000     Jun-2018        6038.72
## 4859                0.0000     Jan-2019        4444.79
## 4897                0.0000     Sep-2018        1205.08
## 4966                0.0000     Jun-2018       25409.98
## 4975                0.0000     Nov-2018       19446.79
## 4991                0.0000     Aug-2018        4798.02
## 5016                0.0000     Jun-2018        7377.78
## 5020                0.0000     Jun-2018       35088.94
## 5024                0.0000     Oct-2018        3120.52
## 5026                0.0000     Sep-2018         627.65
## 5040                0.0000     Dec-2018        7118.12
## 5058                0.0000     Sep-2018         393.15
## 5078                0.0000     Jul-2018        9842.10
## 5082                0.0000     Jan-2019        1323.08
## 5092                0.0000     Jun-2018       21962.08
## 5140                0.0000     Jun-2018       15297.67
## 5143                0.0000     Aug-2018        6321.09
## 5148                0.0000     Nov-2018       11082.09
## 5188                0.0000     Sep-2018       17652.43
## 5203                0.0000     May-2018       15032.06
## 5214                0.0000     Sep-2018         668.76
## 5224                0.0000     Nov-2018        5360.03
## 5229                0.0000     Oct-2018       38985.44
## 5281                0.0000     Jan-2019        3541.70
## 5290                0.0000     Jan-2019        7820.61
## 5310                0.0000     Nov-2018        2789.01
## 5327                0.0000     Sep-2018         143.55
## 5331                0.0000     Oct-2018       10993.65
## 5334                0.0000     Dec-2018          87.06
## 5335                0.0000     May-2018       30077.45
## 5336                0.0000     Jul-2018       15767.00
## 5349                0.0000     Sep-2018         435.35
## 5353                0.0000     Oct-2018        9057.65
## 5370                0.0000     Nov-2018       33798.92
## 5381                0.0000     Dec-2018       34203.66
## 5385                0.0000     Nov-2018       14422.12
## 5396                0.0000     Oct-2018        7755.78
## 5408                0.0000     Dec-2018       12856.27
## 5415                0.0000     Aug-2018        9326.84
## 5424                0.0000     Dec-2018        7612.81
## 5428                0.0000     Jan-2019       21158.25
## 5450                0.0000     Jul-2018        7421.23
## 5474                0.0000     Oct-2018       18265.04
## 5480                0.0000     Jun-2018       13747.71
## 5486                0.0000     Sep-2018         163.82
## 5509                0.0000     Sep-2018         549.62
## 5518                0.0000     Jan-2019        4131.65
## 5523                0.0000     Jan-2019        5048.24
## 5534                0.0000     Oct-2018        7364.98
## 5536                0.0000     Aug-2018        9848.70
## 5541                0.0000     Jun-2018       17947.32
## 5551                0.0000     Sep-2018       11230.26
## 5557              791.8164                          0.00
## 5562                0.0000     May-2018        8416.82
## 5584                0.0000     Jul-2018       20044.37
## 5588                0.0000     Jul-2018        9963.43
## 5598                0.0000     Sep-2018       19777.75
## 5599                0.0000     Dec-2018         300.19
## 5625                0.0000     Jun-2018        7234.15
## 5626                0.0000     Oct-2018       19245.48
## 5633                0.0000     Nov-2018         442.44
## 5641                0.0000     Nov-2018       17080.27
## 5674                0.0000     Oct-2018        2348.95
## 5693                0.0000     Jun-2018        6539.30
## 5697                0.0000     Oct-2018        9785.91
## 5704                0.0000     Jun-2018       10125.33
## 5712                0.0000     Sep-2018         349.65
## 5761                0.0000     Jan-2019        8318.61
## 5763                0.0000     Jun-2018        4042.30
## 5796                0.0000     Jul-2018         254.65
## 5797                0.0000     May-2018       25062.84
## 5800                0.0000     Dec-2018        9664.03
## 5808                0.0000     Oct-2018         667.79
## 5812                0.0000     Sep-2018        7009.39
## 5814                0.0000     Jan-2019       30066.06
## 5819                0.0000     Aug-2018       10072.80
## 5824                0.0000     Jul-2018         534.23
## 5833                0.0000     Oct-2018          96.95
## 5851                0.0000     Nov-2018       16497.35
## 5857                0.0000     Jan-2019       20706.06
## 5862                0.0000     Aug-2018       30313.22
## 5866                0.0000     Nov-2018       15575.66
## 5873                0.0000     Oct-2018        6369.06
## 5877                0.0000     Aug-2018        5178.90
## 5891                0.0000     Jan-2019       13690.40
## 5914                0.0000     Feb-2019         140.75
## 5936                0.0000     Jul-2018       31412.05
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## 5961                    0.0000     Jul-2018        15113.54
## 5969                    0.0000     Dec-2018          361.81
## 5983                    0.0000     Sep-2018         1321.43
## 5984                    0.0000     Dec-2018        25879.23
## 5993                    0.0000     Dec-2018         8579.63
## 5995                    0.0000     Sep-2018           29.33
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## 6022                    0.0000     Aug-2018        11651.15
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## 6058                    0.0000     Feb-2019        13512.14
## 6067                    0.0000     Aug-2018        16092.98
## 6081                    0.0000     Dec-2018          598.87
## 6095                    0.0000     Jan-2019        26635.81
## 6098                    0.0000     Nov-2018         9031.60
## 6103                    0.0000     Sep-2018         5669.68
## 6107                    0.0000     Aug-2018          644.09
## 6108                    0.0000     Nov-2018            3.90
## 6110                    0.0000     Jul-2018        16177.26
## 6112                    0.0000     Jul-2018        11943.52
## 6125                    0.0000     Sep-2018         5606.90
## 6137                    0.0000     Sep-2018        26213.01
## 6143                    0.0000     Jan-2019        13486.49
## 6153                    0.0000     Dec-2018         8718.32
## 6166                    0.0000     Aug-2018         9579.29
## 6198                    0.0000     Oct-2018        11063.36
## 6215                    0.0000     Oct-2018        19798.64
## 6216                    0.0000     Jun-2018         5051.50
## 6220                    0.0000     Aug-2018          108.72
## 6226                    0.0000     Feb-2019        13945.94
## 6235                    0.0000     Aug-2018         7770.22
## 6245                    0.0000     May-2018         7523.58
## 6252                    0.0000     Aug-2018         7826.01
## 6261                    0.0000     May-2018        15107.63
## 6268                    0.0000     Sep-2018         7112.24
## 6302                    0.0000     Sep-2018          759.96
## 6304                    0.0000     Jul-2018           73.35
## 6331                    0.0000     Jul-2018        21383.07
## 6337                    0.0000     Sep-2018        23419.13
## 6373                    0.0000     Jun-2018        35379.53
## 6379                    0.0000     Aug-2018        19326.60
## 6397                    0.0000     Nov-2018         8600.76
## 6401                    0.0000     Sep-2018        33587.84
## 6438                    0.0000     Sep-2018          313.18
## 6442                    0.0000     Nov-2018          442.43
## 6447                    0.0000     May-2018        19255.88
## 6450                    0.0000     Nov-2018          155.63
## 6464                    0.0000     May-2018         8014.91
## 6506                    0.0000     Jul-2018          267.12
## 6513                    0.0000     May-2018        12037.90
## 6519                    0.0000     May-2018        10059.90
## 6520                    0.0000     Oct-2018         1054.86
## 6580                    0.0000     Aug-2018        14964.50
## 6616                    0.0000     Jun-2018          618.57
## 6652                    0.0000     Jan-2019        33584.24
## 6667                    0.0000     Oct-2018          879.39
## 6688                    0.0000     Jul-2018        15573.75
## 6693                    0.0000     Nov-2018         8284.84
## 6727                    0.0000     Feb-2019        24243.98
## 6732                    0.0000     Aug-2018          267.12
## 6735                    0.0000     Jan-2019         4202.35
## 6746                    0.0000     May-2018        12237.39
## 6754                    0.0000     Aug-2018         3384.56
## 6770                    0.0000     Nov-2018         5267.25
## 6789                    0.0000     Dec-2018          161.62
## 6803                    0.0000     Nov-2018        20601.27
## 6819                    0.0000     Aug-2018         1883.76
## 6820                    0.0000     Dec-2018         5306.02
## 6822                    0.0000     Nov-2018        10846.29
## 6824                    0.0000     Sep-2018          553.04
## 6834                    0.0000     Dec-2018         8658.77
## 6841                    0.0000     Jun-2018        25104.68
## 6843                    0.0000     Jul-2018         1031.35
## 6858                    0.0000     Sep-2018          342.12
## 6860                    0.0000     Jul-2018         5927.71
## 6889                    0.0000     Jul-2018          373.63
## 6891                    0.0000     Jun-2018        21248.79
## 6894                    0.0000     Jan-2019          354.13
## 6896                    0.0000     Nov-2018          951.10
## 6899                    0.0000     Jul-2018         9642.39
## 6900                    0.0000     Jun-2018        11803.93
## 6917                    0.0000     Jul-2018          243.24
## 6919                    0.0000     May-2018        18023.64
## 6923                    0.0000     Aug-2018        17440.37
## 6934                    0.0000     Sep-2018         9157.71
## 6941                    0.0000     Sep-2018        28422.53
## 6954                    0.0000     Oct-2018         5321.67
## 6957                    0.0000     Oct-2018        15839.38
## 6960                    0.0000     Jul-2018        31738.02
## 6962                    0.0000     Aug-2018           86.64
## 6965                    0.0000     Sep-2018         9128.36
## 6971                    0.0000     Jul-2018         5740.63
## 6977                    0.0000     Nov-2018           22.50
## 6989                    0.0000     Jan-2019         2881.49
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## 7008                    0.0000     Nov-2018         2860.82
## 7009                    0.0000     Jan-2019          400.00
```

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## 7012                0.0000     Apr-2018        27043.04
## 7017                0.0000     Jun-2018          922.05
## 7033                0.0000     Apr-2018         8018.86
## 7037                0.0000     Oct-2018         2363.54
## 7057                0.0000     Sep-2018          826.02
## 7060                0.0000     Sep-2018           17.52
## 7064                0.0000     May-2018         3505.42
## 7085                0.0000     Dec-2018        18747.32
## 7129                0.0000     Apr-2018        10414.90
## 7138                0.0000     Jan-2019        16204.06
## 7145                0.0000     Dec-2018          269.23
## 7160                0.0000     Jul-2018          848.31
## 7174                0.0000     Nov-2018        16868.54
## 7187                0.0000     Oct-2018        12077.50
## 7189                0.0000     Nov-2018          416.00
## 7215                0.0000     Dec-2018         4020.33
## 7216                0.0000     Jan-2019         3522.87
## 7238                0.0000     Nov-2018         7843.86
## 7266                0.0000     Dec-2018          942.24
## 7271                0.0000     Aug-2018         9368.86
## 7281                0.0000     Dec-2018         6417.39
## 7284                0.0000     May-2018        23566.23
## 7318                0.0000     Dec-2018         4179.95
## 7343                0.0000     Nov-2018        18501.59
## 7354                0.0000     Feb-2019        23977.71
## 7373                0.0000     May-2018        21121.02
## 7380                0.0000     Dec-2018         5136.05
## 7382                0.0000     Jun-2018         1987.56
## 7383                0.0000     Aug-2018          375.82
## 7411                0.0000     Jun-2018         9904.00
## 7439                0.0000     Jan-2019         5781.20
## 7466                0.0000     Nov-2018        30653.85
## 7476                0.0000     Nov-2018         3941.21
## 7521                0.0000     Dec-2018           71.99
## 7522                0.0000     Oct-2018         5705.00
## 7544                0.0000     Dec-2018            3.88
## 7548                0.0000     Feb-2019         8091.85
## 7560                0.0000     Aug-2018        15189.24
## 7578                0.0000     May-2018         8547.64
## 7581                0.0000     Nov-2018         6007.74
## 7583                0.0000     Aug-2018         5739.22
## 7616                0.0000     Jun-2018        15790.17
## 7628                0.0000     May-2018          727.58
## 7641                0.0000     Aug-2018         4687.10
## 7648              346.3416     Jun-2018          498.08
## 7664                0.0000     Jun-2018        30529.37
## 7682                0.0000     Nov-2018         2131.85
## 7736                0.0000     Jun-2018        14444.11
## 7750                0.0000     Jan-2019        19305.44
## 7753                0.0000     Jan-2019         5092.68
## 7775                0.0000     Feb-2019         2816.67
## 7785                0.0000     Nov-2018        10587.10
## 7799                0.0000     Dec-2018         6041.85
## 7809                0.0000     Nov-2018         4338.18
## 7810                0.0000     Dec-2018        18190.15
## 7812                0.0000     Jan-2019        24238.42
## 7815                0.0000     Sep-2018        14279.49
## 7825                0.0000     Jan-2019         9874.85
## 7830                0.0000     Jun-2018        23743.85
## 7845                0.0000     Apr-2018         5006.22
## 7863                0.0000     Oct-2018        27285.08
## 7867                0.0000     Aug-2018          326.92
## 7877                0.0000     Jun-2018        11991.41
## 7886                0.0000     Jun-2018        28005.89
## 7892                0.0000     Nov-2018          499.40
## 7897                0.0000     Dec-2018        10856.37
## 7906                0.0000     Sep-2018        16529.65
## 7927                0.0000     May-2018        31081.63
## 7943                0.0000     Jun-2018        10148.35
## 7970                0.0000     Jul-2018         1187.12
## 7994                0.0000     Jan-2019         8169.69
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## 8016                0.0000     Aug-2018         1519.47
## 8045                0.0000     May-2018         1007.76
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## 8090                0.0000     Aug-2018          278.92
## 8114                0.0000     Apr-2018        15067.97
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## 8131                0.0000     Jan-2019        23034.45
## 8139                0.0000     Jun-2018        31891.93
## 8150                0.0000     Aug-2018          401.30
## 8158                0.0000     Jan-2019         3820.55
## 8163                0.0000     Aug-2018           90.92
## 8168                0.0000     Sep-2018        18515.30
## 8191                0.0000     Dec-2018         1593.78
## 8205                0.0000     Jan-2019         7194.87
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## 8225                0.0000     Dec-2018         3504.25
## 8251                0.0000     Feb-2019         3922.98
## 8253                0.0000     Oct-2018        25117.79
## 8263                0.0000     Sep-2018        36542.51
## 8271                0.0000     Jun-2018          468.13
## 8285                0.0000     Nov-2018         7450.98
## 8296                0.0000     Jul-2018        19803.41
## 8300                0.0000     Jun-2018        34471.48
## 8326                0.0000     Jun-2018         7974.68
## 8343                0.0000     Feb-2019        18050.38
## 8349                0.0000     May-2018         8185.14
```

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## 8365                0.0000     Jul-2018        14150.61
## 8381                0.0000     Dec-2018            8.28
## 8398                0.0000     Aug-2018          134.51
## 8402                0.0000     Apr-2018         8415.24
## 8422                0.0000     Aug-2018         7364.98
## 8423                0.0000     Dec-2018           11.83
## 8442                0.0000     Apr-2018         5063.73
## 8458                0.0000     Nov-2018           99.20
## 8468                0.0000     Aug-2018          342.12
## 8469              148.3776     May-2018          224.18
## 8486                0.0000     Jun-2018        14852.07
## 8508                0.0000     Apr-2018        18156.83
## 8521              282.0672     Jun-2018          384.01
## 8527                0.0000     May-2018        40403.87
## 8551                0.0000     Aug-2018          364.78
## 8561              566.4852     Jun-2018          643.67
## 8591                0.0000     Nov-2018         3467.24
## 8604                0.0000     Aug-2018          104.06
## 8613                0.0000     Jun-2018        29736.31
## 8615                0.0000     Nov-2018         8223.35
## 8616                0.0000     Jul-2018        14399.99
## 8628                0.0000     Nov-2018        18837.55
## 8629                0.0000     Oct-2018           83.77
## 8642                0.0000     Jul-2018          465.50
## 8643                0.0000     Jun-2018          451.08
## 8650                0.0000     Jul-2018         5633.76
## 8660                0.0000     Aug-2018        27716.66
## 8662                0.0000     Jan-2019          210.80
## 8683                0.0000     Jun-2018        14522.13
## 8689                0.0000     Aug-2018          885.98
## 8700                0.0000     Aug-2018          345.77
## 8703                0.0000     Jun-2018        24099.63
## 8705                0.0000     May-2018         2970.83
## 8708                0.0000     Jan-2019         2208.33
## 8731                0.0000     Sep-2018        14577.77
## 8737                0.0000     Oct-2018           16.13
## 8739                0.0000     Sep-2018        26202.89
## 8744                0.0000     Aug-2018        18785.06
## 8769                0.0000     Jul-2018        28590.16
## 8797                0.0000     Sep-2018           37.68
## 8818                0.0000     Oct-2018        30582.14
## 8820                0.0000     Aug-2018           47.81
## 8821                0.0000     Apr-2018        35087.73
## 8837                0.0000     Dec-2018        21582.74
## 8843                0.0000     Jun-2018        15433.60
## 8844                0.0000     Jul-2018         9606.59
## 8848                0.0000     Apr-2018        11240.71
## 8858                0.0000     Sep-2018        22415.47
## 8869                0.0000     Jun-2018         6767.91
## 8881                0.0000     Oct-2018         8817.31
## 8882                0.0000     Dec-2018         2475.86
## 8887                0.0000     Aug-2018         3668.76
## 8892                0.0000     Sep-2018        20224.66
## 8894                0.0000     Dec-2018         4893.82
## 8899                0.0000     Jan-2019         8051.09
## 8903               36.0000     Oct-2018          501.11
## 8908                0.0000     May-2018         8954.57
## 8925                0.0000     Jan-2019         2219.35
## 8932                0.0000     Dec-2018        28461.15
## 8947                0.0000     Sep-2018        18278.77
## 8964                0.0000     Aug-2018          505.15
## 8986                0.0000     Apr-2018        15218.84
## 9008                0.0000     Jul-2018          894.85
## 9011                0.0000     Sep-2018         8853.85
## 9013                0.0000     Feb-2019          220.66
## 9021                0.0000     Sep-2018          444.60
## 9023                0.0000     Sep-2018        23634.78
## 9054                0.0000     Aug-2018        29610.72
## 9084                0.0000     Apr-2018          298.91
## 9088                0.0000     Jul-2018         2346.88
## 9129                0.0000     Aug-2018         3620.36
## 9142                0.0000     Aug-2018         6355.67
## 9146                0.0000     May-2018          275.34
## 9168                0.0000     Apr-2018         2031.60
## 9175                0.0000     Jun-2018        13520.08
## 9185                0.0000     Aug-2018        15518.73
## 9191                0.0000     Jan-2019         5905.52
## 9206                0.0000     Apr-2018        40146.80
## 9208                0.0000     Sep-2018        11559.75
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## 9269              504.7830                          0.00
## 9287                0.0000     Jul-2018        11833.95
## 9313                0.0000     Jul-2018         9023.60
## 9317                0.0000     Sep-2018          342.12
## 9318                0.0000     Aug-2018         5680.33
## 9322                0.0000     Jan-2019         8083.68
## 9349                0.0000     Mar-2018        12028.95
## 9359                0.0000     Apr-2018         6017.89
## 9360                0.0000     Apr-2018        14442.28
## 9368                0.0000     Nov-2018        32210.95
## 9369                0.0000     Jul-2018        15497.75
## 9389                0.0000     Oct-2018         9208.60
## 9417              258.7842     Apr-2018          286.99
## 9420                0.0000     Apr-2018        14122.93
## 9423                0.0000     Jan-2019        12741.85
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## 9449                0.0000     Sep-2018          693.70
## 9490                0.0000     Sep-2018         5264.51
```

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## 9494                0.0000     Feb-2019          8.89
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## 9518                0.0000     Dec-2018       6613.49
## 9533                0.0000     Jun-2018       1927.54
## 9548                0.0000     Aug-2018      14544.09
## 9561                0.0000     Feb-2019       5350.97
## 9563                0.0000     Oct-2018        620.22
## 9568                0.0000     May-2018      15758.75
## 9576                0.0000     Oct-2018      11187.30
## 9588                0.0000     May-2018      11174.31
## 9634                0.0000     Oct-2018       3669.56
## 9645                0.0000     Jun-2018      15544.83
## 9660                0.0000     Aug-2018       5648.59
## 9663                0.0000     Nov-2018        179.81
## 9675                0.0000     Apr-2018       4274.56
## 9678                0.0000     Mar-2018      13539.61
## 9686                0.0000     Nov-2018       7023.34
## 9707                0.0000     Apr-2018      14541.23
## 9708                0.0000     Apr-2018       8088.94
## 9720                0.0000     Mar-2018      35070.86
## 9724                0.0000     Dec-2018       6486.30
## 9730                0.0000     Jan-2019          8.88
## 9739                0.0000     Apr-2018      25365.87
## 9749                0.0000     May-2018      17399.65
## 9759                0.0000     Jul-2018        597.69
## 9771                0.0000     May-2018        285.74
## 9802                0.0000     Feb-2019       4118.91
## 9807                0.0000     Jul-2018        670.13
## 9818                0.0000     Feb-2019       7701.41
## 9822                0.0000     Oct-2018       5174.56
## 9823                0.0000     Jan-2019      10866.65
## 9869                0.0000     Jan-2019       1849.22
## 9885                0.0000     Dec-2018       1048.62
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## 9935                0.0000     Jul-2018      14099.88
## 9965                0.0000     Jul-2018       8018.79
## 9981                0.0000     Mar-2018      35048.25
## 9985                0.0000     Aug-2018       3786.94
## 9986                0.0000     Mar-2018      13023.62
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## 10012               0.0000     May-2018       5950.09
## 10027               0.0000     Dec-2018          8.92
## 10068               0.0000     Nov-2018       9366.75
## 10074               0.0000     Jun-2018       6754.14
## 10076               0.0000     May-2018      10052.12
## 10092               0.0000     Jan-2019       6468.01
## 10101               0.0000     Nov-2018      12488.68
## 10124               0.0000     Jan-2019       2440.26
## 10128               0.0000     May-2018       1091.36
## 10129               0.0000     Jan-2019        721.69
## 10141               0.0000     May-2018        717.75
## 10142               0.0000     Jul-2018      37215.50
## 10163               0.0000     Jun-2018       9555.94
## 10165               0.0000     Jun-2018       3062.58
## 10179               0.0000     Oct-2018       8642.00
## 10188               0.0000     Jan-2019          4.24
## 10210               0.0000     Oct-2018       6635.11
## 10220               0.0000     Aug-2018        106.26
## 10221               0.0000     May-2018       4989.64
## 10240               0.0000     Oct-2018       5584.78
## 10246               0.0000     Oct-2018      28036.93
## 10249               0.0000     May-2018      15019.18
## 10262               0.0000     May-2018      10959.17
## 10265               0.0000     Nov-2018      12509.37
## 10278               0.0000     Mar-2018      35040.46
## 10288               0.0000     Jan-2019       3348.73
## 10319               0.0000     Jan-2019       2370.27
## 10328               0.0000     Aug-2018       1654.34
## 10329               0.0000     Jul-2018       8066.43
## 10335               0.0000     Mar-2018        827.15
## 10339               0.0000     May-2018      23676.42
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## 10371               0.0000     Jan-2019       3822.04
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## 10417               0.0000     Nov-2018       4396.81
## 10448               0.0000     Jul-2018        679.48
## 10449               0.0000     Dec-2018       6312.20
## 10453               0.0000     Jun-2018      32907.41
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## 10460               0.0000     Apr-2018       3162.89
## 10464               0.0000     Jan-2019       9112.26
## 10471               0.0000     Oct-2018        203.88
## 10482               0.0000     Dec-2018      27026.73
## 10491               0.0000     Jul-2018        929.45
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## 10508             490.2048     Apr-2018        461.13
## 10517               0.0000     May-2018       5863.86
## 10530               0.0000     Sep-2018       1964.53
## 10532               0.0000     Nov-2018       2943.04
## 10535               0.0000     Oct-2018        660.81
## 10545               0.0000     Sep-2018       9062.36
## 10570               0.0000     Apr-2018       9720.05
## 10573               0.0000     Jul-2018      12278.87
## 10576               0.0000     Sep-2018       6047.23
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## 10582               0.0000     Jul-2018      11649.89
## 10592               0.0000     Mar-2018       4809.72
```

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## 10595                 0.0000     Mar-2018         4103.89
## 10601                 0.0000     Jul-2018         1287.11
## 10614                 0.0000     Apr-2018        16057.23
## 10620                 0.0000     Apr-2018        14879.09
## 10632                 0.0000     Jun-2018        19745.37
## 10641                 0.0000     Nov-2018         5716.86
## 10646                 0.0000     Sep-2018         4291.74
## 10655                 0.0000     Jan-2019         6214.03
## 10658                 0.0000     Jul-2018         5070.82
## 10661                 0.0000     Mar-2018        10116.94
## 10680                 0.0000     Jul-2018        11041.65
## 10689                 0.0000     Oct-2018        12473.30
##       last_credit_pull_d collections_12_mths_ex_med policy_code
## 16              Feb-2019                         0           1
## 38              Feb-2019                         0           1
## 47              Feb-2019                         0           1
## 77              Jan-2019                         0           1
## 88              Dec-2018                         0           1
## 112             Jan-2019                         0           1
## 133             Feb-2019                         0           1
## 135             Feb-2019                         1           1
## 145             Jan-2019                         0           1
## 169             Feb-2019                         0           1
## 180             Dec-2018                         0           1
## 191             Dec-2018                         0           1
## 208             Jan-2019                         0           1
## 222             Feb-2019                         0           1
## 226             Nov-2018                         0           1
## 231             Jan-2019                         0           1
## 243             Nov-2018                         0           1
## 244             Jan-2019                         0           1
## 250             Nov-2018                         0           1
## 260             Dec-2018                         0           1
## 271             Feb-2019                         0           1
## 277             Jan-2019                         0           1
## 284             Feb-2019                         0           1
## 292             Feb-2019                         0           1
## 295             Dec-2018                         0           1
## 311             Feb-2019                         0           1
## 355             Feb-2019                         0           1
## 376             Jan-2019                         0           1
## 385             Nov-2018                         0           1
## 392             Dec-2018                         0           1
## 400             Nov-2018                         0           1
## 402             Feb-2019                         0           1
## 413             Feb-2019                         0           1
## 421             Feb-2019                         0           1
## 423             Jan-2019                         0           1
## 424             Nov-2018                         0           1
## 440             Feb-2019                         0           1
## 444             Feb-2019                         0           1
## 509             Jan-2019                         0           1
## 524             Oct-2018                         0           1
## 542             Feb-2019                         0           1
## 581             Jan-2019                         0           1
## 593             Jan-2019                         0           1
## 620             Nov-2018                         0           1
## 669             Dec-2018                         0           1
## 679             Oct-2018                         0           1
## 695             Feb-2019                         0           1
## 698             Feb-2019                         0           1
## 726             Dec-2018                         0           1
## 750             Feb-2019                         0           1
## 755             Feb-2019                         0           1
## 791             Feb-2019                         0           1
## 796             Dec-2018                         0           1
## 805             Dec-2018                         0           1
## 806             Dec-2018                         0           1
## 821             Feb-2019                         0           1
## 837             Feb-2019                         0           1
## 841             Feb-2019                         0           1
## 843             Feb-2019                         0           1
## 860             Oct-2018                         0           1
## 862             Jan-2019                         0           1
## 891             Nov-2018                         0           1
## 911             Jan-2019                         0           1
## 921             Feb-2019                         0           1
## 930             Dec-2018                         0           1
## 952             Feb-2019                         0           1
## 956             Feb-2019                         0           1
## 958             Dec-2018                         0           1
## 967             Feb-2019                         0           1
## 974             Feb-2019                         0           1
## 982             Feb-2019                         0           1
## 1014            Feb-2019                         0           1
## 1022            Jan-2019                         0           1
## 1045            Nov-2018                         0           1
## 1051            Feb-2019                         0           1
## 1075            Feb-2019                         0           1
## 1097            Feb-2019                         0           1
## 1099            Dec-2018                         0           1
## 1104            Feb-2019                         0           1
## 1107            Sep-2018                         0           1
## 1119            Nov-2018                         0           1
## 1125            Feb-2019                         0           1
## 1166            Dec-2018                         0           1
## 1167            Nov-2018                         0           1
## 1172            Feb-2019                         0           1
```

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## 1173          Feb-2019                        0          1
## 1175          Feb-2019                        0          1
## 1177          Dec-2018                        0          1
## 1193          Feb-2019                        0          1
## 1200          Sep-2018                        0          1
## 1206          Feb-2019                        0          1
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## 1238          Dec-2018                        0          1
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## 1250          Feb-2019                        0          1
## 1272          Dec-2018                        0          1
## 1282          Jan-2019                        0          1
## 1283          Feb-2019                        0          1
## 1298          Feb-2019                        0          1
## 1300          Feb-2019                        0          1
## 1308          Oct-2018                        0          1
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## 1322          Dec-2018                        0          1
## 1327          Nov-2018                        0          1
## 1374          Jan-2019                        0          1
## 1378          Feb-2019                        0          1
## 1385          Feb-2019                        0          1
## 1411          Nov-2018                        0          1
## 1415          Feb-2019                        0          1
## 1463          Sep-2018                        0          1
## 1517          Feb-2019                        0          1
## 1531          Feb-2019                        0          1
## 1598          Jan-2019                        0          1
## 1609          Jan-2019                        0          1
## 1638          Feb-2019                        0          1
## 1684          Oct-2018                        0          1
## 1710          Jan-2019                        0          1
## 1713          Jan-2019                        0          1
## 1722          Jan-2019                        0          1
## 1733          Jan-2019                        0          1
## 1742          Feb-2019                        0          1
## 1770          Jan-2019                        0          1
## 1777          Sep-2018                        0          1
## 1779          Feb-2019                        0          1
## 1781          Jan-2019                        0          1
## 1808          Jan-2019                        0          1
## 1814          Feb-2019                        0          1
## 1832          Jan-2019                        0          1
## 1834          Feb-2019                        0          1
## 1841          Sep-2018                        0          1
## 1858          Feb-2019                        0          1
## 1872          Dec-2018                        0          1
## 1888          Sep-2018                        0          1
## 1908          Jan-2019                        0          1
## 1912          Nov-2018                        0          1
## 1918          Jan-2019                        1          1
## 1923          Feb-2019                        0          1
## 1931          Feb-2019                        0          1
## 1940          Feb-2019                        0          1
## 1941          Dec-2018                        0          1
## 1966          Feb-2019                        0          1
## 1967          Feb-2019                        0          1
## 1969          Jan-2019                        0          1
## 1993          Oct-2018                        0          1
## 2000          Feb-2019                        0          1
## 2020          Feb-2019                        0          1
## 2021          Feb-2019                        0          1
## 2022          Dec-2018                        0          1
## 2024          Feb-2019                        0          1
## 2062          Feb-2019                        0          1
## 2064          Feb-2019                        0          1
## 2110          Oct-2018                        0          1
## 2134          Sep-2018                        0          1
## 2141          Feb-2019                        0          1
## 2152          Jan-2019                        0          1
## 2164          Jan-2019                        0          1
## 2188          Sep-2018                        1          1
## 2195          Sep-2018                        0          1
## 2205          Feb-2019                        0          1
## 2223          Feb-2019                        0          1
## 2228          Feb-2019                        0          1
## 2237          Dec-2018                        0          1
## 2266          Oct-2018                        0          1
## 2269          Feb-2019                        0          1
## 2276          Jan-2019                        0          1
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## 10188           Feb-2019                          0           1
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## 7943        Individual                                    0            0
## 7970        Individual                                    0            0
## 7994        Individual                                    0            0
## 8010        Individual                                    0            0
## 8016        Individual                                    0          204
## 8045        Individual                                    0            0
## 8081        Individual                                    0            0
## 8090        Individual                                    0            0
## 8114        Individual                                    0          853
## 8124        Individual                                    0            0
## 8131        Individual                                    0            0
## 8139        Individual                                    0            0
## 8150        Individual                                    0            0
## 8158        Individual                                    0            0
## 8163        Individual                                    0            0
## 8168        Individual                                    0           63
## 8191        Individual                                    0         2498
## 8205        Individual                                    0          105
## 8219        Individual                                    0            0
## 8225        Individual                                    0            0
## 8251        Individual                                    0            0
## 8253        Individual                                    0            0
## 8263        Individual                                    0            0
## 8271        Individual                                    0            0
## 8285        Individual                                    0            0
## 8296        Individual                                    0            0
## 8300        Individual                                    0            0
## 8326        Individual                                    0            0
## 8343        Individual                                    0            0
## 8349        Individual                                    0          463
## 8365        Individual                                    0          278
## 8381        Individual                                    0            0
## 8398        Individual                                    0           52
## 8402        Individual                                    0            0
## 8422        Individual                                    0            0
## 8423        Individual                                    0         1298
## 8442        Individual                                    0            0
## 8458        Individual                                    0            0
## 8468        Individual                                    0            0
## 8469        Individual                                    0          707
## 8486        Individual                                    0          874
## 8508        Individual                                    0            0
## 8521        Individual                                    0            0
## 8527        Individual                                    0            0
## 8551        Individual                                    0          147
## 8561        Individual                                    0            0
## 8591        Individual                                    0            0
## 8604        Individual                                    0            0
## 8613        Individual                                    0        14341
## 8615        Individual                                    0            0
## 8616        Individual                                    0            0
## 8628        Individual                                    0            0
## 8629        Individual                                    0           94
## 8642        Individual                                    0            0
## 8643        Individual                                    0            0
## 8650        Individual                                    0            0
## 8660        Individual                                    0            0
## 8662        Individual                                    0            0
## 8683        Individual                                    0            0
## 8689        Individual                                    0            0
## 8700        Individual                                    0            0
## 8703        Individual                                    0         1150
## 8705        Individual                                    0            0
## 8708        Individual                                    0            0
## 8731        Individual                                    0          189
## 8737        Individual                                    0            0
## 8739        Individual                                    0         1137
## 8744        Individual                                    0            0
## 8769        Individual                                    0            0
## 8797        Individual                                    0            0
## 8818        Individual                                    0            0
## 8820        Individual                                    0         1392
## 8821        Individual                                    0            0
## 8837        Individual                                    0            0
## 8843        Individual                                    0            0
## 8844        Individual                                    0            0
## 8848        Individual                                    0            0
## 8858        Individual                                    0            0
## 8869        Individual                                    0            0
## 8881        Individual                                    0            0
## 8882        Individual                                    0            0
## 8887        Individual                                    0            0
## 8892        Individual                                    0            0
## 8894        Individual                                    0            0
## 8899        Individual                                    0         1399
## 8903        Individual                                    0            0
## 8908        Individual                                    0            0
## 8925        Individual                                    0            0
## 8932        Individual                                    0            0
## 8947        Individual                                    0            0
## 8964        Individual                                    0            0
## 8986        Individual                                    0            0
## 9008        Individual                                    0            0
## 9011        Individual                                    0            0
## 9013        Individual                                    0            0
## 9021        Individual                                    0            0
## 9023        Individual                                    0          817
## 9054        Individual                                    0            0
```

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## 9084        Individual                    0            0
## 9088        Individual                    0            0
## 9129        Individual                    0            0
## 9142        Individual                    0         2440
## 9146        Individual                    0            0
## 9168        Individual                    0            0
## 9175        Individual                    0            0
## 9185        Individual                    0         1419
## 9191        Individual                    0            0
## 9206        Individual                    0            0
## 9208        Individual                    0            0
## 9235        Individual                    0            0
## 9269        Individual                    0           52
## 9287        Individual                    0            0
## 9313        Individual                    0            0
## 9317        Individual                    0         2642
## 9318        Individual                    0            0
## 9322        Individual                    0            0
## 9349        Individual                    0            0
## 9359        Individual                    0            0
## 9360        Individual                    0            0
## 9368        Individual                    0            0
## 9369        Individual                    0            0
## 9389        Individual                    0            0
## 9417        Individual                    0            0
## 9420        Individual                    0            0
## 9423        Individual                    0          758
## 9428        Individual                    0            0
## 9449        Individual                    0            0
## 9490        Individual                    0            0
## 9494        Individual                    0            0
## 9513        Individual                    0            0
## 9518        Individual                    0          149
## 9533        Individual                    0            0
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## 9568        Individual                    0            0
## 9576        Individual                    0            0
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## 9645        Individual                    0          611
## 9660        Individual                    0            0
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## 9675        Individual                    0            0
## 9678        Individual                    0            0
## 9686        Individual                    0          785
## 9707        Individual                    0            0
## 9708        Individual                    0            0
## 9720        Individual                    0            0
## 9724        Individual                    0          174
## 9730        Individual                    0          347
## 9739        Individual                    0            0
## 9749        Individual                    0            0
## 9759        Individual                    0            0
## 9771        Individual                    0            0
## 9802        Individual                    0            0
## 9807        Individual                    0            0
## 9818        Individual                    0        12508
## 9822        Individual                    0           34
## 9823        Individual                    0            0
## 9869        Individual                    0            0
## 9885        Individual                    0         1158
## 9916        Individual                    0            0
## 9935        Individual                    0            0
## 9965        Individual                    0            0
## 9981        Individual                    0            0
## 9985        Individual                    0        12686
## 9986        Individual                    0            0
## 10009       Individual                    0         1434
## 10012       Individual                    0            0
## 10027       Individual                    0            0
## 10068       Individual                    0            0
## 10074       Individual                    0            0
## 10076       Individual                    0            0
## 10092       Individual                    0          390
## 10101       Individual                    0            0
## 10124       Individual                    0            0
## 10128       Individual                    0            0
## 10129       Individual                    0            0
## 10141       Individual                    0            0
## 10142       Individual                    0            0
## 10163       Individual                    0            0
## 10165       Individual                    0            0
## 10179       Individual                    0            0
## 10188       Individual                    0          180
## 10210       Individual                    0            0
## 10220       Individual                    0            0
## 10221       Individual                    0            0
## 10240       Individual                    0            0
## 10246       Individual                    0            0
## 10249       Individual                    0            0
## 10262       Individual                    0         1140
## 10265       Individual                    0            0
## 10278       Individual                    0         1638
## 10288       Individual                    0            0
## 10319       Individual                    0         4733
## 10328       Individual                    0            0
```

```
## 10329       Individual                                      0            0
## 10335       Individual                                      0            0
## 10339       Individual                                      0          965
## 10366       Individual                                      0            0
## 10371       Individual                                      0            0
## 10385       Individual                                      0          116
## 10387       Individual                                      0            0
## 10417       Individual                                      0            0
## 10448       Individual                                      0            0
## 10449       Individual                                      0            0
## 10453       Individual                                      0            0
## 10455       Individual                                      0            0
## 10460       Individual                                      0         1208
## 10464       Individual                                      0            0
## 10471       Individual                                      0            0
## 10482       Individual                                      0            0
## 10491       Individual                                      0            0
## 10494       Individual                                      0            0
## 10508       Individual                                      0            0
## 10517       Individual                                      0            0
## 10530       Individual                                      0            0
## 10532       Individual                                      0            0
## 10535       Individual                                      0            0
## 10545       Individual                                      0         2325
## 10570       Individual                                      0            0
## 10573       Individual                                      0            0
## 10576       Individual                                      0            0
## 10579       Individual                                      0         4127
## 10582       Individual                                      0            0
## 10592       Individual                                      0            0
## 10595       Individual                                      0            0
## 10601       Individual                                      0            0
## 10614       Individual                                      0            0
## 10620       Individual                                      0            0
## 10632       Individual                                      0            0
## 10641       Individual                                      0            0
## 10646       Individual                                      0            0
## 10655       Individual                                      0         3829
## 10658       Individual                                      0          682
## 10661       Individual                                      0            0
## 10680       Individual                                      0            0
## 10689       Individual                                      0            0
##       tot_cur_bal open_acc_6m open_act_il open_il_12m open_il_24m
## 16           7405           0           1           2           3
## 38          62965           1           2           1           3
## 47          38461           2           3           3           3
## 77          37308           0           2           0           1
## 88         311709           2           4           0           1
## 112        398787           2           8           1           1
## 133         52926           0           2           1           1
## 135          5005           0           1           1           1
## 145        261421           0           2           0           0
## 169         33748           1           4           1           4
## 180         31894           2           2           2           5
## 191         52348           1           3           1           2
## 208        205609           0           5           2           6
## 222         20501           1           1           1           1
## 226        328206           2           1           1           2
## 231        280712           1           5           4           4
## 243         17737           1           2           1           2
## 244         60387           2          12           2           2
## 250        600695           0           1           0           0
## 260         18220           1           1           1           2
## 271         58502           2          12           1           3
## 277        252225           0           2           1           2
## 284        134893           0           3           2           3
## 292        102910           5           4           4           8
## 295        192595           1           1           0           2
## 311         41580           0           2           0           2
## 355        136718           0           2           1           2
## 376        516115           2           6           2           5
## 385        397191           0           4           0           1
## 392        224251           2           3           2           3
## 400        231233           2           3           0           2
## 402        176008           1           5           3           5
## 413         11158           1           4           2           2
## 421         33144           3           1           1           1
## 423        235099           0           2           2           3
## 424        265381           1           3           1           4
## 440        374976           1           4           1           2
## 444        486234           0           2           0           0
## 509         23905           0           1           0           1
## 524        222333           2           1           2           3
## 542         88804           8          15           4           6
## 581        476111           0           3           1           1
## 593        244066           1           3           2           2
## 620         51103           1           6           0           4
## 669        250183           2           3           2           3
## 679        417584           1           4           1           1
## 695        255507           3           3           1           2
## 698        121541           2           2           0           1
## 726         88100           0           5           3           5
## 750         25789           1           1           0           2
## 755         19759           1           1           0           1
## 791         17866           3           3           1           2
## 796        206983           3           3           2           3
## 805         78287           0           2           1           1
## 806        286214           0           9           0           5
```

```
## 821        56207          2          3          3          7
## 837       344245          1          4          3          5
## 841        24650          1          1          1          1
## 843       104963          1         17          3          4
## 860       113713          1          3          0          1
## 862       359156          3         14          3          8
## 891        30696          2          1          1          2
## 911       123060          0          1          1          2
## 921       345824          0          2          1          1
## 930       291767          1          3          0          2
## 952       283874          2          2          1          3
## 956       447094          2          6          1          3
## 958       163092          0          3          1          1
## 967       590923          0          1          0          1
## 974       607301          0          3          1          3
## 982       107147          0          7          0          1
## 1014       28301          0          2          1          2
## 1022      753708          4          3          0          2
## 1045       15207          2          2          1          5
## 1051      302711          3          5          3          6
## 1075      261073          1          3          1          2
## 1097       20855          3          2          2          7
## 1099       71018          0          4          2          5
## 1104       27019          1          2          1          2
## 1107      229316          1          7          0          2
## 1119      207582          5          3          2          2
## 1125       20368          0          3          1          1
## 1166       26316          1          2          0          1
## 1167       64833          0          4          0          3
## 1172       76892          3          2          5          8
## 1173       28375          0          1          0          0
## 1175      253946          0          1          0          0
## 1177      326091          0          3          0          1
## 1193       39776          3          1          1          1
## 1200      250860          0          2          0          2
## 1206      265214          1          5          1          2
## 1223      431836          0          1          0          0
## 1230      224169          1          4          2          4
## 1238       41059          1          3          1          2
## 1245       92417          2          4          2          5
## 1250       68347          0          2          0          0
## 1272      596612          0          8          0          1
## 1282      351477          3          4          3          8
## 1283      110159          0          4          0          3
## 1298       22985          1          1          0          0
## 1300        8949          2          1          0          0
## 1308      143296          2          2          3          3
## 1321       46433          0          4          0          2
## 1322      768953          4          5          4          8
## 1327      241192          2          8          1          2
## 1374      171072          2          1          1          2
## 1378      140184          3          3          4          5
## 1385      140556          0          1          0          1
## 1411      217217          1          4          1          3
## 1415      268228          1          3          2          3
## 1463      181782          2          3          1          3
## 1517       59071          3          3          3          3
## 1531      144884          6          6          4          6
## 1598      558106          1          3          2          2
## 1609       25473          1          1          0          1
## 1638      188242          0          2          1          2
## 1684       28423          0          2          0          1
## 1710      243250          1          1          2          3
## 1713      152379          0          4          0          1
## 1722      483231          2          4          1          5
## 1733      262046          2          1          1          1
## 1742      556518          1          2          0          2
## 1770      459498          1          3          1          3
## 1777      437547          1          5          1          5
## 1779       58414          0          3          0          0
## 1781      217544          1          3          2          3
## 1808      390918          0          2          1          2
## 1814      273126          1          2          1          1
## 1832      354469          2          3          3          3
## 1834      620164          3          2          1          2
## 1841      300323          1          3          1          3
## 1858        9784          0          3          2          2
## 1872       38670          1         13          2          2
## 1888       10234          1          1          3          4
## 1908       22843          0          1          0          1
## 1912       30778          2          1          0          0
## 1918      314985          1          2          1          1
## 1923      380260          2          1          1          3
## 1931      111050          2          3          1          1
## 1940       29582          0          2          0          1
## 1941      113873          2          3          3          5
## 1966      102115          0          1          0          1
## 1967       44167          1          3          1          3
## 1969      116423          0          1          0          1
## 1993      210583          0          2          0          2
## 2000       26946          0          1          0          1
## 2020      397293          2         15          1          3
## 2021      114314          0          3          1          2
## 2022      292171          0          4          1          1
## 2024      110968          5          2          0          3
## 2062       34430          1          3          1          1
## 2064      167540          0          2          0          0
## 2110      105003          2          5          1          4
```

```
## 2134      112151          0          3          1          2
## 2141      208398          2          5          2          3
## 2152      355548          0          2          0          1
## 2164      409158          2         10          1          1
## 2188      159368          0          6          1          3
## 2195      170579          0          4          1          2
## 2205      185747          2          4          0          0
## 2223      147199          1          1          1          2
## 2228       89587          2          5          5         11
## 2237       98292          2          2          0          1
## 2266       41813          0          4          0          1
## 2269       63610          1          2          2          2
## 2276      477866          1          3          1          2
## 2282       65191          1          3          0          1
## 2291      111238          3          2          2          5
## 2299       17254          2          1          1          2
## 2309       30545          1          2          1          2
## 2311      131524          0          3          1          3
## 2317      338706          0          2          2          2
## 2324       27942          0          1          0          0
## 2360       54431          1          3          1          3
## 2366       26005          5          3          1          2
## 2372      170959          0          1          0          1
## 2391      156962          0          1          0          1
## 2451      571762          3          1          1          3
## 2466       34370          0          1          3          3
## 2487      288205          1          6          1          1
## 2498      416080          1          1          1          2
## 2507      224595          0          1          0          1
## 2553      480493          1          2          2          3
## 2570       66350          1          4          3          5
## 2573      276911          1          3          1          1
## 2594       63643          0          3          1          3
## 2632      158893          0          3          1          5
## 2644      375019          2          4          2          4
## 2665      170049          1          3          2          3
## 2666       45132          0          2          1          2
## 2680       63118          1          2          2          2
## 2682        8631          3          2          0          0
## 2688      802577          2          3          0          2
## 2697       12085          1          1          0          0
## 2704       68968          0          3          0          1
## 2739       16321          0          3          1          2
## 2741       43408          1          2          0          0
## 2750       12403          3          2          0          3
## 2751      164685          0          2          2          4
## 2754       13146          1          2          0          1
## 2762      194176          0          2          0          1
## 2764      177579          1          2          1          3
## 2778      570804          1          2          1          3
## 2802       15778          1          2          0          3
## 2818      271631          2          3          3          7
## 2822       60402          0          2          1          2
## 2841       21550          2          1          0          1
## 2848      181636          2          3          2          3
## 2888      155900          1          2          0          1
## 2922      451448          1          5          3          3
## 2941      289154          1          4          1          2
## 2956       41024          2          2          2          4
## 2970      228420          1          3          2          2
## 2986       35721          1          3          2          4
## 3006      111645          4          4          2          3
## 3030      270857          0          2          0          0
## 3035      317373          1          3          0          1
## 3044      421946          4          4          1          5
## 3048       86881          0          2          0          0
## 3063      165872          2          3          0          1
## 3064      172454          2          1          1          1
## 3072      265171          0          2          1          1
## 3080       27089          2          1          2          3
## 3082      305290          3          1          1          2
## 3097      228108          1          4          1          2
## 3098      241947          3          2          4          7
## 3135       22612          0          1          0          1
## 3151      282248          0          2          1          1
## 3153       88625          2          1          3          3
## 3171      130898          1          3          0          1
## 3205        6311          1          1          0          1
## 3217       74984          1          7          1          4
## 3225      115128          3          3          3          5
## 3227      187229          1          3          1          4
## 3234      134011          1         10          1          3
## 3239      185592          2          1          1          2
## 3247      126859          2          7          0          0
## 3331      103515          1          2          1          3
## 3334      307489          1          3          1          2
## 3372       36868          2          3          1          1
## 3379       27783          2          2          1          2
## 3393       44009          0          2          0          3
## 3395      441784          0          5          0          0
## 3403       39623          0          4          2          4
## 3410       84581          0          3          0          3
## 3413       45213          0          2          0          0
## 3417      387553          2          2          0          1
## 3487      243485          1          1          0          0
## 3513       52923          1          3          0          1
## 3521      331390          2          3          1          2
## 3532       92986          0          4          0          1
```

```
## 3558      174243          1          1          0          2
## 3562      118055          1          1          0          0
## 3571      316908          3         14          1          2
## 3574       18051          0          2          0          2
## 3581        9945          0          1          0          0
## 3589       97500          2          8          2          4
## 3605      213054          2          6          2          8
## 3630       57655          2          3          1          1
## 3631        3494          1          1          2          3
## 3640       85676          0         13          0          2
## 3642      392877          0          3          2          4
## 3644        4614          0          3          0          1
## 3653       90190          1         16          0          0
## 3662       18041          0          3          0          2
## 3663      550297          1          2          3          3
## 3691       31214          0          1          1          1
## 3713      275319          2          1          1          1
## 3726       45526          2          2          0          1
## 3746      146247          1          2          2          2
## 3751      102849          0          3          1          3
## 3757      317353          3          2          2          4
## 3761      220966          1          5          1          2
## 3763       21193          0          1          0          0
## 3770       24163          0          1          0          1
## 3774       37281          0          2          0          0
## 3775        6086          0          1          1          1
## 3786      276436          3          6          0          2
## 3809       18594          0          1          1          1
## 3824       57864          4          2          1          2
## 3832       18971          1          1          0          1
## 3845        9730          0          1          0          2
## 3864       24914          0          3          2          5
## 3877      151213          0          2          0          1
## 3890      309091          2          2          0          1
## 3907       80564          2          3          2          3
## 3918      161071          2          2          1          2
## 3925      260315          0          1          0          2
## 3927       26098          3          3          4          4
## 3945       47604          2          3          1          2
## 3946      178803          1          2          0          1
## 3972      247278          2          5          1          3
## 3986      291872          1          1          1          4
## 3988      192799          0          4          1          2
## 4008      148349          1          4          3          4
## 4015       13452          1          1          1          2
## 4039       20762          1          1          0          1
## 4047       11037          1          1          0          1
## 4056      204164          0          1          0          1
## 4076        3982          1          1          0          0
## 4090       77149          5          5          4          4
## 4103      190816          2          1          3          4
## 4160      182089          0          2          2          2
## 4164       18741          1          1          1          2
## 4188      247347          0          2          0          1
## 4222       29721          3          2          1          1
## 4231       16735          4          1          2          3
## 4236       67956          1          1          0          1
## 4256      212587          1          3          0          2
## 4282       12209          2          1          0          1
## 4286       69826          1          4          2          3
## 4306      217845          1          8          3          6
## 4308       23884          3          1          1          1
## 4313       27119          1          1          2          2
## 4355       42616          1          2          2          2
## 4358       98394          1          1          0          1
## 4375       23114          0          2          0          1
## 4383      331755          0          3          0          0
## 4387      107182          6          4          1          1
## 4404       31946          0          6          0          1
## 4420      253337          1          3          1          1
## 4449       45928          1          2          1          2
## 4455      253639          1          1          1          1
## 4463      172268          0          2          1          2
## 4490      355091          4          6          1          5
## 4495       12270          0          1          1          2
## 4505        8888          2          1          0          1
## 4507      213857          3          2          1          2
## 4540       55089          0          3          0          1
## 4553       59518          0          4          0          3
## 4579      428297          5          7          4          5
## 4591      264936          0          1          0          1
## 4593       15278          1          2          0          1
## 4599      292590          2          1          1          1
## 4607       20031          0          1          0          2
## 4636      137879          2          9          0          3
## 4659      174117          2          3          2          5
## 4667      234158          0         10          0          1
## 4670      218817          6          4          3          3
## 4676      386360          1          2          1          3
## 4678      734862          0          2          0          0
## 4679      234833          1          4          0          3
## 4687      128162          0          1          0          0
## 4697      412342          1          2          0          0
## 4709       10637          2          1          0          1
## 4725       11035          1          1          0          2
## 4741      199831          3          4          1          2
## 4777      713149          1          2          0          1
## 4781      179366          1          2          2          3
```

```
## 4796      18719          1          2          1          1
## 4807     258360          1          2          1          1
## 4808     543239          4          8          4         10
## 4822     291853          0          3          1          2
## 4830      72743          0          3          0          1
## 4849     312580          4          3          4          6
## 4853     397617          0          5          1          2
## 4854     212950          3          3          1          4
## 4859      20604          2          2          2          3
## 4897      42476          0          3          0          0
## 4966     414410          1          3          1          2
## 4975     300500          0          7          0          3
## 4991      33885          0          2          0          2
## 5016      39531          2          3          2          7
## 5020     111011          2          2          0          2
## 5024      25902          3          4          1          2
## 5026      47189          1          3          0          1
## 5040     279635          0          3          1          1
## 5058     166677          0          3          1          4
## 5078     159025          1          3          0          1
## 5082     528618          0          5          0          1
## 5092     237730          3          3          1          3
## 5140     163862          1          1          1          4
## 5143      51843          0          9          0          1
## 5148      19871          0          1          0          1
## 5188     178254          1          2          0          0
## 5203     217387          1          4          1          3
## 5214      14431          1          1          0          1
## 5224      76746          3          5          3          3
## 5229     202597          3          1          1          2
## 5281     178071          1          1          2          4
## 5290      70146          0          2          1          1
## 5310      71335          0          2          0          3
## 5327      72343          2          2          0          2
## 5331     204999          1          3          0          3
## 5334      71976          0          2          0          1
## 5335     147843          0          0          1          1
## 5336     104320          1          3          3          5
## 5349     111352          1          4          3          6
## 5353     247310          3          3          2          3
## 5370     410182          1          1          1          1
## 5381      23871          3          1          0          1
## 5385       9941          0          1          2          8
## 5396      22809          0          2          0          1
## 5408      72013          0          8          0          3
## 5415     580580          4          3          0          1
## 5424     156860          1          1          0          1
## 5428      17185          1          1          2          3
## 5450      62683          1          3          1          1
## 5474     198963          4          4          6          7
## 5480      28466          0          1          0          0
## 5486      24769          2          2          1          1
## 5509     308187          1          1          1          1
## 5518       4009          0          1          0          1
## 5523     295034          0          5          2          3
## 5534      18391          1          1          0          1
## 5536      49377          2          2          2          3
## 5541      33672          1          1          3          3
## 5551      56198          1          3          3          6
## 5557      31479          2          1          1          1
## 5562      47913          0         14          3          7
## 5584      15107          1          1          0          0
## 5588      82779          1          3          1          1
## 5598     257260          0          1          1          1
## 5599      27319          0          2          1          2
## 5625      87472          0          3          0          2
## 5626     256950          3          2          2          4
## 5633     386779          1          2          1          2
## 5641     239448          1          2          2          2
## 5674      97564          0          1          0          1
## 5693     285372          0          2          1          1
## 5697      98872          0          1          0          0
## 5704      46872          2          3          1          2
## 5712     261782          2          1          1          1
## 5761       9203          1          2          1          1
## 5763      26173          4          2          2          4
## 5796      15350          1          2          1          1
## 5797      41776          1          3          0          1
## 5800     182061          0          7          3          3
## 5808     404985          0          2          2          4
## 5812      59776          3          3          1          1
## 5814     554417          1          5          1          1
## 5819      35458          1          1          1          2
## 5824      22186          0          1          0          1
## 5833      15151          0          1          0          0
## 5851     486685          1          1          1          2
## 5857      63779          1          5          0          1
## 5862     717467          2         13          5          8
## 5866     466607          0          5          0          1
## 5873      41768          0          3          0          3
## 5877      13048          0          2          0          2
## 5891     345025          1          5          4          7
## 5914      52062          1          2          0          3
## 5936      25997          1          1          0          1
## 5961      12042          1          3          1          1
## 5969     502936          2         10          3          5
## 5983      17551          1          2          0          1
## 5984     817268          1          2          1          3
```

```
## 5993       18768          1          1          0          1
## 5995      111447          1          7          2          5
## 6016       38109          0          3          2          5
## 6022      115680          1          1          1          1
## 6026       34741          0          3          2          4
## 6040       33862          2          2          0          2
## 6042      186904          1          2          1          1
## 6058      404817          0          3          0          0
## 6067      117990          2          2          1          2
## 6081      185296          0          1          0          1
## 6095     1015979          2         12          0          1
## 6098       45256          0          2          1          2
## 6103       26933          2          3          0          1
## 6107      112710          1          2          0          1
## 6108      172710          1          2          0          1
## 6110      327918          0          1          1          2
## 6112       38009          2          3          2          3
## 6125       72916          3          5          2          4
## 6137      246428          3          3          2          2
## 6143      200828          3          7          5         15
## 6153       72287          2          1          0          0
## 6166      300996          1          5          1          2
## 6198      158619          2          1          2          2
## 6215       41324          0          1          0          1
## 6216      447808          0         13          1          4
## 6220      320180          0          4          0          2
## 6226      446302          1          3          0          2
## 6235      230182          0          3          1          4
## 6245       16075          3          1          0          1
## 6252      167026          0          1          1          1
## 6261       14194          2          2          2          3
## 6268       12063          0          1          0          0
## 6302      158544          1          6          1          3
## 6304       17469          6          2          1          1
## 6331      426478          1         24          4         10
## 6337       26373          0          1          0          1
## 6373      511014          3          3          2          3
## 6379       31648          1          2          0          2
## 6397       28273          1          2          0          0
## 6401      564664          0          2          1          3
## 6438      147215          2          1          2          2
## 6442       55969          1          2          1          1
## 6447      588275          3          2          1          1
## 6450      845788          0          7          0          2
## 6464       54525          1          3          0          2
## 6506      147357          0          4          2          4
## 6513      231944          0          1          2          2
## 6519      278306          2          1          1          1
## 6520        7057          2          1          0          0
## 6580       72568          1          1          2          4
## 6616       34228          2          2          2          2
## 6652       69550          6          2          6          8
## 6667       22129          0          2          1          1
## 6688      542540          0          7          0          1
## 6693        9421          2          2          1          3
## 6727      503877          1          2          1          4
## 6732       52094          1          2          1          2
## 6735       35496          0          1          0          1
## 6746       51657          0          2          0          2
## 6754      568612          3          3          1          2
## 6770       21844          1          2          1          2
## 6789      121239          4          5          3          3
## 6803      233037          0          1          0          1
## 6819       35216          2          1          1          2
## 6820      202849          2          2          0          0
## 6822       54588          1          2          0          2
## 6824       59613          0          2          1          2
## 6834       70448          2          2          1          2
## 6841       34736          0          1          0          1
## 6843       13262          2          1          0          0
## 6858       14656          0          5          0          0
## 6860        7292          1          2          1          1
## 6889       37417          0          2          0          1
## 6891       23549          0          6          0          2
## 6894      271887          2          2          2          3
## 6896       24058          1          8          0          1
## 6899      421822          4          6          3          4
## 6900      246431          0          2          2          2
## 6917      177288          0          3          0          1
## 6919      186618          2          3          1          1
## 6923       19611          0          1          0          1
## 6934      414344          1          4          1          1
## 6941      405001          1          1          0          0
## 6954        6664          1          1          2          4
## 6957      188778          0          2          2          2
## 6960       52153          0          2          0          0
## 6962      272323          0         11          0          0
## 6965       15507          0          1          0          0
## 6971      689902          0          2          0          0
## 6977       20360          3          2          3          4
## 6989      372613          1         10          3          7
## 7001       55055          1          3          2          2
## 7008      179954          3          4          3          4
## 7009      385141          1          6          0          0
## 7012      229564          0          2          1          1
## 7017      107581          0          1          1          3
## 7033       49671          0          2          0          1
## 7037      321292          2          6          1          3
```

```
## 7057        36097          1           2           0           1
## 7060        28307          2           3           2           2
## 7064       188885          3           4           1           5
## 7085        52288          2           3           2           4
## 7129       107662          1           4           0           1
## 7138       971729          0           2           1           2
## 7145       212877          3           4           2           4
## 7160        67803          1           3           1           1
## 7174       364903          1           6           1           3
## 7187        73178          3           9           1           2
## 7189        44453          1           3           1           2
## 7215        13956          1           1           0           0
## 7216       102372          0           1           0           2
## 7238        35690          0           1           0           0
## 7266         8511          0           1           0           1
## 7271        34298          3           2           1           3
## 7281       232348          5           3           2           2
## 7284       603077          1           5           2           3
## 7318       132437          1           1           0           1
## 7343       280699          1           7           0           2
## 7354       131512          2           2           2           2
## 7373        26831          0           2           0           2
## 7380        47890          3           7           1           3
## 7382       209991          0           3           0           2
## 7383       253738          0           2           1           2
## 7411       109596          0           4           0           1
## 7439        26545          1           3           2           3
## 7466       445178          2           3           1           2
## 7476       236011          1           4           1           6
## 7521        24649          0           2           0           1
## 7522       136089          1           5           1           3
## 7544       392299          0           3           0           1
## 7548       229136          2          10           5           7
## 7560       175100          2           2           2           2
## 7578       187532          0           3           2           2
## 7581       298997          1           2           1           1
## 7583        38122          0           2           0           2
## 7616       177031          0           3           0           1
## 7628       118132          1           4           2           4
## 7641        23822          0           7           0           0
## 7648        10185          0           1           0           0
## 7664       686663          3          25           0           1
## 7682        65081          0           1           0           0
## 7736       279998          1          10           1           3
## 7750       312166          0           7           1           2
## 7753       376179          3           1           3           3
## 7775        35204          1           2           1           1
## 7785        23068          1           3           1           2
## 7799       169932          1           9           1           1
## 7809        18509          0           1           1           2
## 7810        26463          1           2           3           3
## 7812       192484          0           2           0           0
## 7815       328982          1          10           0           0
## 7825       720012          2           3           1           3
## 7830        91434          7           3           1           1
## 7845        29768          1           2           0           0
## 7863       222334          1           3           1           3
## 7867        72645          1           4           1           2
## 7877        18430          1           3           1           3
## 7886       246746          0           4           1           1
## 7892       302010          3           2           2           3
## 7897        13611          1           3           1           2
## 7906       256254          2           5           1           1
## 7927       100561          3           3           2           5
## 7943       308430          2          18           4           7
## 7970        28223          3           4           3           4
## 7994       236640          2           2           1           1
## 8010       236573          1           3           0           2
## 8016        16557          0           1           0           1
## 8045       173786          2           3           3           3
## 8081       159342          0           2           0           1
## 8090        16581          3           5           3           4
## 8114         6512          1           1           0           0
## 8124        21322          0           2           0           1
## 8131       184078          1           3           0           1
## 8139       286955          0           3           1           2
## 8150        32347          1           1           0           1
## 8158        36865          1           8           0           0
## 8163       206413          0           2           2           3
## 8168        25689          1           5           0           0
## 8191       254384          0           3           0           0
## 8205       315984          1           3           2           3
## 8219        75071          0           4           0           0
## 8225        70677          3          15           4           8
## 8251       399691          0           3           0           4
## 8253       752701          3          12           2           4
## 8263       354792          2           1           0           0
## 8271        34541          2           1           1           1
## 8285        42268          2           4           1           1
## 8296       432989          2           2           1           1
## 8300       307535          0           3           0           1
## 8326       154826          2           2           1           2
## 8343       355050          2           2           3           4
## 8349        93347          1           2           2           2
## 8365        39971          0           2           1           2
## 8381       329652          1           5           2           4
## 8398       174776          2           2           0           2
## 8402       315292          0          12           1           1
```

```
## 8422       19135          1          1          1          2
## 8423      262366          0          3          1          2
## 8442       27806          1          4          2          2
## 8458      501922          0          1          1          1
## 8468      307083          4          2          1          1
## 8469       14948          4          2          0          2
## 8486      248348          1          3          2          4
## 8508      187259          1          1          0          0
## 8521      107141          2          5          1          3
## 8527      335246          2          9          0          2
## 8551      163228          4          2          1          1
## 8561       50772          1          2          1          2
## 8591       87419          0          1          1          2
## 8604       90376          1          1          2          3
## 8613      127785          4         15          4          8
## 8615       25441          2          4          1          2
## 8616       46530          1         10          2          7
## 8628      229340          2          2          2          6
## 8629      199418          0          1          0          1
## 8642      314133          0          3          1          3
## 8643        3659          1          1          0          0
## 8650      173198          2          7          1          3
## 8660      167853          4          3          1          5
## 8662       18962          0          1          1          2
## 8683      282692          1          3          3          4
## 8689      226862          2          6          1          3
## 8700       45784          3          6          1          6
## 8703      553833          1          5          2          3
## 8705      282288          2          2          3          5
## 8708       12149          5          2          2          2
## 8731      436951          1          3          2          2
## 8737       37465          1          3          2          3
## 8739      294250          0          1          0          2
## 8744       14784          0          3          0          3
## 8769       66809          0          1          0          0
## 8797       29265          1         15          0          1
## 8818       23563          0          1          0          2
## 8820      105066          1          6          1          1
## 8821       61610          0          3          2          2
## 8837      404792          1          3          0          1
## 8843      291798          0          5          0          1
## 8844      308260          4          3          3          4
## 8848       34356          1          1          0          0
## 8858       78735          0          2          0          2
## 8869      124240          1          1          0          1
## 8881       20427          1          2          1          2
## 8882       31899          0          2          2          3
## 8887        9751          1          1          0          1
## 8892       44477          0          4          3          7
## 8894      115965          2          2          1          2
## 8899      164427          1          1          1          1
## 8903       20846          0          1          1          2
## 8908       14718          1          2          0          1
## 8925       12741          1          1          0          1
## 8932      119445          0         10          0          0
## 8947      230360          1          4          1          2
## 8964       40949          0          2          0          1
## 8986       37972          0          3          2          3
## 9008       22657          0          7          2          4
## 9011        8094          0          1          1          1
## 9013       18991          1          1          0          1
## 9021      182859          4          1          0          0
## 9023        9252          0          2          0          1
## 9054      742932          1          3          0          1
## 9084       24793          0          3          0          1
## 9088      227906          1          1          1          1
## 9129        1785          1          1          1          1
## 9142      259362          0          2          1          3
## 9146      177359          1          2          2          2
## 9168      403635          3          3          2          3
## 9175      258264          1          2          1          1
## 9185      406725          2          2          0          4
## 9191      311415          1          1          1          1
## 9206      339206          3          4          2          3
## 9208      330110          3         11          1          3
## 9235       10504          3          1          0          0
## 9269      175556          1          3          0          1
## 9287      154915          4          1          0          0
## 9313      141093          2          6          1          1
## 9317      177755          0          2          1          1
## 9318      186353          1          1          1          1
## 9322       36913          1          2          2          3
## 9349      110048          0          2          0          2
## 9359       70993          1          3          1          1
## 9360       64464          1          3          0          1
## 9368      345505          1          1          1          1
## 9369      180415          1          2          2          3
## 9389      157296          2          2          1          5
## 9417       24099          2          4          3          3
## 9420      234623          1          2          2          2
## 9423      373561          1          3          3          4
## 9428      177211          2          5          3          3
## 9449       15221          1          2          0          0
## 9490      136001          0          8          0          1
## 9494       18041          2          1          1          1
## 9513       22777          2          1          2          2
## 9518      197438          1          2          1          2
## 9533      322890          0          2          0          1
```

```
## 9548      256777          0          4          1          2
## 9561      195073          2          1          0          0
## 9563       20388          1          1          2          3
## 9568      255879          1          2          2          3
## 9576       66330          1          3          3          5
## 9588      176394          0          2          0          1
## 9634      297971          1          1          1          1
## 9645       13625          2          2          2          3
## 9660      126799          1          3          1          4
## 9663        7660          0          1          0          1
## 9675       65290          2         12          1          1
## 9678       75225          0          6          1          2
## 9686       30114          1          3          3          6
## 9707      237207          2          4          3          5
## 9708       34852          2          4          5          6
## 9720      544236          0          5          1          2
## 9724       22372          0          2          0          1
## 9730       77472          1          2          1          3
## 9739      112542          0          4          0          1
## 9749       51844          0          4          0          2
## 9759       26995          3          1          2          2
## 9771        8325          0          1          0          0
## 9802       27217          0          2          2          3
## 9807       27824          0          1          0          1
## 9818       12051          0          1          0          1
## 9822       62512          0          1          1          1
## 9823       87688          0         18          0          1
## 9869       33588          3          6          1          1
## 9885      104111          1          5          1          1
## 9916       68328          6          4          2          8
## 9935      211435          0          1          0          0
## 9965       42345          0          2          1          2
## 9981      349342          5          7          0          1
## 9985      234240          1          1          0          1
## 9986      155115          2          3          3          4
## 10009       4364          4          1          2          2
## 10012      80737          1          1          0          1
## 10027      49091          0          3          0          1
## 10068      88650          3          6          4          4
## 10074     128060          2          7          2          6
## 10076      52095          2          2          1          1
## 10092     291060          2          3          2          4
## 10101      25523          0          1          1          2
## 10124     711328          1          6          3          4
## 10128     132289          2          2          3          5
## 10129     192269          1          1          1          1
## 10141      88067          0          4          1          3
## 10142     297580          0          3          0          1
## 10163      18192          2          1          0          1
## 10165      89059          0          2          0          3
## 10179      11697          2          1          0          0
## 10188      18290          2          0          1          1
## 10210     278018          1          7          0          1
## 10220      34302          2          4          1          1
## 10221      31187          0          2          0          2
## 10240      48870          4          2          2          3
## 10246     428542          1          4          0          0
## 10249     282294          0          8          0          1
## 10262       8668          1          1          1          1
## 10265      26931          2          2          1          3
## 10278      24708          1          1          2          3
## 10288     156298          0          1          0          1
## 10319     164250          0          2          1          2
## 10328      22034          0          1          1          1
## 10329     185419          3          5          2          3
## 10335     191208          3          2          2          2
## 10339     230085          0          3          0          0
## 10366      13535          1          1          1          1
## 10371     157576          2          2          1          2
## 10385     173925          2          7          2          5
## 10387     107645          1          1          1          2
## 10417     274687          1          1          0          0
## 10448     432083          0          2          0          2
## 10449     457281          0          3          2          3
## 10453      83445          3          4          1          2
## 10455      68141          0          4          0          1
## 10460      79222          2          2          1          1
## 10464      52626          1          2          2          2
## 10471      53057          0          2          1          3
## 10482     365930          2          3          0          2
## 10491     113780          0          3          1          3
## 10494     241815          1         11          0          2
## 10508     138601          0          2          1          1
## 10517      12382          3          1          1          1
## 10530      93750          0          3          0          1
## 10532      46222          2          4          3          5
## 10535     260668          2          5          2          3
## 10545      14087          1          1          0          1
## 10570      39285          2          2          2          2
## 10573      30487          0          2          0          1
## 10576      21411          0          2          0          3
## 10579     100757          0          1          0          1
## 10582    1242308          0          4          1          3
## 10592      20558          1          2          2          4
## 10595      13894          2          2          0          2
## 10601       8300          0          1          0          0
## 10614     184821          0          2          0          4
## 10620     464727          1          6          1          2
```

```
## 10632       51377           3           2           1           3
## 10641       42818           7           5           2           4
## 10646      262346           5           3           3           5
## 10655      130596           1           3           3           4
## 10658        9716           0           1           2           2
## 10661       40633           0           2           0           0
## 10680       24432           1           2           1           2
## 10689       56500           0           1           1           1
##       mths_since_rcnt_il total_bal_il il_util open_rv_12m open_rv_24m
## 16                     7         7405      82           1           3
## 38                     3         3569      81           0           0
## 47                     4        29278      77           1           1
## 77                    24        36285     173           0           1
## 88                    21       292376      39           3           7
## 112                    3        65615      95           1           2
## 133                   12        30291      73           0           0
## 135                   11         4355      81           1           2
## 145                   29        17337      55           0           0
## 169                    5        24720      67           1           1
## 180                    2        28436      76           1           5
## 191                    5        43338      70           0           1
## 208                    8        57260      90           2           4
## 222                   10        13552      90           1           2
## 226                   11        24760      75           2           2
## 231                    2        79075      93           1           3
## 243                    5        13864      79           0           0
## 244                    3        58845      96           2           4
## 250                   98         6102      43           0           0
## 260                    2        15973     101           5           6
## 271                    2        50906     102           1           2
## 277                   12        31729      82           4           6
## 284                    8        20025      66           1           5
## 292                    1        99530      95           5           8
## 295                   14        18339      80           1           1
## 311                   16        27473      82           0           0
## 355                   11       118063      67           1           1
## 376                    5       136470      63           1           2
## 385                   20        75025      75           1           3
## 392                    4        55190      95           0           0
## 400                   13       122365      66           5           9
## 402                    4        58416      70           1           1
## 413                    3         3973      23           2           9
## 421                    4        26225     100           5           7
## 423                    8        23619      82           3          11
## 424                    7        28734      82           1           4
## 440                    3        63993      96           0           0
## 444                   26       202244      41           0           1
## 509                   16        14115      78           1           3
## 524                    4         6875      98           0           4
## 542                    2        80455     100           7           8
## 581                    9        40975      11           0           0
## 593                    5        53971      58           0           1
## 620                   15        33109      54           4           5
## 669                    4        61599      90           1           2
## 679                   10        51059      46           1           3
## 695                    7        45162      76           3           4
## 698                   23        48010      38           3           3
## 726                    9        85941      84           1           3
## 750                   18        19367      75           2           4
## 755                   23         2105      42           2           3
## 791                    2        15568      66           2           4
## 796                    5        54063      80           4           6
## 805                    7        18748      84           3           4
## 806                   17       198783     113           0           3
## 821                    3        52643      88           2           3
## 837                    7       220243      75           1           3
## 841                    9        13248      83           1           3
## 843                    2        97854     105           1           4
## 860                   14        24090      70           0           0
## 862                    1       109219      95           2           3
## 891                    9        27975      91           4           7
## 911                    9         4179      84           0           3
## 921                   10        30025      69           1           2
## 930                   17        42486      64           1           2
## 952                    3        17743      65           0           0
## 956                   11       109922      83           3           4
## 958                   11        41470      70           1           1
## 967                   16        15287      64           0           0
## 974                   10        53394      86           1           1
## 982                   20       107147     108           0           2
## 1014                   8        25234      84           0           1
## 1022                  14        27066      40           8          10
## 1045                  12        10530      42           3           4
## 1051                   2       120545      82           2           4
## 1075                   5        42175      75           1           4
## 1097                   7         8319      56           4           4
## 1099                   9        45989      61           0           0
## 1104                   4        19160      77           1           2
## 1107                  15        25398      60           1           2
## 1119                   2        26722      86           3          10
## 1125                   8        19824      79           1           1
## 1166                  13        17256      72           2           2
## 1167                  24        49195      62           0           0
## 1172                   3        71391      43           2           3
## 1173                  30        14984      63           0           3
## 1175                  38         7627      42           0           0
## 1177                  23        36357      63           0           2
## 1193                   5        33442      97           3           3
```

```
## 1200          14      59063     89        1        2
## 1206           2      73421     70        1        1
## 1223          31       9785     50        0        0
## 1230           2      36587     74        0        0
## 1238           3      35427    121        0        2
## 1245           2      88046     87        2        4
## 1250          27      38413     41        1        8
## 1272          14      25260     35        0        0
## 1282           3     165274    124        2        2
## 1283          18      73077     55        0        2
## 1298          34        266      3        1        2
## 1300          61       4081     14        4        6
## 1308           3      69078     99        0        0
## 1321          17      29378     69        2        4
## 1322           3     397721     95        2        4
## 1327           1      59034     73        3        7
## 1374          11      26693     89        2        2
## 1378           2      18370     83        1        4
## 1385          22       3610     51        0        3
## 1411           1      78848     58        0        0
## 1415           4      49925     75        3        9
## 1463           3      17139     64        0        1
## 1517           2      58726     98        1        4
## 1531           1      63515     93        3        3
## 1598           3      89011     97        0        2
## 1609          13      19743     83        7       10
## 1638           8      48234     84        0        0
## 1684          14      18514     79        1        3
## 1710           5       9452     63        1        2
## 1713          16     144537     75        1        3
## 1722          11      43596     60        2        4
## 1733           3      28081     96        0        1
## 1742          15       9041     45        0        1
## 1770           1     204502    100        2        3
## 1777          12      92282     90        6       13
## 1779          28      41570     70        0        0
## 1781           1      39704     83        0        0
## 1808          10      34381     58        0        0
## 1814           1      19658     74        1        1
## 1832           2      56977     89        1        1
## 1834          11      28961     74        3        9
## 1841           9      64152     82        2        2
## 1858          10       6683     38        0        1
## 1872           5      28184     75        0        1
## 1888           3       9746     98        1        3
## 1908          22      15396     59        3        4
## 1912          26      14140     55        2        5
## 1918           8      13064     58        2        5
## 1923           9      12874     61        3        5
## 1931           4     105375     46        2        3
## 1940          22      10791     51        2        7
## 1941           4      65627     93        0        4
## 1966          20       2399     57        5        9
## 1967           9      36437     77        4        8
## 1969          19       5408     60        0        0
## 1993          13      48876     69        0        0
## 2000          19      14165     57        0        0
## 2020           1     197408     90        0        0
## 2021           9     111764     65        0        0
## 2022          12     109481     76        2        2
## 2024          19      12545     67        8       11
## 2062           5      23260     63        0        0
## 2064          26      16338     50        0        0
## 2110           7      93665     87        3        7
## 2134           8      27665     65        0        1
## 2141           3     192775     74        1        2
## 2152          16     207161     84        0        1
## 2164          11      64987     71        2        2
## 2188          12     106044     88        1        2
## 2195          12      27597     69        0        1
## 2205          27     156363     67        2        3
## 2223           9      27770     90        1        1
## 2228           1      21999     81        0        1
## 2237          14       5975     34        4        6
## 2266          13      26202     39        0        2
## 2269           4      50443     86        0        0
## 2276           8      63778     75        2        3
## 2282          14      32201     65        4        4
## 2291           3      30275     91        3        5
## 2299           8       7259     41        3        6
## 2309           4      23073     88        2        4
## 2311          12      75406     84        0        0
## 2317           8      11638     64        0        0
## 2324          43      15472     52        0        9
## 2360           2      43766     63        0        0
## 2366           4      15327     62        9       12
## 2372          18       3521     63        0        0
## 2391          20      21942     74        2        3
## 2451           5      19517     98        1        2
## 2466          10      18442     92        5        6
## 2487           4      52152     67        1        3
## 2498           2      30009    101        0        5
## 2507          22       6549     36        1        1
## 2553           9      46616     50        0        0
## 2570           3      64069     99        1        4
## 2573           3      62617     99        1        2
## 2594           7      56121     68        1        1
## 2632           7      26005     66        0        2
```

```
## 2644          3     52098    85     0     2
## 2665          1     45589    88     0     1
## 2666         11     34587    81     0     1
## 2680          9     55339    31     1     4
## 2682         98      2476    26     4     5
## 2688         14     28274    57     2     2
## 2697         36      6206    23     1     4
## 2704         22     17594    38     1     1
## 2739         12      8509    31     0     2
## 2741         27     22155   125     2     3
## 2750         13     11083    51     3     3
## 2751          8     15066    67     2     5
## 2754         15      6657    47     2     2
## 2762         24     36175    71     0     2
## 2764          1     50987    94     0     1
## 2778          9     31330    87     0     0
## 2802         17     15379    72     1     2
## 2818          4     59516    97     1     2
## 2822         11     53356    59     0     2
## 2841         17     16952    67     2     5
## 2848          2     49592    91     1     2
## 2888         13     21656    44     1     7
## 2922          6     96429    74     0     2
## 2941          3     67313    89     0     0
## 2956          3     27566    86     1     3
## 2970          7     50916    43     1     1
## 2986          3     24037    84     1     4
## 3006          3    109458    94     2     2
## 3030         43     45322    57     1     2
## 3035         13     61517    67     1     1
## 3044          5    156480    92     2     3
## 3048         37     77426    57     2     2
## 3063         15     42796   119     4    10
## 3064         10     25188    94     3     8
## 3072         10     40985   101     0     1
## 3080          5     26670    90     0     7
## 3082          4     14690    98     3     3
## 3097         12     38127    71     1     1
## 3098          2     38761    91     1     2
## 3135         18     19844    79     1     1
## 3151         11     96876    15     0     0
## 3153          6     24508    94     1     7
## 3171         20    120639    35     1     2
## 3205         19      1188    34     2     4
## 3217          7     52127    56     1     3
## 3225          1     76691    97     2     5
## 3227          6     52613    68     0     0
## 3234          6     44997    63     0     0
## 3239          4     15559    58     3     6
## 3247         38     43900    54     2     2
## 3331         10     11335    77     4     7
## 3334          3     55346    92     2     3
## 3372          6     26681    72     1     4
## 3379          9     11091    51     2     6
## 3393         14     34785    85     0     3
## 3395         31     40771    78     2     5
## 3403         12     28967    85     0     0
## 3410         22     16299    54     0     1
## 3413         30     24998    57     0     6
## 3417         15     42869    82     3     4
## 3487         30     12525    48     4     4
## 3513         20     21135    53     3     3
## 3521          5    330215    99     1     3
## 3532         15     64099    59     0     4
## 3558         19     14861    50     2     4
## 3562         29     10742    57     1     1
## 3571          4    104093    96     2     5
## 3574         14     15980    70     0     1
## 3581         31      1645    22     0     0
## 3589          2     95361    77     2     4
## 3605          4    117172    86     5     6
## 3630          0     50141    73     7    10
## 3631          2      1930    97     3     7
## 3640         13     57764    63     0     0
## 3642          9     51385    69     1     1
## 3644         21      1678    34     2     6
## 3653         32     73396    68     1     1
## 3662         21     16012    68     1     4
## 3663         10     56872    64     2     5
## 3691         10     14085    89     0     2
## 3713          5     13975    95     0     2
## 3726         15     31334    73     3     5
## 3746         12      8992    38     4     6
## 3751         12     96746    71     1     1
## 3757          3     44266    83     1     4
## 3761          7     68440    90     1     4
## 3763         37      4864    36     2     3
## 3770         17     18042    84     0     7
## 3774         49     35452    70     0     0
## 3775         11      5197    81     1     2
## 3786         16     47332    94     5     9
## 3809         11     13033    92     1     4
## 3824         12     44909    87     6     6
## 3832         19     10999    63     1     4
## 3845         14      8891    64     0     2
## 3864          9     20001    57     0     0
## 3877         21     24036    65     0     0
## 3890         13     21163    62     3    14
```

```
## 3907          5     72650    82     1     2
## 3918          7     21052    75     3    11
## 3925         24     20114    73     0     1
## 3927          2     22020    71     4    12
## 3945         12     43494    80     4     6
## 3946         17      9880    36     3     5
## 3972         10     50934    74     2     2
## 3986         11     17008    85     3     5
## 3988          7     58902    69     1     2
## 4008          6    146478    91     0     1
## 4015         12      5579    45     2     5
## 4039         21     17188    72     4     9
## 4047         21      3185    45     1     1
## 4056         21     11154    56     0     0
## 4076         33      3638   104     1     2
## 4090          5     72800    84     3     5
## 4103          8     19647    71     3     6
## 4160         10     15525    67     1     7
## 4164          9      4880    61     1     3
## 4188         17     82970    57     0     3
## 4222         11     25061    75     3     3
## 4231          4      8879    69     5     6
## 4236         19      8315    47     2     4
## 4256         13     33200    74     3     5
## 4282         21      9004    58     2     7
## 4286          6     58168    76     0     3
## 4306          4     78420    77     1     3
## 4308          2     15244    99     3     5
## 4313          6     13697    91     0     1
## 4355          5     40526    81     0     1
## 4358         13     26839    87     3     5
## 4375         16     17732    62     0     0
## 4383         29     20737    45     1     1
## 4387          6     97162    94     7    13
## 4404         15     27470    54     0     0
## 4420         11     58668    48     1     3
## 4449          5     38463    86     0     1
## 4455          7      7265    25     3     6
## 4463         12     15601    73     3     5
## 4490          7     88945    77     5     8
## 4495         12      6728    71     1     1
## 4505         20       538    54     3    10
## 4507          7     64866    77     3     3
## 4540         23     40161    87     0     1
## 4553         14     50926    80     0     2
## 4579          3    421358    69     3     6
## 4591         21      5578    61     0     0
## 4593         22     11159    49     2     4
## 4599          7     14807    92     2     2
## 4607         13     14794    74     0     0
## 4636         21    100162    96     5     7
## 4659          2     45240    94     3     5
## 4667         16     71116    88     0     1
## 4670          5     68852    91     6    11
## 4676          2     32379    95     3     8
## 4678         29     47119    26     3     6
## 4679         19      6337    74     2     2
## 4687         33     13634    46     0     1
## 4697         29      5968    36     1     1
## 4709         13      7818    84     4     6
## 4725         20      7989    82     2     4
## 4741          9     95932    84     5     7
## 4777         20     28037    57     2     5
## 4781          4     41467    97     1     1
## 4796          6     18602    65     1     4
## 4807         11     47330    68     2     4
## 4808          3    253874    79     5     9
## 4822          9     41895    93     1     2
## 4830         22     60303    73     1     4
## 4849          3     60100    88     1     1
## 4853         11    217678    65     0     3
## 4854          6     52828    86     2     4
## 4859         10     16784    89     2     6
## 4897         33     33367    50     0     0
## 4966          1    100270    82     3     3
## 4975         17     31859    95     0     2
## 4991         20     33885    54     0     2
## 5016          4     33074    81     1     3
## 5020         20     88682    88     2     4
## 5024          6     22459    71     2     4
## 5026         23     35299    61     1     2
## 5040         12     32313    47     0     0
## 5058         12     65037    82     1     2
## 5078         13    137189    69     1     3
## 5082         23     66841    58     2     7
## 5092          9     28653    73     5     8
## 5140          8     23919    73     3     7
## 5143         22     47316   104     1     3
## 5148         20     19871    63     0     1
## 5188         33     52192    85     1     3
## 5203          8     59111    93     2     2
## 5214         15      7599    82     2     2
## 5224          3     64203    49     1     1
## 5229          3     24657    96     1     4
## 5281          7     28322    90     2     2
## 5290         10     34854    19     1     1
## 5310         15     13520    77     1     1
## 5327         14     17038    86     1     5
```

```
## 5331          16      25250     47        0        1
## 5334          15      61792     84        1        3
## 5335          10      22901     88        1        7
## 5336           6      32635     75        0        0
## 5349           3      24779     64        2        3
## 5353           6      29967     78        3        4
## 5370           3      17320     92        0        0
## 5381          16      13033     83        4        7
## 5385          10       9272     90        2        8
## 5396          18      17630     68        1        4
## 5408          14      55607     87        4        4
## 5415          15      65898     69        5        5
## 5424          22      31584     73        2        2
## 5428           1      14028     83        0        5
## 5450           5      61467     98        2        3
## 5474           1     115970     91        1        2
## 5480          40       8065     42        0        0
## 5486          11      14486     66        3        5
## 5509           6       4039     95        0        3
## 5518          17       3919     59        0        1
## 5523           8      24716     58        1        1
## 5534          15      14633     87        2        2
## 5536           1      43051     92        0        3
## 5541           3      24569     99        3        5
## 5551           7      55534     86        1        6
## 5557           3      31384     98        1        3
## 5562           9      43526    103        0        0
## 5584          26      13048     71        2        2
## 5588          10      59246     70        4        4
## 5598           7      19399     82        2        3
## 5599           9      10167     62        1        1
## 5625          17      67398     70        1        1
## 5626           4      38765     83        6        9
## 5633          11      33518     74        3       10
## 5641           5     237383     98        2        3
## 5674          22      22110     74        1        4
## 5693           8      26598    101        0        3
## 5697          49       6838     40        1        2
## 5704           9      14912     56        3        3
## 5712          11      17475     87        3       13
## 5761           6       2926     20        0        1
## 5763           7      24996     74        6       13
## 5796          10       7850     62        4        4
## 5797          13      12198     24        3        4
## 5800           9     178992     99        2        5
## 5808           9      53365     92        1        3
## 5812          11      47938     83        3        6
## 5814           8      65397     56        1        3
## 5819          12      24931     90        1        3
## 5824          15       5305     71        0        1
## 5833          38       4199     31        1        1
## 5851          12      32713     84        1        4
## 5857          16      40547     45        2        3
## 5862           4     163637     76        3        7
## 5866          13      99396     49        0        2
## 5873          15      31058     62        0        1
## 5877          14       9408     58        0        2
## 5891           2      61835     71        2        4
## 5914          16      28442     76        2        4
## 5936          24      14512     68        3        5
## 5961           3      10498     32        1        1
## 5969           4     146075     87        0        1
## 5983          18      10492     50        2        2
## 5984           8      14342     82        0        4
## 5993          21      10286     71        2        5
## 5995           4      53100     94        1        1
## 6016          12      37945     95        0        1
## 6022           7       6048     92        3        4
## 6026          10      27122     52        1        1
## 6040          15      23979     52        2        6
## 6042          11      56504     90        1        4
## 6058          56      78708     21        0        0
## 6067           2      23414     83        1        1
## 6081          24       4555     38        0        0
## 6095          24     202165     75        1        2
## 6098          11      36745     73        0        0
## 6103          17      25086     36        4        7
## 6107          15      33243     79        3        5
## 6108          24      10924     50        3        5
## 6110           9      87762     79        1        2
## 6112           9      21448     95        4        7
## 6125           3      69250     57        3        4
## 6137           1      20165     77        4        5
## 6143           5     194816     79        1        2
## 6153          55       2635     26        5        8
## 6166           6      48022     73        0        1
## 6198           3       3637     98        2        7
## 6215          22      22585     70        2        2
## 6216          12     104608    100        2        5
## 6220          16      25369     60        1        2
## 6226          19      74539     45        1        2
## 6235          11      75047     89        0        1
## 6245          15       7155     72        6        8
## 6252           9       6894     88        0        2
## 6261           3       9339     62        4        6
## 6268          32       3488     50        0        0
## 6302           4     157393    115        0        0
## 6304          10      15936     56        7        7
```

```
## 6331          3    289917    92     1     1
## 6337         16     24363    81     1     3
## 6373          5     73007    76     2     2
## 6379         13     30805    53     2     2
## 6397         40     25661    50     2     7
## 6401         10     46008    89     1     3
## 6438          4     17777    98     1     2
## 6442          5     42291    85     0     0
## 6447          9     45951    36     2    17
## 6450         14    114799   100     0     2
## 6464         21     32291    73     1     2
## 6506          7     37353    83     1     5
## 6513          8     15975    69     1     1
## 6519          3     22927    98     4     5
## 6520         35      5819    43     3     4
## 6580          8     19142    93     2     5
## 6616          2     33182    29     1     2
## 6652          1     69534   100     3     6
## 6667          8     21099    79     0     2
## 6688         16     26377    53     1     1
## 6693          5      1010    40     1     1
## 6727          8     70243    66     5     8
## 6732          4     48027    99     1     3
## 6735         18     14800    74     0     0
## 6746         17     36427    57     0     4
## 6754          5     36107    72     2     4
## 6770          9     16735    72     4    11
## 6789          5     95555    87     3     4
## 6803         13      5663    71     0     2
## 6819          6     33750    87     1     2
## 6820         26     22654    80     1     1
## 6822         19     44285    71     2     5
## 6824          9     18448    54     1     4
## 6834         12     30931    81     3     4
## 6841         23     25187    45     1     2
## 6843         46     10234    51     3     3
## 6858        107      1083    10     0     4
## 6860          5      6865    49     0     0
## 6889         19     31795    74     1     2
## 6891         18     15061    53     0     3
## 6894          2     18236    89     1     5
## 6896         17     20804    79     1     3
## 6899          3    151414    85     5     5
## 6900          9     60425     2     1     2
## 6917         13     24404    26     2     3
## 6919          5     46580    60     2     2
## 6923         23      2119    42     0     0
## 6934          5     45496    70     0     2
## 6941         59      5604    19     2     4
## 6954          8      4150    83     2     6
## 6957          9     35817    80     1     1
## 6960         27     27541    52     0     3
## 6962         40     46167   102     1     5
## 6965         31      8472    53     1     1
## 6971         54     15173    49     0     1
## 6977          5     14371    86     4     8
## 6989          8    175106    94     1     1
## 7001          9     31847    63     2     4
## 7008          2     61261    68     2     2
## 7009         85     29015   104     1     1
## 7012          9     35141    89     2     3
## 7017         12     16123    71     0     1
## 7033         23     42290    92     0     2
## 7037          6     95911   166     1     1
## 7057         13     14480    48     3     6
## 7060          5     23874    92     1     1
## 7064          8     47871    67     5     8
## 7085          5     46938    90     2     4
## 7129         17     93997    61     2     4
## 7138          8     38714    79     0     2
## 7145          2     71752    96     1     4
## 7160          2     67795   105     1     1
## 7174          5     52989    65     1     1
## 7187          6     64424    93     3     4
## 7189         11     31247    62     4     7
## 7215         26      8184    59     2     4
## 7216         13     20013    67     0     1
## 7238         29     26253    60     1     2
## 7266         24      4819    39     0     6
## 7271          7     23316    78     4     5
## 7281          2     98493    95     3     4
## 7284          3     80028    59     0     1
## 7318         19       505     2     2     9
## 7343         16     51496    68     1     1
## 7354          8     12784    80     2     2
## 7373         13     19344    50     0     2
## 7380          2     38563   107     4     4
## 7382         18      9421    53     0     0
## 7383          9     31082    84     0     1
## 7411         20     89786    67     0     3
## 7439          6     20093    80     0     0
## 7466          4     59050    64     1     5
## 7476          2     79406    80     0     2
## 7521         18     20647    67     0     0
## 7522         12     32504    97     2     5
## 7544         13     53945    75     0     0
## 7548          3     78983   101     1     4
## 7560          3     30253    76     3     5
```

```
## 7578          8     25833    63        2        4
## 7581          6     26018    82        0        1
## 7583         20     27123    73        0        0
## 7616         22     39299    68        0        1
## 7628          6    112076    74        0        2
## 7641         33     19447    65        1        2
## 7648         32      9233    55        0        4
## 7664         13    290566   138        2        2
## 7682         25       805    40        0        3
## 7736         11     88894    69        3        8
## 7750         10     61846    84        1        2
## 7753          6      8343    93        2        3
## 7775         10     21498    83        1        6
## 7785         12     15199    66        1        2
## 7799          9     33841    92        1        4
## 7809          8     15556    97        0        1
## 7810         10     22581    70        1        1
## 7812         25     24114    50        0        0
## 7815         29     44282    41        1        2
## 7825          2    222232    86        2        2
## 7830         12     36720    87        9       11
## 7845         39     20441    62        2        5
## 7863         11     43541    42        0        2
## 7867         11     63083    71        3        4
## 7877          4     14926    69        2        4
## 7886         10     22300    80        0        2
## 7892          4     34112    88        1        1
## 7897          5     12349    64        0        2
## 7906          3     37959    55        1        3
## 7927          2     84218   113        1        1
## 7943          2    294633   107        1        1
## 7970          2     25140   100        1        8
## 7994          3     15135    56        1        3
## 8010         20     41961    86        1        3
## 8016         23     15917    50        3        9
## 8045          3     42123    94        0        2
## 8081         15     13340    45        0        1
## 8090          5     15860    97        2        3
## 8114         61      2393    17        1        1
## 8124         14     13384    51        2        3
## 8131         14     64423    73        1        2
## 8139          7     97567    33        0        0
## 8150         15     10421    65        1        1
## 8158         33     33879   113        1        1
## 8163          7     31415    77        1        2
## 8168         47      6339    21        1        1
## 8191         54      2291    44        0        2
## 8205          5     37130    64        1        3
## 8219         46     66427    80        0        0
## 8225          6     65299    82        4       11
## 8251         15     36358    68        0        1
## 8253          2    114576    64        2        4
## 8263         29      4560    22        2        2
## 8271          7     17203    86        4        7
## 8285          1     35090    82        2        7
## 8296          7     32538    92        2        2
## 8300         18     32473    19        0        1
## 8326          7     27826    84        2        2
## 8343          4     39321    64        0        0
## 8349          5     19665    91        3        5
## 8365         12     20783    74        0        0
## 8381          2     76013    85        2        2
## 8398         15     11916    58        2        3
## 8402         11    308492    94        0        1
## 8422          4      9727    97        0        0
## 8423         11     88751    74        1        2
## 8442          2     22689    83        0        6
## 8458         11      7770    88        0        0
## 8468          9     40542    64        5        9
## 8469         13      3005    90       10       13
## 8486          5     78243    85        0        0
## 8508         28      9363    53        2        2
## 8521          1     78816    53        1        5
## 8527         13     28693    75        3        6
## 8551          8     32778    86        5        5
## 8561         10      5934    63        4        4
## 8591         11     17291    87        0        0
## 8604          7     14182    95        1        2
## 8613          3    124417   103        1        1
## 8615          3     17554    68        1        2
## 8616          8     37556    88        1        4
## 8628          3     21844    75        1        1
## 8629         19      6357    47        1        1
## 8642          9     27851    61        1        2
## 8643         35      3416    29        3        4
## 8650          4     98687    63        1        1
## 8660         10     30181    71        6       15
## 8662         10     10088    85        0        1
## 8683          4     60258    82        0        0
## 8689          7     37397    66        2        5
## 8700          2     37510    69        3        5
## 8703          9    131340    72        2        5
## 8705          2     28293    82        1        2
## 8708          5      8829    74        5        8
## 8731          2     44949    65        0        0
## 8737          4     31880    65        0        1
## 8739         15     16370    74        1        1
## 8744         18     14625    84        0        1
```

```
## 8769          25      13793     62        0        0
## 8797          21      24118     30        1        1
## 8818          16      13080     65        0        0
## 8820           5      93930     43        0        0
## 8821          10      59435     96        2        5
## 8837          20     195581     61        2        4
## 8843          19      69842     87        0        0
## 8844           5      54251     86        1        6
## 8848          54      26658    108        1        5
## 8858          14      11149     70        0        0
## 8869          15      14820     88        2        3
## 8881           5      14571     72        0        1
## 8882           7      23924     92        0        3
## 8887          17       2816     66        1        6
## 8892           8      42795     83        2       11
## 8894           7       8851     61        3        4
## 8899          12      28613     94        1        2
## 8903           7      20106     95        1        3
## 8908          16       5957     47        1        2
## 8925          23      12525     54        2        3
## 8932          27     102518    140        1        3
## 8947          12      38957     54        1        6
## 8964          17      29507     48        0        0
## 8986          10      18903     55        1        3
## 9008           7      20671     91        3        4
## 9011          11       7766     73        0        0
## 9013          19      15425     67        3        9
## 9021          40       1452     17        2        2
## 9023          24       5377     25        0        0
## 9054          15      59674     22        2        4
## 9084          24      11175     30        2        2
## 9088           8      13066     83        1        1
## 9129           6        851     10        1        6
## 9142           7      17655     62        1        1
## 9146           2     168311    100        2        2
## 9168           3      12801     34        3        8
## 9175          10      25434     64        3        3
## 9185          18      44601     76        2        8
## 9191           2      19978     86        2        4
## 9206           1      78523     97        1        1
## 9208           2     324961    109        2        2
## 9235          36       4894     47        3        4
## 9269          17      82358     86        2        7
## 9287          31      12760     68        4        4
## 9313           7      60164     76        2        3
## 9317           9      32700     86        1        2
## 9318          12      19264     81        1        6
## 9322           8      31189     89        1        2
## 9349          17      36404     10        1        1
## 9359           6      67857     96        1        3
## 9360          19      51100     49        1        2
## 9368          11       3428     23        2        3
## 9369          10      37318     84        2        5
## 9389          10      27439     59        4       10
## 9417           3      21038     96        3        7
## 9420           2      56255     97        0        0
## 9423          12      23255     67        4        6
## 9428           3     134701     83        0        0
## 9449          53      15209     33        3        3
## 9490          13     130941    104        1        1
## 9494          10       9406     75        5        8
## 9513           8      12054     88        2        3
## 9518           5      71547     70        0        2
## 9533          23     153309     61        0        1
## 9548          10      60996     63        0        2
## 9561          28      10637     59        6        6
## 9563           3      16996     97        0        0
## 9568           3      21786     78        2        5
## 9576           2      34734     83        2        6
## 9588          15      12553     61        0        2
## 9634           5      27037     97        3        5
## 9645           6       4793     54        2        3
## 9660           3      29557     77        0        1
## 9663          22       2599     52        0        2
## 9675           7      63470    109        2        4
## 9678           9      60477    114        1        3
## 9686           4      14770     38        1        2
## 9707           3      32350     54        1        4
## 9708           4      31606     97        3        6
## 9720          10     186500     95        0        1
## 9724          18      19818     65        3        7
## 9730          10      40730     90        1        2
## 9739          20      65083     24        0        0
## 9749          18      47364     60        0        0
## 9759          11      15199     80        6        6
## 9771         126       1004     32        0        2
## 9802           9      21839     80        0        0
## 9807          22       1378      8        1        2
## 9818          14       6744     69        2        5
## 9822           9       8390     84        1        3
## 9823          17      87688    100        0        3
## 9869           6      27610     54        3        4
## 9885           4      98180     73        5        9
## 9916           5      53010     58        5       17
## 9935          28       7558     44        3        4
## 9965          11      35865     75        4        6
## 9981          13      21452    114        4        7
## 9985          14       2180     73        1        3
```

```
## 9986                  5        23984      85           1           1
## 10009                11         3417      83           4           6
## 10012                16         6360      79           4           5
## 10027                16        31260      88           0           3
## 10068                 7        81482      86           3           5
## 10074                 4        49125      48           1           1
## 10076                 1        35569     107           2           4
## 10092                 4       127866      48           1           2
## 10101                 7        22973      77           0           1
## 10124                 4       231830      89           0           5
## 10128                 5       114345      94           5           9
## 10129                 9         4211      59           2           2
## 10141                 9        83055      78           0           1
## 10142                15        21939      30           1           1
## 10163                23        12587      65           1           4
## 10165                17        10867      79           2           5
## 10179                31         1135      11           4           4
## 10188                11         6605      83           8          10
## 10210                13        64703      65           1           4
## 10220                 3        29183      82           4           5
## 10221                15        24810      74           0           0
## 10240                 3        38773      94           4           6
## 10246                29        55123     164           0           1
## 10249                16        42360      67           0           3
## 10262                 9         4240      83           1           3
## 10265                 2        12109      71           1           7
## 10278                 7         6957      79           4           6
## 10288                13         9843      67           0           1
## 10319                11        22229      86           0           1
## 10328                 9        16036      92           0           1
## 10329                 1        87179      73           2           2
## 10335                 2        49992     100           2           5
## 10339                25        24420      46           0           2
## 10366                 1         2018     100           1           2
## 10371                 3        22611      83           1           2
## 10385                 1        74318      81           3           5
## 10387                 2         2640      12           2           5
## 10417                48         8663      41           2           2
## 10448                13        21535      51           0           4
## 10449                 7        80824      91           1           1
## 10453                 5        47725      64           3           3
## 10455                15        56188      61           1           1
## 10460                 4        10899      43           1           4
## 10464                 5        47286      97           0           0
## 10471                 7        49923      93           0           1
## 10482                13        65549      62           1           2
## 10491                 7       104187      64           0           1
## 10494                22        61431      68           1           3
## 10508                 7        26127      54           0           1
## 10517                 9         5804      81           3           4
## 10530                24        91212      12           0           1
## 10532                 2        42575      97           3           3
## 10535                 6       200342      88           0           3
## 10545                19         2197      40           1           2
## 10570                 7        28473      94           2           2
## 10573                20        19701      65           1           5
## 10576                14         5567      51           1           2
## 10579                14         9526      73           0           1
## 10582                12        87956      79           0           0
## 10592                 6        19683      94           3          11
## 10595                20         4267      60           4           4
## 10601                32         8298      36           1           1
## 10614                18        26694      85           0           2
## 10620                 6        90264      51           1           1
## 10632                 2        28269      71           1           2
## 10641                 6        36343      88           9          12
## 10646                 3        27230      91           2           3
## 10655                 6        30852      78           1           2
## 10658                 7         8085      29           0           1
## 10661                36        28340      64           0           2
## 10680                 9        14940      74           1           1
## 10689                11          613      41           1           1
##       max_bal_bc all_util total_rev_hi_lim inq_fi total_cu_tl inq_last_12m
## 16             0       42             8400      3           0            3
## 38          2544       65            13300      1           0            0
## 47          8176       39            60900      2           0            4
## 77          1023      163             2000      0           0            1
## 88          7507       36            51800      1           0            1
## 112        24163       92            43100      0           0            0
## 133        10028       59            48000      1           1            7
## 135          202       38             7800      3           0            1
## 145         2257       63            16200      2           1            2
## 169         4735       53            26500      1           0            0
## 180         3458       34            57200      0           1            3
## 191         5973       71            12200      2           0            2
## 208         1598       75            21000      5          25            4
## 222         2771       63            17700      2           0            2
## 226        25986       58            69600      0           0            4
## 231          634       47            91600      1           4            4
## 243         3864       62            11000      2           0            1
## 244          720       65            31500      0           2            1
## 250            0       32             4800      1           0            3
## 260         1976       43            26500      1           4            2
## 271         6722       90            14900      2           4            1
## 277         6051       58            55800      2           0            1
## 284          233       48            13000      2           6            3
## 292         3380       66            27200      4           0            4
## 295         5014       35            65700      1           0            1
```

```
## 311        9823      82          17200     2          1          1
## 355        1373      65          29000     1          2          1
## 376        5701      56          46300     0         18          1
## 385         592      75           9200     0          1          1
## 392        4844      50          60500     1          2          7
## 400        9394      47          56900     3          6          0
## 402        1634      59          33200     1         10          2
## 413        1244      38          11700     2          0          4
## 421        4485      63          26400     0          1          0
## 423        4031      46          56200     1          2          5
## 424        4850      82          12000     1          4          0
## 440        4804      87          12400     0          0          2
## 444        9006      53          31500     0          0          0
## 509        2631      37          46800     0          0          1
## 524         744      69           7000     4          1          7
## 542        1283      86          21600     1          2          8
## 581        6853      28          17100     0          1          1
## 593        2609      54          34900     3          1          5
## 620        6368      57          27800     2          3          2
## 669       17679      61         107400     1          0          2
## 679        5002      27          58400     0          0          1
## 695       10774      45         105200     0          0          3
## 698        7994      34          39800     1          1          1
## 726        1045      70          16100     1          1          6
## 750        6180      33          52500     3          1          4
## 755        5747      67          24400     1          0          0
## 791        1427      24          50500     2          0          4
## 796        1338      50          50200     1          3          2
## 805        1126      37          32000     0          3          2
## 806        1960     108          12800     1          8          0
## 821         448      52          17900     4         12         10
## 837        5863      63          33700     6          2          9
## 841        7274      41          44800     1          3          1
## 843        5275      94          18100     1          0          3
## 860        1289      50          76300     2          0          2
## 862        4294      92          16000     1          5          1
## 891         776      79           8000     5          0         17
## 911        1530      63           8700     2          1          1
## 921       23852      55          77800     1          2          2
## 930        4011      59          30700     0          1          0
## 952        7107      71          21000     2          0          2
## 956        2102      81          11000     0          3          1
## 958        2264      59          34600     0          5          2
## 967        9513      75          26400     1          0          0
## 974        3742      84          15000     4          1          0
## 982           0      75           9300     1          4          3
## 1014       2726      74           8200     3          0          1
## 1022      13654      33         339274     1          0          6
## 1045       4624      32          22800     1          0          0
## 1051       5768      79          17500     5          4          6
## 1075       5370      42          99100     2          1          2
## 1097       3842      28          59700     3          0          3
## 1099      12155      61          40700     1          5          1
## 1104       6217      48          30800     3          0          1
## 1107        171      31          41500     2          0          1
## 1119       2032      35          66900     1          4          5
## 1125        544      79            800     1          3          5
## 1166       4333      51          27700     2          0          2
## 1167       3457      64           5600     0          5          2
## 1172       1400      15         124500     4         14          1
## 1173       5983      71          16100     0          0          1
## 1175      13298      65          14400     0          2          1
## 1177       3946      48          38400     1          0          1
## 1193       3800      76          18000     0          1          3
## 1200       3975      74          49300     6          1          4
## 1206       4912      65          19100     1          0          3
## 1223          0      39           5300     0          1          1
## 1230       5093      63          16600     1          8          3
## 1238       5632     105          10800     1          0          1
## 1245       4371      46          36400     2          1          4
## 1250       4422      55          46300     0          0          2
## 1272       6827      35          32800     1          0          1
## 1282       4441      58          23300     1          5          0
## 1283      12243      65          45000     0          5          0
## 1298       5474      48          38500     1          5          0
## 1300       1005      20          14900     0          0          1
## 1308          0      73          10900     1          8          3
## 1321       8822      57          38900     1          0          1
## 1322       8198      67          26900     7          3          6
## 1327       2590      68          56600     4          1          5
## 1374       1568      61          19800     2          0          5
## 1378        410      64           7900     3          2          6
## 1385       2295      23          22200     0          0          1
## 1411       8499      51          34200     5          0          4
## 1415       5554      51          42600     2          2          3
## 1463       2512      50          16600     0          0          2
## 1517        345      55          15600     2          1          5
## 1531       1701      68          40400     3          9          5
## 1598      14973      55          66700     1          1          4
## 1609       2647      56          21400     2          0          6
## 1638       3277      85           5800     3          3          2
## 1684       4189      78          13500     0          5          0
## 1710       2338      40          20300     4          0          4
## 1713       4714      45          46000     0          1          3
## 1722       5696      48         266900     4          1          2
## 1733      12914      60          40000     1          4          2
## 1742       2349      27          23000     1          4          2
## 1770       8818      78          25200     0          2          5
```

```
## 1777        7694       50          120600      3           0           3
## 1779        7656       75           18300      1           2           2
## 1781        8857       64           42100      3           1           3
## 1808        2673       36           44500      2           5           4
## 1814        7642       76           24100      0           7           1
## 1832        4073       83            7500      1           1           6
## 1834        7585       60           38500      1           1           3
## 1841        9399       56           56100      0          13           0
## 1858        1527       47            3400      1           0           1
## 1872        5664       79           11700      1           0           3
## 1888         439       19           45100      2           0           4
## 1908        2853       59           12500      0           0           1
## 1912        5461       38           54800      0           3           1
## 1918        5065       41           70300      1           2           3
## 1923        3036       18          108200      2           0           5
## 1931        3947       35           24300      0           0           2
## 1940        4472       36           61600      0          15           1
## 1941        2245       69           32600      3           0           3
## 1966        2430       42           13000      3           0           4
## 1967        5768       32           35900      2           0           2
## 1969        2573       67            9800      1           0           0
## 1993        9267       58           20100      1           2           1
## 2000       12093       30           66100      1           0           0
## 2020       10608       82           41700      1           0           1
## 2021        1312       20           56700      2           0           1
## 2022        3184       68           41700      5           1           5
## 2024        3983       56           31300      3           0           2
## 2062        2821       41           47400      0           2           0
## 2064        7503       38           32000      0           6           1
## 2110        4516       59           46900      2           0           2
## 2134        2765       34           64300      1           0           1
## 2141        6485       68           28900      5          15           4
## 2152       17577       52           82900      1           0           0
## 2164           0       56           29200      1           0           2
## 2188        1240       84            8000      1           0           1
## 2195        9955       73           19700      1           0           2
## 2205        9935       40           80800      0           0           5
## 2223        2349       43           39000      4           0           2
## 2228        1857       78           11029      3           4           5
## 2237        5332       48           32500      0           3           1
## 2266        9746       41           16600      1           0           0
## 2269        9421       69           21200      0           3           2
## 2276       23062       45          267400      2           2           2
## 2282        2210       63           20600      1           0           3
## 2291        3299       58           28700      3           2           5
## 2299        6216       36           30900      3           4           5
## 2309        1891       73           15500      1           0           4
## 2311       18708       83           68400      2           1           0
## 2317        9551       62           24900      1           0           4
## 2324        3092       53           22500      0           2           1
## 2360        4757       41           62300      1           0           1
## 2366        1475       20          108500      2           1           9
## 2372        9060       63           14500      2           1           0
## 2391        3238       70           16000      0           0           0
## 2451          62       49           20100      3           3           2
## 2466        2850       69           29500      4           3           6
## 2487        5828       65           27500      0           0           1
## 2498         681       95            7000      3           0          10
## 2507        3428       53           11000      0           0           1
## 2553         599       12           52300      0           1           5
## 2570        1000       51           64900      3           2           3
## 2573       11696       70           56600      0           2           2
## 2594        4929       40           36600      1           3           2
## 2632        1769       64            7300      5           0           2
## 2644        4816       71           38400      2           3           1
## 2665        4993       87           15100      1           1           0
## 2666       10140       77           16300      2           1           1
## 2680         473       18           50000      3           0           7
## 2682        5273       43           10600      0           0           1
## 2688        2901       52           17100      2           0           3
## 2697        3542       33            9000      2           2           0
## 2704        1893       26           34000      1           0           0
## 2739        5537       41           12900      4           1           3
## 2741       10601      100           25800      2           3           2
## 2750         732       42            7400      3           0           0
## 2751        7230       42           34000      1           0           4
## 2754        2737       43           16600      0           6           2
## 2762        2784       41           26700      2           0           3
## 2764        1330       88            5800      6           0           2
## 2778        2906       80            7800      4           6           3
## 2802         284       36           22700      1           0           0
## 2818         960       84            8200      3           6           3
## 2822        3320       22           56100      1           0           0
## 2841        1792       53           15500      1           1           3
## 2848        2156       71           22800      5           0          14
## 2888        2243       31           70100      1           2           4
## 2922        7735       80           56500      1          13           2
## 2941        4001       85           11500      1           3           3
## 2956        6781       64           31100      4           0           2
## 2970        2409       36           20500      1           4           2
## 2986        5004       63           27900      2           0           3
## 3006        1538       82            8900      0           2           2
## 3030        5288       48           36500      1           1           1
## 3035        3597       68           16900      2           1           5
## 3044       12520       71           30700      7           1           9
## 3048        6547       60           15000      0           2           0
## 3063        1932       69           33200      0           0           1
## 3064        5490       48           44600      1           3           6
```

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## 3072        8102       75            12900      2           0            7
## 3080         405       57            18000      4           0            4
## 3082        6008       43            57900      2          13            6
## 3097         280       45            31600      2           2            6
## 3098        5731       75            17500      1           1            3
## 3135        2768       73             6000      0           1            1
## 3151        7367       49            26300      3           0            7
## 3153         928       47            31000      1           0            2
## 3171        6856       37            26100      1           2            0
## 3205        2341       18            32500      1           5            1
## 3217       16990       62            28000      0          20            1
## 3225        4000       42            69900      2           0            4
## 3227        2414       69             3500      1           6            1
## 3234        7555       47            44700      3           0            2
## 3239        4253       27            69300      2           0            1
## 3247        6202       56            36500      0           0            2
## 3331        1270       52            14500      5           1            4
## 3334        1143       74            19100      2           0            1
## 3372        5304       61            23700      0           1            1
## 3379        1746       47            37100      2           2            3
## 3393        1788       85            10600      1           0            0
## 3395           0       75            16600      0           4            4
## 3403        6087       50            44900      0           2            2
## 3410        6994       60            11000      3           5            1
## 3413        3323       59            33100      0           1            0
## 3417       10597       74            33100      1           2            3
## 3487       13034       76            73200      1           4            3
## 3513        6404       55            55400      1           3            3
## 3521         341       25            49000      2           0           12
## 3532        3178       57            53500      1           0            1
## 3558        1869       45            14400      0           1            2
## 3562       10230       38            45000      0           7            2
## 3571       11221       58            72700      2           0            1
## 3574        2071       53            11500      3           2            0
## 3581        5054       56            10100      0           0            1
## 3589         576       55            26000      1           0            4
## 3605         665       74            17500      3           2            8
## 3630        2954       64            21400      0           4            2
## 3631           8        9            33500      0           5            0
## 3640       24032       55            64600      2           0            1
## 3642        9424       45            54500      1           2            7
## 3644         979       19            20000      0           1            3
## 3653        6492       59            45900      1           1            6
## 3662        1161       42            19800      2           0            0
## 3663       10608       45            56500      4           2            2
## 3691        3868       67            30800      6           1            8
## 3713        4768       29            81600      0           7            3
## 3726        5366       44            61000      2           2            0
## 3746        1044       18            34400      4           0            6
## 3751         187       57            14400      3           8            4
## 3757        1530       79            12400      1           0            2
## 3761        6704       67            61300      3           3            3
## 3763        7803       49            29800      0           9            2
## 3770        1786       67            14300      3           0            1
## 3774        1718       69             3200      1           1            6
## 3775         527       13            40800      2           0            5
## 3786         571       63            24600      0           6            5
## 3809        1917       59            17400      5           0            7
## 3824        6556       65            33400      1           0            2
## 3832        5553       47            22800      3           5            1
## 3845         804       35            14100      1           1            2
## 3864        2878       57             8800      3           0            1
## 3877        3984       68             4000      1           1            3
## 3890        3381       40            43300      6           3            6
## 3907        4772       51            35200      2           0            2
## 3918        1030       46            27600      6           0            3
## 3925        2024       64             8100      2           0            4
## 3927        1822       47            24300      3           1            9
## 3945        1931       69            14700      5           2            8
## 3946        8481       18            76400      1           1            2
## 3972        7019       62            27800      2           2            7
## 3986         388       44            25700      2           6            4
## 3988        4190       55            38200      0           8            2
## 4008        1709       73             9400      1           0            4
## 4015        2785       33            27700      3           0            3
## 4039         976       59            11500      2           0            5
## 4047        5969       19            43000      0           0            1
## 4056           0       48             3300      4           0            2
## 4076         180       32             9000      0           1            0
## 4090        1698       51            33400      3           2            4
## 4103        1217       27            53900      4           0            6
## 4160        3531       52            18000      1           1            3
## 4164        3737       50            29400      1           2            5
## 4188        1884       59            40800      0           1            4
## 4222        1369       60            16100      1           3            2
## 4231        3792       34            36300      2           0            6
## 4236       23820       84            63500      0           0            2
## 4256        3340       59            24900      1           2            2
## 4282        1261       45            11700      1           0            0
## 4286        1983       69            23100      4           0            3
## 4306        5563       56            31900      2           0            4
## 4308        1919       61            23600      1           0            4
## 4313        5485       62            28600      0           0            3
## 4355        2082       31            11300      4           0            5
## 4358        9185       48            75200      0           2            2
## 4375        3361       65             7000      0           4            1
## 4383       16978       63            24300      0           1            0
## 4387        4769       32           145400      1           0            7
```

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## 4404        1772        53            9400      1           0            2
## 4420        5095        44           35200      1           3            2
## 4449        6687        55           39600      1           1            2
## 4455        2117        28           61700      2           7            3
## 4463        1523        41           29700      1           3            3
## 4490        3303        55           27700      4           7            5
## 4495        3895        32           29300      0           0            0
## 4505        7199        26           32800      2           1            2
## 4507        8353        66           27200      2           3            4
## 4540        3044        44           48400      1           2            0
## 4553        5936        77           12800      5           1            0
## 4579        4089        50           58400      5           1            6
## 4591        7831        60           23900      0           1            1
## 4593        2493        47            9300      0           0            1
## 4599       10950        68           60100      2           0            3
## 4607        2324        42           28200      2           0            0
## 4636       15136        64          102400      2           6            3
## 4659         245        50           45100      6           1            3
## 4667        8112        87           33900      1           0            0
## 4670       11500        41           98200      2           0            5
## 4676        9299        35          111400      3           2            5
## 4678        9377        48           72800      1           0            5
## 4679        7318        64           22000      1           0            0
## 4687       10861        57           23900      0           1            0
## 4697        4999        48           41300      1           0            1
## 4709        1312        30           26300      0           0            1
## 4725        1220        74            5100      0           0            0
## 4741        5196        58           56000      1           3            4
## 4777        5735        50           46300      1           1            3
## 4781        1732        30           25400      1           3            3
## 4796         117        56            5000      1           2            2
## 4807        9736        82          133200      4           2            1
## 4808        3928        45          136300      4           3            3
## 4822        3005        87           89600      0           0            0
## 4830        5710        51           30900      0           2            1
## 4849        4331        52           69700      3           6            4
## 4853        2052        73           13600      1           5            2
## 4854       22799        66           60900      1           4            3
## 4859         790        60           15300      2           0            5
## 4897        1956        53           11800      0           2            6
## 4966           0        52           23700      2           0            2
## 4975        7312        88           15900      2           2            1
## 4991           0        10           16900      1           1            1
## 5016        2383        76           11100      1           0            1
## 5020        1696        69            7300      3           1            6
## 5024        1718        49           20900      0           0            0
## 5026        6958        61           20300      0           5            3
## 5040       14743        68           30600      0           1            2
## 5058        1899        79           10600      3           2            6
## 5078        9608        49           50400      1           1            0
## 5082        3551        60           27800      4           0            1
## 5092        1229        67           43600      3           3            4
## 5140        3800        24          113700      3          17            4
## 5143        1296        98            7400      2           0            1
## 5148           0        33           33900      0           0            1
## 5188        4362        62           47200      2           0            1
## 5203        4994        82           21600      5           0            4
## 5214        1862        67           12200      2           0            0
## 5224        9671        49           25400      1           0            1
## 5229         471        32           74800      0           0            2
## 5281         818        80            5100      5           1            5
## 5290       11336        63           45300      0           0            0
## 5310        3950        88           65000      2           0            1
## 5327        1395        54           21100      2           1            5
## 5331        3944        38           28800      3           0            2
## 5334        4821        53           37700      1           0            0
## 5335        8886        57           77600      3           2            6
## 5336         162        63           13500      1          28            3
## 5349        1491        46           29300      2           1            2
## 5353       14150        58           42200      2           7            2
## 5370        7255        39           62900      0           0            2
## 5381        3193        46           35300      2           0            6
## 5385         273        51            9000      1           0            1
## 5396        1450        43           26700      0           0            1
## 5408       11311        80           26600      1           1            6
## 5415        7634        53          115400      0           2           19
## 5424        4792        53           39700      1           1            2
## 5428        1586        23           59500      3           0            6
## 5450         935        90            6400      0           0            4
## 5474        1581        34           16600      5           5            9
## 5480        4382        46            8500      0           0            1
## 5486           0        62            8200      0          13            3
## 5509         502        51            7700      4           0            2
## 5518          23        17           17600      1           0            0
## 5523       10946        60           41000      1           2            1
## 5534        2222        51           19000      2           2            1
## 5536        5348        58           38300      0           0            3
## 5541        4739        54           37900      2           8            4
## 5551          58        48           52300      3           2            2
## 5557           0        63           17600      5           0            5
## 5562        3046        94            8800      2           0            0
## 5584         686        38           21000      0           0            1
## 5588           0        71           13100      0           8            3
## 5598        2105        76           22100      0           0            0
## 5599        2541        62           27400      3           2            2
## 5625        7760        49           59400      1           4            1
## 5626        5386        59           49600      3           1            6
## 5633        3531        67           40300      3           0            5
```

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## 5641      1609      48          18400     1          0          1
## 5674      2243      62          17100     0          1          3
## 5693      2997      69          10500     1          3          2
## 5697      6208      56          14300     0          5          2
## 5704     22074      66          44400     1          0          2
## 5712       999      60          20500     1          6          2
## 5761      4939      22          28300     0          3          1
## 5763       432      26          66000     3          1          3
## 5796      2990      64          10900     0          0          4
## 5797      5011      42          47800     2          0          2
## 5800      1710      80          17500     2          3          2
## 5808      6734      81          38100     2          0          1
## 5812      7770      63          37100     1          3          1
## 5814     21701      68         131300     1          0          5
## 5819      2937      58          33900     3          0          3
## 5824      8435      51          35800     1          0          1
## 5833      6469      31          34900     1          4          0
## 5851      4749      45          58300     2          0          1
## 5857      7275      43          54400     0          5          1
## 5862     11614      72         276400     1          3          2
## 5866     15218      63          32400     1          4          1
## 5873      1868      46          43000     3          0          3
## 5877      2377      32          24300     1          4          1
## 5891      4976      55          58100     6          0          9
## 5914      3461      52          46600     3          0          1
## 5936      5517      27          74800     0          0          0
## 5961      1544      34           2700     1          6          3
## 5969      2530      85          17600     3          1          2
## 5983      2236      38          24500     1          0          2
## 5984      6112      46          39900     6          1         14
## 5993      3236      55          19900     1          0          1
## 5995      8519      80          72300     1          0          4
## 6016       103      85           4800     2         10          4
## 6022      2929      72           8900     1          0          2
## 6026      2979      55          10500     2          1          2
## 6040      3119      41          35900     3          0          5
## 6042      6611      45         105700     1          2          0
## 6058     17203      36          66700     0          0          0
## 6067      3792      70          21600     0          0          1
## 6081      6392      23         153800     0          0          1
## 6095      8954      43          55400     1          0          4
## 6098      4740      55          17700     1          1          0
## 6103       827      30          20700     0          3          1
## 6107      2640      54          34300     1          0          1
## 6108      2083      49          26400     1          5          2
## 6110      6357      60          30800     1          0          5
## 6112      1589      72          30300     0          0          3
## 6125       999      35          40700     2          4          2
## 6137      4523      47          37100     0          4          4
## 6143      4000      58          35100     6         17          8
## 6153      2138      38          14200     0          0          3
## 6166       371      45          40000     0          0          3
## 6198      3019      45          25300     1          2          4
## 6215      8820      52          46400     1          2          1
## 6216      3435      56          60100     2          2          4
## 6220      7857      64          29100     0          5          5
## 6226      8807      51          23200     2          2          1
## 6235      9573      70          28500     3          3          6
## 6245      6170      50          22400     1          0          2
## 6252      4273      68          13200     2          0          5
## 6261      2878      26          40400     2          2          7
## 6268      5301      53          15600     0          0          1
## 6302      1151     109           4100     0          3          3
## 6304        75      50           6400     0          2          4
## 6331      9554      91          22700     1          0          2
## 6337      2002      63          11800     0          1          1
## 6373     14563      66         116500     2          8          1
## 6379       409      53           1900     0          0          2
## 6397      1651      40          18200     2          0          2
## 6401      6767      47          60700     2          0          4
## 6438      6121      65          71400     1          0          2
## 6442      9384      83          17600     3          1          2
## 6447      4750      44          34600     0          0          4
## 6450     17454      86          40000     1          0          2
## 6464      1037      58          12800     0          0          1
## 6506      2133      79           5700     2          2          5
## 6513      4292      49          19600     1          4          2
## 6519      1087      71          21700     2          0          5
## 6520       660      17          28200     1          0          3
## 6580       354      56          15400     4          0          7
## 6616       536      20           6000     4          0          5
## 6652         0      40          49100     2          6          5
## 6667       755      78           1700     1          0          1
## 6688      6955      63          26700     2          4          2
## 6693      1237      55          14700     1         11          3
## 6727     23722      70         103000     6          6         14
## 6732      2607      54          20000     2          1          3
## 6735      9469      44          60200     1          0          4
## 6746      3849      45          36700     1          1          1
## 6754      5050      55          34100     1          0          0
## 6770      1774      59          14100     4          1          4
## 6789      7955      81          36900    15          4         24
## 6803      4465      64          25700     1          0          0
## 6819      1466      75           8100     4          3          9
## 6820      2181      74           7500     0          0          3
## 6822      5953      64          16700     0          1          1
## 6824      3483      50          18000     2          0          1
## 6834      2339      52          40000     1          3          3
```

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## 6841        5175       43            24200      1           0            0
## 6843        2909       42            11100      0           0            1
## 6858        4879       32            34700      0           0            0
## 6860         427       48             1300      0           0            1
## 6889         687       74             7900      3           2            1
## 6891        7279       44            25600      3           0            2
## 6894        8406       58            53000      2           0            2
## 6896         924       59            14600      0           1            0
## 6899        6662       56            57600      9           5            5
## 6900        6095       23            30600      1           0            2
## 6917        3520       36            13300      2           0            2
## 6919        6153       69            25500      1           1            0
## 6923       10904       61            27300      1           1            0
## 6934        1934       69             5600      1           5            4
## 6941       10000       54            39000      0           1            0
## 6954        1488       17            33700      5           3            5
## 6957        5091       58            44400      4           2            4
## 6960       11525       54            44500      0           8            1
## 6962        2020       72            24100      1           0            1
## 6965        1478       54            12900      0           7            1
## 6971        6943       56            51600      3           1            2
## 6977        1532       57            19300      0           0            3
## 6989        8018       82            33500      1           6            1
## 7001        9285       52            56200      3           0            5
## 7008        1966       61             9400      1           0            2
## 7009        2767       89             9000      0           0            0
## 7012        1274       61            23000      4           0            6
## 7017         208       56             6600      1           1            3
## 7033        4691       85            12500      0           1            0
## 7037        8329      115            31700      1           2            2
## 7057        5863       55            35600      0           0            1
## 7060        1091       69            15100      3           0            3
## 7064        4354       53            37200      2           1            4
## 7085         469       76            17200      2           1            5
## 7129        4128       44            40800      0           1            0
## 7138       11692       49           151700      4           2            5
## 7145        1784       93             5000      3           1            7
## 7160           0       37            76100      1          14            1
## 7174        9214       56            38868      3           6            4
## 7187        8547       78            24200      1           0            2
## 7189        9300       54            32500      8           0           12
## 7215        3163       56            11100      0           0            0
## 7216        6969       22           137200      0           0            0
## 7238        6111       64            14600      0           0            1
## 7266        3672       15            43100      2           2            2
## 7271        2138       47            42600      1           0            2
## 7281        3563       79            21300      2           2            5
## 7284      104320       62           135000      2           0            4
## 7318        3234       23            46900      3           4            3
## 7343       18647       70            24500      1           4            0
## 7354       16296       65            65300      1           0            1
## 7373        6431       45            20400      2           0            1
## 7380        2074       84            21200      0           0            2
## 7382       22711       61            59900      0           2            1
## 7383        3997       58            35700      4           2            1
## 7411        7875       45            61800      0           4            1
## 7439        1726       67            14700      2           0            3
## 7466        2993       55            16600      2           0            2
## 7476        5663       75            12100      2           1            1
## 7521        4002       68             5700      1           1            0
## 7522        7640       56            75700      0           3            0
## 7544       12870       51            53300      0           2            2
## 7548         900       91            14200      2           1            4
## 7560        3245       57            47700      3           2            5
## 7578       12302       74            41500      6           0           13
## 7581        3856       75            14000      3           1            4
## 7583        4770       71            15900      0           2            0
## 7616       15604       85            63100      1           2            0
## 7628        6056       64            16000      0           0            3
## 7641        2936       59            10200      0           0            1
## 7648         440       33            13400      0           0            0
## 7664       16743      119            64000      2           0            1
## 7682         973       16             9500      0           0            0
## 7736        7487       64            48200      2           0            2
## 7750       16855       71            83500      3           2            6
## 7753        1099       67             6700      4           0            6
## 7775        6498       42            57300      3           0            8
## 7785        4203       46            27000      1           0            2
## 7799        3013       68            19200      8           1            3
## 7809        2454       55            17700      7           1           11
## 7810        2081       17           125900      2           6            4
## 7812       18657       68            34000      1           0            0
## 7815       12797       47            93300      1           0            1
## 7825       19991       69           128100      2           5            3
## 7830        2160       69            31800      2           0           18
## 7845        4880       62            15100      2           0            2
## 7863        4614       66            49000      0           0            0
## 7867        5218       62            18500      3           1            1
## 7877        1846       45            19300      1           1            1
## 7886        5091       77            19700      0           7            5
## 7892          70       76             6300      0           0           11
## 7897         676       49             8500      2           0            3
## 7906       18423       63            63500      2           0            4
## 7927       15822       74            35000      8          13           14
## 7943       10772      102            22900      3           2            6
## 7970        1154       35            55700      3           1            4
## 7994        2656       61            13900      3           1            7
## 8010        4556       73            23900      0           2            1
```

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## 8016        191       45          4800      2          2          2
## 8045          0       74         14300      1          5          8
## 8081       8406       47         36300      1          0          0
## 8090        177       84          3400      0          0          1
## 8114       1246       29          8200      0          0          1
## 8124       5835       51         15700      1          0          2
## 8131       5798       60         27000      1          0          1
## 8139       3977       41         54000      1          8          3
## 8150      10528       65         33800      1          0          1
## 8158       1892      107          4400      0          0          0
## 8163       1900       59         21800      3          0          6
## 8168      11475       48         23100      0          0          1
## 8191       4697       49         16300      0          2          4
## 8205      23968       71         73600      2          1          2
## 8219       3854       71         22900      0          0          1
## 8225       2386       77         12400      1          4          2
## 8251      14651       67         27500      0          0          2
## 8253      13973       63         43400      3          2          2
## 8263       2452       10        239200      1          0         10
## 8271       2859       53         44700      1          0          2
## 8285       2835       71         16100      0          0          4
## 8296       8216       75         24500      1          0          5
## 8300      12237       24         41800      0          1          0
## 8326       2705       51         30500      1          2          1
## 8343       5449       47         17300      2          0          4
## 8349       2868       52         35000      2          4          3
## 8365       3055       75         25900      2          4          4
## 8381      18721       83         45900      0          1          3
## 8398       2998       65          9100      1          0          1
## 8402       2562       85         20000      1          0          1
## 8422       5713       55         24800      0          6          2
## 8423       6358       68         23000      4          2          9
## 8442       2651       65         15200      2          1          3
## 8458       3348       85         12400      0          6          1
## 8468       9302       70         28300      1          3          5
## 8469       7880       61         21100      7          0         10
## 8486       8772       80         21100      1          2          2
## 8508      10881       57         26500      1          0          3
## 8521       6790       40         92000      0          0          3
## 8527       6063       71         33900      4          0         10
## 8551        664       74          9100      0          2          4
## 8561       8322       76         23700      1         22          4
## 8591       5467       85          9800      1          0          1
## 8604       3118       56         22600      1          4          2
## 8613       1678       57         76800      6          5          9
## 8615       4052       61         15800      1          0          0
## 8616       6241       63         30000      1          0          3
## 8628       5112       63         19300      3          0          4
## 8629       1936       58          7300      2          0          5
## 8642       5476       48         51700      1          0          3
## 8643        243        8         34800      1          0          3
## 8650      17684       67        101700      2          5          2
## 8660       2091       50         31200     12          0          7
## 8662       7170       58         20900      0          6          0
## 8683        514       73         11700      2          9          3
## 8689       3782       47         44600      2          4          5
## 8700       6423       58         24600      2          1          1
## 8703       7770       54         44500      2         11          2
## 8705       9586       62         36300      4          5          1
## 8708       2559       33         24700      1          0          7
## 8731      13570       63         28100      3          0          5
## 8737       4549       59         14100      0          6          1
## 8739       6558       51         30200      0          0          1
## 8744        159       70          3800      0          0          1
## 8769      10595       76         38100      0          0          1
## 8797       3033       34          5700      0          0          4
## 8818      10417       57         21600      3          2          0
## 8820       1554       41         36300      4          1          7
## 8821       2155       71         25600      3          1          2
## 8837       4894       68         25200      0          0          1
## 8843       5739       81         20200      1          0          0
## 8844       4738       37        109700      1          9          6
## 8848       3213       78         19200      0          0          1
## 8858       5570       52         21300      2          0          4
## 8869       1293       68         13200      1          3          0
## 8881       5118       66         10600      1          1          1
## 8882       3546       64         23700      2          3          1
## 8887       1787       55         13500      2          0          3
## 8892        212       58         25300      4          3          3
## 8894       1369       36         18400      1          0          5
## 8899       9013       87         82900      0          2          2
## 8903        169       90          2000      5          3          2
## 8908       6816       33         32500      1          0          0
## 8925        120       29         20800      2          2          3
## 8932       3117       84         56600      5          1          8
## 8947       8380       37         84900      0          6          1
## 8964       5946       50         21500      3          2          1
## 8986       2515       49         43000      2          0          4
## 9008        562       81          5300      0          0          2
## 9011          0       44          7700      1          0          2
## 9013       2566       35         31800      0          1          1
## 9021       1477       31          4600      0          0          3
## 9023       2020       21         23300      1          0          0
## 9054       4386       70         49000      2          3          2
## 9084       5623       45         18100      2          0          1
## 9088        832       63          6300      2          0          2
## 9129        697        6         22300      1          0          2
## 9142       2378       34         38100      2          0          1
```

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## 9146        5369       63           16400      1           0           7
## 9168        1390       21           37400      0          13           4
## 9175        2530       58           20000      3           1           2
## 9185        5470       31          150800      2           2           1
## 9191        2041       71           11700      0           0           4
## 9206         169       26          118200      0           1           1
## 9208         560       92           32500      1           0           1
## 9235        2615       25           31300      0           2           2
## 9269        6681       58           48200      1           0           1
## 9287        5294       68           12000      1           0           1
## 9313         285       71            7900      0           3           1
## 9317         326       80            7800      3           0           6
## 9318        2936       35           44500      1           0           0
## 9322        2470       88            6800      3           0           5
## 9349        6930       33           33700      1           3           0
## 9359        1221       52           30400      2           0           5
## 9360        6063       53           23100      0           0           0
## 9368         527       16            9800      0           1           4
## 9369        3578       39           38900      2           2           3
## 9389        6427       46           56500      6           2           8
## 9417        1692       62           16700      1           0           3
## 9420        6043       39           48300      5           1          10
## 9423        1219       60           15300      1           0          12
## 9428        2472       61           28900      1           9           4
## 9449          10       24           16400      1           3           6
## 9490        4346       82           41100      1           0           1
## 9494        2120       52           22000      2           0           8
## 9513        4772       73           17500      1           0           2
## 9518        1690       71            8900      3           0           1
## 9533        1701       69           35500      0           8           1
## 9548        6177       46           31300      1           3           5
## 9561        6863       58           28700      0           2           3
## 9563        2739       66           13200      2           1           1
## 9568        8888       45           52600      3          10           2
## 9576        3463       67           20800      6           4           9
## 9588        5723       60           15900      0          10           1
## 9634        4733       85           13400      3           0           5
## 9645        1931       53           16600      2           0           3
## 9660       11099       80           24900      1           0           3
## 9663        1687       36           16200      0           0           1
## 9675        1131       91           13700      2           1           3
## 9678        5797       76           45500      1           0           2
## 9686        2035       50           21900      2           1           0
## 9707        4774       54           16500      7           1           6
## 9708        2989       61           24500      5           1           7
## 9720        9055       90           19500      1           2           1
## 9724         450       32           38700      1           5           2
## 9730        2740       79           11800      2           0           2
## 9739        5815       40           19900      1           2           1
## 9749        4410       29           55000      0           0           0
## 9759        1292       46           40100      3           0           7
## 9771        2471       22           35500      0           1           0
## 9802        1609       68           12500      1           1           2
## 9807        6233       57           31300      0          10           2
## 9818        2235       50           14100      1           0           2
## 9822        1437       55           10000      1           0           1
## 9823           0       79           23300      2           1           0
## 9869        1975       50           16200      2           0           4
## 9885        3248       54           25300      2           1           6
## 9916        3452       37           58200      4           4           5
## 9935        2660       47           10700      1           1           6
## 9965        2357       31           29300      5           0           2
## 9981        4507       88           21500      1           0           4
## 9985        1521       14          224400      2           0           7
## 9986        3500       57           22300      1           4           1
## 10009        394       16           23500      1           0           1
## 10012       1336       49           16400      1           0           1
## 10027       2761       48           61400      1           2           2
## 10068       3230       58           57300      3           4           4
## 10074      27980       50          114300      0          16           4
## 10076       1624       52           66400      1           0           3
## 10092       3453       48            8700      8           0           9
## 10101       2067       71            6500      2           0           1
## 10124       4023       74           24600      1           2           1
## 10128       8607       47           64500      0           4           0
## 10129       2287       35           37200      1           0           5
## 10141       4411       75            9500     12           1          11
## 10142      13916       34           88200      1           0           1
## 10163       5605       18           79400      0           0           0
## 10165       2739       61           18100      2           1           1
## 10179       8832       40           18800      0           0           3
## 10188       6030       45           32700      1           0           5
## 10210       6302       51           45900      0           0           0
## 10220       1746       74           10600      1           0           2
## 10221       4109       60           18000      3           0           0
## 10240       5471       66           33000      1           2           9
## 10246      11649       80           73200      1           0           4
## 10249       9177       63           48500      2           9           4
## 10262       1503       54           11000      1           0           2
## 10265       8924       21          112500      4           5           3
## 10278      14620       40           52600      4           7           9
## 10288          0       23           28000      1           0           0
## 10319       2623       64           30200      3           2           3
## 10328       5654       83            9300      0           0           0
## 10329       7046       73           12900      0           0           3
## 10335       3800       66           35500      1          11           2
## 10339       4203       47           18900      0           0           1
## 10366       2631       57           21600      0           7           1
```

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## 10371        620       33            49000      1           1            5
## 10385       9430       58            55400      4           4            3
## 10387       1994        8           109200      3           4            3
## 10417       3283       44            10900      0           0            2
## 10448      10050       58            54400      1           4            0
## 10449       6251       91             7800      1           1            5
## 10453       4880       60            64000      1           2            4
## 10455       7088       61            19672      3           2            3
## 10460       5519       41            30500      1           1            3
## 10464       3255       95             5800      0           0            1
## 10471       2219       80             6300      0           1            1
## 10482        138       61            20200      1           1            4
## 10491       8637       36            42800      2           1            4
## 10494       3440       55            44100      3           1            3
## 10508      18716       48            45700      0           3            1
## 10517       1419       34            29700      2           0            1
## 10530       1718       10            31500      0           0            0
## 10532       1499       77            16400      1           7            2
## 10535      12015       72            94300      6           4           19
## 10545       7328       27            46600      1           1            0
## 10570       7539       86            15100      0           3            2
## 10573       5361       68            14300      1           2            1
## 10576       3010       57            26700      1           0            0
## 10579       3075       75             9500      1           5            0
## 10582      24020       81           154000      2           4            0
## 10592        875       43            27100      3           0            3
## 10595       2657       44            24156      1           3            2
## 10601          2       17            25500      0           0            1
## 10614       2302       76            14100      2           6            1
## 10620       1944       52            10500      1           3            0
## 10632      12788       59            47800      1           0            3
## 10641       2639       63            26400     13           2           12
## 10646       5090       48            48700      0           2            2
## 10655       2007       65            15000      1           8            2
## 10658       1032       21            18700      2           0            5
## 10661       3350       49            38700      0           3            0
## 10680       4129       72            13800      2           0            2
## 10689      23880       68            60300      3           0            3
##       acc_open_past_24mths avg_cur_bal bc_open_to_buy bc_util
## 16                       6        1234           3000     0.0
## 38                       3        6297            252    95.9
## 47                       4        3496          40510    17.5
## 77                       2       12436            977    51.1
## 88                       9       22265          19573    38.6
## 112                      3       28485           3639    90.8
## 133                      1        7561          24365    48.2
## 135                      3         626           3759     8.3
## 145                      0       21785            727    86.8
## 169                      5        2250           6572    57.9
## 180                     10        4556          52742     6.2
## 191                      3        6544           1046    87.1
## 208                     10       13707           9911    25.5
## 222                      3        2563           4884    50.2
## 226                      5       32821          31730    52.6
## 231                      7       15595          35767     4.1
## 243                      2        4434           7127    35.2
## 244                      6        3019          19258     7.4
## 250                      2      120139           4800     0.0
## 260                      8        2024          21822     9.1
## 271                      5        3441           2278    74.7
## 277                      9       15764          22824    49.4
## 284                     10       14988           4445     9.3
## 292                     16        6432          15220    18.2
## 295                      4       21399          43115    13.6
## 311                      2        5198            605    95.5
## 355                      3        9766           1050    82.5
## 376                      8       28673           8551    63.5
## 385                      5       39719            108    84.6
## 392                      4       18688          30404    34.3
## 400                     11       14452          11750    58.6
## 402                      6       16001          17831     9.0
## 413                     11         930           2291    69.0
## 421                      8        3314           1281    84.4
## 423                     14       10686          13326    49.3
## 424                      9       33173            304    96.6
## 440                      2       46872           4096    54.0
## 444                      2       54026           2907    85.6
## 509                      4        3984          32124     7.7
## 524                      8       27792            500    80.0
## 542                     14        3289           3323    44.6
## 581                      1       59514           4209    67.6
## 593                      3       17433           6057    45.9
## 620                      9        3407            957    92.6
## 669                      6       22744          53742    34.3
## 679                      4       24564          38537    22.8
## 695                      6       12775          34221    53.6
## 698                      4       13505          20402    29.2
## 726                      8        8810           9055    10.3
## 750                      6        1612          44978    12.5
## 755                      4        1796           5440    73.5
## 791                      6         812          33972     5.9
## 796                     10       10894          22982     6.6
## 805                      5       13048          28874     3.8
## 806                      8       14311           3080    46.9
## 821                     10        4684          10433     6.8
## 837                      9       21515          12676    58.6
## 841                      4        1896          20342    30.1
## 843                      8        4771           7591    48.4
```

```
## 860                    2       6317         26394    11.4
## 862                   11      18903          1607    85.9
## 891                    9       3411          1652    52.8
## 911                    5      11187          1931    67.8
## 921                    3      20343         25904    54.8
## 930                    4      26524         15916    48.2
## 952                    4      40553          3359    82.6
## 956                    8      34392           751    83.3
## 958                    2      18121          2336    49.2
## 967                    2      84418           133    99.4
## 974                    5      43379           193    98.0
## 982                    3       7143          1400     0.0
## 1014                   3       5660          1774    60.6
## 1022                  13      26918        100479    31.6
## 1045                   9       3041         18123    20.5
## 1051                  10      20181          3919    71.4
## 1075                   6      11867         38948    29.1
## 1097                  11       1390         36423    22.0
## 1099                   5       5073           575    96.3
## 1104                   4       3377         13141    37.4
## 1107                   5      19110         41320     0.4
## 1119                  13       7688         43388    13.4
## 1125                   2       5092           256    68.0
## 1166                   3       3290         16240    35.8
## 1167                   3       8104           413    92.6
## 1172                  11       4523         40400     3.3
## 1173                   3       4054          2009    87.0
## 1175                   0      50789           302    97.8
## 1177                   3      27174         25681    27.5
## 1193                   4       7955          4264    57.4
## 1200                   4      15679          5258    55.4
## 1206                   3      26521            88    98.2
## 1223                   0      86367          5300     0.0
## 1230                   4      20379          8004    51.2
## 1238                   4       4562          3268     0.0
## 1245                   9       7701         20629    17.5
## 1250                   8       2629          7460    76.2
## 1272                   1      37288         13085    34.6
## 1282                  12      23432          5908    51.2
## 1283                   5       7344           765    96.7
## 1298                   2       2299          7739    68.5
## 1300                   6        597           513    82.9
## 1308                   3      15922          2000     0.0
## 1321                   6       3869         17539    43.4
## 1322                  14      54925         10202    44.6
## 1327                   9      11485          9793    52.0
## 1374                   5      24439         10177    25.7
## 1378                  11      17523          5088     7.5
## 1385                   5      15617          5287    37.8
## 1411                   3      19747         13304    48.8
## 1415                  13      11176         21449    28.5
## 1463                   5      25969         11615    28.7
## 1517                   7       7384          9955     3.3
## 1531                   9       8049         17615    15.3
## 1598                   5      46509         37285    41.0
## 1609                  11       1698          8344    37.3
## 1638                   2      37648           649    88.8
## 1684                   4       2842           144    98.2
## 1710                   7      30406          5963    42.7
## 1713                   5      25397         38158    17.0
## 1722                   9      25433         43394    35.1
## 1733                   3      37435         23974    40.1
## 1742                   4     111304         20396    11.3
## 1770                   8      51055          3915    79.9
## 1777                  19      11219         72843    14.5
## 1779                   0       5841           990    94.0
## 1781                   3      24172         20392    46.1
## 1808                   2      43435         40442     6.4
## 1814                   3      22761           846    92.8
## 1832                   4      59078           227    94.7
## 1834                  11      36480         11176    57.3
## 1841                   5      33369          7884    68.2
## 1858                   3       1398           129    95.4
## 1872                   3       2417           714    93.6
## 1888                   7       1137         37312     1.3
## 1908                   5       4569          2127    69.6
## 1912                   5       1466         26029    31.5
## 1918                   6      13695         23635    50.2
## 1923                   9      27161         81375     5.4
## 1931                   4      13881         17230    24.1
## 1940                   8       1849          6923    40.8
## 1941                   9       7117         19214    22.2
## 1966                  10       7855          5486    44.0
## 1967                  11       3397          9470    44.9
## 1969                   1      14553           399    94.8
## 1993                   3      30083          9333    49.8
## 2000                   1       4491         53319    19.3
## 2020                   4      15281         10989    60.0
## 2021                   2      16331         53250     4.6
## 2022                   4      13281          2704    82.0
## 2024                  14       5548          7106    63.4
## 2062                   1       2648         30843    20.7
## 2064                   2      16754         13769    38.0
## 2110                  11       5526         31650    25.9
## 2134                   3       7009         20817    23.5
## 2141                   6      20840          9704    40.8
## 2152                   2      23703         21059    54.6
## 2164                   4      24068          6500     0.0
```

```
## 2188          5      12259       2791    39.3
## 2195          3      21322       2970    83.4
## 2205          3      12383      29533    34.9
## 2223          4      21028      36651     6.0
## 2228         13       9954        143    92.8
## 2237          7      12287       2607    76.3
## 2266          3       4646       6223    62.5
## 2269          3      15903       8033    62.1
## 2276          5      31858     111386    30.4
## 2282          5       4657       1895    82.1
## 2291         11       6952      13602    28.0
## 2299          8       1725      11084    35.9
## 2309          6       3055       1981    61.9
## 2311          3      10960      11807    80.7
## 2317          2      42338        726    99.5
## 2324          9       1863       6622    58.6
## 2360          3       6048      51135    17.3
## 2366         14        929      73425    10.7
## 2372          1      42740          0   100.7
## 2391          4      15696        248    96.7
## 2451          6      35735      10638     0.6
## 2466          9       2022       5505    62.8
## 2487          5      24017        172    97.1
## 2498          8      46231       1753    52.6
## 2507          3      37433       2037    81.5
## 2553          4      34321      31636     2.1
## 2570          9       2765      36079     5.3
## 2573          3      13846      20232    42.4
## 2594          5       7955      21424    23.2
## 2632          8      17655       2586    60.8
## 2644          7      28848      17618    43.0
## 2665          4      18894       2630    74.2
## 2666          3       9026       5755    64.7
## 2680          6       3507      27102     1.8
## 2682          5       1233       2145    74.2
## 2688          5      80258       9561    32.2
## 2697          4       2417        458    88.6
## 2704          2       7663      25555     7.1
## 2739          4       1813       4559    62.6
## 2741          3       7235       4547    82.4
## 2750          6       1550       4074    16.9
## 2751         10      16469      18893    30.8
## 2754          3       1643       1809    74.2
## 2762          5      21575      15952    24.8
## 2764          4      19731       1318    52.9
## 2778          4      71351       3824    49.0
## 2802          5       2254      22301     1.8
## 2818         12      33954       1740    35.6
## 2822          4       5034      40154    14.9
## 2841          6       1959       5298    32.1
## 2848          6      20182      17312    24.1
## 2888          8      14173      23757     8.6
## 2922          6      28216       5400    82.6
## 2941          2      41308          0   100.0
## 2956          8       2564      11232    49.2
## 2970          4      28553      14563    21.3
## 2986          8       1985      13216    36.5
## 3006          5      15949       4275    28.8
## 3030          2      22571      11012    32.4
## 3035          2      22670        769    91.4
## 3044         12      35162       2480    83.5
## 3048          2      10860       4898    62.3
## 3063         11      11058      26288    16.0
## 3064          9       7839      13064    34.0
## 3072          2      44195       4798    62.8
## 3080         10       2463       8281     4.8
## 3082          6      17958      29892    16.7
## 3097          5      22811      20820     1.3
## 3098          9      34564      10018    37.4
## 3135          2      11306       3232    46.1
## 3151          1      28225        520    97.9
## 3153         10       7385      18520     7.9
## 3171          3      10908      12994    43.7
## 3205          5        526      15320    21.0
## 3217          7       5356        608    97.4
## 3225         12       7675      53400     7.0
## 3227          5      31205        586    80.5
## 3234          3       8376      34139    21.5
## 3239          9       9768      44416    18.9
## 3247          2       6343       2079    91.3
## 3331         10       8626       6762    25.7
## 3334          5      25624      11329    19.7
## 3372          5       4096       7413    57.9
## 3379          8       2137      13800    37.8
## 3393          6       4401       1376    87.0
## 3395          5      31556        500     0.0
## 3403          4       4953      13244    44.6
## 3410          4       8458         27    99.6
## 3413          6       2512       1033    88.6
## 3417          6      35232       2203    82.8
## 3487          5      20290       6592    80.6
## 3513          4       3308      11149    72.1
## 3521          5      27616      48515     1.0
## 3532          6       3719       9272    64.9
## 3558          6      17424       6355    37.1
## 3562          1      14757      20725    33.1
## 3571          8      11318      25124    41.4
## 3574          3       6017       9429    18.0
```

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## 3581                0       1658            0   100.8
## 3589                8       4875        12256    11.2
## 3605               15      15218         6623    15.1
## 3630               11       4118         4209    58.3
## 3631               11        269        12887     0.1
## 3640                2       5040        36688    43.2
## 3642                7      28063        13521    44.4
## 3644                7        419         9302    16.9
## 3653                1       3608        23906    41.3
## 3662                6       1503        10097    11.4
## 3663                8      45858        32069    39.5
## 3691                3       1643         1257    91.9
## 3713                4      25029        62049    10.8
## 3726                6       2276        27219    30.7
## 3746                8      10446        26453     5.5
## 3751                4      17142         7113     2.6
## 3757                8      28850         1166    74.7
## 3761                6      10522        25734    42.6
## 3763                3       2355         8886    64.2
## 3770                8       2416         1760    75.2
## 3774                0       9320         1371    57.2
## 3775                3       1217        39911     2.2
## 3786               12      18429        21929     2.5
## 3809                5       2066         1425    75.0
## 3824               10       4133        14373    45.1
## 3832                5       2371        11531    34.1
## 3845                4       3243        13261     6.0
## 3864                5       4983         3887    55.8
## 3877                1      37803           16    99.6
## 3890               18      13439        29101    25.2
## 3907                5       7324        17515    29.7
## 3918               14       8054         8671    24.6
## 3925                4      23665         4142    37.2
## 3927               16       1450         9384    27.3
## 3945                8       3967         2790    59.6
## 3946                6      11175        23706    26.4
## 3972                8      19021        11672    38.9
## 3986               11      26534         9854     6.2
## 3988                4      10147        12179    35.6
## 4008                5      14835         2191    43.8
## 4015                7        791         4679    57.5
## 4039               10       1384          101    94.4
## 4047                2       2759        37031    13.9
## 4056                2      68055         3300     0.0
## 4076                2        996         8120     2.2
## 4090                9       4286        25069    14.7
## 4103               11       8296        33727     4.5
## 4160                9      15174         8822    34.7
## 4164                5       2677         6796    57.0
## 4188                5      16490         3529    50.3
## 4222                4       3302         3166    44.6
## 4231               11       1395        16144    32.7
## 4236                5       5663         2700    94.8
## 4256                8      17716         8425    48.9
## 4282                8       1744         4095    43.9
## 4286                7       4655         9169    32.1
## 4306                9      10892        14817    35.6
## 4308                6       1405         7165    46.5
## 4313                3       3013         9888    57.0
## 4355                3       7103         3010    41.0
## 4358                6       5788        28435    34.6
## 4375                1       4623          139    96.0
## 4383                2      47394          582    97.6
## 4387               14       5641       135380     6.9
## 4404                1       2904         4124    52.0
## 4420                4      21111         5706    66.8
## 4449                3       4593        23313    22.3
## 4455                7      18117        28182    21.3
## 4463                7      10133        11088    21.4
## 4490               13      18689        13376    21.3
## 4495                3       2454        23758    18.9
## 4505               11        808        18641    28.6
## 4507                5      17821         2505    83.8
## 4540                2       3935        19285    28.3
## 4553                5       6613          933    89.4
## 4579               11      17846        26412    20.4
## 4591                1      44156         9704    59.4
## 4593                5       1698         3476    51.7
## 4599                3      29259        20682    63.8
## 4607                2       1821        13047    22.8
## 4636               10       5303        48060    36.6
## 4659               11      12437        39490     2.0
## 4667                2      11708         5296    84.4
## 4670               14       7294        46246    34.3
## 4676               11      29720        89486    17.1
## 4678                6      56528        45047    48.3
## 4679                5      29354         8068    59.7
## 4687                1      21360         3548    80.2
## 4697                1      22908         6314    69.2
## 4709                7        665        14484    15.8
## 4725                6       1839         1259    58.0
## 4741                9       9083        18611    45.6
## 4777               13      41950        23614    44.4
## 4781                5      12812        12768    11.9
## 4796                5       6240         4883     2.3
## 4807                6      15198         3487    89.6
## 4808               19      18108        65523     6.3
## 4822                4      22450         1785    84.6
```

```
## 4830                5       7274        17160   41.4
## 4849                9      20839         6749   42.8
## 4853                6      30586          446   92.9
## 4854                8      19359        30601   42.7
## 4859                9       1717         7410   25.2
## 4897                0       3861         1595   81.2
## 4966                6      51801        15000    0.0
## 4975                6      23115         1584   88.1
## 4991                5       5648        16900    0.0
## 5016               10       4941         2844   62.6
## 5020                6      13876         3640   44.0
## 5024                6       1619        12557   19.0
## 5026                3       5243         5072   69.1
## 5040                1      31071          389   98.1
## 5058                6      16668         3642   53.3
## 5078                4       9939        24198   46.6
## 5082               11      27822          959   93.6
## 5092               12      14858         9530   20.6
## 5140               12       5121        59757   10.0
## 5143                4       3988          163   90.9
## 5148                2       2484        33900    0.0
## 5188                3      10486          255   96.6
## 5203                6      18116         1701   84.7
## 5214                3       1804          492   90.9
## 5224                4       9593        11979   45.5
## 5229                7      13506        45705    1.3
## 5281                6      29679         2282   28.7
## 5290                2       8768         9578   78.3
## 5310                4      14267          150   96.3
## 5327                8       4823          950   70.3
## 5331                5      20500        21645   20.7
## 5334                4      10282        19069   21.2
## 5335                9       7392        24492   58.5
## 5336                6      11591         3338    4.6
## 5349                9       8566        20679   19.2
## 5353                7      20609        12250   55.9
## 5370                2      68364        48318   23.2
## 5381               14       1989        15406   38.6
## 5385               16        710         3823    6.8
## 5396                5       3258        18225   16.4
## 5408                7       5144         6994   70.1
## 5415                8      41470        14666   34.2
## 5424                4      17429         3907   67.4
## 5428                8       1719        50643    5.9
## 5450                4       6965         1447   42.1
## 5474                9      19896        11919   11.7
## 5480                0       7117         1991   76.6
## 5486                7       2477         4200    0.0
## 5509                4      38523         1798   21.8
## 5518                2        501         6377    0.4
## 5523                6      24586         7337   73.2
## 5534                3       2627        14288   20.6
## 5536                6       3292        18023   24.3
## 5541                8       3061        25301   18.4
## 5551               12       3306        36728    0.2
## 5557                4       7870          800    0.0
## 5562                7       2818         4413   49.9
## 5584                2       3777        18314    3.6
## 5588                6      10347          300    0.0
## 5598                5      42877          978   78.3
## 5599                3       2101         4345   51.7
## 5625                3       7952        27442   39.8
## 5626               14      11680        15880   51.7
## 5633               14      21488        12887   56.9
## 5641                5      26605        15321   10.4
## 5674                5       9756         1622   80.9
## 5693                5      31708          303   90.8
## 5697                3      14125         2616   77.8
## 5704                5       4687         8916   76.3
## 5712               16      16361          970   65.4
## 5761                2        920         7261   42.4
## 5763               17       1138        41039    1.1
## 5796                5       1706         1071   84.5
## 5797                5       2089         2116   86.3
## 5800                8      15172        12428   15.5
## 5808                8      33749         3756   86.2
## 5812                7       2717        15111   38.6
## 5814                4      29180        20556   81.8
## 5819                5       3546        19775   30.4
## 5824                2       2219        17060   46.9
## 5833                1       3030        23948   31.4
## 5851                8      28629        26397   19.8
## 5857                4       3189        28568   44.3
## 5862               15      21741         7818   78.4
## 5866                3      42419         5688   80.2
## 5873                4       2785        18546   26.7
## 5877                4       1004        10559   18.8
## 5891               12      13270        25875   40.9
## 5914                7       4005        23116   28.7
## 5936                6       1368        57915   16.5
## 5961                2       2408          256   85.8
## 5969                6      25147         5257   41.6
## 5983                3       1755         6020   51.8
## 5984                8      74297        23487   21.7
## 5993                6       1706         7120   51.2
## 5995                6       9287         3481   71.0
## 6016                6       5444         3136    5.0
## 6022                5      16526         3778   55.6
```

```
## 6026                5        4963          1030    79.4
## 6040                8        2822         19198    26.4
## 6042                5       14377         38757    29.8
## 6058                0       33735         28534    54.5
## 6067                3       14749          5862    62.4
## 6081                1       20588         30849    25.3
## 6095                4       56443         38660    25.7
## 6098                2        5028          6250    49.2
## 6103                8        2448         10075    12.4
## 6107                6       10246         25400    23.7
## 6108                6       13285          3644    59.1
## 6110                6       36435          6230    73.6
## 6112               10        1408          7669    45.6
## 6125                8        3314         24025     6.9
## 6137                9       15402         21533    24.2
## 6143               17       13389         21599    15.6
## 6153                8        6572          3219    59.8
## 6166                4       20066         23489     2.5
## 6198               10       17624          4888    57.5
## 6215                4        3444         12364    53.5
## 6216               11       20355         28963    12.5
## 6220                5       32018          8782    69.8
## 6226                5       49589          5208    67.0
## 6235                5       19182          9663    54.6
## 6245                9        1786          7128    46.4
## 6252                4       18558          5372    56.7
## 6261                9        1092         26647    15.1
## 6268                0        2011          5057    62.5
## 6302                3       15854          1649    41.1
## 6304                8        1588           725     9.4
## 6331               11       13757          2582    87.9
## 6337                4        5275          9490    17.5
## 6373                6       46456         35869    52.6
## 6379                4        6330           432    52.0
## 6397                7        2570         13888    15.8
## 6401                7       24551         35255    23.7
## 6438                4        8179         15757    64.3
## 6442                1        6996           458    96.3
## 6447               21       25577         12817    44.5
## 6450                5       65061          3045    85.1
## 6464                4        7789         11063     8.6
## 6506               10       14736           767    73.6
## 6513                3       23194         10587    32.1
## 6519                7       30923          6423    19.7
## 6520                4         706         23162     5.1
## 6580               10        5582          8240     4.2
## 6616                4        6846          4115    17.7
## 6652               15        5350         18100     0.0
## 6667                3        5532           670    60.6
## 6688                3       45212           141    99.2
## 6693                4         496          1600    68.6
## 6727               12       31492          8069    84.9
## 6732                5        6512         14116    19.8
## 6735                1        3944         24023    35.1
## 6746                6        2870         10961    55.6
## 6754                6       23692         10424    51.7
## 6770               13        1560          6297    33.0
## 6789                7        9326           369    97.4
## 6803                4       21185             0   100.9
## 6819                4        5869          1534    48.9
## 6820                3       33808           618    86.3
## 6822                7        5459          3162    70.4
## 6824                6        4586          2872    64.1
## 6834                6        5419         15424    21.3
## 6841                3        5789         14651    39.5
## 6843                3        3316          8072    27.3
## 6858                4         771          4109    72.2
## 6860                1        2431           873    32.8
## 6889                3        7483           213    76.3
## 6891                5        1121         12715    40.0
## 6894                8       45315         28443    46.3
## 6896                4        1604          5481    30.6
## 6899               10       18340          3784    76.8
## 6900                4       24643         16350    35.6
## 6917                4       22161          5045    59.0
## 6919                5       26660             0   102.6
## 6923                1        2179          4502    74.1
## 6934                4       46038            66    96.7
## 6941                4       36818           869    96.3
## 6954               10         370         15284    13.2
## 6957                5       14521         21870    32.7
## 6960                3        5795         16888    59.3
## 6962                6       17020         16051    13.7
## 6965                1        2585           522    73.9
## 6971                4       57492          9635    66.4
## 6977               12        1357          6424    43.2
## 6989                8       23288          1454    89.6
## 7001                6        5005         18319    37.9
## 7008                6       17995          2334    45.7
## 7009                3       42793          5308    41.0
## 7012                4       19130         10528    17.8
## 7017                4       21516          4192     8.9
## 7033                3        6209          3419    68.3
## 7037                4       21419          1426    90.8
## 7057                7        2578          4619    80.7
## 7060                3        1887          3106    41.4
## 7064               13       12592         20486    29.6
## 7085                8        4753          6502     7.1
```

```
## 7129          5       8282        18027    33.7
## 7138          6      40489        67887    46.5
## 7145          9      17740         1007    64.0
## 7160          2       3988        47800     0.0
## 7174          4      19205        18453    34.1
## 7187          6       4879         8411    50.5
## 7189          9       4041        14694    47.3
## 7215          4       1994         3123    64.1
## 7216          3       4451       110408    11.4
## 7238          2       3569         2865    75.5
## 7266          7       1216        20317    15.3
## 7271          8       2450        30230    19.0
## 7281          8      25816         7397    54.6
## 7284          5      67009        21431    92.5
## 7318         10       8277        21034    36.6
## 7343          3      25518         5853    76.1
## 7354          4      11956        14135    74.1
## 7373          4       3354        12913    36.7
## 7380          7       3193        10915    23.8
## 7382          2      13124        19172    66.0
## 7383          3      42290        19304    27.2
## 7411          4       6850           25    99.7
## 7439          3       2655         3289    42.3
## 7466          7      34244         2805    64.5
## 7476          8      19668         5699    52.9
## 7521          1       6162          498    88.9
## 7522          8       7163        33616    29.1
## 7544          2      28021        31927    36.8
## 7548         11      12060         3410    31.8
## 7560          8       9216        19412    49.4
## 7578          7      17048         4872    87.4
## 7581          3      49833         5932    57.6
## 7583          2       4765          521    94.1
## 7616          2      12645         2186    92.3
## 7628          6      19689            0   100.9
## 7641          2       1985         2497    54.6
## 7648          4       1019         8055     6.3
## 7664          5      20196         5235    88.5
## 7682          4       8135         6927    12.3
## 7736         12      10769         1005    95.4
## 7750          4      11149         7082    82.2
## 7753          6      62697         4078    29.7
## 7775          7       1257        20314    39.4
## 7785          6       2884        16113    31.4
## 7799          7       9996         3087    49.4
## 7809          3       1851         7728    25.7
## 7810          4       1764       121018     3.1
## 7812          0      19248         1490    95.7
## 7815          3      13708        16861    71.0
## 7825          7      37895        18163    78.4
## 7830         12       3517        11762    40.0
## 7845          5       2706         1261    87.0
## 7863          6      11117         4982    75.8
## 7867          6       6054         3999    62.6
## 7877          7       2048        12140    19.1
## 7886          3      18980         2768    77.3
## 7892          4      50335         6230     1.1
## 7897          4       1047         2338    35.1
## 7906          4       9856         8066    84.2
## 7927          7      14366         7178    68.8
## 7943          8      14687          728    93.7
## 7970         12       1485        32650     6.2
## 7994          4      19720         3025    76.0
## 8010          6      15772         4065    65.6
## 8016         10       1840         1253    26.3
## 8045          6      17379         8900     0.0
## 8081          2      22763        18583    48.8
## 8090          7       1382          818    18.2
## 8114          1       1302         2857    40.5
## 8124          4       2665         6162    56.3
## 8131          3      18408        12529    44.1
## 8139          2      19130         2478    68.2
## 8150          2       5391        11874    64.9
## 8158          1       3072          176    93.7
## 8163          6      25802        15100    11.2
## 8168          1       1976         3250    85.6
## 8191          4      31798         3975    67.7
## 8205          6      21066        14947    78.1
## 8219          0      12512        13146    22.7
## 8225         19       2945         2085    62.8
## 8251          6      36336         2605    87.4
## 8253         10      32726        16191    56.4
## 8263          3      25342        40505     6.2
## 8271          8       1439         3025    51.2
## 8285          8       4696         3922    64.7
## 8296          4      43299         6297    72.0
## 8300          2      34171        27763    30.6
## 8326          4      12902        24005    12.7
## 8343          5      59175         4840    56.8
## 8349          7       7181        22757    17.2
## 8365          2       2855         2634    81.2
## 8381          6      27471         5157    80.6
## 8398          7      21847          623    90.4
## 8402          2      15765         9009    34.7
## 8422          2       1914        10915    41.9
## 8423          4      23851         1095    91.8
## 8442          8       2781         7784    35.1
## 8458          2     100384            0   101.2
```

```
## 8468                 11       20472          594    96.7
## 8469                 15         830         2544    79.0
## 8486                  4       31044         5213    62.8
## 8508                  4       26751        10300    60.4
## 8521                  8        5102        63675    30.8
## 8527                 10       13410         4692    81.7
## 8551                  7       20404         3973    18.9
## 8561                  6        4616         2996    85.6
## 8591                  2       21855         1857    81.1
## 8604                  5       15063        15922    29.5
## 8613                  9        3993        55632     5.7
## 8615                  4        2827          248    94.2
## 8616                 11        2115        15154    37.1
## 8628                  8       32763         8571    50.5
## 8629                  2       28488          494    83.0
## 8642                  6       28558        16965    24.6
## 8643                  4         523        24357     1.0
## 8650                  4       10825        22062    70.7
## 8660                 20        6217        13388    27.6
## 8662                  3        3160         9137    48.7
## 8683                  5       40385         6186     7.7
## 8689                  9       11940        14398    25.4
## 8700                 11        2862         5428    57.6
## 8703                  9       34615         2511    85.3
## 8705                  8       28229        14714    39.4
## 8708                 10        1215        14557    16.8
## 8731                  2       72825          930    93.6
## 8737                  4        6244         8515    39.6
## 8739                  3       24521        11363    36.9
## 8744                  4        2957         3641     4.2
## 8769                  0        8351          144    99.6
## 8797                  2        1721          553    90.3
## 8818                  2        5891        11117    48.5
## 8820                  1        6180        21932     9.5
## 8821                  9        5134        17425    11.3
## 8837                  5       23811         1151    93.1
## 8843                  1       32422         8485    58.0
## 8844                 11       17126        70355    10.8
## 8848                  5        3123         4230    53.5
## 8858                  2       11248         7086    54.3
## 8869                  5       20707         5495    30.4
## 8881                  3        3405          882    85.3
## 8882                  6        3544        12425    39.1
## 8887                  7         813         4060    51.1
## 8892                 18        2022        10261     2.3
## 8894                  6       11597        12380    19.1
## 8899                  3       32885         3887    69.9
## 8903                  5        5212          131    56.3
## 8908                  3        1635        12706    35.5
## 8925                  4        1158        11688     1.8
## 8932                  3        5688        21828    13.0
## 8947                  9        9214        29739    37.8
## 8964                  1        4550         7382    60.1
## 8986                  6        1999        15381    52.7
## 9008                  8        2060          738    43.2
## 9011                  1        2024         5000     0.0
## 9013                 10        1461        17950    16.5
## 9021                  4       26123         2396    40.1
## 9023                  1        1157        14243    21.3
## 9054                  6       49529         1062    94.8
## 9084                  3        2755         1975    86.5
## 9088                  3       45581         2268    26.8
## 9129                  7         149        15566     5.7
## 9142                  5       28818        27398    16.0
## 9146                  4       16124         6504    57.8
## 9168                 13       22424        20232    11.3
## 9175                  6       36895         9606    26.1
## 9185                 14       16269       105209    12.1
## 9191                  5       51903          459    81.6
## 9206                  4       24229       109234     0.2
## 9208                  5       15720        23695     4.1
## 9235                  5         955        25190    18.2
## 9269                  8       11704        21347    43.2
## 9287                  5       22131         2417    73.1
## 9313                  5       14109         1815    13.6
## 9317                  3       22219         2157    13.7
## 9318                  7       15529        38809    10.8
## 9322                  5        5273          576    90.9
## 9349                  3       15721        20529    39.1
## 9359                  4        5461        14920    15.7
## 9360                  3        4959         2775    76.9
## 9368                  4       69101         7473     6.6
## 9369                 10       13878        20903    33.4
## 9389                 16        8739        29400    40.0
## 9417                 10        1721        10039    23.4
## 9420                  2       26069        15143    43.5
## 9423                 11       33960         7752    18.4
## 9428                  5        9845         6082    42.1
## 9449                  3        1522         9888     0.1
## 9490                  2        9067        33240    13.2
## 9494                  9        1388         6042    51.7
## 9513                  5        2847         6777    61.3
## 9518                  5       24680         2290    56.8
## 9533                  2       24838         2106    61.0
## 9548                  4       28531        14554    43.6
## 9561                  6       27868         8503    61.0
## 9563                  3        4078         7908    30.0
## 9568                 10       17059        22684    39.3
```

```
## 9576          11       4738        4413   62.0
## 9588           3      19599        5942   59.6
## 9634           7      37246        5274   59.1
## 9645           6       1363        4576   53.3
## 9660           5      10567        3227   86.7
## 9663           3       1094        8794   24.2
## 9675           5       3627        9915   10.7
## 9678           5       3959       11108   50.8
## 9686           8       1882        5197   73.9
## 9707          10      23721        4373   66.4
## 9708          12       1834       15954   17.0
## 9720           4      54424        6724   63.7
## 9724           8       1598       26568    3.0
## 9730           6       8608        4913   47.2
## 9739           1      10231         186   98.6
## 9749           2       2729       44420    9.2
## 9759           8       1350       17675   33.0
## 9771           2        925       18520   28.2
## 9802           3       3888        3590   31.0
## 9807           3       3478         576   93.7
## 9818           6       1205        3265   40.6
## 9822           4       6946        7450   19.9
## 9823           4       3813       22000    0.0
## 9869           5       2799        8730   33.9
## 9885          10       5784       11252   22.4
## 9916          25       2628       22350   26.7
## 9935           5      35239         840   76.0
## 9965           8       3025        8180   36.6
## 9981          10      21834        5075   65.0
## 9985           4      33463       22876    6.2
## 9986           5      19389        1000   77.8
## 10009          8        291       15963    5.5
## 10012          6       6728         920   83.0
## 10027          4       3068       35705   26.8
## 10068          9       3546       40283   12.0
## 10074          7       9851       34531   53.5
## 10076          5       5788       45876    3.4
## 10092          8      29106        2544   60.9
## 10101          3       3190         233   89.9
## 10124         12      47422         860   87.9
## 10128         14       7782       43521   26.1
## 10129          3      12818       20043   32.3
## 10141          4      12581        1089   80.2
## 10142          2      16532       44956   42.7
## 10163          6       1654       69495    7.5
## 10165          9       8096        4348   38.8
## 10179          4       1671        5088   63.9
## 10188         11       1663        9407   54.3
## 10210          6      19858       36245   21.0
## 10220          6       3430         754   69.8
## 10221          2       5198       11623   35.4
## 10240          9       3258       18166   33.5
## 10246          2      20407       27691   49.9
## 10249          5      15683       13548   66.6
## 10262          4       1084        2931   49.5
## 10265         11        929       69593   15.0
## 10278          9       1300       18766   44.3
## 10288          3      22328       28000    0.0
## 10319          3      11732       11932   45.0
## 10328          2       4407         346   94.2
## 10329          5      18542        2399   79.5
## 10335          7      17383       23312   34.6
## 10339          2      25565        8560   52.4
## 10366          3       1354        6393   46.3
## 10371          4      12121       35880    1.7
## 10385         10       7562       30278   27.0
## 10387          7       5126       77948    3.7
## 10417          2      45781         717   82.1
## 10448          8      33237       11303   72.4
## 10449          5      65326         525   92.8
## 10453          5       3974       24358   48.8
## 10455          2       6195        1112   86.4
## 10460          5       6094       10685   46.6
## 10464          2      13157         460   92.1
## 10471          4       7580         166   95.0
## 10482          5      60988        3862    3.5
## 10491          4       8127       32307   22.9
## 10494          6      10514       25144   27.1
## 10508          2      19800       24384   43.4
## 10517          5       1126       12026   22.9
## 10530          2      10417       28962    8.1
## 10532          8       3556        1435   64.1
## 10535          7      12413       11633   76.0
## 10545          3       1084       17762   37.0
## 10570          4       5612        3340   73.9
## 10573          6       3387         939   90.9
## 10576          5       1647        6487   56.5
## 10579          2      12595        1826   79.7
## 10582          5      65385        8570   91.9
## 10592         15       1209       23625    3.6
## 10595          6       1069         936   87.5
## 10601          1       1383       24798    0.0
## 10614          7      16802        4508   59.8
## 10620          4      42248        1923   63.0
## 10632          6      12844       24692   48.3
## 10641         16       2855       10531   24.2
## 10646         10      21862       34287   24.1
## 10655          7      18657        9345   25.2
```

```
## 10658                    3         883          12919     7.7
## 10661                    2        2257          13651    34.7
## 10680                    3        4072           1423    85.5
## 10689                    2        8071           4075    91.3
##       chargeoff_within_12_mths delinq_amnt mo_sin_old_il_acct
## 16                           0           0                 13
## 38                           0           0                147
## 47                           0           0                130
## 77                           0           0                155
## 88                           0           0                190
## 112                          0           0                183
## 133                          0           0                129
## 135                          0           0                 11
## 145                          0           0                 35
## 169                          0           0                137
## 180                          0           0                149
## 191                          0           0                119
## 208                          0           0                303
## 222                          0           0                 64
## 226                          0           0                 77
## 231                          0           0                129
## 243                          0           0                 66
## 244                          0           0                134
## 250                          0           0                 98
## 260                          0           0                126
## 271                          0           0                 89
## 277                          0           0                 90
## 284                          0           0                124
## 292                          0           0                145
## 295                          0           0                138
## 311                          0           0                124
## 355                          0           0                248
## 376                          0           0                124
## 385                          1           0                196
## 392                          0           0                145
## 400                          0           0                148
## 402                          0           0                166
## 413                          0           0                221
## 421                          0           0                  4
## 423                          1           0                130
## 424                          0           0                130
## 440                          1           0                195
## 444                          0           0                130
## 509                          0           0                167
## 524                          0           0                 98
## 542                          0           0                193
## 581                          0           0                153
## 593                          0           0                157
## 620                          0           0                174
## 669                          0           0                206
## 679                          0           0                 76
## 695                          0           0                142
## 698                          0           0                 38
## 726                          0           0                158
## 750                          0           0                 68
## 755                          0           0                 98
## 791                          0           0                136
## 796                          0           0                134
## 805                          0           0                146
## 806                          0           0                149
## 821                          0           0                162
## 837                          0           0                216
## 841                          0           0                128
## 843                          0           0                 97
## 860                          0           0                163
## 862                          0           0                219
## 891                          0           0                134
## 911                          0           0                122
## 921                          0           0                 62
## 930                          0           0                165
## 952                          0           0                235
## 956                          0           0                129
## 958                          0           0                137
## 967                          0           0                115
## 974                          0           0                150
## 982                          0           0                140
## 1014                         0           0                125
## 1022                         0           0                140
## 1045                         0           0                145
## 1051                         0           0                139
## 1075                         0           0                 42
## 1097                         0           0                 85
## 1099                         0           0                170
## 1104                         0           0                135
## 1107                         0           0                132
## 1119                         0           0                103
## 1125                         0           0                 97
## 1166                         0           0                155
## 1167                         0           0                 59
## 1172                         0           0                131
## 1173                         0           0                148
## 1175                         0           0                138
## 1177                         0           0                141
## 1193                         0           0                 70
## 1200                         0           0                160
## 1206                         0           0                146
## 1223                         0           0                159
## 1230                         0           0                 48
```

```
## 1238                    0          0              146
## 1245                    0          0               96
## 1250                    0          0               88
## 1272                    0          0              187
## 1282                    0          0              180
## 1283                    0          0              145
## 1298                    0          0              120
## 1300                    0          0              124
## 1308                    0          0              205
## 1321                    0          0              138
## 1322                    0          0              188
## 1327                    0          0              114
## 1374                    0          0              130
## 1378                    0          0              123
## 1385                    0          0              131
## 1411                    0          0              202
## 1415                    0          0              159
## 1463                    0          0              122
## 1517                    0          0              175
## 1531                    0          0              138
## 1598                    0          0               54
## 1609                    0          0               36
## 1638                    0          0              120
## 1684                    0          0              117
## 1710                    0          0               96
## 1713                    0          0              177
## 1722                    0          0              168
## 1733                    0          0              111
## 1742                    0          0              138
## 1770                    0          0              139
## 1777                    0          0              136
## 1779                    0          0              146
## 1781                    0          0              142
## 1808                    0          0              138
## 1814                    0          0              163
## 1832                    0          0              175
## 1834                    1          0              131
## 1841                    0          0              141
## 1858                    0          0              138
## 1872                    0          0              111
## 1888                    0          0              138
## 1908                    0          0               87
## 1912                    0          0              113
## 1918                    0          0               92
## 1923                    0          0              148
## 1931                    0          0              206
## 1940                    0          0              119
## 1941                    0          0               55
## 1966                    0          0               20
## 1967                    0          0               89
## 1969                    0          0              121
## 1993                    0          0              210
## 2000                    0          0               77
## 2020                    0          0              177
## 2021                    0          0              131
## 2022                    0          0              168
## 2024                    0          0               21
## 2062                    0          0              145
## 2064                    0          0              126
## 2110                    0          0              148
## 2134                    0          0              127
## 2141                    0          0              131
## 2152                    0          0              175
## 2164                    0          0              138
## 2188                    0          0              143
## 2195                    0          0              176
## 2205                    0          0               96
## 2223                    0          0              119
## 2228                    0          0              124
## 2237                    0          0              139
## 2266                    0          0              178
## 2269                    0          0              119
## 2276                    0          0              140
## 2282                    0          0              143
## 2291                    0          0               40
## 2299                    0          0              158
## 2309                    0          0               47
## 2311                    0          0              121
## 2317                    0          0              144
## 2324                    0          0               75
## 2360                    0          0               98
## 2366                    0          0               54
## 2372                    0          0               60
## 2391                    0          0              149
## 2451                    0          0              170
## 2466                    0          0               69
## 2487                    0          0              207
## 2498                    0          0              146
## 2507                    0          0              183
## 2553                    0          0              125
## 2570                    0          0              140
## 2573                    0          0              153
## 2594                    0          0              149
## 2632                    0          0              240
## 2644                    0          0              368
## 2665                    0          0              263
## 2666                    0          0              119
## 2680                    0          0              165
```

```
## 2682                    0          0                98
## 2688                    0          0                49
## 2697                    0          0                70
## 2704                    0          0               145
## 2739                    0          0               212
## 2741                    0          0               137
## 2750                    0          0                96
## 2751                    0          0                98
## 2754                    0          0               112
## 2762                    0          0                40
## 2764                    0          0               121
## 2778                    0          0               148
## 2802                    0          0                31
## 2818                    0          0               128
## 2822                    0          0               119
## 2841                    0          0                82
## 2848                    0          0               152
## 2888                    0          0               133
## 2922                    0          0               130
## 2941                    0          0               333
## 2956                    0          0               147
## 2970                    0          0               129
## 2986                    0          0               129
## 3006                    0          0               153
## 3030                    0          0               155
## 3035                    0          0               356
## 3044                    0          0               134
## 3048                    0          0               119
## 3063                    0          0               130
## 3064                    1          0               132
## 3072                    0          0               126
## 3080                    0          0               287
## 3082                    0          0               103
## 3097                    0          0               141
## 3098                    0          0               123
## 3135                    0          0               134
## 3151                    0          0                72
## 3153                    0          0               147
## 3171                    0          0               145
## 3205                    0          0               120
## 3217                    0          0               160
## 3225                    0          0               171
## 3227                    0          0               148
## 3234                    0          0               131
## 3239                    0          0               121
## 3247                    0          0               142
## 3331                    0          0               133
## 3334                    0          0               198
## 3372                    0          0               118
## 3379                    0          0               107
## 3393                    0          0               128
## 3395                    0          0                83
## 3403                    0          0               132
## 3410                    0          0               132
## 3413                    0          0               167
## 3417                    0          0               158
## 3487                    0          0               145
## 3513                    0          0               144
## 3521                    0          0               175
## 3532                    0          0               208
## 3558                    0          0               144
## 3562                    0          0               134
## 3571                    0          0               267
## 3574                    0          0                56
## 3581                    0          0               178
## 3589                    0          0               150
## 3605                    0          0               125
## 3630                    0          0               176
## 3631                    0          0                64
## 3640                    0          0               176
## 3642                    0          0               196
## 3644                    0          0                64
## 3653                    0          0               165
## 3662                    0          0                95
## 3663                    0          0               125
## 3691                    0          0                10
## 3713                    0          0               199
## 3726                    0          0               159
## 3746                    0          0               133
## 3751                    0          0               166
## 3757                    0          0               242
## 3761                    0          0               149
## 3763                    0          0               164
## 3770                    0          0               123
## 3774                    0          0               191
## 3775                    0          0                11
## 3786                    0          0               141
## 3809                    0          0               121
## 3824                    0          0               233
## 3832                    0          0               120
## 3845                    0          0                15
## 3864                    0          0               139
## 3877                    0          0               153
## 3890                    0          0                91
## 3907                    0          0               124
## 3918                    0          0                27
## 3925                    0          0                45
## 3927                    0          0               140
```

```
## 3945                    0          0                102
## 3946                    0          0                154
## 3972                    0          0                124
## 3986                    0          0                156
## 3988                    2          0                183
## 4008                    0          0                130
## 4015                    0          0                130
## 4039                    0          0                171
## 4047                    0          0                160
## 4056                    0          0                 54
## 4076                    0          0                120
## 4090                    0          0                144
## 4103                    0          0                144
## 4160                    0          0                103
## 4164                    0          0                193
## 4188                    0          0                192
## 4222                    0          0                125
## 4231                    0          0                162
## 4236                    0          0                245
## 4256                    0          0                141
## 4282                    0          0                117
## 4286                    0          0                 54
## 4306                    0          0                199
## 4308                    0          0                143
## 4313                    0          0                 10
## 4355                    0          0                224
## 4358                    0          0                128
## 4375                    0          0                118
## 4383                    0          0                124
## 4387                    0          0                 95
## 4404                    0          0                130
## 4420                    0          0                150
## 4449                    0          0                183
## 4455                    0          0                147
## 4463                    0          0                 59
## 4490                    0          0                153
## 4495                    0          0                 73
## 4505                    0          0                 68
## 4507                    0          0                195
## 4540                    0          0                137
## 4553                    0          0                152
## 4579                    0          0                213
## 4591                    0          0                173
## 4593                    0          0                 49
## 4599                    0          0                 74
## 4607                    0          0                 57
## 4636                    0          0                138
## 4659                    0          0                147
## 4667                    0          0                142
## 4670                    0          0                 89
## 4676                    0          0                153
## 4678                    0          0                127
## 4679                    0          0                102
## 4687                    0          0                 95
## 4697                    0          0                142
## 4709                    0          0                 13
## 4725                    0          0                 98
## 4741                    0          0                170
## 4777                    0          0                161
## 4781                    0          0                135
## 4796                    0          0                 77
## 4807                    0          0                180
## 4808                    0          0                174
## 4822                    0          0                102
## 4830                    0          0                139
## 4849                    0          0                133
## 4853                    1          0                101
## 4854                    0          0                140
## 4859                    0          0                135
## 4897                    0          0                 95
## 4966                    1          0                143
## 4975                    1          0                132
## 4991                    0          0                132
## 5016                    0          0                238
## 5020                    0          0                148
## 5024                    0          0                146
## 5026                    0          0                158
## 5040                    0          0                181
## 5058                    0          0                106
## 5078                    0          0                192
## 5082                    0          0                155
## 5092                    0          0                133
## 5140                    0          0                138
## 5143                    0          0                114
## 5148                    0          0                 31
## 5188                    0          0                123
## 5203                    0          0                137
## 5214                    0          0                 55
## 5224                    0          0                266
## 5229                    0          0                135
## 5281                    1          0                174
## 5290                    0          0                117
## 5310                    0          0                118
## 5327                    0          0                 58
## 5331                    0          0                148
## 5334                    0          0                141
## 5335                    0          0                178
## 5336                    0          0                209
```

```
## 5349                    0          0              141
## 5353                    0          0               49
## 5370                    0          0              158
## 5381                    0          0              127
## 5385                    0          0               98
## 5396                    0          0              150
## 5408                    0          0              146
## 5415                    0          0              161
## 5424                    0          0               42
## 5428                    0          0               28
## 5450                    0          0               90
## 5474                    0          0              142
## 5480                    0          0              106
## 5486                    0          0              121
## 5509                    0          0               69
## 5518                    0          0              166
## 5523                    0          0              189
## 5534                    0          0              137
## 5536                    0          0               79
## 5541                    0          0              143
## 5551                    0          0               95
## 5557                    0          0                3
## 5562                    0          0               80
## 5584                    0          0              139
## 5588                    0          0              134
## 5598                    0          0               27
## 5599                    0          0              151
## 5625                    0          0              156
## 5626                    0          0              153
## 5633                    0          0              129
## 5641                    0          0              101
## 5674                    0          0              166
## 5693                    0          0              154
## 5697                    0          0              155
## 5704                    0          0              146
## 5712                    0          0              162
## 5761                    0          0              146
## 5763                    0          0              167
## 5796                    0          0               83
## 5797                    0          0              255
## 5800                    0          0              165
## 5808                    0          0              148
## 5812                    0          0              162
## 5814                    0          0              127
## 5819                    0          0              135
## 5824                    0          0               15
## 5833                    0          0              111
## 5851                    0          0              177
## 5857                    0          0               92
## 5862                    0          0               76
## 5866                    0          0              143
## 5873                    0          0              132
## 5877                    0          0               89
## 5891                    0          0              170
## 5914                    0          0              160
## 5936                    0          0               24
## 5961                    0          0              168
## 5969                    0          0              146
## 5983                    0          0               78
## 5984                    0          0              170
## 5993                    0          0              139
## 5995                    0          0              159
## 6016                    0          0               99
## 6022                    0          0                7
## 6026                    0          0              173
## 6040                    0          0              120
## 6042                    0          0              141
## 6058                    0          0              140
## 6067                    0          0               63
## 6081                    0          0              177
## 6095                    0          0              267
## 6098                    0          0              120
## 6103                    0          0              138
## 6107                    0          0              141
## 6108                    0          0              121
## 6110                    0          0              171
## 6112                    0          0               21
## 6125                    0          0              160
## 6137                    0          0              138
## 6143                    0          0               84
## 6153                    0          0               83
## 6166                    0          0              140
## 6198                    0          0              147
## 6215                    0          0              162
## 6216                    0          0              133
## 6220                    0          0              157
## 6226                    0          0              154
## 6235                    0          0              182
## 6245                    0          0               15
## 6252                    0          0               62
## 6261                    0          0              153
## 6268                    0          0              102
## 6302                    0          0              134
## 6304                    0          0              108
## 6331                    0          0              200
## 6337                    0          0               16
## 6373                    0          0              158
## 6379                    0          0              121
```

```
## 6397                    0          0                 54
## 6401                    0          0                 94
## 6438                    0          0                155
## 6442                    0          0                139
## 6447                    0          0                137
## 6450                    0          0                167
## 6464                    0          0                132
## 6506                    0          0                122
## 6513                    0          0                129
## 6519                    0          0                  3
## 6520                    0          0                 35
## 6580                    0          0                113
## 6616                    0          0                 11
## 6652                    0          0                150
## 6667                    0          0                 86
## 6688                    0          0                149
## 6693                    0          0                298
## 6727                    0          0                193
## 6732                    0          0                 90
## 6735                    0          0                181
## 6746                    0          0                156
## 6754                    0          0                 47
## 6770                    0          0                131
## 6789                    0          0                138
## 6803                    0          0                152
## 6819                    0          0                 77
## 6820                    0          0                247
## 6822                    0          0                151
## 6824                    1          0                124
## 6834                    0          0                154
## 6841                    0          0                146
## 6843                    0          0                 46
## 6858                    0          0                139
## 6860                    0          0                105
## 6889                    0          0                 71
## 6891                    0          0                121
## 6894                    0          0                176
## 6896                    0          0                123
## 6899                    0          0                135
## 6900                    0          0                160
## 6917                    0          0                156
## 6919                    0          0                168
## 6923                    0          0                132
## 6934                    0          0                246
## 6941                    0          0                158
## 6954                    0          0                 63
## 6957                    0          0                 36
## 6960                    0          0                137
## 6962                    0          0                301
## 6965                    0          0                159
## 6971                    0          0                162
## 6977                    0          0                131
## 6989                    0          0                175
## 7001                    0          0                 82
## 7008                    0          0                273
## 7009                    0          0                144
## 7012                    0          0                149
## 7017                    0          0                125
## 7033                    0          0                139
## 7037                    0          0                157
## 7057                    0          0                110
## 7060                    0          0                 78
## 7064                    0          0                224
## 7085                    0          0                 39
## 7129                    0          0                174
## 7138                    0          0                155
## 7145                    0          0                 27
## 7160                    0          0                122
## 7174                    0          0                147
## 7187                    0          0                192
## 7189                    0          0                 71
## 7215                    0          0                184
## 7216                    0          0                 84
## 7238                    0          0                 31
## 7266                    0          0                104
## 7271                    0          0                 20
## 7281                    0          0                125
## 7284                    0          0                189
## 7318                    0          0                108
## 7343                    0          0                 92
## 7354                    0          0                  8
## 7373                    0          0                309
## 7380                    0          0                 50
## 7382                    0          0                143
## 7383                    0          0                141
## 7411                    0          0                238
## 7439                    0          0                 66
## 7466                    0          0                 87
## 7476                    0          0                151
## 7521                    0          0                 69
## 7522                    0          0                131
## 7544                    0          0                143
## 7548                    0          0                130
## 7560                    0          0                150
## 7578                    0          0                166
## 7581                    0          0                176
## 7583                    0          0                 60
## 7616                    0          0                316
```

```
## 7628                    0          0              255
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## 7648                    0          0              175
## 7664                    0          0              152
## 7682                    0          0               25
## 7736                    0          0              240
## 7750                    0          0              143
## 7753                    0          0              162
## 7775                    0          0              131
## 7785                    1          0              134
## 7799                    0          0              170
## 7809                    0          0               58
## 7810                    0          0              140
## 7812                    0          0               94
## 7815                    0          0              153
## 7825                    0          0              150
## 7830                    0          0              168
## 7845                    0          0               66
## 7863                    0          0              119
## 7867                    0          0              209
## 7877                    0          0              139
## 7886                    0          0              165
## 7892                    0          0              137
## 7897                    0          0              116
## 7906                    0          0              152
## 7927                    0          0              135
## 7943                    0          0              103
## 7970                    0          0               55
## 7994                    0          0              192
## 8010                    0          0              145
## 8016                    0          0              122
## 8045                    0          0              120
## 8081                    0          0               38
## 8090                    0          0              118
## 8114                    0          0              164
## 8124                    0          0              150
## 8131                    0          0              138
## 8139                    0          0              124
## 8150                    0          0              138
## 8158                    0          0               65
## 8163                    0          0              147
## 8168                    0          0              194
## 8191                    0          0              178
## 8205                    0          0               71
## 8219                    0          0              145
## 8225                    0          0               68
## 8251                    0          0              142
## 8253                    0          0              234
## 8263                    0          0               78
## 8271                    0          0               45
## 8285                    0          0               78
## 8296                    0          0              152
## 8300                    0          0              176
## 8326                    0          0              119
## 8343                    0          0              158
## 8349                    0          0              120
## 8365                    0          0              159
## 8381                    0          0              154
## 8398                    0          0               78
## 8402                    0          0              150
## 8422                    0          0              152
## 8423                    0          0              130
## 8442                    0          0              227
## 8458                    0          0              135
## 8468                    0          0              144
## 8469                    0          0               28
## 8486                    0          0              138
## 8508                    0          0               86
## 8521                    0          0              116
## 8527                    0          0              110
## 8551                    0          0              165
## 8561                    0          0              119
## 8591                    0          0              133
## 8604                    0          0               80
## 8613                    0          0              134
## 8615                    0          0               92
## 8616                    0          0               64
## 8628                    0          0              138
## 8629                    1          0              150
## 8642                    0          0               96
## 8643                    0          0              109
## 8650                    0          0              165
## 8660                    0          0              118
## 8662                    0          0              125
## 8683                    0          0              119
## 8689                    0          0              151
## 8700                    0          0              161
## 8703                    0          0              171
## 8705                    0          0              132
## 8708                    0          0               95
## 8731                    0          0              133
## 8737                    0          0              143
## 8739                    0          0               66
## 8744                    0          0              109
## 8769                    0          0               25
## 8797                    0          0              210
## 8818                    0          0               80
## 8820                    0          0              153
```

```
## 8821                    0          0              108
## 8837                    0          0              204
## 8843                    0          0              125
## 8844                    0          0              130
## 8848                    0          0               54
## 8858                    0          0              119
## 8869                    0          0              150
## 8881                    0          0              154
## 8882                    0          0               78
## 8887                    0          0              172
## 8892                    0          0              147
## 8894                    0          0              119
## 8899                    0          0              126
## 8903                    0          0              160
## 8908                    0          0               54
## 8925                    0          0              136
## 8932                    0          0              126
## 8947                    0          0              146
## 8964                    0          0               43
## 8986                    0          0               79
## 9008                    0          0              138
## 9011                    0          0              142
## 9013                    0          0               19
## 9021                    0          0              126
## 9023                    0          0               69
## 9054                    0          0              146
## 9084                    0          0              122
## 9088                    0          0              107
## 9129                    0          0                6
## 9142                    0          0              169
## 9146                    0          0              214
## 9168                    1          0              197
## 9175                    0          0              187
## 9185                    0          0              142
## 9191                    0          0               29
## 9206                    0          0              113
## 9208                    0          0              223
## 9235                    0          0               48
## 9269                    0          0              137
## 9287                    0          0               88
## 9313                    0          0              122
## 9317                    0          0              135
## 9318                    0          0              125
## 9322                    0          0               34
## 9349                    0          0              122
## 9359                    0          0              199
## 9360                    0          0              209
## 9368                    0          0               59
## 9369                    0          0              252
## 9389                    0          0              128
## 9417                    0          0              153
## 9420                    0          0               84
## 9423                    0          0               73
## 9428                    0          0              119
## 9449                    0          0              104
## 9490                    0          0              148
## 9494                    0          0               61
## 9513                    0          0              134
## 9518                    0          0              133
## 9533                    0          0              185
## 9548                    0          0              160
## 9561                    0          0              102
## 9563                    0          0              120
## 9568                    0          0              168
## 9576                    0          0               66
## 9588                    0          0              197
## 9634                    1          0               79
## 9645                    0          0              104
## 9660                    0          0              136
## 9663                    0          0               22
## 9675                    0          0              138
## 9678                    0          0              120
## 9686                    0          0               66
## 9707                    0          0              123
## 9708                    0          0              148
## 9720                    0          0              195
## 9724                    0          0              172
## 9730                    0          0              112
## 9739                    0          0              150
## 9749                    0          0              168
## 9759                    0          0              119
## 9771                    0          0              179
## 9802                    0          0              125
## 9807                    0          0              117
## 9818                    0          0              183
## 9822                    0          0                9
## 9823                    0          0               66
## 9869                    0          0              148
## 9885                    0          0              150
## 9916                    0          0              119
## 9935                    0          0              142
## 9965                    0          0              162
## 9981                    0          0              366
## 9985                    0          0               45
## 9986                    0          0               25
## 10009                   0          0              113
## 10012                   0          0               16
## 10027                   0          0              143
```

```
## 10068                        0           0                101
## 10074                        0           0                162
## 10076                        0           0                140
## 10092                        0           0                185
## 10101                        0           0                 86
## 10124                        0           0                141
## 10128                        0           0                132
## 10129                        0           0                156
## 10141                        0           0                124
## 10142                        0           0                253
## 10163                        0           0                 76
## 10165                        0           0                 46
## 10179                        0           0                131
## 10188                        0           0                134
## 10210                        0           0                131
## 10220                        0           0                107
## 10221                        0           0                152
## 10240                        0           0                 54
## 10246                        0           0                189
## 10249                        0           0                187
## 10262                        0           0                111
## 10265                        0           0                113
## 10278                        0           0                 99
## 10288                        0           0                 37
## 10319                        0           0                139
## 10328                        0           0                 89
## 10329                        0           0                128
## 10335                        0           0                137
## 10339                        0           0                126
## 10366                        0           0                117
## 10371                        0           0                125
## 10385                        0           0                102
## 10387                        0           0                168
## 10417                        0           0                173
## 10448                        0           0                 43
## 10449                        0           0                197
## 10453                        0           0                125
## 10455                        0           0                129
## 10460                        0           0                 60
## 10464                        0           0                189
## 10471                        0           0                128
## 10482                        0           0                115
## 10491                        0           0                 89
## 10494                        0           0                101
## 10508                        0           0                121
## 10517                        0           0                171
## 10530                        0           0                162
## 10532                        0           0                 66
## 10535                        0           0                173
## 10545                        0           0                138
## 10570                        0           0                 99
## 10573                        0           0                120
## 10576                        0           0                130
## 10579                        0           0                101
## 10582                        0           0                179
## 10592                        0           0                102
## 10595                        0           0                 80
## 10601                        0           0                 44
## 10614                        0           0                 69
## 10620                        0           0                299
## 10632                        0           0                134
## 10641                        0           0                250
## 10646                        0           0                 52
## 10655                        0           0                158
## 10658                        0           0                127
## 10661                        0           0                259
## 10680                        0           0                140
## 10689                        0           0                138
##       mo_sin_old_rev_tl_op mo_sin_rcnt_rev_tl_op mo_sin_rcnt_tl mort_acc
## 16                      55                   10              7        0
## 38                     145                   32              3        4
## 47                     167                    3              3        0
## 77                     136                   24             24        0
## 88                     211                    3              3        0
## 112                    185                    3              3        4
## 133                    140                   40             12        0
## 135                    140                   11             11        0
## 145                    197                   26             26        3
## 169                    246                   10              5        2
## 180                    160                    3              2        2
## 191                    187                   20              5        2
## 208                    168                    9              8        2
## 222                    177                    6              6        1
## 226                    203                    4              4        1
## 231                    164                    8              2        1
## 243                    290                   69              5        4
## 244                    147                    1              1        0
## 250                    140                   37             11        3
## 260                    139                    8              2        1
## 271                    152                    5              2        0
## 277                    253                    7              7        5
## 284                    144                   11              8        5
## 292                    188                    1              1        0
## 295                    269                    3              3        2
## 311                    163                   45             16        0
## 355                    141                   10             10        0
## 376                    312                   12              5        5
## 385                    258                    9              9        5
```

```
## 392          173          47          4        2
## 400          176           5          5        1
## 402          194          12          4        5
## 413          484           7          3        2
## 421           81           3          3        1
## 423          100           8          8        1
## 424          275           6          6        3
## 440          207          80          3        2
## 444          118          13         13        2
## 509          134          11         11        1
## 524          119          15          4        2
## 542          265           3          2        0
## 581          154          67          9        2
## 593          228          16          5        6
## 620          210           4          4        0
## 669          174          11          4        4
## 679          101           6          6        5
## 695          200           2          2        1
## 698           45           2          2        2
## 726          164           8          8        4
## 750          132           2          2        1
## 755          186           1          1        1
## 791          223           2          2        1
## 796          151           3          3        1
## 805          264           8          7        1
## 806          156          13         13        2
## 821          167           0          0        0
## 837          182           4          4        3
## 841          270           2          2        0
## 843           72           9          2        0
## 860          301          29          6        3
## 862          150          10          1        2
## 891          139           3          3        0
## 911          260          18          9        5
## 921          152           7          7        1
## 930           79           4          4        3
## 952          200          39          3        3
## 956          128           1          1        2
## 958          125          11         11        4
## 967          283          78         16        5
## 974          280          11         10        4
## 982          365          18         18        2
## 1014         153          22          8        1
## 1022         200           1          1        2
## 1045         116           3          3        0
## 1051         172           2          2        1
## 1075         240          12          5        1
## 1097         263           3          3        2
## 1099         215          29          9        0
## 1104         214           8          4        4
## 1107         135           8          2        2
## 1119          92           4          2        1
## 1125          40           9          8        0
## 1166          66           4          4        0
## 1167          86          42         24        1
## 1172         237           2          2        0
## 1173          90          16         16        0
## 1175         265          37         37        4
## 1177         347          22         22        2
## 1193          93           5          5        0
## 1200         209          10         10        4
## 1206         156           8          2        4
## 1223         150          34         31        6
## 1230         252          35          2        4
## 1238         166          17          3        0
## 1245         136           5          2        0
## 1250         125          10         10        0
## 1272         176          49         14        1
## 1282         178           2          2        4
## 1283         178          17         17        0
## 1298         122           4          4        0
## 1300         102           2          2        2
## 1308         129          49          3        3
## 1321         465          10         10        1
## 1322         111           8          3        4
## 1327         177           4          1        1
## 1374         193           1          1        2
## 1378         138          12          2        4
## 1385         157          18         12        3
## 1411         140          28          1        4
## 1415         214           9          4        1
## 1463          94          16          3        2
## 1517         155           9          2        0
## 1531         200           2          1        1
## 1598          48          24          3        3
## 1609         148           6          6        0
## 1638         136         112          8        3
## 1684         271           7          7        0
## 1710         147           8          5        3
## 1713         120          12         12        3
## 1722         228           1          1        4
## 1733         141          24          3        3
## 1742         155          15          4        1
## 1770         175           9          1        7
## 1777         106           7          6        1
## 1779         158          57         28        0
## 1781         107          27          1        1
## 1808         191          38         10        3
```

```
## 1814          232          7          1        2
## 1832          133         12          2        1
## 1834          373          0          0        3
## 1841          125          5          5        4
## 1858          206         19         10        0
## 1872          120         14          5        0
## 1888          127         11          3        0
## 1908          121         10         10        0
## 1912          167          3          3        1
## 1918          226          5          5        2
## 1923          143          5          5        5
## 1931          221          3          3        2
## 1940          135          7          7        0
## 1941           77         15          4        1
## 1966          436          9          9        2
## 1967          161          6          6        0
## 1969          242         39         19        3
## 1993          144         42         13        2
## 2000          279         68         19        0
## 2020          204         32          1        3
## 2021          151         68          9        0
## 2022          177          9          9        2
## 2024          202          2          2        2
## 2062          152         40          5        0
## 2064          127         74         10        3
## 2110          310          4          4        1
## 2134          453         21          8        5
## 2141          126          6          3        2
## 2152          153         22         16        1
## 2164           49          5          5        2
## 2188           67         11         11        1
## 2195           86         15         12        3
## 2205          111          2          2        0
## 2223          226          6          6        4
## 2228          261         20          1        2
## 2237           19          4          4        2
## 2266          148         13         13        0
## 2269          315         27          4        3
## 2276          213          4          4        2
## 2282          185          6          6        3
## 2291           91          1          1        1
## 2299          204          2          2        0
## 2309           44          8          4        0
## 2311          255         59         12        2
## 2317          234         38          8        2
## 2324          478         14         14        1
## 2360          112         59          2        0
## 2366           53          1          1        0
## 2372          138         71         18        4
## 2391           77         10         10        1
## 2451          402          4          3        3
## 2466          120          9          9        0
## 2487          218         11          4        4
## 2498          152         15          2        1
## 2507          149         11          9        2
## 2553          301         30          3        6
## 2570          175         11          3        0
## 2573          170          7          3        4
## 2594          213         12          7        0
## 2632           39         18          7        2
## 2644          196         14          3        5
## 2665          202         13          1        1
## 2666          151         18         11        0
## 2680          255          5          5        0
## 2682           13          3          3        0
## 2688          172          3          3        3
## 2697          135          2          2        3
## 2704          249          9          9        2
## 2739          375         17         12        0
## 2741          356          4          4        0
## 2750          338          0          0        2
## 2751          136         11          8        2
## 2754          110          3          3        0
## 2762           50         15         15        2
## 2764           83         17          1        2
## 2778          263         25          3        1
## 2802          125          4          4        0
## 2818          201         12          4        3
## 2822          182         15         11        1
## 2841          120          2          2        2
## 2848           43          2          2        1
## 2888          171          4          4        3
## 2922          450         17          6        3
## 2941          223         26          3        1
## 2956          100          6          3        1
## 2970          285          6          6        6
## 2986          123          8          3        0
## 3006           59          1          1        0
## 3030          274         11         11        1
## 3035          253          1          1        6
## 3044          158          1          1        6
## 3048          118         10         10        0
## 3063          159          3          3        3
## 3064          359          5          5        2
## 3072          160         24         10        1
## 3080          178         17          5        1
## 3082          122          2          2        4
## 3097          131          3          3        2
```

```
## 3098          282          6          2        7
## 3135          151          8          8        0
## 3151           78         43         11        3
## 3153          230          4          4        2
## 3171          147          2          2        0
## 3205          123          4          4        2
## 3217          128          1          1        0
## 3225          219          4          1        3
## 3227          203         36          6        2
## 3234          238         25          6        1
## 3239          279          5          4        3
## 3247           93          1          1        4
## 3331          189          5          5        5
## 3334          110          7          3        2
## 3372           99          3          3        0
## 3379           41          2          2        0
## 3393           54         13         13        0
## 3395          121          8          8        5
## 3403          137         32         12        0
## 3410          182         19         19        2
## 3413          222         18         18        0
## 3417          421          2          2        8
## 3487           67          1          1        4
## 3513          184          3          3        0
## 3521          160          6          5        0
## 3532          165         17         15        0
## 3558          173          6          6        1
## 3562          317          1          1        3
## 3571          242          2          2        1
## 3574          181         13         13        0
## 3581          203         57         31        0
## 3589          137          4          2        0
## 3605          111          1          1        1
## 3630          226          3          0        0
## 3631           40          7          2        0
## 3640          299         37         13        0
## 3642          150         12          8        6
## 3644           31         11         11        0
## 3653          172          6          6        3
## 3662           79          7          7        0
## 3663          440          1          1        3
## 3691          248         13         10        1
## 3713          244         16          5        4
## 3726           86          4          4        0
## 3746          211          6          6        4
## 3751          268         11         11        0
## 3757          135          5          3        1
## 3761          163          6          6        3
## 3763          181          8          8        2
## 3770          164         16         16        0
## 3774           51         38         38        0
## 3775          266          7          7        0
## 3786          148          0          0        1
## 3809          274         11         11        0
## 3824          188          1          1        4
## 3832          234          1          1        5
## 3845           40         16         14        0
## 3864          157         46          9        0
## 3877          209         39         21        3
## 3890           77          2          2        6
## 3907          334          1          1        0
## 3918           43          2          2        1
## 3925          105         24          9        1
## 3927           41          4          2        0
## 3945           81          0          0        1
## 3946          183          1          1        3
## 3972          234          1          1        1
## 3986          263          6          6        5
## 3988          288          7          7        4
## 4008          118         18          6        0
## 4015          169          2          2        0
## 4039          331          4          4        0
## 4047          399          4          4        2
## 4056          155         43         11        2
## 4076          148          3          3        0
## 4090          166          5          5        1
## 4103          197          1          1        3
## 4160          172         12         10        2
## 4164          304          2          2        0
## 4188          525         21         17       10
## 4222          320          2          2        0
## 4231          117          1          1        3
## 4236          207          5          5        0
## 4256           68          5          5        1
## 4282           33          6          6        0
## 4286          176         18          6        0
## 4306          120          8          4        1
## 4308          139          5          2        0
## 4313          330         24          6        0
## 4355           77         23          5        0
## 4358          404          2          2        6
## 4375          114         64         16        0
## 4383          223         11         11        3
## 4387          272          3          3        0
## 4404          144         32         15        2
## 4420          224          4          4        5
## 4449          392         23          5        0
## 4455          362          1          1        2
```

```
## 4463          403          8          8        2
## 4490          497          1          1        3
## 4495           89          7          7        0
## 4505           71          1          1        0
## 4507          131          6          6        3
## 4540          393         14         14        0
## 4553          137         16         14        6
## 4579          205          3          3        2
## 4591          166         67         21        2
## 4593           72          4          4        0
## 4599          189          3          3        4
## 4607          203         39         13        2
## 4636          226          2          2        0
## 4659          181          4          2        1
## 4667          174         15         15        2
## 4670          238          2          2        3
## 4676          118          7          2        1
## 4678          211         11         11        1
## 4679          156          2          2        3
## 4687          158         15         15        1
## 4697          164          5          5        4
## 4709          317          2          2        0
## 4725          188          1          1        0
## 4741          223          2          2        1
## 4777          143         10          1       15
## 4781          206          7          4        3
## 4796           33         10          6        0
## 4807          322          1          1        2
## 4808          283          1          1        7
## 4822          227         11          9        4
## 4830          136          8          8        2
## 4849          340          3          3        7
## 4853           80         17         11        5
## 4854           92          2          2        1
## 4859           96          1          1        0
## 4897          522         32         32        4
## 4966          219          7          1        1
## 4975          169         16         10        3
## 4991           46         13          8        0
## 5016           28          1          1        0
## 5020           68          2          2        2
## 5024          153          4          4        0
## 5026          174          2          2        0
## 5040          259         33         12        3
## 5058           39          9          9        2
## 5078          359          4          4        0
## 5082          182          9          9        4
## 5092          206          4          4        4
## 5140          102          3          3        3
## 5143           70         10         10        0
## 5148           64         18         18        0
## 5188          295          5          5        1
## 5203          245          3          3        2
## 5214          143          6          6        0
## 5224          171          3          3        1
## 5229          405          2          2        2
## 5281          163          2          2        2
## 5290          132          9          9        0
## 5310          435         10         10        4
## 5327          266          3          3        1
## 5331          292         13          6        3
## 5334          160          9          9        0
## 5335          399         11         10        3
## 5336          199         53          6        5
## 5349          252          9          3        2
## 5353          417          1          1        1
## 5370          235         45          3        1
## 5381          127          4          4        4
## 5385           81          8          8        0
## 5396          167          8          8        0
## 5408          260          9          9        0
## 5415          249          4          4        5
## 5424          331          6          6        3
## 5428          304         13          1        0
## 5450          257          7          5        4
## 5474          327          5          1        2
## 5480          118         45         40        0
## 5486          187          3          1        1
## 5509          141         14          6        4
## 5518          461         17         17        4
## 5523          139         10          8        5
## 5534          161          2          2        2
## 5536          179         13          1        0
## 5541          104          8          3        0
## 5551          142          1          1        0
## 5557           22          2          2        0
## 5562           74         48          9        0
## 5584          168          2          2        0
## 5588          126          5          5        1
## 5598          279          7          7        6
## 5599          182          7          7        0
## 5625          348          8          8        0
## 5626          297          5          4        5
## 5633          187          3          3        1
## 5641          119          8          5        0
## 5674          158         10         10        3
## 5693          264         17          8        3
## 5697          168         10          7        5
```

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## 5704          230          1          1        0
## 5712          371          5          5        5
## 5761          272         20          6        1
## 5763          145          2          2        1
## 5796          222          6          6        0
## 5797           66          6          6        0
## 5800           24          9          9        0
## 5808          181         11          9        4
## 5812          154          1          1        0
## 5814          421          0          0        4
## 5819          111          3          3        0
## 5824          201         24         15        0
## 5833          153          9          9        0
## 5851          465         11          5        5
## 5857          154          2          2        3
## 5862          147          6          4        1
## 5866          136         13         13        2
## 5873          189         13         13        0
## 5877          114         15         14        0
## 5891          215          7          2        2
## 5914          260          2          2        0
## 5936          322          6          6        0
## 5961          143          9          3        0
## 5969          174         16          4        2
## 5983          415          4          4        0
## 5984          270         17          3        5
## 5993           30          6          6        0
## 5995          206          7          4        0
## 6016           36         23         12        0
## 6022          228          3          3        1
## 6026          174         10         10        1
## 6040           81          0          0        0
## 6042          129          6          6        2
## 6058          229         67         41        6
## 6067          247          3          2        1
## 6081          280         25         24        2
## 6095          177          5          1        2
## 6098          195         39         11        1
## 6103          206          4          4        0
## 6107           90          2          2        1
## 6108          234          3          3        5
## 6110          272          7          7        3
## 6112          106          5          5        0
## 6125          272          6          3        1
## 6137          276          5          1        4
## 6143          153          7          5        0
## 6153          192          4          4        7
## 6166          359         14          6        4
## 6198          355          6          3        3
## 6215          301          8          8        0
## 6216          265         12         12        3
## 6220          154         11         11        2
## 6226          156          3          3        2
## 6235          165         13         11        1
## 6245          580          2          2        1
## 6252           74         17          9        4
## 6261          157          3          3        0
## 6268          165         32         32        1
## 6302          183         46          4        1
## 6304          179          2          2        1
## 6331          136         11          3        2
## 6337          241         11         11        1
## 6373          230          2          2        6
## 6379           49          6          6        0
## 6397          104          4          4        0
## 6401          283          7          7        2
## 6438          229          2          2        2
## 6442          124         36          5        0
## 6447          130          3          3        4
## 6450          224         22          9        1
## 6464          249          6          6        1
## 6506           26          7          7        1
## 6513          160          7          7        4
## 6519          126          6          3        2
## 6520          148          3          3        0
## 6580          107          4          4        1
## 6616           48          6          2        0
## 6652          208          1          1        4
## 6667          138         13          8        0
## 6688           95         11         11        1
## 6693          212          5          5        0
## 6727          295          4          4        4
## 6732          155         11          4        2
## 6735          238         34         18        0
## 6746          137         19         17        0
## 6754          426          3          3        1
## 6770           28          5          5        0
## 6789          142          4          4        0
## 6803          264         16         13        1
## 6819           81          5          5        0
## 6820          162          4          4        3
## 6822          387          5          5        0
## 6824          120         11          9        1
## 6834          447          4          4        2
## 6841           58         10         10        0
## 6843          151          4          4        0
## 6858          236         15         15        3
## 6860           48         34          5        0
```

```
## 6889          169          11          11          0
## 6891          256          24          18          0
## 6894          237           4           2          1
## 6896          138           4           4          0
## 6899          151           1           1          4
## 6900          170           9           9          2
## 6917          211           7           7          2
## 6919          214           3           3          6
## 6923          154          44          23          0
## 6934          134          21           5          3
## 6941          269           5           5          3
## 6954          128           3           3          0
## 6957           41           9           9          3
## 6960          200          14          14          0
## 6962          160           8           8          1
## 6965          230           7           7          0
## 6971          155          15          10         15
## 6977          161           4           4          1
## 6989          163           4           4          1
## 7001          160           5           5          1
## 7008          151           2           2          1
## 7009          285           4           4          2
## 7012          373          11           9          1
## 7017          113          21          12          2
## 7033          131          24          23          0
## 7037          102           5           5          1
## 7057          249           5           5          0
## 7060          321           6           5          0
## 7064          166           1           1          2
## 7085          365           8           5          3
## 7129          148           5           5          2
## 7138          136          23           8          5
## 7145          147           5           2          1
## 7160          144           9           2          0
## 7174          270           9           5          4
## 7187           48           5           5          0
## 7189          333           6           6          1
## 7215          519           1           1          0
## 7216          265          16          13          1
## 7238           48          11          11          0
## 7266          160          18          18          0
## 7271          295           2           2          0
## 7281           69           3           2          2
## 7284          231          24           3          1
## 7318          281           2           2          1
## 7343          157           2           2          1
## 7354          317           3           3          1
## 7373          144          13          13          0
## 7380          115           2           2          0
## 7382          404          48          18          5
## 7383          196          19           9          2
## 7411          100          19          19          0
## 7439          195          66           6          0
## 7466          330           3           3          2
## 7476          341          13           2          3
## 7521           83          61          18          0
## 7522          150           5           5          3
## 7544          106          25           9          1
## 7548          134           8           3          1
## 7560          136           5           3          4
## 7578          162           8           8          3
## 7581          196          24           6          3
## 7583           69          25          20          0
## 7616          299          20          20          1
## 7628          188          23           6          2
## 7641           48          10          10          0
## 7648          301          18          18          1
## 7664          127           2           2          2
## 7682          174          13          13          2
## 7736          384           2           2          2
## 7750          289           8           8          3
## 7753           66           4           4          2
## 7775          282           5           5          5
## 7785          133           3           3          2
## 7799          221           3           3          4
## 7809           70          20           8          0
## 7810          147           2           2          7
## 7812          222          27          25          5
## 7815          236           5           5          2
## 7825          299          10           2          4
## 7830          133           1           1          1
## 7845          103           5           5          0
## 7863          116          16           4          2
## 7867          164           5           5          0
## 7877          200           8           4          0
## 7886           75          16          10          2
## 7892          159           1           1          3
## 7897          176          14           5          0
## 7906          449           3           3          3
## 7927          130           5           2          3
## 7943          142           1           1          0
## 7970           52           1           1          0
## 7994          360           5           3          2
## 8010           99           5           5          2
## 8016          121           9           9          0
## 8045          175          18           3          8
## 8081          189          14          14          3
## 8090           68           4           4          1
```

```
## 8114          127          1          1        0
## 8124          229          7          7        0
## 8131          370          3          3        2
## 8139          238         30          7        1
## 8150          179          5          5        0
## 8158           89          3          3        0
## 8163          338          9          7        2
## 8168           89          1          1        0
## 8191          136         21         12        2
## 8205          166         10          5        2
## 8219          128         76         46        0
## 8225           95          4          4        0
## 8251          149         16          9        5
## 8253          116          2          2        2
## 8263           88          4          2        1
## 8271          295          4          4        0
## 8285           59          5          1        0
## 8296           88          5          5        2
## 8300          169         20         18        4
## 8326          379          3          3        3
## 8343          122         36          4        2
## 8349          137          8          5        2
## 8365          273         28         12        0
## 8381          131          8          2        1
## 8398          124          2          2        2
## 8402          129         19         11        0
## 8422          189         30          4        0
## 8423           60         12         11        1
## 8442          171         13          2        0
## 8458          231         44         11        2
## 8468          157          3          3        2
## 8469           72          0          0        0
## 8486          263         28          5        5
## 8508          118          3          3        1
## 8521          324          6          1        4
## 8527          119          2          1        3
## 8551           95          0          0        1
## 8561          179          6          6        1
## 8591          257         59         11        1
## 8604          120          4          4        1
## 8613           82          2          2        1
## 8615          188          3          3        1
## 8616           71          6          6        0
## 8628           87          8          3        3
## 8629          259         11         11        3
## 8642          257          7          7        6
## 8643           73          1          1        0
## 8650          274          5          4        0
## 8660           72          3          3        2
## 8662          125         19         10        1
## 8683          121         35          4        4
## 8689          157          2          2        1
## 8700           70          4          2        0
## 8703          155          4          4        5
## 8705          174          0          0        5
## 8708          159          5          5        0
## 8731          134        115          2        3
## 8737          292         24          4        0
## 8739          248         11         11        1
## 8744           74         15         15        0
## 8769          279         27         25        2
## 8797           55          4          4        0
## 8818           75         26         16        0
## 8820          192         42          5        0
## 8821           75         11         10        2
## 8837          212          3          3        1
## 8843          260         29         19        3
## 8844          133          2          2        4
## 8848          171          5          5        0
## 8858          185         45         14        1
## 8869          179          3          3        1
## 8881          235         19          5        0
## 8882          122         16          7        0
## 8887          164          4          4        0
## 8892          139          9          8        1
## 8894          122          3          3        1
## 8899          141          5          5        3
## 8903           93         10          7        0
## 8908          154          6          6        1
## 8925          141          4          4        0
## 8932          137          7          7        0
## 8947          285          1          1        2
## 8964           53         27         17        0
## 8986          142          9          9        1
## 9008           15          7          7        0
## 9011          141         45         11        0
## 9013          222          4          4        0
## 9021          359          4          2        5
## 9023          101         33         24        0
## 9054          341          5          5        1
## 9084          120         11         11        0
## 9088          243         10          4        5
## 9129          209         11          6        1
## 9142          266          7          7        2
## 9146          237         11          2        0
## 9168          194          0          0        3
## 9175          211          2          2        2
## 9185          150          3          3        3
```

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## 9191          216          10          2        2
## 9206          303           4          1        3
## 9208          188           4          2        0
## 9235           82           1          1        0
## 9269          199           4          4        2
## 9287           88           2          2        2
## 9313          240           3          3        4
## 9317          141          11          9        1
## 9318          425           3          3        3
## 9322          254           5          5        1
## 9349          132           8          8        5
## 9359          172          11          6        0
## 9360          159           1          1        0
## 9368          240           3          3        1
## 9369          245           4          4        3
## 9389          308           2          2        2
## 9417          100          11          3        0
## 9420          160          65          2        1
## 9423          181           3          3        2
## 9428          105          26          3        2
## 9449          135           6          6        1
## 9490          160           8          8        0
## 9494          124           1          1        0
## 9513          136           3          3        0
## 9518           31          20          5        3
## 9533          152          21         21        1
## 9548           43          17         10        1
## 9561          256           0          0        3
## 9563          290          37          3        0
## 9568          169           8          3        3
## 9576           48           8          2        3
## 9588          211          22         15        1
## 9634          147          10          5        1
## 9645           86           4          4        0
## 9660          136          21          3        1
## 9663          462          23         22        4
## 9675          139           4          4        0
## 9678          107          10          9        0
## 9686          159           8          4        1
## 9707          201           8          3        7
## 9708           70           9          4        0
## 9720          226          23         10        5
## 9724          207           9          9        3
## 9730           77           5          5        2
## 9739          232          57         20        2
## 9749          238          27         18        0
## 9759          174           3          3        0
## 9771          255          14         14        3
## 9802          126          95          9        0
## 9807          162           8          8        0
## 9818          195          10         10        1
## 9822           62           9          9        2
## 9823          135          17         17        0
## 9869          136           3          3        0
## 9885          150          10          4        0
## 9916          259           1          1        1
## 9935          142           8          8        1
## 9965          177           7          7        0
## 9981          207           6          6        1
## 9985          306           6          6        3
## 9986           62           5          5        1
## 10009         183           1          1        0
## 10012         306           3          3        2
## 10027         396          13         13        0
## 10068         136           2          2        0
## 10074         331           1          1        3
## 10076         182           1          1        0
## 10092         254           8          1        5
## 10101         171          21          7        0
## 10124         200          17          4        3
## 10128         152           6          5        0
## 10129         167           2          2        1
## 10141          52          16          9        0
## 10142         386           9          9        3
## 10163         153           6          2        0
## 10165          71           8          8        1
## 10179         345           1          1        0
## 10188          78           4          4        0
## 10210          66           5          5        3
## 10220         204           6          3        0
## 10221         355          59         15        1
## 10240          77           2          2        1
## 10246         417          16          4        4
## 10249         131          14         14        1
## 10262         129           4          4        0
## 10265         210           6          2        0
## 10278         183           3          3        0
## 10288         133          16         13        1
## 10319         226          18         11        5
## 10328         205          16          9        2
## 10329         321           3          1        3
## 10335         144           2          2        2
## 10339         177          15         15        2
## 10366         261           8          1        3
## 10371         206           5          3        5
## 10385         125           1          1        1
## 10387         333           7          2        2
## 10417         171           3          3        2
```

```
## 10448                  83                    15             13        1
## 10449                  56                     9              7        1
## 10453                 100                     2              2        3
## 10455                 172                    12             12        2
## 10460                 187                     4              4        1
## 10464                 300                    41              5        2
## 10471                 104                    19              7        2
## 10482                 130                     6              6        3
## 10491                 142                    20              7        0
## 10494                 103                     4              4        1
## 10508                 396                    19              7        5
## 10517                 391                     2              2        1
## 10530                 213                    15             15        2
## 10532                  67                     2              2        0
## 10535                  74                    14              2        3
## 10545                 147                     5              5        3
## 10570                 140                     3              3        0
## 10573                 326                     8              8        1
## 10576                 202                     8              8        1
## 10579                 189                    16             14        1
## 10582                 473                    50             12        8
## 10592                  79                     7              6        0
## 10595                 115                     3              3        1
## 10601                  76                    12             12        0
## 10614                 298                    14             14        3
## 10620                 158                    11              6        3
## 10632                 179                     2              2        4
## 10641                 172                     6              6        0
## 10646                 356                     1              1        6
## 10655                 250                     9              6        2
## 10658                 197                    14              7        0
## 10661                 251                    18             18        1
## 10680                 283                     3              3        1
## 10689                 537                     8              8        1
##       mths_since_recent_bc mths_since_recent_inq num_accts_ever_120_pd
## 16                      17                     8                     1
## 38                      40                    22                     1
## 47                      41                     5                     0
## 77                      24                     9                     2
## 88                       3                     7                     1
## 112                      3                    16                     0
## 133                     40                     7                     0
## 135                     21                    10                     2
## 145                     26                     1                     0
## 169                     28                    15                     1
## 180                      3                     2                     0
## 191                    101                     1                     2
## 208                      9                     1                     1
## 222                     42                    10                     0
## 226                      4                     4                     0
## 231                     34                     7                     0
## 243                     69                     5                     3
## 244                      1                     8                     0
## 250                     37                     0                     0
## 260                      8                     2                     0
## 271                     24                     3                     0
## 277                      7                    12                     0
## 284                     11                     2                     0
## 292                      1                     2                     9
## 295                      3                    12                     1
## 311                     67                     8                     0
## 355                     35                    11                    14
## 376                     20                    12                     2
## 385                     16                     9                     7
## 392                     47                     2                     0
## 400                      5                    13                     0
## 402                     31                     4                     2
## 413                      7                     2                     1
## 421                      5                    17                     0
## 423                      8                     8                     2
## 424                      6                    13                     6
## 440                    207                     0                     5
## 444                     13                    16                     0
## 509                     16                    11                     1
## 524                     19                     2                     1
## 542                      6                     0                     2
## 581                     82                     9                     1
## 593                     16                     0                     1
## 620                      4                    10                     1
## 669                     36                     5                     0
## 679                      6                     6                     0
## 695                      2                     1                     0
## 698                     11                     5                     0
## 726                     22                     8                     0
## 750                      2                     3                     0
## 755                      1                    18                     0
## 791                      2                     2                     1
## 796                      3                     7                     0
## 805                     23                     7                     2
## 806                     13                    19                     0
## 821                      0                     0                     1
## 837                      4                     0                     0
## 841                      2                     9                     1
## 843                      9                     2                     0
## 860                     29                     0                     0
## 862                     12                    10                     1
## 891                      3                     3                     1
## 911                     18                     9                     0
```

```
## 921                    7                    1                    1
## 930                    4                   20                    0
## 952                   39                    3                    0
## 956                   14                   12                    0
## 958                  101                    1                    0
## 967                   78                   19                    0
## 974                   28                   13                    0
## 982                   18                    1                   10
## 1014                  22                    8                    0
## 1022                   1                    1                    0
## 1045                   3                   16                    0
## 1051                   4                    3                    1
## 1075                  12                    0                    0
## 1097                   4                    4                    0
## 1099                  82                   11                    0
## 1104                  27                    5                    3
## 1107                   8                    5                    0
## 1119                   4                    2                    0
## 1125                   9                    8                    0
## 1166                   4                    1                    0
## 1167                  42                    2                    0
## 1172                  26                    6                    0
## 1173                  16                    3                    1
## 1175                 265                   10                    0
## 1177                  22                    1                    0
## 1193                   5                    5                    0
## 1200                  30                    3                    1
## 1206                   8                    0                    2
## 1223                  34                    1                    2
## 1230                  35                    0                    0
## 1238                  25                    6                    2
## 1245                  12                    2                    0
## 1250                  19                    0                    0
## 1272                  49                    0                    0
## 1282                   2                   13                    0
## 1283                  17                   18                    0
## 1298                  22                   17                    0
## 1300                   3                    3                    2
## 1308                  54                    3                    2
## 1321                  17                   10                    0
## 1322                   8                    2                    3
## 1327                   4                    1                    0
## 1374                   1                    1                    0
## 1378                  14                    3                    7
## 1385                  35                    5                    3
## 1411                  34                    1                    0
## 1415                   9                    6                    7
## 1463                  46                    3                    1
## 1517                  13                    2                    0
## 1531                   2                    1                    0
## 1598                  24                    3                    1
## 1609                   9                    6                    0
## 1638                 112                    4                    0
## 1684                  57                   14                    0
## 1710                  22                    5                    0
## 1713                  12                    1                    0
## 1722                   1                    6                    0
## 1733                  24                    5                    0
## 1742                  15                    4                    0
## 1770                   9                    1                    1
## 1777                   7                    2                    0
## 1779                  57                    3                    0
## 1781                  35                    1                    0
## 1808                  38                   10                    0
## 1814                   7                   10                    0
## 1832                 133                    4                    1
## 1834                   0                    5                    8
## 1841                   5                   21                    0
## 1858                  19                   10                    0
## 1872                  14                    5                    0
## 1888                  11                    9                    0
## 1908                  10                   12                    1
## 1912                   4                    2                    3
## 1918                   5                    5                    0
## 1923                   7                    7                    0
## 1931                   3                    4                    1
## 1940                   7                   10                    1
## 1941                  15                    4                    1
## 1966                  10                    2                    9
## 1967                   6                    6                    1
## 1969                  39                   18                    1
## 1993                  42                    2                    1
## 2000                  68                   19                    0
## 2020                  54                    4                    0
## 2021                  68                    9                    0
## 2022                   9                   10                    0
## 2024                   3                    3                    0
## 2062                  48                   13                    0
## 2064                  74                   12                    0
## 2110                   4                    4                    0
## 2134                  21                    8                    0
## 2141                  20                    1                    0
## 2152                  22                   16                    0
## 2164                  44                    7                    0
## 2188                  11                   12                    0
## 2195                  75                    1                    0
## 2205                  22                    2                    0
## 2223                   6                    6                    0
```

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## 2276                  4                 8                 0
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## 2311                 77                16                 0
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## 2366                  2                 2                 0
## 2372                129                18                 0
## 2391                 38                20                 0
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## 2498                 15                 0                 2
## 2507                 11                10                 1
## 2553                 50                 0                 0
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## 2573                  7                 3                 2
## 2594                 49                 3                 1
## 2632                 19                 7                 0
## 2644                 22                 3                 0
## 2665                 13                16                 0
## 2666                 18                10                 1
## 2680                  5                 1                 1
## 2682                  3                 9                 2
## 2688                 12                 6                 1
## 2697                 24                16                 0
## 2704                  9                22                 0
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## 2741                  4                 0                 1
## 2750                 28                13                 7
## 2751                 11                 8                 0
## 2754                  3                 3                 0
## 2762                 44                 0                 0
## 2764                 71                 1                 2
## 2778                 25                 3                 1
## 2802                  4                17                 0
## 2818                 32                 5                 2
## 2822                 15                15                 1
## 2841                  2                 5                 0
## 2848                  2                 0                 2
## 2888                  4                 0                 2
## 2922                 17                 2                 0
## 2941                 53                 1                 0
## 2956                 19                 3                 0
## 2970                  6                 7                 0
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## 3006                  1                 1                 2
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## 3044                 34                 1                 4
## 3048                 10                13                 0
## 3063                  3                 5                 3
## 3064                  5                 0                 3
## 3072                 24                10                 1
## 3080                 18                 2                 2
## 3082                 11                 1                 0
## 3097                  3                 3                 1
## 3098                 15                 6                 7
## 3135                  8                 8                 0
## 3151                 43                 0                 0
## 3153                  4                 7                 0
## 3171                  2                15                 1
## 3205                  4                 8                 0
## 3217                 16                 1                 0
## 3225                  4                 2                 2
## 3227                 36                 6                 0
## 3234                 25                 6                 0
## 3239                  5                 4                 0
## 3247                  5                 1                 0
## 3331                  5                 1                 2
## 3334                  7                 7                 3
## 3372                 13                 6                 0
## 3379                 21                 2                 0
## 3393                 13                13                 1
## 3395                 27                 1                 0
## 3403                 32                12                 0
## 3410                 19                 7                 0
## 3413                 31                21                 0
## 3417                  3                 3                 6
## 3487                  1                 1                 0
## 3513                  9                 0                 0
## 3521                  6                 1                 0
## 3532                 17                10                 1
## 3558                  6                 6                 0
## 3562                  1                 0                 0
## 3571                  2                 4                 0
## 3574                 55                13                 1
## 3581                 57                 6                 0
## 3589                 11                 2                 1
## 3605                 10                 2                 2
## 3630                  7                 0                 1
```

```
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## 3644               11                11                 0
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## 3691               18                10                 1
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## 3726                4                14                 0
## 3746                6                 1                 2
## 3751               11                 3                 0
## 3757               17                 0                 1
## 3761                6                 7                 0
## 3763                8                 9                 1
## 3770               19                 0                 0
## 3774               38                 4                 0
## 3775                7                 5                 0
## 3786                9                 0                 6
## 3809               11                 0                 0
## 3824                1                 4                 3
## 3832               15                 9                 2
## 3845               19                 2                 0
## 3864               46                 7                 2
## 3877               39                 2                 4
## 3890                2                 0                 2
## 3907                1                 5                 0
## 3918                2                 7                 1
## 3925               25                10                 2
## 3927                4                 2                 4
## 3945                0                 1                 0
## 3946                7                 1                 0
## 3972                1                 4                 1
## 3986                6                 1                 0
## 3988                7                 0                 7
## 4008               41                 6                 0
## 4015                2                 2                 0
## 4039               16                 0                 2
## 4047                4                 4                 1
## 4056              155                 2                 1
## 4076                3                15                 1
## 4090                5                 5                 0
## 4103                1                 5                 0
## 4160               12                 1                 0
## 4164                2                 5                 0
## 4188               44                 6                 2
## 4222                6                 2                 1
## 4231                3                 3                 0
## 4236               11                 1                 0
## 4256                5                11                 4
## 4282               16                21                 0
## 4286               25                 3                 0
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## 4308                6                 2                 0
## 4313               24                 1                 0
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## 4358                2                 1                 1
## 4375               64                 6                 0
## 4383               11                19                 0
## 4387                3                 3                 0
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## 4420                4                11                 0
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## 4463               11                 7                 3
## 4490                2                 1                 0
## 4495                7                15                 2
## 4505                7                 1                 1
## 4507                6                 6                 2
## 4540               14                14                 0
## 4553               23                14                 0
## 4579                4                 0                14
## 4591              106                 0                 0
## 4593               18                 7                 0
## 4599                3                 7                 0
## 4607               51                13                 0
## 4636                2                 3                 0
## 4659               10                 0                 0
## 4667               15                15                10
## 4670                2                 5                 0
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## 4678               11                 9                 0
## 4679                2                22                 0
## 4687               15                15                 0
## 4697               44                 5                 1
## 4709                2                 6                 1
## 4725                1                14                 3
## 4741                2                 1                 0
## 4777               10                 3                 0
## 4781               41                 2                 0
## 4796               10                 6                 0
## 4807                1                11                 0
## 4808                1                12                 1
## 4822               11                13                 5
## 4830                8                 8                 2
## 4849              120                 6                 5
## 4853               23                11                 1
## 4854                2                 6                 0
```

```
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## 4991               13                0                0
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## 5024                4               23                1
## 5026                2                0                0
## 5040               53               11                0
## 5058                9                1                0
## 5078               18               13                1
## 5082                9                9                1
## 5092                5                1                3
## 5140                3                1                1
## 5143               10               10                8
## 5148               18                1                0
## 5188               20                4                2
## 5203                3                6                1
## 5214               40               15                1
## 5224                3                3                0
## 5229                2                3                0
## 5281               12                1                4
## 5290                9               20                0
## 5310              435               11                0
## 5327                3                3                1
## 5331               35                7                0
## 5334                9               15                0
## 5335               11                1                2
## 5336               53                0                1
## 5349               14                3                1
## 5353                2                2                0
## 5370               45                3                0
## 5381                4                4                0
## 5385                8                2                1
## 5396               13                8                3
## 5408               10                2                0
## 5415                4                4                5
## 5424               48                6                1
## 5428               13                1                1
## 5450                8                5                2
## 5474               15                1                6
## 5480               85                4                0
## 5486               10                7                0
## 5509               24                1                1
## 5518              232               17                2
## 5523               10               10                1
## 5534                2               12                1
## 5536               13                1                0
## 5541                9                3                0
## 5551               21                9                0
## 5557               22                2                3
## 5562               48               18                0
## 5584                2                7                1
## 5588               10               10                0
## 5598                7               14                1
## 5599                7                9                0
## 5625               49                8                1
## 5626               10                1                1
## 5633                3                3                1
## 5641                8                5                0
## 5674               10                5                1
## 5693               59                9                5
## 5697               10                9                3
## 5704                1                1                0
## 5712               14                8                0
## 5761               47               11                1
## 5763                2                2                1
## 5796                6                3                1
## 5797                7                1                0
## 5800                9                9                1
## 5808               11                9                0
## 5812                1               11                0
## 5814                0                0                0
## 5819               17                3                0
## 5824               24                9                1
## 5833                9               24                0
## 5851               18                6                0
## 5857                2                2                0
## 5862                7                2                0
## 5866               13                5                0
## 5873               13                4                0
## 5877               32                4                0
## 5891                9                0                0
## 5914                2                3                1
## 5936                6               21                1
## 5961              143                3                0
## 5969               48                1                0
## 5983                4                4                1
## 5984               17                3                2
## 5993                6                6                1
## 5995               60                4                0
## 6016               28                0                3
## 6022                7                7                2
## 6026               25               10                3
## 6040                6                1                1
## 6042                6               22                0
## 6058               68               24                0
```

```
## 6067                68                 2                 2
## 6081                25                10                 0
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## 6098                39                13                 1
## 6103                 4                10                 2
## 6107                 2                 7                 0
## 6108                12                 3                 1
## 6110                 7                 5                 0
## 6112                 5                 6                 0
## 6125                 6                 3                 0
## 6137                 6                 2                 0
## 6143                 7                 7                 3
## 6153                 5                 4                 2
## 6166                64                 6                 0
## 6198                 6                 3                 0
## 6215                12                 8                 0
## 6216                12                 1                 1
## 6220                11                 3                 0
## 6226                 3                 3                 1
## 6235                13                 1                 0
## 6245                 2                 3                 3
## 6252                17                 1                 0
## 6261                 9                 3                 1
## 6268                42                 1                 1
## 6302               183                 1                 3
## 6304                 2                 2                 9
## 6331                11                 3                 1
## 6337                11                 8                 1
## 6373                 2                 5                 0
## 6379                10                 1                 1
## 6397                 9                 4                 2
## 6401                 7                 1                 0
## 6438                 2                 2                 1
## 6442                36                 1                 1
## 6447                 3                 0                 2
## 6450                96                10                 0
## 6464                 6                 6                 0
## 6506                23                 0                 2
## 6513                 7                 6                 1
## 6519                 6                 3                 1
## 6520                12                 2                 1
## 6580                 7                 4                 3
## 6616                 6                 2                 1
## 6652                 1                 4                 0
## 6667                13                 8                 2
## 6688                47                 5                 0
## 6693                 5                 5                 0
## 6727                 4                 0                 3
## 6732                15                 4                 0
## 6735                38                 0                 4
## 6746                20                 7                 0
## 6754                23                15                 2
## 6770                 5                 4                 0
## 6789                 6                 5                 0
## 6803                16                13                 1
## 6819                32                 1                 0
## 6820                44                 0                 3
## 6822                 8                 8                 0
## 6824                23                 5                 4
## 6834                 4                 4                 1
## 6841                10                23                 0
## 6843                 4                 7                 1
## 6858                15                15                 0
## 6860                48                 5                 6
## 6889                11                11                 2
## 6891                35                 0                 4
## 6894                13                 0                 0
## 6896                 4                16                 0
## 6899                 1                 7                 1
## 6900                 9                 9                 1
## 6917                10                10                 5
## 6919                34                19                 0
## 6923                55                23                 1
## 6934                37                 5                 0
## 6941                 9                20                 0
## 6954                 9                 3                 2
## 6957                32                 9                 1
## 6960                14                 1                 0
## 6962                17                 1                10
## 6965                 7                 9                 0
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## 6989                37                 4                 0
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## 7008                12                 2                 1
## 7009                 4                16                 0
## 7012                11                 9                 1
## 7017                37                 1                 1
## 7033                38                23                 0
## 7037                 5                 6                 0
## 7057                 9                11                 1
## 7060                37                 5                 1
## 7064                 1                 1                 1
## 7085                23                 2                 1
## 7129                 5                17                 1
## 7138                23                 2                 0
## 7145                23                 2                 1
## 7160                27                 0                 0
```

```
## 7174                82                 5                 0
## 7187                 5                 5                 1
## 7189                 9                 0                 0
## 7215                 1                15                 7
## 7216                33                13                 0
## 7238                11                 8                 0
## 7266                20                 1                 4
## 7271                 2                 7                 2
## 7281                 5                 2                 0
## 7284                24                 1                 2
## 7318                 2                 0                 0
## 7343                 2                15                 0
## 7354                 3                 8                 0
## 7373                13                11                 1
## 7380                 2                 6                 0
## 7382                48                10                 0
## 7383                29                 9                 1
## 7411                47                12                 0
## 7439                66                 6                 5
## 7466                14                 3                 3
## 7476                13                 1                 4
## 7521                83                17                 0
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## 7544                25                10                 0
## 7548                 8                 2                 1
## 7560                 5                 3                 0
## 7578                15                 0                 0
## 7581                24                 6                 0
## 7583                25                20                 0
## 7616                47                22                 0
## 7628                72                 0                 3
## 7641                23                 2                 0
## 7648                18                18                 2
## 7664                 2                 7                 0
## 7682                13                24                 0
## 7736                11                 7                 0
## 7750                23                10                 0
## 7753                 4                 4                 0
## 7775                 5                10                 3
## 7785                 3                 0                 1
## 7799                17                 1                 2
## 7809                20                 0                 0
## 7810                 2                 2                 0
## 7812                27                19                 1
## 7815                 5                 7                 0
## 7825                12                 9                 0
## 7830                 2                 3                 0
## 7845                 5                 8                 1
## 7863                22                13                 0
## 7867                 5                 3                 0
## 7877                 8                 4                 0
## 7886                16                 2                 0
## 7892                 1                 1                 0
## 7897                40                 4                 1
## 7906                28                 1                 0
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## 8016                10                 9                 1
## 8045                35                 3                 2
## 8081                14                15                 0
## 8090                22                 4                 0
## 8114                83                 2                 0
## 8124                 7                 3                 1
## 8131                 3                 3                 0
## 8139                30                 6                 0
## 8150                 5                 5                 0
## 8158                 3                22                 0
## 8163                 9                 1                 2
## 8168                 1                 1                 1
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## 8285                 5                 1                 0
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## 8343                41                 1                 2
## 8349                 8                 8                 0
## 8365                55                 1                 0
## 8381                46                 2                 1
## 8398                 2                12                 1
## 8402                19                11                 0
## 8422                30                 4                 0
## 8423                18                 6                 0
## 8442                13                 3                 1
## 8458                48                11                 0
## 8468                 3                 0                 1
## 8469                 6                 0                 2
## 8486                60                 5                 0
## 8508                 3                 6                 3
```

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## 8521                6                2                2
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## 8561                6                8                0
## 8591               59               11                1
## 8604                4                7                0
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## 8615              188               14                1
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## 8650                5                0                0
## 8660                3                0                1
## 8662               19               19                3
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## 8708                5                1                1
## 8731              123                2                0
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## 8739               11                7                0
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## 8820               42                1                1
## 8821               11               11                2
## 8837               31                3                2
## 8843               29               19                1
## 8844                2                3                0
## 8848               14                0                2
## 8858               45                1                1
## 8869                8               13                2
## 8881               19                5                0
## 8882               16                8                0
## 8887                4                1                1
## 8892                9                8                1
## 8894                3                3                0
## 8899                5               10                0
## 8903               10                2                3
## 8908               37               16                0
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## 8932               15                2                1
## 8947               13               12                0
## 8964               28               11                1
## 8986                9                3                0
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## 9011               54                6                2
## 9013               11               11                0
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## 9084               11                2                1
## 9088              126                5                1
## 9129               11                7                1
## 9142                7                7                0
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## 9168                0                5                2
## 9175                2               10                2
## 9185                3                3                0
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## 9206                4                4                2
## 9208               65                2                1
## 9235                1                1                1
## 9269                4                7                3
## 9287                2                2                0
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## 9317               13                2                3
## 9318                3               13                0
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## 9349                8               17                0
## 9359               11                6                0
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## 9369               16                9                5
## 9389                2                0                4
## 9417               11                4                1
## 9420               84                2                0
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## 9449                9                2                1
## 9490                8                0                0
## 9494                6                1                1
## 9513                3                8                1
## 9518               20                5                0
## 9533               79                6                0
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## 9563               37                9                0
## 9568               11                9                0
## 9576                8                2                0
## 9588               22                1                0
## 9634               10                4                1
## 9645                4                2                0
```

```
## 9660                21                 5                 3
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## 9678                10                 7                 0
## 9686                 8                15                 1
## 9707                13                 1                 9
## 9708                 9                 1                 0
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## 9739               150                 5                 0
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## 9822                 9                 9                 1
## 9823                17                17                 1
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## 9885                10                 7                 2
## 9916                 1                 1                 2
## 9935                22                 8                 0
## 9965                 7                11                 1
## 9981                 6                 7                 5
## 9985                 6                 2                 3
## 9986                51                 9                 0
## 10009                1                11                 0
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## 10068                2                 1                 0
## 10074               52                 2                 0
## 10076               16                 1                 0
## 10092               24                 0                 2
## 10101               39                 7                 1
## 10124               18                11                12
## 10128                6                19                 0
## 10129                2                 0                 1
## 10141               16                 1                 0
## 10142                9                 3                 0
## 10163                6                23                 0
## 10165               14                11                 0
## 10179                1                 1                 1
## 10188                7                 0                 1
## 10210                5                17                 0
## 10220               29                 3                 0
## 10221               66                15                 2
## 10240                3                 3                 3
## 10246               46                 5                 2
## 10249               14                 1                 0
## 10262                4                 4                 0
## 10265                6                 4                 0
## 10278                8                 2                 4
## 10288               16                13                 1
## 10319               33                11                 0
## 10328               16                16                 1
## 10329                3                 1                 0
## 10335                2                 3                 1
## 10339               15                11                 0
## 10366                8                 5                 1
## 10371               17                 3                 0
## 10385               11                 1                 0
## 10387                7                 3                 0
## 10417               41                 3                 0
## 10448               18                17                 0
## 10449               50                11                 3
## 10453                2                 2                 1
## 10455               53                 2                 0
## 10460               17                 0                 0
## 10464               41                10                 3
## 10471               44                12                 2
## 10482               57                 6                 0
## 10491               20                 4                 0
## 10494                4                 5                 1
## 10508               19                 7                 0
## 10517                2                 9                 0
## 10530               15                21                 2
## 10532               27                 6                 0
## 10535               15                 1                 0
## 10545                5                19                 3
## 10570               58                 6                 1
## 10573                8                 8                 1
## 10576                8                14                 0
## 10579               16                14                 1
## 10582               51                15                 0
## 10592                7                 2                 2
## 10595                6                 3                 1
## 10601               12                12                 0
## 10614               14                 8                 0
## 10620               11                16                 0
## 10632                2                 2                 0
## 10641                6                 6                 0
## 10646                1                 3                 2
## 10655               21                 6                 2
## 10658               14                 3                 0
## 10661               27                18                 2
## 10680                3                 9                 2
## 10689                8                 0                 0
```

```
##       num_actv_bc_tl num_actv_rev_tl num_bc_sats num_bc_tl num_il_tl
## 16                 0               0           1         3         3
## 38                 3               6           3         7         9
## 47                 3               5           6         8         7
## 77                 1               1           1         1         3
## 88                 3               7           6         8        10
## 112                4               5           4         5        20
## 133                4               4           4         7         8
## 135                3               4           4         4         1
## 145                3               9           3         5         3
## 169                3               3           5        10         6
## 180                1               1           4        13        13
## 191                2               4           2         3         6
## 208                3               6           4         6        28
## 222                2               6           2         2         3
## 226                4               5           8        18         8
## 231                4               5           7         9        17
## 243                2               2           2         2         3
## 244                3               3           5        10        17
## 250                0               0           3         7         1
## 260                4               5           7        10        12
## 271                1               2           1         2        16
## 277                6               9           8         8         5
## 284                2               4           2         6        14
## 292                1               1           6        20        26
## 295                4               6           4         9         4
## 311                3               5           3         5         4
## 355                4              10           4         6        32
## 376                4               6           5         5        22
## 385                1               3           1         7        12
## 392                5               6           6         6        10
## 400                6               9           6         8        12
## 402                2               4           3         4        16
## 413                6               7           6        14        11
## 421                3               3           3         6         1
## 423                7              10           8         8         5
## 424                2               3           2         8         6
## 440                1               1           1         6         9
## 444                4               5           5         5        41
## 509                2               3           3         4         5
## 524                4               6           4         5        10
## 542                3               8           3         6        20
## 581                2               2           2         3         4
## 593                5               9           6         6        11
## 620                3               7           3         9        10
## 669                4               5           5        10        14
## 679                6               7           8        12         6
## 695                8               9          11        25        11
## 698                2               4           4         4         2
## 726                1               3           3         8        15
## 750                3               3          13        15         6
## 755                7               8           7        10         4
## 791                5               6          10        14         6
## 796                2               4           5        11        16
## 805                1               1           1         9         9
## 806                3               8           4         7        55
## 821                2               3           6         8        12
## 837                6               6           8        18        37
## 841                3               6           6         8         4
## 843                3               3           4         5        22
## 860                4               9           6         9         5
## 862                3               4           3         4        19
## 891                3               4           5        15         7
## 911                5               6           5         6         4
## 921                8              12           9        16         8
## 930                7               7           7         8        11
## 952                3               4           3         8        10
## 956                3               5           3         3        11
## 958                1               4           1         5         7
## 967                4               5           4         4         6
## 974                4               7           4         5         6
## 982                0               0           1         9        27
## 1014               1               2           2         9         6
## 1022              11              16          16        18        14
## 1045               2               2           3        13        20
## 1051               6               7           6         8        17
## 1075               7              14           8        12         6
## 1097               4               6           9        12        10
## 1099               2               7           2         4         9
## 1104               2               2           3         6         5
## 1107               2               2           4        13        13
## 1119               8              12          15        17        10
## 1125               1               1           1         1         6
## 1166               4               4           4         4         3
## 1167               3               3           3         3         7
## 1172               1               2           7        18        22
## 1173               4               4           5         5         3
## 1175               1               2           1         5         3
## 1177               5               5           6         7         6
## 1193               2               3           3         7         3
## 1200               3              11           3         5         4
## 1206               1               2           1         2        18
## 1223               0               0           2         8         4
## 1230               4               4           4         4         9
## 1238               1               1           4         6         5
## 1245               1               1           6         7        13
## 1250              11              16          13        14         7
## 1272               2               4           3         4        20
```

```
## 1282          3          5          3          6         34
## 1283          5          9          6          6         13
## 1298          6          8          6          8          9
## 1300          3          6          3          3         14
## 1308          0          0          1          6         11
## 1321          4          6          5         18         10
## 1322          1          1          4          6         24
## 1327          8         10          9          9         26
## 1374          3          3          4          4          6
## 1378          2          4          2          7         14
## 1385          2          2          4          8          7
## 1411          2          3          4          9         13
## 1415          8         12          8         14         12
## 1463          2          2          2          3          8
## 1517          1          1          4          7          5
## 1531          2          3          7         18         33
## 1598          4          4          7          7          4
## 1609          4          7          6          8          3
## 1638          2          2          2          2          8
## 1684          2          5          2          3          6
## 1710          2          3          3          5          7
## 1713          2          2          2          7         19
## 1722         12         13         14         22         13
## 1733          2          2          3          9          6
## 1742          2          2          2          3         11
## 1770          3          3          4          5         13
## 1777         10         16         17         25         17
## 1779          5          7          5          7          9
## 1781          4          5          4          5          6
## 1808          3          4          3          6          5
## 1814          2          3          2          7          7
## 1832          1          2          1          2          8
## 1834          5          9          6         14         11
## 1841          2          4          2          9         17
## 1858          2          4          2          2          5
## 1872          2          2          2          4         20
## 1888          2          2          5          9         10
## 1908          3          4          3          6          4
## 1912          4          8          6         11          4
## 1918          9         11         13         16          5
## 1923          2          3          7         11         11
## 1931          3          4          4         13         14
## 1940          2          6          6         10         11
## 1941          6          7          8          8          8
## 1966          4          6          6         12          1
## 1967          2          2          6          8          5
## 1969          5          5          5          6          8
## 1993          1          1          3          4          9
## 2000          3          3          5          9          2
## 2020          3          3          3          5         29
## 2021          2          2          3          3         22
## 2022          8         15          8          9         24
## 2024          8         14          8         10          3
## 2062          7          8          8         13          6
## 2064          2          3          2          2          8
## 2110          7          8         10         11         28
## 2134          4          9          5         12          9
## 2141          2          3          3          6         21
## 2152          4          7          5          5         10
## 2164          0          1          1          2         35
## 2188          2          2          3          4         16
## 2195          2          3          2          2          9
## 2205          5         10          5          6         13
## 2223          1          1          5         11          4
## 2228          1          2          1          3         30
## 2237          2          4          2          2          6
## 2266          2          2          4          9          8
## 2269          2          2          2          3          6
## 2276          3          4          9         22         16
## 2282          5          8          6          6          4
## 2291          2          4          8          8          8
## 2299          1          3          2          4         10
## 2309          2          6          2          2          5
## 2311          7          9          7         10          8
## 2317          2          4          2          4          8
## 2324          7         11          7          8          5
## 2360          4          4          5          6          8
## 2366         13         17         15         18          4
## 2372          1          1          1          4          2
## 2391          3          7          3          4          4
## 2451          1          3          7         10         10
## 2466          5          7         11         16          6
## 2487          1          5          1          3         15
## 2498          5          6          5          6          7
## 2507          4          4          4          6          5
## 2553          3          4          6         12         14
## 2570          5          6         10         13          8
## 2573          6         10          8         10         11
## 2594          2          3          3          3          9
## 2632          3          4          3          3         13
## 2644          4          7          6         11         15
## 2665          3          5          3          8         14
## 2666          2          2          3          4          7
## 2680          2          5          9         13         13
## 2682          3          3          3          3          4
## 2688          3          4          4          4          3
## 2697          1          4          1          1          2
## 2704          2          4          2          3          6
```

```
## 2739          4          5          5          6          9
## 2741          4          4          5          9         10
## 2750          3          6          3         11          7
## 2751          3          4          4         13         18
## 2754          3          5          3          3          7
## 2762          3          5          4          5          3
## 2764          3          4          3          3          6
## 2778          3          3          4          6          9
## 2802          2          2          5          8          4
## 2818          1          3          2          5         11
## 2822          3          3          6         10          9
## 2841          2          4          4          4          4
## 2848          4          4          5          5          8
## 2888          1          2          6          8          4
## 2922          6          9          6         10         14
## 2941          1          2          2          6         10
## 2956          6         10          8          9         11
## 2970          3          4          3          6         11
## 2986          5          8         11         12          9
## 3006          2          3          2          3         11
## 3030          1          2          3          7          2
## 3035          4          8          4         10         10
## 3044          1          6          1          9         14
## 3048          4          5          4          5          5
## 3063          4          4          9         25          5
## 3064          4          8          7         14          4
## 3072          1          1          3          3          6
## 3080          3          3          6          8          7
## 3082          1          5          9         13         14
## 3097          1          1          3          4         10
## 3098          2          2          2         13         14
## 3135          1          1          1          1          8
## 3151          6          6          6         10          3
## 3153          2          4          5          9          4
## 3171          4          5          5          7         12
## 3205          3          5          4          4          5
## 3217          4          5          4          7         19
## 3225          1          3          8         12         10
## 3227          1          2          1          2         15
## 3234          3          3          4          4         22
## 3239          5          8          9         11          6
## 3247          5         10          6          6         28
## 3331          2          4          4         12         18
## 3334          3          4          5          6          7
## 3372          2          2          3          3          4
## 3379          7         11          7          8          5
## 3393          8          8          8          8          7
## 3395          0          2          4         10         10
## 3403          2          2          2          2         12
## 3410          2          4          2          2         19
## 3413          4         13          4          4          4
## 3417          1          5          3         14         14
## 3487          5          8          5          5          4
## 3513          7         12          7          9          9
## 3521          4          4          8         12         12
## 3532          9         17         13         15          9
## 3558          4          7          5         11          9
## 3562          2          5          2          4          3
## 3571          2          5          5          8         36
## 3574          1          1          1          5          5
## 3581          2          5          2          4          2
## 3589          4          6          7          7         19
## 3605          2          3          3          3         18
## 3630          4          9          5         11         10
## 3631          2          5          8          8          6
## 3640          2          2          4         10         24
## 3642          2          5          3          3         14
## 3644          3          5          4          4          6
## 3653          5          5          6         11         22
## 3662          4          5          6         10          9
## 3663          4          5          6         15         18
## 3691          9         15          9         15          1
## 3713          4          5          8         15         14
## 3726          9         13         10         12          8
## 3746          2          2         10         19          9
## 3751          1          2          2          3          9
## 3757          3          7          3          5         15
## 3761          5          7         10         16         36
## 3763          4          5          4          5         10
## 3770          5          7          5          7          5
## 3774          2          2          2          2         11
## 3775          3          3          4          8          1
## 3786          1          2          5         12         18
## 3809          5          6          5          5          8
## 3824          6          6          8         14         11
## 3832          2          4          5          8          7
## 3845          2          2          2          3          2
## 3864          2          2          2          4         12
## 3877          1          1          1          4          4
## 3890          9          9         15         16          5
## 3907          5          7          5          7         15
## 3918          6         13          7          8          3
## 3925          3          4          6          7          5
## 3927          6          7         11         13         10
## 3945          4          4          5          5         11
## 3946          2          4          4         10          4
## 3972          3          4          4          4         14
## 3986          3          7          3          8          7
```

```
## 3988          6          9          7         32         15
## 4008          1          2          2          7         18
## 4015          5          8          7         14          9
## 4039          2          7          2          3          3
## 4047          1          1          2          4          5
## 4056          0          0          1          6          3
## 4076          1          2          2          3          4
## 4090          9         10         14         15         21
## 4103          3          5          7         13         10
## 4160          2          4          3          3          4
## 4164          3          5          3          7          9
## 4188          2          7          2         27         10
## 4222          4          7          4          4          5
## 4231          4          4          6          6          7
## 4236          9         11          9         10         11
## 4256          3          3          4          6          9
## 4282          3          3          3          4          3
## 4286          3          6          5          7          5
## 4306          5          8          6          7         14
## 4308          4          8          6          8          5
## 4313          5          6          6          7          2
## 4355          2          2          2          2          4
## 4358          3          8          4         12          6
## 4375          1          3          1          5          8
## 4383          2          2          2          3          6
## 4387          7          7         15         17          6
## 4404          3          3          4         10         11
## 4420          3          4          4          5         14
## 4449          1          4          2         11          4
## 4455          4          7          6          7         10
## 4463          2          6          5          8          3
## 4490          4          5          7          8         10
## 4495          3          3          4          4          7
## 4505          3          5          4          9          3
## 4507          4          7          4          5          5
## 4540          4          8          4         12          8
## 4553          3          4          3          4         13
## 4579          5          6          6         10         50
## 4591          3          3          4         10          5
## 4593          3          5          4          4          2
## 4599          5          6          7         14          4
## 4607          4          6          6          6          3
## 4636          6          8         11         13         20
## 4659          5          6          6          7          9
## 4667          8          8          9         13         14
## 4670          6         11         13         19          9
## 4676          6          6          9         11          6
## 4678          6          7          7         13          2
## 4679          2          3          2          8          7
## 4687          3          4          3          3          4
## 4697          5          9          7          7          6
## 4709          3          4          5          7          1
## 4725          2          5          2          6         14
## 4741          6         10         10         12          7
## 4777          6          7          9         11          6
## 4781          1          2          6          8         13
## 4796          1          1          1          7          8
## 4807          7         12          8         10         15
## 4808          4          8          8         13         34
## 4822          6          7          6         17          6
## 4830          4          5          5          9          8
## 4849          2          6          2          9         11
## 4853          4          7          4          5         32
## 4854          1          2          6         11         14
## 4859          6          8          6          7         11
## 4897          6          8          6          9          3
## 4966          0          2          3          8         31
## 4975          3          3          3          6         14
## 4991          0          0          3          3          6
## 5016          4          5          4          4         13
## 5020          2          2          4          5         19
## 5024          6          7          8          8          5
## 5026          4          6          4          7         11
## 5040          2          5          3         16          5
## 5058          4          6          5          7          8
## 5078          4          6          9         11          6
## 5082          7         10          7         10          8
## 5092          3          8          5         19          7
## 5140          3          8         18         40         29
## 5143          2          4          2          2         16
## 5148          0          0          7          8          2
## 5188          2         10          3          6         10
## 5203          4          6          4         13          8
## 5214          4          7          4          5          3
## 5224          2          3          2          8         15
## 5229          3          5          9         25          9
## 5281          2          3          2          3         20
## 5290          5          6          5          5          4
## 5310          1          3          1          2          6
## 5327          2          8          2          3          3
## 5331          4          4          5          8         13
## 5334          2          3          3          7         17
## 5335          9         11          9         14          7
## 5336          1          2          1          2         27
## 5349          6          7          6         10         23
## 5353          3          4          4         12          8
## 5370          4          4          4          4          8
## 5381          7          8          8         11          5
```

```
## 5385          3          6          5          7         53
## 5396          4          5          4          7         14
## 5408          3          3          3          5         15
## 5415          1          3          6         15         14
## 5424          2          4          2          2          4
## 5428          3          3          6         11          4
## 5450          2          3          2          3         11
## 5474          1          1          2          6         16
## 5480          2          2          2          4          8
## 5486          0          1          2          8          8
## 5509          1          3          2         12          6
## 5518          1          3          1          1          3
## 5523          4          6          4          4         10
## 5534          2          3          5          7          5
## 5536          2          3          5          9          6
## 5541          4          6          7         11         14
## 5551          2          3          8         11         14
## 5557          0          1          1          1          1
## 5562          3          3          3          3         14
## 5584          1          2          2          3          4
## 5588          0          1          1          3          9
## 5598          2          4          2          4          3
## 5599          5         10          5         10          5
## 5625          4          7          5          6         10
## 5626          6         10          9         22         14
## 5633          9         13         10         18          6
## 5641          3          4          5          8         30
## 5674          5          5          6          6          4
## 5693          1          2          1          9          8
## 5697          3          4          3          6          7
## 5704          5          6          6          6          8
## 5712          2          8          4         13          3
## 5761          2          6          3          3          6
## 5763          4          6         10         19         33
## 5796          4          6          4          6          4
## 5797          5         14          5          8          7
## 5800          2          3          4          4         56
## 5808          6          7          6          8          7
## 5812          5         10          6          6         10
## 5814          8         10          9         13         15
## 5819          5          6          8         13         12
## 5824          5          7          6          8          1
## 5833          3          3          5          6          3
## 5851          4          7          6         14         11
## 5857          8          9         12         14         11
## 5862          6         12          8         16         14
## 5866          3          4          3         10         20
## 5873          6         12          6          9          9
## 5877          3          5          5          6          6
## 5891          7          8         11         13         20
## 5914          4          8          6          6          6
## 5936          8          8         15         17          1
## 5961          1          1          1          3         10
## 5969          5          8          6          8         14
## 5983          4          8          4         10          6
## 5984          2          4          5          9          6
## 5993          4          8          5          5          4
## 5995          1          3          1         10         13
## 6016          3          3          3          3         16
## 6022          4          5          4          7          1
## 6026          2          4          2          5          8
## 6040          4          6          7          8          7
## 6042          6          7          7          9          6
## 6058          4          4          6         10          5
## 6067          4          5          4          8          4
## 6081          3          6          3          5          6
## 6095          2          2          2          2         28
## 6098          3          6          4          6          5
## 6103          2          4          3          5         11
## 6107          5          5          7         11         11
## 6108          4          7          5          6          9
## 6110          5          5          5          5         10
## 6112          7         17         13         17          3
## 6125          4          5          9         16         12
## 6137          2          4          9         12         20
## 6143          2          3          5          7         33
## 6153          4          9          4          7          2
## 6166          2          2          4          5         13
## 6198          3          5          4          7          9
## 6215          5         10          6         11          5
## 6216          2          3          5          8         20
## 6220          5          5          5          7         16
## 6226          2          4          3          4         10
## 6235          4          4          6          6         22
## 6245          2          5          4         10          1
## 6252          4          5          5          5          5
## 6261          6          7          8         22          8
## 6268          2          3          2          8          4
## 6302          1          1          1          2          9
## 6304          1          5          2         17          7
## 6331          5          6          5          6         32
## 6337          2          2          3          3          1
## 6373          5          7          5          9         12
## 6379          2          3          2          2          4
## 6397          5          5          7         10          2
## 6401          6          8         13         19          8
## 6438          9         15          9         12          7
## 6442          3          5          3          3          9
```

```
## 6447          6          11          11          12           4
## 6450          2           3           2           7          18
## 6464          1           1           2           4           9
## 6506          1           3           2           3          10
## 6513          3           3           6           9          11
## 6519          2           4           4           4           1
## 6520          4           4           7           8           1
## 6580          2           4           5          16           9
## 6616          2           3           3           4           2
## 6652          0           1           7          15          20
## 6667          2           2           2           3          10
## 6688          3           4           3           3          14
## 6693          6          13           7           7          12
## 6727          7           8           9          12          21
## 6732          3           4           4           8           3
## 6735          2           5           3           8           6
## 6746          4           6           7          12           6
## 6754          6           8           9          16           6
## 6770          3           4           8           9           9
## 6789          3           6           3           4          14
## 6803          3           8           3           6           5
## 6819          1           1           2           3           8
## 6820          2           2           2           4          15
## 6822          3           6           3           4           6
## 6824          2           7           2           3          13
## 6834          2           5           4           5          15
## 6841          3           3           3           4           6
## 6843          3           3           3           6           1
## 6858          4           8           4           4           7
## 6860          1           1           1           2           7
## 6889          1           2           1           5           6
## 6891          4           5           8           9          16
## 6894          3           3           3          22           6
## 6896          3           4           4           5           9
## 6899          6          12           6          13          33
## 6900          3           4           5           7           6
## 6917          3           4           3           7           7
## 6919          1           3           1           7           7
## 6923          2           4           3           5           4
## 6934          1           3           1          10          10
## 6941          4           9           4           6           5
## 6954          2           4           8          12           9
## 6957          4           6           7           7           4
## 6960          4           4           5           7          11
## 6962          3           4           3           8          12
## 6965          1           4           1           7           7
## 6971          3           8           3           4           4
## 6977          6           8           6          11          27
## 6989          3           3           3           5          28
## 7001          3           4           4           8           8
## 7008          1           3           3           4          15
## 7009          2           2           2           4           8
## 7012          2           6           2           3           6
## 7017          2           2           2           2           9
## 7033          2           2           4           5          21
## 7037          3           5           3           3          12
## 7057          7          11           7          21           5
## 7060          3           8           3           6           6
## 7064          6           9           7          15          12
## 7085          2           7           2           2           7
## 7129          4           6           6           7          10
## 7138         12          13          16          22          10
## 7145          2           6           3           4           5
## 7160          0           1           9          15          19
## 7174          2           5           4           8          18
## 7187          2           4           3           4          18
## 7189          2           2           4          12           7
## 7215          2           3           4          12           3
## 7216          9          10          16          22           6
## 7238          6           7           6           7           2
## 7266          2           3           5           7           6
## 7271          5           7           9          18           3
## 7281          3           4           3           5           7
## 7284          2           2           2           6          12
## 7318         10          11          10          14           6
## 7343          1           1           3           7           8
## 7354          5           5           5           8           2
## 7373          6           6           6           6           5
## 7380          4           5           7           9           8
## 7382          9          12           8          13           9
## 7383          2           3           2           4           5
## 7411          1           6           1           3          16
## 7439          3           5           5          11           6
## 7466          4           5           4           8           4
## 7476          4           4           6          17          23
## 7521          1           1           1           2           3
## 7522          5          11           6          14          11
## 7544          3           3           9          16           7
## 7548          2           3           2           8          22
## 7560         10          11          11          11          25
## 7578          3           4           5          10           8
## 7581          3           3           3           7           5
## 7583          3           4           3           3           3
## 7616          5           9           5           6           5
## 7628          1           1           1           3           8
## 7641          2           3           2           2          12
## 7648          3           3           5          11           5
## 7664          4           8           4           6          58
```

```
## 7682          1          1          3         10          1
## 7736          6         12          6          9         14
## 7750          7         14          7         10         17
## 7753          3          4          3          3          6
## 7775          9         13         12         19          4
## 7785          2          3          4         11          5
## 7799          1          3          2          4         26
## 7809          3          4          6          6          4
## 7810          4          4         10         11         22
## 7812          4          4          4          8          5
## 7815          6          8          7         12         16
## 7825          8         11          9         14         12
## 7830          7         13         11         14         13
## 7845          3          5          3          4          2
## 7863          6         13          8         10         14
## 7867          3          6          3          3         15
## 7877          2          4          3          5          5
## 7886          6          7          7          9         14
## 7892          1          1          2          3          5
## 7897          4          4          6         11          4
## 7906         11         15         12         12         15
## 7927          1          2          1          8         46
## 7943          1          2          1          6         32
## 7970          3          7          6          8          6
## 7994          7          8          7         13          4
## 8010          6          9          6          9         12
## 8016          3          4          3          5          6
## 8045          0          2          2          5         14
## 8081          4          4          4          7          2
## 8090          2          6          2          2         17
## 8114          2          4          2          3          3
## 8124          3          3          5          7          7
## 8131          3          3          3          5          8
## 8139          3          8          3          6         30
## 8150          4          4          6         15          8
## 8158          2          3          2          2         11
## 8163          1          4          2          2          5
## 8168          5          5          7         11          6
## 8191          2          2          3          3         11
## 8205          8          9          9         12          5
## 8219          1          2          1          4          9
## 8225          4          8          4         10         19
## 8251          2          2          2          2          8
## 8253          4          6          5          9         34
## 8263          5          8          7          8          6
## 8271          2         12          2          9          2
## 8285          3          3          4         11         10
## 8296          6          7          6          6          6
## 8300          1          1          2          5          4
## 8326          5          6          8         11          6
## 8343          2          3          2          2          9
## 8349          2          5          7          8          6
## 8365          6         10          6         10          8
## 8381          2          5          3          3         18
## 8398          3          4          3          4          5
## 8402          3          4          6          7         31
## 8422          3          5          5          6          7
## 8423          5          6          5          5         20
## 8442          4          6          5          8          8
## 8458          2          3          2          5          6
## 8468          4          7          4         10         10
## 8469          6         10          6          8          4
## 8486          2          3          2         10         10
## 8508          3          4          4          6          2
## 8521         13         13         16         21         19
## 8527          8          9         10         13         16
## 8551          2          4          2          3          5
## 8561          6          8          6         11         21
## 8591          2          2          2          9          7
## 8604          3          3          4          8          9
## 8613          7          7         18         21         45
## 8615          1          4          1          2          6
## 8616          3          4          7          7         11
## 8628          2          2          2          2          8
## 8629          2          4          2          8          8
## 8642          2          6          2          3          7
## 8643          1          1          3          3          4
## 8650          6          8          7         13         12
## 8660          8         10         13         14          9
## 8662          3          4          3          5          8
## 8683          1          2          2          9         18
## 8689          2          4          4          4         12
## 8700          2          4          3          4         10
## 8703          2          6          3          8         19
## 8705          1          2          5         20         14
## 8708          3          4          5         11          3
## 8731          1          2          1          3          6
## 8737          3          3          3          6         13
## 8739          2          4          6         12          7
## 8744          1          1          2          2         18
## 8769          4          6          4          5          1
## 8797          2          2          2          3         30
## 8818          2          2          3          4         11
## 8820          6          8          8         14         22
## 8821          2          2          5          8         20
## 8837          6         11          6         14          6
## 8843          3          3          3          7          8
## 8844          6          8          8         12         24
```

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## 8848          2          7          2          3          1
## 8858          2          2          2          3          8
## 8869          2          4          2          2          8
## 8881          1          3          1          3          5
## 8882          3          3          5          8          7
## 8887          6          8          8          8          2
## 8892          3          4         10         14         21
## 8894          5          5          5          7         13
## 8899          1          2          2          5          8
## 8903          1          2          1          2          8
## 8908          3          7          3         11          2
## 8925          2          3          4         15         10
## 8932          2          3          8         14         12
## 8947          6          8         11         17         12
## 8964          4          5          5          5          5
## 8986         12         13         14         15         10
## 9008          1          4          1          1         14
## 9011          0          1          1          5          9
## 9013          3          5          4          8          1
## 9021          2          2          3         10          5
## 9023          3          4          4          5          5
## 9054          8         11          8         10          9
## 9084          4          5          4          7          8
## 9088          1          1          1          1          3
## 9129          2          2          7         10          1
## 9142          3          3          4         12          9
## 9146          5          6          6         14         14
## 9168          3          3          7         11         21
## 9175          2          3          4          7          8
## 9185         11         15         15         20          7
## 9191          1          2          3          9          2
## 9206          3          4          8          8          7
## 9208          5          7          6         14         16
## 9235          3          3          8          9          2
## 9269          3          3          6         13          3
## 9287          2          4          3          4          4
## 9313          1          3          1          6         11
## 9317          2          3          2          6          4
## 9318          4          4          9         26          6
## 9322          4          4          5         15          4
## 9349          3          3          3          5          8
## 9359          3          5          3         19          5
## 9360          4          8          5          7         10
## 9368          1          1          2          5          2
## 9369          4          7          6          8         14
## 9389          7         10         10         21         15
## 9417          3          3          5          5          7
## 9420          3          3          4          8          5
## 9423          5          7          6          9          6
## 9428          2          4          4         10         30
## 9449          2          2          6          8          8
## 9490          3          3          5          6         21
## 9494          6          7          9         10          3
## 9513          6          6          6          7          5
## 9518          3          4          4          4          9
## 9533          2          8          2          4         28
## 9548          3          3          3          3          8
## 9561          3          4          3         10          2
## 9563          1          1          4          9          4
## 9568          3          3          5         10         13
## 9576          3          4          4          4          8
## 9588          3          5          4          4          8
## 9634          5          6          5          9          4
## 9645          4          6          5          5          9
## 9660          5          5          6          8         13
## 9663          3          5          3          4          1
## 9675          2          3          4         11         26
## 9678          5          6          6          7         15
## 9686         11         12         11         12         11
## 9707          3          3          3         15         10
## 9708          5          5         11         12         10
## 9720          3          4          3          6         18
## 9724          3          5          5         11          8
## 9730          3          5          3          4          4
## 9739          3          5          3          4          6
## 9749          3          3         12         23          6
## 9759         10         13         10         10         10
## 9771          3          4          4          7          4
## 9802          2          3          2          3         10
## 9807          3          5          3          4         10
## 9818          1          6          1          1          5
## 9822          2          3          4          4          1
## 9823          0          0          4          8         18
## 9869          3          5          3          8          9
## 9885          1          3          5         13         31
## 9916          7         14         11         14         12
## 9935          1          3          1          2          2
## 9965          5          9          6         10          6
## 9981          5          7          6          8         10
## 9985          2          3          4          6          3
## 9986          1          3          1          1          5
## 10009         5          7          9          9          3
## 10012         4          8          4          5          1
## 10027         6          6         10         17          3
## 10068         2          4         11         16         16
## 10074         3          4          4          6         21
## 10076         1          3          5          6          6
## 10092         4          4          4          7         34
```

```
## 10101             1              2          1        4        4
## 10124             4              7          4        8       29
## 10128             3              4         12       12       11
## 10129             8              9         10       13        7
## 10141             1              2          2        2        7
## 10142             7              7         11       14       10
## 10163             1              1          8       13        4
## 10165             3              7          4        4        4
## 10179             2              4          2        5        4
## 10188             5              7          6        7        6
## 10210             3              3          6        8        9
## 10220             1              5          1        7       12
## 10221             4              4          4        7        7
## 10240             6              8          9       11        5
## 10246             5              6          9       15       13
## 10249             5              7          6        6       28
## 10262             3              4          4        5        3
## 10265             5              9         14       23       12
## 10278             5              7          7       12       11
## 10288             0              0          5        8        2
## 10319             7              8          9       10        6
## 10328             1              3          2        3        2
## 10329             2              2          3        7       17
## 10335             5              5          7       15       16
## 10339             4              4          5        9        7
## 10366             3              7          3        5        6
## 10371             1              4          5        6        4
## 10385             7             10          9       19       23
## 10387             4              6         11       20       14
## 10417             1              4          1       11        6
## 10448             5              9          5        6        3
## 10449             2              3          2        2       21
## 10453            10             13         13       16       11
## 10455             1              6          1        3       12
## 10460             4              7          6        6        4
## 10464             2              2          2        2       10
## 10471             2              2          2        3       18
## 10482             1              2          1        4       11
## 10491             4              4         11       12        9
## 10494             3              4          7        8       14
## 10508             1              1          2        7        6
## 10517             4              7          4        4        7
## 10530             4              4          6       10       15
## 10532             2              9          2        2        8
## 10535             5             12          6       12       30
## 10545             2              3          5        9        4
## 10570             2              5          2        3        4
## 10573             3              5          4        6        4
## 10576             6              9          8       11        9
## 10579             5              6          5        9       10
## 10582             6             11          6        7       16
## 10592             1              1         10       13       20
## 10595             4              9          4        5        3
## 10601             1              1          4        8        3
## 10614             6              8          6        6        9
## 10620             2              3          2        3       16
## 10632             2              2          2        9       20
## 10641             4              6          5        8       15
## 10646             5              5          7        7        8
## 10655             2              3          2        3        7
## 10658             2              3          6        7        8
## 10661             5              8          9       10       12
## 10680             3              4          3        4       11
## 10689             3              5          3        8        3
##       num_op_rev_tl num_rev_accts num_rev_tl_bal_gt_0 num_sats num_tl_120dpd_2m
## 16                5             8                  0        6               0
## 38                7            13                  6       10               0
## 47                8            10                  5       11               0
## 77                1             4                  1        3               0
## 88               10            13                  7       15               0
## 112               5             9                  5       14               0
## 133               6            13                  4        8               0
## 135               7             7                  4        8               0
## 145               9            16                  9       12               0
## 169              11            26                  3       15               0
## 180               5            20                  1        7               0
## 191               5            10                  4        8               0
## 208               8            16                  6       15               0
## 222               7             9                  6        8               0
## 226              10            21                  5       12               0
## 231              12            21                  5       18               0
## 243               2             3                  2        4               0
## 244               9            22                  3       21               0
## 250               3             8                  0        7               0
## 260               8            13                  5        9               0
## 271               5             9                  2       17               0
## 277              12            20                  9       16               0
## 284               5            10                  4        9               0
## 292              13            45                  1       17               0
## 295               7            15                  6        9               0
## 311               6            10                  5        8               0
## 355              12            15                 10       14               0
## 376              12            18                  6       19               0
## 385               4            22                  3       10               0
## 392               8            10                  6       12               0
## 400              12            21                  9       16               0
## 402               6             8                  4       12               0
## 413               9            26                  7       12               0
```

```
## 421          9          25           3        10           0
## 423         18          22          11        22           0
## 424          4          10           3         8           0
## 440          3          11           1         8           0
## 444          7           7           5        10           0
## 509          5           7           3         6           0
## 524          6           9           6         8           0
## 542         11          19           8        27           0
## 581          4           7           2         8           0
## 593         10          12           9        14           0
## 620          9          15           7        15           0
## 669          7          17           5        11           0
## 679         12          21           7        17           0
## 695         18          43           9        22           0
## 698          6           6           4         9           0
## 726          5          15           3        10           0
## 750         15          19           3        16           0
## 755         10          15           8        11           0
## 791         20          34           6        23           0
## 796         15          25           4        19           0
## 805          3          18           1         6           0
## 806         10          16           8        20           0
## 821         10          16           3        13           0
## 837         10          23           6        16           0
## 841         12          26           6        13           0
## 843          5           7           3        22           0
## 860         13          19           9        18           0
## 862          4           8           4        19           0
## 891          8          26           4         9           0
## 911          7           9           6        11           0
## 921         14          26          12        17           0
## 930          7           8           7        11           0
## 952          4          10           4         7           0
## 956          6           6           5        13           0
## 958          5          11           4         9           0
## 967          5           5           5         7           0
## 974         10          16           7        14           0
## 982          8          28           0        15           0
## 1014         4          12           2         6           0
## 1022        24          31          16        30           0
## 1045         3          13           2         5           0
## 1051         9          13           7        15           0
## 1075        17          25          14        22           0
## 1097        13          23           6        15           0
## 1099        10          14           7        14           0
## 1104         6          13           2         8           0
## 1107         4          17           2        12           0
## 1119        22          26          12        28           0
## 1125         1           2           1         4           0
## 1166         6           7           4         8           0
## 1167         3           3           3         8           0
## 1172        15          43           2        18           0
## 1173         6           7           4         7           0
## 1175         2           7           2         5           0
## 1177         8           9           5        12           0
## 1193         4          13           3         5           0
## 1200        12          16          12        16           0
## 1206         4           9           2        10           0
## 1223         3          13           0         6           0
## 1230         6           6           4        12           0
## 1238         6           8           1         9           0
## 1245         8          15           1        12           0
## 1250        24          30          16        26           0
## 1272         7           9           4        16           0
## 1282        10          17           5        15           0
## 1283        12          16          10        16           0
## 1298         9          13           8        10           0
## 1300        14          19           6        15           0
## 1308         6          19           0         9           0
## 1321         9          30           6        12           0
## 1322         8          12           1        14           0
## 1327        12          12          10        22           0
## 1374         5           5           3         7           0
## 1378         4          20           4         8           0
## 1385         8          15           2        10           0
## 1411         6          19           3        11           0
## 1415        19          32          12        24           0
## 1463         3           7           2         7           0
## 1517         5           9           1         8           0
## 1531        12          30           3        19           0
## 1598         8           9           5        12           0
## 1609        15          19           7        16           0
## 1638         2           2           2         5           0
## 1684         9          14           5        11           0
## 1710         8          12           3        10           0
## 1713         2           8           2         6           0
## 1722        15          25          13        21           0
## 1733         3           9           2         7           0
## 1742         2           7           2         5           0
## 1770         5          11           3         9           0
## 1777        33          52          16        39           0
## 1779         7           9           7        10           0
## 1781         5           6           5         9           0
## 1808         6          12           4         9           0
## 1814        10          17           3        13           0
## 1832         2           3           2         6           0
## 1834        14          29           9        17           0
## 1841         5          21           4         9           0
```

```
## 1858          4          7          4       7          0
## 1872          3          6          2      16          0
## 1888          8         14          2       9          0
## 1908          4          7          4       5          0
## 1912         20         35          8      21          0
## 1918         20         26         11      23          0
## 1923         12         18          3      14          0
## 1931          6         21          4       8          0
## 1940         14         23          6      16          0
## 1941         12         13          7      17          0
## 1966         11         25          6      13          0
## 1967         10         14          2      13          0
## 1969          6         10          5       8          0
## 1993          4          8          1       7          0
## 2000          5         10          3       6          0
## 2020          9         14          3      26          0
## 2021          4          5          2       7          0
## 2022         17         19         15      22          0
## 2024         17         20         14      20          0
## 2062         11         21          8      14          0
## 2064          7         12          3      10          0
## 2110         14         17          8      19          0
## 2134         13         27          9      17          0
## 2141          5          9          3      10          0
## 2152         12         17          7      15          0
## 2164          3          4          1      19          0
## 2188          6          7          2      13          0
## 2195          3          7          3       8          0
## 2205         11         18         10      15          0
## 2223          5         18          1       7          0
## 2228          3          6          3      10          0
## 2237          5          6          4       8          0
## 2266          4          9          2       9          0
## 2269          2          5          2       4          0
## 2276         11         27          4      15          0
## 2282          9          9          8      14          0
## 2291         14         15          4      17          0
## 2299          9         12          4      10          0
## 2309          8          8          6      10          0
## 2311          9         14          9      12          0
## 2317          5          8          4       8          0
## 2324         14         18         11      15          0
## 2360          7         10          4      10          0
## 2366         25         34         17      28          0
## 2372          2         12          1       4          0
## 2391          8         10          7      10          0
## 2451         12         24          3      16          0
## 2466         16         23          7      18          0
## 2487          5          9          5      12          0
## 2498          7          9          7       9          0
## 2507          4          6          4       6          0
## 2553         11         19          4      14          0
## 2570         20         26          6      25          0
## 2573         15         26         10      20          0
## 2594          4         11          3       8          0
## 2632          4          4          4       9          0
## 2644          9         16          7      15          0
## 2665          5         11          5       9          0
## 2666          3         10          2       5          0
## 2680         16         24          6      18          0
## 2682          5          5          3       7          0
## 2688          5          5          4      10          0
## 2697          5          6          4       6          0
## 2704          5          8          4       9          0
## 2739          6          7          5       9          0
## 2741          5          9          4       7          0
## 2750          6         21          6       8          0
## 2751          7         19          4      10          0
## 2754          6          8          5       8          0
## 2762          6          8          5       9          0
## 2764          7          9          4      10          0
## 2778          5         11          3       8          0
## 2802          5         11          2       7          0
## 2818          4         11          3       8          0
## 2822         10         19          3      12          0
## 2841         11         14          4      12          0
## 2848          5          5          4       9          0
## 2888          8         14          2      10          0
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## 2941          4         12          2       9          0
## 2956         13         16         10      16          0
## 2970          4          9          4       8          0
## 2986         15         17          8      18          0
## 3006          3          5          3       7          0
## 3030          8         17          2      12          0
## 3035         10         20          8      14          0
## 3044          7         18          6      12          0
## 3048          6          6          5       7          0
## 3063         11         53          4      15          0
## 3064         23         46          8      25          0
## 3072          3          4          1       6          0
## 3080         10         21          3      11          0
## 3082         15         23          5      17          0
## 3097          5          7          1      10          0
## 3098          3         22          2       7          0
## 3135          2          2          1       3          0
## 3151          7         13          6      10          0
## 3153         10         17          4      12          0
```

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## 3225         11          19           3        16           0
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## 3234          5           7           3        16           0
## 3239         17          24           8        19           0
## 3247         12          12          10        20           0
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## 3334          7           9           4        12           0
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## 3395         11          20           2        17           0
## 3403          4           6           2         8           0
## 3410          5           6           4        10           0
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## 3417          9          29           5        12           0
## 3487          9          10           8        12           0
## 3513         14          19          12        17           0
## 3521          8          12           4        12           0
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## 3562          7          11           5         9           0
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## 3581          5           8           5         6           0
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## 3640          4          14           2        17           0
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## 3746         15          27           2        16           0
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## 3864          2           5           2         5           0
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## 3946         12          25           4        16           0
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## 4103         20          34           5        23           0
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## 4164          6          18           5         7           0
## 4188         12          48           7        15           0
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## 4256          7           9           3        12           0
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## 4455         12          15           7        14           0
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## 4495          4           4           3         5           0
## 4505         10          18           5        13           0
```

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## 4593          7           8           5        9           0
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## 5523          6           8           6       12           0
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## 5551         15          23           3       18           0
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## 5761          8          12           6       10           0
## 5763         21          36           6       23           0
```

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## 5814         12          24          10      19           0
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## 6245          8          24           5      10           0
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## 6519          7           8           4       9           0
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## 6580         11          22           4      13           0
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## 6688          4           4           4      12           0
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## 6727         13          17           8      16           0
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## 6735          9          22           5      10           0
## 6746         16          26           6      18           0
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## 6822          8          14           6      10           0
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## 6843          3           6           3       4           0
## 6858         15          19           8      20           0
## 6860          1           2           1       3           0
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## 6891         16          24           5      22           0
## 6894          3          28           3       6           0
## 6896          7          10           4      15           0
```

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## 7037           8          10               5      15              0
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## 7085           8           8               7      11              0
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## 7145           7           8               6      12              0
## 7160          14          23               1      17              0
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## 7284           2           8               2       9              0
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## 7560          16          16              11      19              0
## 7578           7          18               6      11              0
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## 8090           7           7               6      12              0
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## 8131           5           7               3      10              0
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```

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## 8932         13          19           3      23           0
## 8947         20          37           8      27           0
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## 8986         16          18          13      19           0
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## 9023          6           8           4       8           0
## 9054         12          17          11      16           0
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## 9129         11          14           2      12           0
## 9142          6          17           3       9           0
## 9146          9          20           6      11           0
## 9168         14          22           3      18           0
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## 9208         13          29           7      24           0
## 9235          9          12           3      11           0
```

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## 9494          12          14           7        13           0
## 9513           6           7           6         8           0
## 9518           5           5           4         8           0
## 9533          10          15           8        13           0
## 9548           4           5           3         9           0
## 9561           5          17           4         7           0
## 9563           6          13           2         7           0
## 9568          12          30           3        16           0
## 9576          10          10           4        14           0
## 9588           7          13           5        10           0
## 9634           6          14           6         9           0
## 9645           8           8           6        10           0
## 9660           8          13           5        12           0
## 9663           6          11           5         7           0
## 9675           6          16           3        18           0
## 9678          13          16           6        20           0
## 9686          12          15          12        16           0
## 9707           4          27           3        10           0
## 9708          15          17           5        19           0
## 9720           4           8           4        10           0
## 9724          13          27           5        16           0
## 9730           6           7           5         9           0
## 9739           6           9           5        11           0
## 9749          14          29           3        19           0
## 9759          18          21          13        20           0
## 9771          10          18           4        11           0
## 9802           6          12           3         8           0
## 9807           7          11           5         8           0
## 9818           9          18           6        10           0
## 9822           5           5           3         9           0
## 9823           6          14           0        24           0
## 9869           6          19           5        12           0
## 9885          13          26           3        18           0
## 9916          23          32          14        27           0
## 9935           4           6           3         6           0
## 9965          12          18           9        14           0
## 9981           8          11           7        17           0
## 9985           5          11           3         7           0
## 9986           4           6           3         7           0
## 10009         15          15           7        16           0
## 10012         10          15           8        12           0
## 10027         12          24           6        16           0
## 10068         19          30           4        25           0
## 10074          5           8           4        13           0
## 10076          8          11           3        10           0
## 10092          6          11           4        10           0
## 10101          6          10           2         8           0
## 10124          8          13           7        15           0
## 10128         14          16           4        17           0
## 10129         13          20           9        15           0
## 10141          3           4           2         7           0
## 10142         14          22           7        18           0
## 10163         11          20           1        12           0
## 10165          8          10           7        11           0
## 10179          6          10           4         7           0
## 10188         10          13           7        11           0
## 10210          6           9           3        14           0
## 10220          6          20           5        10           0
## 10221          4          11           4         6           0
## 10240         13          16           8        15           0
## 10246         18          30           6        23           0
## 10249          9          10           7        18           0
## 10262          7           9           4         8           0
## 10265         29          47           9        32           0
## 10278         18          27           7        19           0
## 10288          5           9           0         7           0
## 10319         11          13           8        14           0
## 10328          7           8           3         8           0
## 10329          4          14           2         9           0
## 10335          8          26           5        11           0
## 10339          6          11           4        10           0
## 10366         10          20           7        11           0
## 10371          9          10           4        13           0
## 10385         15          27          10        23           0
## 10387         19          42           6        21           0
## 10417          4          23           4         6           0
## 10448         10          11           9        13           0
## 10449          3           3           3         7           0
## 10453         17          23          13        21           0
## 10455          7          15           6        11           0
```

```
## 10460          10          11                7      13              0
## 10464           3           3                2       5              0
## 10471           5          11                2       7              0
## 10482           2           8                2       6              0
## 10491          14          15                4      17              0
## 10494          11          13                4      23              0
## 10508           3          10                1       7              0
## 10517          10          15                7      11              0
## 10530           6          10                4       9              0
## 10532           9           9                9      13              0
## 10535          16          27               12      21              0
## 10545          12          24                3      13              0
## 10570           5           9                5       7              0
## 10573           7          11                5       9              0
## 10576          11          17                9      13              0
## 10579           6          10                6       8              0
## 10582          13          23               11      20              0
## 10592          15          19                1      17              0
## 10595          11          14                9      13              0
## 10601           5          12                1       6              0
## 10614           8          10                8      11              0
## 10620           4           8                3      11              0
## 10632           2          10                2       4              0
## 10641          10          14                6      15              0
## 10646           9          11                5      13              0
## 10655           4          11                3       8              0
## 10658          10          16                3      11              0
## 10661          16          26                8      18              0
## 10680           4           6                4       6              0
## 10689           5          15                5       7              0
##       num_tl_30dpd num_tl_90g_dpd_24m num_tl_op_past_12m pct_tl_nvr_dlq
## 16               0                  0                  3           83.3
## 38               0                  0                  1           92.3
## 47               0                  0                  4           93.8
## 77               0                  0                  0           62.5
## 88               0                  0                  4          100.0
## 112              0                  0                  2           93.8
## 133              0                  0                  1           95.2
## 135              0                  1                  2           80.0
## 145              0                  0                  0           90.9
## 169              0                  0                  2           97.1
## 180              0                  0                  3           94.4
## 191              0                  0                  1           77.8
## 208              0                  0                  4           97.8
## 222              0                  0                  2           92.3
## 226              0                  0                  4           93.3
## 231              0                  0                  5           94.7
## 243              0                  0                  1           72.7
## 244              0                  0                  4           97.4
## 250              0                  0                  1           88.9
## 260              0                  0                  6           95.0
## 271              0                  0                  2           96.0
## 277              0                  0                  5           86.2
## 284              0                  0                  3           92.6
## 292              0                  0                  9           82.1
## 295              0                  0                  2           95.2
## 311              0                  0                  0           92.9
## 355              0                  0                  2           67.4
## 376              0                  0                  3           91.5
## 385              0                  0                  1           75.0
## 392              0                  0                  3           95.5
## 400              0                  0                  5           91.2
## 402              0                  0                  4           85.7
## 413              0                  0                  4           96.8
## 421              0                  0                  6           85.2
## 423              0                  1                  5           93.3
## 424              0                  0                  2           60.0
## 440              0                  5                  1           77.3
## 444              0                  0                  0           98.0
## 509              0                  0                  1           84.6
## 524              0                  0                  3           84.2
## 542              0                  0                 11           97.4
## 581              0                  0                  1           92.9
## 593              0                  1                  2           89.7
## 620              0                  0                  4           95.2
## 669              0                  0                  4           97.1
## 679              0                  0                  2           61.3
## 695              0                  0                  4           98.2
## 698              0                  0                  3           90.0
## 726              0                  0                  4           96.4
## 750              0                  0                  2           96.3
## 755              0                  0                  2           90.0
## 791              0                  0                  3           95.0
## 796              0                  0                  7           95.3
## 805              0                  0                  4           88.9
## 806              0                  0                  0           95.8
## 821              0                  0                  5           79.3
## 837              0                  0                  5           98.4
## 841              0                  0                  2           96.8
## 843              0                  0                  4           96.6
## 860              0                  0                  1           96.4
## 862              0                  0                  5           93.1
## 891              0                  0                  5           95.7
## 911              0                  0                  1           77.8
## 921              0                  0                  2           97.1
## 930              0                  0                  1           95.5
## 952              0                  0                  2           95.5
## 956              0                  0                  4           94.7
```

```
## 958          0              0              2          90.5
## 967          0              0              0          93.8
## 974          0              0              3          92.3
## 982          0              0              0          80.4
## 1014         0              0              1          73.7
## 1022         0              0              8          97.9
## 1045         0              0              4          97.0
## 1051         0              0              5          93.5
## 1075         0              0              2          97.0
## 1097         0              0              6          97.1
## 1099         0              0              2          81.8
## 1104         0              0              2          78.3
## 1107         0              0              2          96.9
## 1119         0              0              5          97.4
## 1125         0              0              2          87.5
## 1166         0              0              2         100.0
## 1167         0              0              0          90.9
## 1172         0              0              7          98.5
## 1173         0              0              0          90.0
## 1175         0              0              0          92.9
## 1177         0              0              0          88.2
## 1193         0              0              4          93.8
## 1200         0              0              1          75.0
## 1206         0              0              2          80.6
## 1223         0              2              0          91.3
## 1230         0              0              2          94.7
## 1238         0              0              1          77.8
## 1245         0              0              4          85.7
## 1250         0              0              1          97.3
## 1272         0              0              0          96.2
## 1282         0              0              5         100.0
## 1283         0              0              0          96.6
## 1298         0              0              1          95.7
## 1300         0              0              4          94.3
## 1308         0              0              3          81.8
## 1321         0              0              2         100.0
## 1322         0              0              7          85.0
## 1327         0              0              4          97.1
## 1374         0              0              4          84.6
## 1378         0              0              6          80.6
## 1385         0              0              1          83.3
## 1411         0              0              1          91.7
## 1415         0              0              5          73.9
## 1463         0              0              2          94.1
## 1517         0              0              4          83.3
## 1531         0              0              7          98.4
## 1598         0              0              3         100.0
## 1609         0              0              7          95.5
## 1638         0              0              1          69.2
## 1684         0              0              1          63.2
## 1710         0              0              3          95.5
## 1713         0              0              1          96.7
## 1722         0              0              3          97.6
## 1733         0              0              2          95.0
## 1742         0              0              1          94.7
## 1770         0              0              4          90.3
## 1777         0              0              8          97.1
## 1779         0              0              0          94.4
## 1781         0              0              2          92.3
## 1808         0              0              1          95.0
## 1814         0              0              3          88.5
## 1832         0              0              4          90.9
## 1834         0              0              4          69.8
## 1841         0              0              3          97.6
## 1858         0              0              2          91.7
## 1872         0              0              2          96.2
## 1888         0              0              4          92.0
## 1908         0              0              3         100.0
## 1912         0              0              2          90.0
## 1918         0              0              3          90.9
## 1923         0              0              5         100.0
## 1931         0              0              3          96.8
## 1940         0              1              2          91.2
## 1941         0              0              3          91.7
## 1966         0              0              5          66.7
## 1967         0              0              5          93.8
## 1969         0              0              0          95.2
## 1993         0              0              0          84.2
## 2000         0              0              0          91.7
## 2020         0              0              2          95.7
## 2021         0              0              1          96.2
## 2022         0              0              3         100.0
## 2024         0              0              8          96.0
## 2062         0              0              1          96.3
## 2064         0              0              2          87.0
## 2110         0              0              4          97.8
## 2134         0              0              1          92.7
## 2141         0              0              3          96.9
## 2152         0              0              0          96.4
## 2164         0              0              4          92.7
## 2188         0              0              2          87.5
## 2195         0              0              1          94.7
## 2205         0              0              2          86.2
## 2223         0              0              2          96.2
## 2228         0              0              5          97.4
## 2237         0              0              4          92.9
## 2266         0              0              0          94.4
## 2269         0              0              2          92.9
```

```
## 2276          0                0                3          93.2
## 2282          0                0                4          87.5
## 2291          0                0                6          95.8
## 2299          0                1                4          91.3
## 2309          0                0                3          92.3
## 2311          0                0                1          60.0
## 2317          0                0                2          77.8
## 2324          0                0                0          91.7
## 2360          0                0                1          94.4
## 2366          0                0               10         100.0
## 2372          0                0                0          75.0
## 2391          0                0                2          73.3
## 2451          0                0                3          81.6
## 2466          0                0                8         100.0
## 2487          0                0                2          96.4
## 2498          0                0                1         100.0
## 2507          0                0                2          76.9
## 2553          0                0                3          94.9
## 2570          0                0                4          97.0
## 2573          0                2                2          95.1
## 2594          0                0                3          95.5
## 2632          0                0                1          95.0
## 2644          0                0                2          92.1
## 2665          0                0                2          92.3
## 2666          0                0                1          93.8
## 2680          0                0                3          97.2
## 2682          0                0                4          77.8
## 2688          0                1                3          72.7
## 2697          0                0                1          83.3
## 2704          0                0                1          87.5
## 2739          0                0                1          94.4
## 2741          0                0                2          95.0
## 2750          0                0                3          73.3
## 2751          0                0                4          94.9
## 2754          0                0                2          93.3
## 2762          0                0                0          92.9
## 2764          0                0                1          58.8
## 2778          0                0                2          85.7
## 2802          0                0                1          93.3
## 2818          0                0                7          88.0
## 2822          0                0                1          89.7
## 2841          0                0                2          95.0
## 2848          0                0                3          85.7
## 2888          0                0                1          85.7
## 2922          0                0                4          97.1
## 2941          0                0                1          91.3
## 2956          0                0                3          96.6
## 2970          0                0                3          92.3
## 2986          0                0                3          96.2
## 3006          0                0                4          87.5
## 3030          0                0                1          95.2
## 3035          0                0                1          77.8
## 3044          0                0                5          86.8
## 3048          0                1                2          90.9
## 3063          0                0                4          93.4
## 3064          0                0                4          90.4
## 3072          0                0                1          90.9
## 3080          0                0                2          93.1
## 3082          0                0                4          97.6
## 3097          0                0                4          84.2
## 3098          0                0                5          76.7
## 3135          0                0                1          90.0
## 3151          0                0                1          89.5
## 3153          0                0                4          82.6
## 3171          0                0                1          96.0
## 3205          0                0                2          85.7
## 3217          0                0                2          91.2
## 3225          0                0                6          93.9
## 3227          0                0                1          85.7
## 3234          0                0                1          96.6
## 3239          0                0                5          97.0
## 3247          0                0                2          97.5
## 3331          0                0                5          83.7
## 3334          0                0                3          63.2
## 3372          0                0                2          90.0
## 3379          0                0                3         100.0
## 3393          0                0                0          93.3
## 3395          0                0                2          97.1
## 3403          0                0                2          92.9
## 3410          0                0                0          96.4
## 3413          0                0                0          90.5
## 3417          0                0                4          88.2
## 3487          0                0                4          94.4
## 3513          0                0                3          92.9
## 3521          0                0                2          95.8
## 3532          0                1                0         100.0
## 3558          0                0                2          88.5
## 3562          0                0                1          94.1
## 3571          0                0                4          93.3
## 3574          0                0                0          91.7
## 3581          0                0                0          90.0
## 3589          0                0                4          81.8
## 3605          0                0                7          84.6
## 3630          0                0                8          95.8
## 3631          0                0                6          87.0
## 3640          0                0                0          97.3
## 3642          0                0                4          90.9
## 3644          0                0                2          92.9
```

```
## 3653          0                0                1          97.8
## 3662          0                0                1          95.7
## 3663          0                0                5          95.5
## 3691          0                1                1          93.3
## 3713          0                0                2          94.7
## 3726          0                0                3          97.1
## 3746          0                1                6          90.9
## 3751          0                0                2          87.5
## 3757          0                0                3          88.5
## 3761          0                0                2          98.6
## 3763          0                0                2          96.0
## 3770          0                0                0          94.1
## 3774          0                1                0         100.0
## 3775          0                0                2          84.6
## 3786          0                0                6          84.2
## 3809          0                0                2          88.2
## 3824          0                0                8          75.0
## 3832          0                0                1          88.9
## 3845          0                0                0          83.3
## 3864          0                0                2          88.2
## 3877          0                1                0          66.7
## 3890          0                0                4          94.6
## 3907          0                0                3          92.6
## 3918          0                0                5          96.2
## 3925          0                0                1          83.3
## 3927          0                0                8          87.5
## 3945          0                0                5         100.0
## 3946          0                0                3          96.9
## 3972          0                0                5          92.3
## 3986          0                0                4          90.6
## 3988          0                7                2          87.7
## 4008          0                0                3          97.0
## 4015          0                0                3          97.1
## 4039          0                0                4          85.7
## 4047          0                1                1          92.3
## 4056          0                1                1          77.8
## 4076          0                0                1          88.9
## 4090          0                0                7          85.7
## 4103          0                0                7          95.7
## 4160          0                0                3          80.0
## 4164          0                0                2          96.4
## 4188          0                0                0          92.8
## 4222          0                0                4          84.6
## 4231          0                0                8          96.0
## 4236          0                0                2          96.0
## 4256          0                0                3          80.0
## 4282          0                0                2          91.7
## 4286          0                0                3          96.0
## 4306          0                0                4          96.4
## 4308          0                0                4          96.6
## 4313          0                0                2          92.9
## 4355          0                0                2          62.5
## 4358          0                0                3          97.7
## 4375          0                0                0          86.4
## 4383          0                0                1          92.3
## 4387          0                0                8          96.3
## 4404          0                0                0          94.7
## 4420          0                0                2          96.9
## 4449          0                0                1          82.4
## 4455          0                0                4          96.3
## 4463          0                0                4          89.3
## 4490          0                0                6          96.9
## 4495          0                0                2          80.0
## 4505          0                0                3          95.7
## 4507          0                0                4          90.0
## 4540          0                0                0          90.9
## 4553          0                0                0          82.6
## 4579          0                0                7          77.6
## 4591          0                0                0          86.4
## 4593          0                0                2          80.0
## 4599          0                0                3          96.3
## 4607          0                0                0          93.8
## 4636          0                0                5          98.1
## 4659          0                0                5          91.3
## 4667          0                0                0          60.0
## 4670          0                0                9          97.8
## 4676          0                0                4         100.0
## 4678          0                0                3          90.0
## 4679          0                0                2          95.5
## 4687          0                0                0          82.4
## 4697          0                0                1          96.3
## 4709          0                0                4          89.5
## 4725          0                0                2          72.0
## 4741          0                0                6          96.8
## 4777          0                0                4          97.2
## 4781          0                0                3          96.8
## 4796          0                0                2         100.0
## 4807          0                0                3          97.1
## 4808          0                0                9          98.8
## 4822          0                0                2          78.8
## 4830          0                0                1          88.9
## 4849          0                0                5          90.2
## 4853          0                1                1          93.3
## 4854          0                0                3         100.0
## 4859          0                0                4         100.0
## 4897          0                0                0          76.2
## 4966          0                0                5          92.9
## 4975          0                1                1          63.3
```

```
## 4991          0                0                1          88.9
## 5016          0                0                3          94.4
## 5020          0                0                2          96.0
## 5024          0                0                3          83.3
## 5026          0                0                1          95.5
## 5040          0                0                1          89.3
## 5058          0                0                2          94.4
## 5078          0                0                1          91.7
## 5082          0                0                2          96.4
## 5092          0                0                7          93.5
## 5140          0                1                5          95.9
## 5143          0                0                1          60.0
## 5148          0                0                0          90.0
## 5188          0                0                1          75.8
## 5203          0                0                4          87.0
## 5214          0                0                2          71.4
## 5224          0                0                4          96.0
## 5229          0                0                3          98.1
## 5281          0                2                4          79.3
## 5290          0                0                2         100.0
## 5310          0                0                1          92.9
## 5327          0                0                2          85.0
## 5331          0                0                1          95.7
## 5334          0                0                1          96.6
## 5335          0                0                3          94.9
## 5336          0                0                3          97.4
## 5349          0                0                5          95.0
## 5353          0                0                5          96.8
## 5370          0                0                1          92.9
## 5381          0                0                6          92.3
## 5385          0                0                4          97.1
## 5396          0                0                1          86.4
## 5408          0                0                4          92.6
## 5415          0                5                7          97.1
## 5424          0                0                2          92.9
## 5428          0                0                2          94.7
## 5450          0                0                3          69.6
## 5474          0                0                7          73.3
## 5480          0                0                0          92.9
## 5486          0                0                5          97.1
## 5509          0                0                1          86.7
## 5518          0                1                0          88.2
## 5523          0                0                3          95.7
## 5534          0                0                2          83.3
## 5536          0                0                2          97.1
## 5541          0                0                6          96.4
## 5551          0                0                4          97.3
## 5557          0                2                2          57.1
## 5562          0                0                3          94.1
## 5584          0                0                2          88.9
## 5588          0                0                6          94.1
## 5598          0                0                4          87.5
## 5599          0                0                2          92.9
## 5625          0                0                1          95.8
## 5626          0                0                9          93.8
## 5633          0                0                6          85.3
## 5641          0                0                4          97.7
## 5674          0                0                1          88.2
## 5693          0                2                1          77.8
## 5697          0                1                2          68.2
## 5704          0                0                4          94.1
## 5712          0                0                4          97.0
## 5761          0                0                1          95.0
## 5763          0                0                8          95.7
## 5796          0                0                5          84.6
## 5797          0                0                3          96.4
## 5800          0                0                5          93.4
## 5808          0                0                3          90.9
## 5812          0                0                4          97.1
## 5814          0                0                2          95.5
## 5819          0                0                2         100.0
## 5824          0                1                0          93.8
## 5833          0                0                1          90.0
## 5851          0                0                3          98.3
## 5857          0                0                2          97.1
## 5862          0                0                8          93.6
## 5866          0                0                0          94.6
## 5873          0                0                0          91.3
## 5877          0                0                0          89.5
## 5891          0                0                6          88.2
## 5914          0                0                2          95.0
## 5936          0                0                3          96.4
## 5961          0                0                2          75.0
## 5969          0                0                3          88.0
## 5983          0                0                2          91.7
## 5984          0                0                2          82.6
## 5993          0                0                2          86.7
## 5995          0                0                3          90.6
## 6016          0                0                2         100.0
## 6022          0                0                4          73.3
## 6026          0                0                3          90.0
## 6040          0                0                2          94.4
## 6042          0                0                2          95.7
## 6058          0                0                0         100.0
## 6067          0                0                2          78.6
## 6081          0                0                0          94.4
## 6095          0                0                2          86.1
## 6098          0                0                1          93.8
```

```
## 6103          0                0                4          72.7
## 6107          0                0                3          95.8
## 6108          0                0                3         100.0
## 6110          0                0                4          95.7
## 6112          0                0                6          93.8
## 6125          0                0                5          93.0
## 6137          0                0                7          73.3
## 6143          0                0                6          72.7
## 6153          0                0                5          92.0
## 6166          0                0                2          96.6
## 6198          0                0                4         100.0
## 6215          0                0                2          87.0
## 6216          0                0                3          97.2
## 6220          0                0                2          96.0
## 6226          0                0                1          95.5
## 6235          0                0                1          90.0
## 6245          0                0                6          85.2
## 6252          0                0                1          93.8
## 6261          0                1                6          89.7
## 6268          0                0                0          90.0
## 6302          0                1                1          76.5
## 6304          0                3                8          81.1
## 6331          0                0                5          91.7
## 6337          0                1                1          85.7
## 6373          0                0                4          83.3
## 6379          0                0                2         100.0
## 6397          0                0                2         100.0
## 6401          0                0                2          95.6
## 6438          0                0                3          96.4
## 6442          0                0                1          94.1
## 6447          0                0                4          93.1
## 6450          0                0                1          96.4
## 6464          0                0                1          94.4
## 6506          0                0                4          93.3
## 6513          0                1                3          82.1
## 6519          0                0                5          90.9
## 6520          0                0                3          84.6
## 6580          0                0                4          90.9
## 6616          0                1                3          71.4
## 6652          0                0                9          95.8
## 6667          0                0                1          71.4
## 6688          0                0                2          94.7
## 6693          0                0                2          77.8
## 6727          0                0                6          90.5
## 6732          0                0                2          91.7
## 6735          0                0                0          79.3
## 6746          0                0                0          96.9
## 6754          0                0                3          93.3
## 6770          0                0                5          95.7
## 6789          0                0                6          92.6
## 6803          0                0                0          95.8
## 6819          0                0                2          84.6
## 6820          0                0                2          87.0
## 6822          0                0                2          94.4
## 6824          0                4                2          84.8
## 6834          0                0                4          93.5
## 6841          0                0                1          90.0
## 6843          0                0                3          87.5
## 6858          0                1                0          92.6
## 6860          0                2                1          33.3
## 6889          0                0                1          85.7
## 6891          0                0                0          80.0
## 6894          0                0                3          97.1
## 6896          0                0                1          94.7
## 6899          0                0                9          95.2
## 6900          0                0                3          95.0
## 6917          0                0                2          63.6
## 6919          0                0                3          96.2
## 6923          0                0                0          88.2
## 6934          0                0                1          96.2
## 6941          0                0                2          95.7
## 6954          0                0                4          93.9
## 6957          0                0                5         100.0
## 6960          0                0                0          95.8
## 6962          0                0                1          61.5
## 6965          0                0                1          90.5
## 6971          0                0                1          96.6
## 6977          0                0                7          93.3
## 6989          0                0                4          97.3
## 7001          0                0                4          95.8
## 7008          0                0                5          60.9
## 7009          0                0                1          50.0
## 7012          0                0                3          94.7
## 7017          0                0                1          94.4
## 7033          0                0                0          96.8
## 7037          0                0                2          95.7
## 7057          0                0                3          93.9
## 7060          0                0                3          92.6
## 7064          0                0                6          94.9
## 7085          0                0                4          83.3
## 7129          0                0                2          91.3
## 7138          0                0                2         100.0
## 7145          0                0                4          85.7
## 7160          0                0                2          97.6
## 7174          0                1                2          82.5
## 7187          0                0                4          96.0
## 7189          0                0                5          97.1
## 7215          0                0                2          65.0
```

```
## 7216          0                0                0          95.2
## 7238          0                0                1          83.3
## 7266          0                0                0          66.7
## 7271          0                0                5          87.0
## 7281          0                0                6          94.1
## 7284          0                0                2          86.4
## 7318          0                0                2          93.9
## 7343          0                0                1          94.1
## 7354          0                0                4          94.7
## 7373          0                0                0          90.9
## 7380          0                0                5          80.0
## 7382          0                1                0          94.3
## 7383          0                0                1          83.3
## 7411          0                0                0          94.3
## 7439          0                0                2          68.4
## 7466          0                0                2          80.8
## 7476          0                0                1          86.0
## 7521          0                0                0          83.3
## 7522          0                0                3          94.4
## 7544          0                0                1         100.0
## 7548          0                0                6          97.3
## 7560          0                0                5          95.6
## 7578          0                0                4          96.6
## 7581          0                0                2          94.4
## 7583          0                0                0         100.0
## 7616          0                0                0          87.5
## 7628          0                0                2          66.7
## 7641          0                0                1          88.2
## 7648          0                0                0          85.7
## 7664          0                0                3          98.1
## 7682          0                0                0          95.8
## 7736          0                0                4          94.4
## 7750          0                0                2          86.7
## 7753          0                0                5          84.6
## 7775          0                2                2          84.0
## 7785          0                1                3          94.7
## 7799          0                0                2          87.5
## 7809          0                0                1          86.7
## 7810          0                0                4          97.6
## 7812          0                0                0          90.5
## 7815          0                0                1          97.2
## 7825          0                0                5          97.5
## 7830          0                0               10          97.6
## 7845          0                0                2          92.3
## 7863          0                0                2          94.3
## 7867          0                0                4         100.0
## 7877          0                0                3          88.2
## 7886          0                0                1          89.3
## 7892          0                0                3          91.7
## 7897          0                0                1          92.0
## 7906          0                0                2          97.6
## 7927          0                0                4          95.1
## 7943          0                0                5          97.5
## 7970          0                0                4          95.5
## 7994          0                1                2          68.2
## 8010          0                0                1          91.7
## 8016          0                0                3          88.9
## 8045          0                2                4          92.3
## 8081          0                0                0          92.9
## 8090          0                0                5          96.0
## 8114          0                0                1          87.5
## 8124          0                0                2          94.1
## 8131          0                0                1          94.1
## 8139          0                0                1          97.8
## 8150          0                0                1          96.0
## 8158          0                0                1          93.3
## 8163          0                1                3          88.2
## 8168          0                0                1          83.3
## 8191          0                0                1          70.0
## 8205          0                0                3          96.3
## 8219          0                0                0          92.9
## 8225          0                0                8          97.8
## 8251          0                0                1          95.5
## 8253          0                0                4          98.1
## 8263          0                0                3          92.0
## 8271          0                0                5          97.1
## 8285          0                0                3         100.0
## 8296          0                0                4          80.0
## 8300          0                0                0          94.7
## 8326          0                1                3          91.2
## 8343          0                0                3          87.5
## 8349          0                0                5          95.5
## 8365          0                0                1          90.9
## 8381          0                0                4          92.9
## 8398          0                0                4          92.3
## 8402          0                0                1          97.5
## 8422          0                0                1          90.0
## 8423          0                0                2          96.6
## 8442          0                0                2          88.2
## 8458          0                0                1          83.3
## 8468          0                0                6          71.4
## 8469          0                0               10          95.0
## 8486          0                0                2          96.4
## 8508          0                0                3          71.4
## 8521          0                0                2          93.3
## 8527          0                0                5          97.2
## 8551          0                0                7         100.0
## 8561          0                0                5          97.4
```

```
## 8591          0                0                1          88.2
## 8604          0                0                3          95.5
## 8613          0                1                5         100.0
## 8615          0                0                2          64.3
## 8616          0                0                3          87.5
## 8628          0                0                4          85.7
## 8629          0                2                1          76.5
## 8642          0                0                3          95.8
## 8643          0                0                3          90.0
## 8650          0                0                2          96.9
## 8660          0                0                7          91.4
## 8662          0                0                1          92.9
## 8683          0                0                3          97.2
## 8689          0                0                4          75.0
## 8700          0                0                4          95.5
## 8703          0                0                4          97.7
## 8705          0                0                4          97.8
## 8708          0                0                7          90.0
## 8731          0                0                2          84.6
## 8737          0                0                2          95.5
## 8739          0                0                1          86.7
## 8744          0                0                0          94.1
## 8769          0                0                0          81.8
## 8797          0                1                1          52.9
## 8818          0                0                0          93.3
## 8820          0                0                1          94.3
## 8821          0                0                6          70.0
## 8837          0                0                2          93.2
## 8843          0                0                0          89.5
## 8844          0                0                5          97.7
## 8848          0                0                1          80.0
## 8858          0                0                0          73.3
## 8869          0                0                3          80.0
## 8881          0                0                1          91.7
## 8882          0                0                2          95.7
## 8887          0                0                1         100.0
## 8892          0                0                5          97.9
## 8894          0                0                4          94.7
## 8899          0                0                2          75.0
## 8903          0                2                2          81.3
## 8908          0                0                1          95.2
## 8925          0                0                2          80.0
## 8932          0                0                1          64.5
## 8947          0                0                2          98.2
## 8964          0                1                0          86.7
## 8986          0                0                3          96.6
## 9008          0                0                5          77.8
## 9011          0                0                1          88.2
## 9013          0                0                3          95.5
## 9021          0                0                4          91.3
## 9023          0                0                0          92.3
## 9054          0                0                3          96.4
## 9084          0                0                2          93.8
## 9088          0                0                3         100.0
## 9129          0                0                2          93.8
## 9142          0                0                2          89.3
## 9146          0                0                4          78.8
## 9168          0                1                7          80.9
## 9175          0                0                6          82.6
## 9185          0                0                2          97.9
## 9191          0                0                3          90.5
## 9206          0                0                3          89.5
## 9208          0                0                3          95.6
## 9235          0                1                4          93.3
## 9269          0                0                2          76.0
## 9287          0                0                5          86.7
## 9313          0                0                4          96.0
## 9317          0                0                2          69.2
## 9318          0                1                2          97.6
## 9322          0                0                3          75.0
## 9349          0                0                1          88.9
## 9359          0                0                2          89.5
## 9360          0                0                1          95.5
## 9368          0                0                3          60.0
## 9369          0                0                4          89.7
## 9389          0                0                5          92.0
## 9417          0                0                6          94.4
## 9420          0                0                2          93.8
## 9423          0                0                7          94.7
## 9428          0                1                4          96.3
## 9449          0                0                3          81.8
## 9490          0                0                1          96.7
## 9494          0                0                6          82.4
## 9513          0                0                4          91.7
## 9518          0                0                1          93.8
## 9533          0                0                0          97.7
## 9548          0                0                1          85.7
## 9561          0                0                6          68.2
## 9563          0                0                2          88.2
## 9568          0                0                5          97.9
## 9576          0                0                5          90.5
## 9588          0                0                0          90.5
## 9634          0                1                4          95.2
## 9645          0                0                4          94.1
## 9660          0                0                1          82.1
## 9663          0                1                0          87.5
## 9675          0                2                3          95.0
## 9678          0                4                2          87.1
```

```
## 9686            0                  0                  4           96.3
## 9707            0                  0                  5           87.5
## 9708            0                  0                  8          100.0
## 9720            0                  0                  1           93.5
## 9724            0                  0                  3           97.4
## 9730            0                  0                  3           92.3
## 9739            0                  0                  0           83.3
## 9749            0                  1                  0           97.2
## 9759            0                  1                  8           71.9
## 9771            0                  0                  0           92.0
## 9802            0                  0                  2           90.9
## 9807            0                  0                  1           95.2
## 9818            0                  0                  2           91.7
## 9822            0                  1                  2           70.0
## 9823            0                  0                  0           84.4
## 9869            0                  0                  4           78.6
## 9885            0                  0                  6           89.5
## 9916            0                  0                  7           93.3
## 9935            0                  0                  4           77.8
## 9965            0                  0                  5           83.3
## 9981            0                  0                  6           73.9
## 9985            0                  0                  1           78.6
## 9986            0                  0                  4           91.7
## 10009           0                  0                  6           94.4
## 10012           0                  0                  4           94.1
## 10027           0                  0                  0           75.9
## 10068           0                  0                  7           97.8
## 10074           0                  0                  3           96.9
## 10076           0                  0                  3           93.8
## 10092           0                  0                  5           86.7
## 10101           0                  0                  1           92.9
## 10124           0                  0                  3           81.6
## 10128           0                  0                  8           96.3
## 10129           0                  0                  3           79.3
## 10141           0                  0                  1           90.9
## 10142           0                  0                  1           97.1
## 10163           0                  0                  2           96.0
## 10165           0                  0                  3           86.7
## 10179           0                  0                  4           64.3
## 10188           0                  0                  9          100.0
## 10210           0                  0                  2           86.4
## 10220           0                  0                  5           77.8
## 10221           0                  0                  0           78.9
## 10240           0                  1                  6           87.0
## 10246           0                  0                  1           87.2
## 10249           0                  0                  0           75.7
## 10262           0                  0                  2           83.3
## 10265           0                  0                  3           91.5
## 10278           0                  0                  6           84.6
## 10288           0                  0                  0           91.7
## 10319           0                  0                  1           95.8
## 10328           0                  0                  1           75.0
## 10329           0                  0                  4           96.4
## 10335           0                  0                  4           97.6
## 10339           0                  0                  0           85.0
## 10366           0                  1                  2           96.6
## 10371           0                  0                  2           90.9
## 10385           0                  0                  5           98.0
## 10387           0                  0                  3           96.6
## 10417           0                  0                  2           83.9
## 10448           0                  0                  0           93.8
## 10449           0                  0                  3           88.0
## 10453           0                  0                  4           94.6
## 10455           0                  0                  1           93.1
## 10460           0                  0                  2           93.8
## 10464           0                  1                  2           73.3
## 10471           0                  0                  1           83.9
## 10482           0                  0                  2           95.5
## 10491           0                  0                  1           75.0
## 10494           0                  1                  2           89.7
## 10508           0                  0                  1           95.2
## 10517           0                  0                  4           87.0
## 10530           0                  0                  0           92.3
## 10532           0                  0                  6           94.1
## 10535           0                  0                  3           98.3
## 10545           0                  0                  1           90.3
## 10570           0                  0                  4           84.6
## 10573           0                  0                  1           93.8
## 10576           0                  1                  1           96.3
## 10579           0                  0                  0           81.8
## 10582           0                  0                  1           95.7
## 10592           0                  0                  5           92.5
## 10595           0                  0                  4           82.4
## 10601           0                  0                  1           93.3
## 10614           0                  0                  0           95.7
## 10620           0                  0                  2           96.0
## 10632           0                  0                  3           97.1
## 10641           0                  0                 11           92.3
## 10646           0                  0                  6           92.0
## 10655           0                  0                  4           94.7
## 10658           0                  0                  2           79.2
## 10661           0                  1                  0           87.2
## 10680           0                  0                  2           83.3
## 10689           0                  0                  2          100.0
##       percent_bc_gt_75 pub_rec_bankruptcies tax_liens tot_hi_cred_lim
## 16                0.0                    0         0           17488
## 38              100.0                    0         0           66557
## 47               16.7                    0         0           98831
```

```
## 77          0.0          0        0        22964
## 88         20.0          0        0       270715
## 112        75.0          0        0       418449
## 133         0.0          0        0        89552
## 135         0.0          0        0        13200
## 145        66.7          0        0       295887
## 169        40.0          0        0        63444
## 180         0.0          0        0        94652
## 191        50.0          0        0        74041
## 208         0.0          0        0       238548
## 222         0.0          1        0        32700
## 226        33.3          0        0       374290
## 231         0.0          0        0       356599
## 243         0.0          0        0        28572
## 244         0.0          0        0        92816
## 250         0.0          0        0       633568
## 260         0.0          1        0        42355
## 271         0.0          0        0        64701
## 277        12.5          0        0       304655
## 284         0.0          1        0       160651
## 292         0.0          0        0       125783
## 295        25.0          0        0       256702
## 311       100.0          0        0        50700
## 355        75.0          0        0       137249
## 376        60.0          0        0       577031
## 385       100.0          0        0       430365
## 392        16.7          0        0       284452
## 400        50.0          0        0       308794
## 402         0.0          0        0       284716
## 413        33.3          1        0        29140
## 421        66.7          0        0        52625
## 423        12.5          0        0       317407
## 424       100.0          0        0       280801
## 440         0.0          0        0       439137
## 444        50.0          0        0       492804
## 509         0.0          0        0        64940
## 524        75.0          0        0       227675
## 542        33.3          0        0       103919
## 581        50.0          0        0       533981
## 593         0.0          0        0       284304
## 620       100.0          1        0        89098
## 669        20.0          0        0       320500
## 679        25.0          0        0       643212
## 695        20.0          0        0       343293
## 698         0.0          0        0       188745
## 726         0.0          1        0       120530
## 750         7.7          0        0        78372
## 755        28.6          0        0        29400
## 791         0.0          1        0        74105
## 796         0.0          0        0       308474
## 805         0.0          1        0       141794
## 806        25.0          0        0       273658
## 821        20.0          0        0        74092
## 837        12.5          0        0       298821
## 841        16.7          0        0        60800
## 843        25.0          0        0       111679
## 860        16.7          0        0       178361
## 862       100.0          0        0       404212
## 891        40.0          1        0        38921
## 911        40.0          0        0       196468
## 921        11.1          0        0       411025
## 930        28.6          0        0       343617
## 952        66.7          1        0       298965
## 956        66.7          0        0       479448
## 958         0.0          0        0       211022
## 967       100.0          0        0       612400
## 974       100.0          0        0       627133
## 982         0.0          0        0        86348
## 1014        0.0          1        0        38215
## 1022       20.0          0        0       996390
## 1045        0.0          0        0        47849
## 1051       66.7          0        0       391381
## 1075        0.0          0        0       376252
## 1097        0.0          0        0        74596
## 1099      100.0          0        0       107885
## 1104        0.0          0        0        55800
## 1107        0.0          0        0       287897
## 1119        0.0          0        0       280426
## 1125        0.0          0        0        25851
## 1166        0.0          1        0        51567
## 1167       66.7          0        0        99867
## 1172        0.0          0        0       213609
## 1173       60.0          0        0        40043
## 1175      100.0          0        0       329360
## 1177       16.7          0        0       376215
## 1193       66.7          0        0        52334
## 1200       33.3          0        0       304081
## 1206      100.0          0        0       291110
## 1223        0.0          0        0       473627
## 1230       25.0          0        0       318760
## 1238       25.0          0        0        40081
## 1245        0.0          0        0       145862
## 1250       46.2          0        0       121992
## 1272        0.0          0        0       730479
## 1282       33.3          0        0       367814
## 1283      100.0          1        0       163805
## 1298       50.0          0        0        48086
## 1300       66.7          0        0        43961
```

```
## 1308          0.0                0        0        162073
## 1321         40.0                1        0         81685
## 1322          0.0                0        0        796218
## 1327         66.7                0        0        300900
## 1374         50.0                0        0        190803
## 1378          0.0                0        0        153086
## 1385         33.3                0        0        165181
## 1411         25.0                0        0        275447
## 1415         12.5                0        0        377678
## 1463          0.0                0        0        205482
## 1517          0.0                0        0         75043
## 1531          0.0                0        0        194053
## 1598          0.0                0        0        624642
## 1609          0.0                1        0         45289
## 1638        100.0                0        0        216641
## 1684        100.0                0        0         37000
## 1710         33.3                0        0        290913
## 1713          0.0                0        0        215200
## 1722         25.0                0        0        669500
## 1733          0.0                0        0        299268
## 1742          0.0                0        0        589155
## 1770         50.0                0        0        491468
## 1777          5.9                0        0        550770
## 1779         80.0                0        0         77438
## 1781          0.0                0        0        256088
## 1808          0.0                0        0        479562
## 1814        100.0                0        0        288609
## 1832        100.0                0        0        371495
## 1834         33.3                0        0        704700
## 1841         50.0                0        0        375310
## 1858        100.0                0        0         20795
## 1872        100.0                0        0         49168
## 1888         20.0                0        0         55100
## 1908         33.3                0        0         38763
## 1912         50.0                0        0         80727
## 1918         30.8                0        0        408774
## 1923          0.0                1        0        489267
## 1931          0.0                1        0        137585
## 1940         16.7                0        0         82600
## 1941          0.0                1        0        164358
## 1966         16.7                0        0        316219
## 1967         33.3                0        0         81614
## 1969        100.0                0        0        136207
## 1993          0.0                0        0        235211
## 2000         20.0                0        0         91100
## 2020         33.3                0        0        465080
## 2021          0.0                0        0        196066
## 2022         50.0                0        0        317264
## 2024         50.0                0        0        138841
## 2062          0.0                0        0         84267
## 2064          0.0                0        0        209847
## 2110         10.0                0        0        146432
## 2134          0.0                0        0        189644
## 2141         33.3                0        0        310787
## 2152         20.0                0        0        431931
## 2164          0.0                0        0        475162
## 2188          0.0                0        0        184243
## 2195         50.0                0        0        207136
## 2205          0.0                0        0        219524
## 2223          0.0                0        0        194314
## 2228        100.0                0        0        103682
## 2237         50.0                0        0        138813
## 2266         25.0                0        0        103275
## 2269         50.0                0        0         77171
## 2276         22.2                0        0        677298
## 2282         66.7                0        0        154377
## 2291         14.3                0        0        139162
## 2299         50.0                0        0         48538
## 2309         50.0                0        0         41631
## 2311         85.7                0        0        148292
## 2317         50.0                0        0        445123
## 2324         57.1                0        0         52293
## 2360          0.0                0        0        132300
## 2366          0.0                0        0        133121
## 2372        100.0                0        0        197600
## 2391        100.0                1        0        175417
## 2451          0.0                0        0        669106
## 2466         40.0                0        0         49719
## 2487        100.0                0        0        388316
## 2498          0.0                0        0        429574
## 2507         75.0                0        0        240242
## 2553          0.0                0        0        544842
## 2570          0.0                0        0        130024
## 2573         12.5                0        0        328790
## 2594         33.3                0        0        119712
## 2632         33.3                0        0        184604
## 2644          0.0                0        0        410589
## 2665         66.7                0        0        211325
## 2666         33.3                0        0         58942
## 2680          0.0                0        0        102188
## 2682         66.7                0        0         20100
## 2688          0.0                0        0        863919
## 2697        100.0                0        0         36372
## 2704          0.0                0        0        148498
## 2739         20.0                0        0         40272
## 2741         75.0                0        0         43463
## 2750          0.0                1        0         29223
## 2751         25.0                0        0        208543
```

```
## 2754          33.3                0        0        30666
## 2762           0.0                0        0       237009
## 2764           0.0                0        0       191565
## 2778          25.0                0        0       581060
## 2802           0.0                0        0        44045
## 2818           0.0                0        0       286466
## 2822           0.0                0        0       120195
## 2841          33.3                0        0        40991
## 2848           0.0                0        0       207094
## 2888           0.0                0        0       215965
## 2922          83.3                0        0       530490
## 2941         100.0                0        0       325529
## 2956          12.5                1        0        64053
## 2970           0.0                1        0       269286
## 2986          18.2                0        0        56470
## 3006           0.0                1        0       136233
## 3030           0.0                0        0       468149
## 3035         100.0                0        0       368078
## 3044         100.0                0        0       457839
## 3048          40.0                0        0        87794
## 3063          11.1                0        0       193524
## 3064          14.3                0        0       229481
## 3072           0.0                0        0       281693
## 3080           0.0                1        0        47805
## 3082          11.1                0        0       355759
## 3097           0.0                0        0       276450
## 3098           0.0                0        0       361363
## 3135           0.0                0        0        31207
## 3151         100.0                0        0       326464
## 3153           0.0                0        0       187000
## 3171          20.0                0        0       160732
## 3205           0.0                0        0        36000
## 3217         100.0                0        0       120625
## 3225           0.0                0        0       187473
## 3227         100.0                0        0       199777
## 3234           0.0                0        0       204156
## 3239           0.0                0        0       258521
## 3247          83.3                0        0       213944
## 3331           0.0                0        0       136806
## 3334           0.0                0        0       341995
## 3372          33.3                0        0        60835
## 3379           0.0                0        0        58713
## 3393         100.0                0        0        51571
## 3395           0.0                0        0       477618
## 3403           0.0                0        0        79000
## 3410         100.0                1        0       108550
## 3413          75.0                0        0        76643
## 3417          50.0                0        0       414156
## 3487          40.0                1        0       285606
## 3513          57.1                0        0        95650
## 3521           0.0                1        0       323493
## 3532          50.0                0        0       144153
## 3558          60.0                0        0       221545
## 3562           0.0                0        0       188221
## 3571           0.0                0        0       379179
## 3574           0.0                0        0        34315
## 3581         100.0                0        0        17650
## 3589           0.0                0        0       124045
## 3605           0.0                0        0       244933
## 3630          40.0                1        0        89675
## 3631           0.0                0        0        37700
## 3640          25.0                0        0       156157
## 3642          33.3                0        0       450130
## 3644           0.0                0        0        25000
## 3653          16.7                0        0       153821
## 3662          16.7                1        0        43214
## 3663          33.3                0        0       651850
## 3691         100.0                0        0        46596
## 3713          12.5                0        0       345336
## 3726           0.0                1        0       103781
## 3746          14.3                1        0       210113
## 3751           0.0                0        0       124170
## 3757          66.7                0        0       383372
## 3761          30.0                0        0       287017
## 3763          25.0                0        0        43304
## 3770          60.0                1        0        35918
## 3774           0.0                0        0        54182
## 3775           0.0                0        0        47186
## 3786           0.0                0        0       347986
## 3809          60.0                1        0        31623
## 3824          12.5                0        0        89635
## 3832           0.0                1        0        40354
## 3845           0.0                0        0        27945
## 3864           0.0                0        0        43929
## 3877         100.0                0        0       191729
## 3890          20.0                0        0       357162
## 3907          20.0                0        0       116068
## 3918           0.0                0        0       193058
## 3925           0.0                0        0       275698
## 3927          30.0                0        0        55207
## 3945          20.0                0        0        69010
## 3946           0.0                0        0       284103
## 3972           0.0                0        0       285710
## 3986           0.0                0        0       323039
## 3988           0.0                0        0       266696
## 4008          50.0                0        0       152142
## 4015          42.9                0        0        40218
## 4039         100.0                0        0        35225
```

```
## 4047          0.0                0        0        57086
## 4056          0.0                0        0       218660
## 4076          0.0                0        0        12500
## 4090          9.1                0        0       112491
## 4103          0.0                0        0       263099
## 4160          0.0                0        0       296880
## 4164          0.0                0        0        37400
## 4188         33.3                0        0       307659
## 4222         25.0                0        0        49404
## 4231         16.7                1        0        49203
## 4236         88.9                0        0        81109
## 4256         75.0                0        0       246432
## 4282          0.0                0        0        27249
## 4286         75.0                0        0       101303
## 4306          0.0                0        0       258109
## 4308         33.3                0        0        39016
## 4313         33.3                0        0        43600
## 4355          0.0                0        0        54154
## 4358          0.0                1        0       164619
## 4375        100.0                0        0        35496
## 4383        100.0                0        0       376106
## 4387          0.0                0        0       239885
## 4404         25.0                1        0        60037
## 4420         50.0                0        0       321439
## 4449          0.0                0        0        84200
## 4455          0.0                0        0       355012
## 4463         20.0                0        0       216023
## 4490          0.0                0        0       387367
## 4495          0.0                1        0        38809
## 4505         25.0                0        0        33832
## 4507         50.0                1        0       257948
## 4540          0.0                0        0       106246
## 4553        100.0                0        0        76883
## 4579         16.7                0        0       529393
## 4591         25.0                0        0       290190
## 4593         50.0                0        0        32328
## 4599         14.3                0        0       346416
## 4607          0.0                0        0        48199
## 4636          9.1                0        0       229329
## 4659          0.0                0        0       224544
## 4667         55.6                0        0       269106
## 4670         15.4                0        0       319008
## 4676          0.0                0        0       507739
## 4678         50.0                0        0       832480
## 4679         50.0                0        0       255417
## 4687         33.3                0        0       166414
## 4697         42.9                0        0       485299
## 4709          0.0                0        0        35655
## 4725         50.0                0        0        14829
## 4741         20.0                0        0       286794
## 4777         11.1                0        0       780974
## 4781         16.7                0        0       217853
## 4796          0.0                0        0        33667
## 4807         87.5                0        0       288318
## 4808         12.5                0        0       746358
## 4822         66.7                0        0       356148
## 4830          0.0                0        0       121500
## 4849          0.0                0        0       387248
## 4853        100.0                0        0       439257
## 4854         16.7                0        0       271692
## 4859         33.3                0        0        34218
## 4897         50.0                0        0        78951
## 4966          0.0                0        0       441732
## 4975         66.7                0        0       309360
## 4991          0.0                0        0        60125
## 5016         25.0                0        0        52144
## 5020         25.0                0        0       148427
## 5024          0.0                0        0        52576
## 5026         50.0                0        0        77838
## 5040        100.0                0        0       337464
## 5058          0.0                0        0       251998
## 5078         11.1                0        0       230601
## 5082         85.7                0        0       609148
## 5092         40.0                0        0       267336
## 5140          0.0                0        0       278403
## 5143         50.0                0        0        52711
## 5148          0.0                0        0        65694
## 5188        100.0                0        0       237131
## 5203         50.0                1        0       237385
## 5214        100.0                0        0        21525
## 5224         50.0                0        0       109938
## 5229          0.0                0        0       272056
## 5281          0.0                0        0       216572
## 5290         60.0                0        0        96842
## 5310        100.0                0        0        82656
## 5327         50.0                1        0        91247
## 5331          0.0                1        0       257415
## 5334          0.0                0        0       106331
## 5335         11.1                0        0       196790
## 5336          0.0                0        0       145697
## 5349          0.0                0        0       159180
## 5353         50.0                1        0       305348
## 5370          0.0                0        0       469794
## 5381         12.5                0        0        51487
## 5385          0.0                0        0        19335
## 5396          0.0                0        0        52663
## 5408         33.3                0        0        90555
## 5415         16.7                1        0       610155
```

```
## 5424          50.0                0        0        213295
## 5428           0.0                0        0         76500
## 5450           0.0                0        0         69419
## 5474           0.0                0        0        336442
## 5480         100.0                0        0         61599
## 5486           0.0                0        0         40119
## 5509           0.0                0        0        335287
## 5518           0.0                0        0         24200
## 5523          75.0                0        0        336590
## 5534           0.0                0        0         35758
## 5536           0.0                1        0         85350
## 5541           0.0                0        0         62671
## 5551           0.0                0        0        116548
## 5557           0.0                0        0         49673
## 5562          33.3                0        0         50950
## 5584           0.0                0        0         39476
## 5588           0.0                0        0        112495
## 5598         100.0                0        0        271478
## 5599           0.0                0        0         43910
## 5625           0.0                0        0        170216
## 5626          22.2                0        0        298153
## 5633          40.0                0        0        422821
## 5641           0.0                0        0        256021
## 5674          66.7                0        0        123677
## 5693         100.0                0        0        374374
## 5697          66.7                0        0        113112
## 5704          50.0                0        0         71046
## 5712          50.0                1        0        284700
## 5761           0.0                1        0         42800
## 5763           0.0                0        0         99729
## 5796         100.0                0        0         23592
## 5797          80.0                0        0         99100
## 5800           0.0                0        0        196977
## 5808          66.7                0        0        430993
## 5812          33.3                0        0         94584
## 5814          77.8                0        0        679391
## 5819          14.3                0        0         61535
## 5824          83.3                0        0         43300
## 5833           0.0                0        0         48572
## 5851          20.0                0        0        542082
## 5857          16.7                1        0        113385
## 5862          62.5                0        0       1007617
## 5866          66.7                0        0        519169
## 5873           0.0                0        0         93410
## 5877           0.0                0        0         40400
## 5891           9.1                0        0        430381
## 5914          16.7                0        0        101059
## 5936           0.0                0        0         96134
## 5961         100.0                0        0         35293
## 5969          33.3                0        0        557880
## 5983           0.0                0        0         45700
## 5984           0.0                0        0        859000
## 5993           0.0                0        0         34400
## 5995           0.0                0        0        128554
## 6016           0.0                0        0         44801
## 6022          25.0                0        0        170500
## 6026          50.0                0        0         63046
## 6040           0.0                0        0         81900
## 6042          28.6                0        0        273889
## 6058          50.0                0        0        516043
## 6067          50.0                0        0        255967
## 6081           0.0                0        0        391300
## 6095           0.0                0        0       1061243
## 6098          50.0                0        0         60058
## 6103           0.0                0        0         89579
## 6107           0.0                1        0        151813
## 6108          20.0                0        0        205384
## 6110          40.0                1        0        338307
## 6112          23.1                1        0         52800
## 6125           0.0                0        0        139813
## 6137           0.0                0        0        282374
## 6143           0.0                0        0        256107
## 6153          25.0                0        0         93934
## 6166           0.0                0        0        362663
## 6198          25.0                0        0        183010
## 6215          16.7                0        0         78802
## 6216           0.0                0        0        520980
## 6220          20.0                0        0        350155
## 6226          33.3                0        0        496674
## 6235          16.7                1        0        258171
## 6245          25.0                0        0         32400
## 6252          20.0                0        0        178049
## 6261          12.5                1        0         55400
## 6268          50.0                1        0         22600
## 6302           0.0                0        0        132785
## 6304           0.0                1        0         34960
## 6331          80.0                0        0        471921
## 6337           0.0                0        0         41800
## 6373          40.0                0        0        582046
## 6379           0.0                0        0         59864
## 6397           0.0                0        0         69961
## 6401           0.0                0        0        723895
## 6438          66.7                0        0        211200
## 6442         100.0                0        0         67143
## 6447          27.3                0        0        648324
## 6450          50.0                0        0        876594
## 6464           0.0                0        0        112005
## 6506          50.0                1        0        158999
```

```
## 6513          16.7                0        0        261951
## 6519           0.0                0        0        318618
## 6520          16.7                0        0         41594
## 6580           0.0                0        0         87573
## 6616           0.0                0        0         43559
## 6652           0.0                0        0        119577
## 6667           0.0                0        0         28302
## 6688         100.0                0        0        577312
## 6693          33.3                0        0         17249
## 6727          55.6                0        0        725453
## 6732           0.0                1        0         75683
## 6735          66.7                0        0         80189
## 6746          42.9                0        0         83581
## 6754          22.2                0        0        756359
## 6770          25.0                0        0         37368
## 6789         100.0                0        0        165782
## 6803         100.0                1        0        250427
## 6819           0.0                0        0         46958
## 6820         100.0                0        0        212524
## 6822          33.3                1        0         75021
## 6824          50.0                0        0         91770
## 6834          25.0                0        0        140011
## 6841           0.0                1        0         80360
## 6843           0.0                0        0         31264
## 6858          75.0                0        0         46032
## 6860           0.0                0        0         15264
## 6889         100.0                0        0         50813
## 6891          12.5                0        0         53958
## 6894           0.0                0        0        322957
## 6896          25.0                0        0         41104
## 6899          50.0                0        0        463112
## 6900           0.0                0        0        287362
## 6917          33.3                0        0        266986
## 6919         100.0                0        0        229161
## 6923          33.3                0        0         32300
## 6934         100.0                0        0        448617
## 6941         100.0                1        0        536563
## 6954           0.0                0        0         38700
## 6957          42.9                0        0        229872
## 6960          25.0                0        0         97500
## 6962           0.0                0        0        297731
## 6965           0.0                0        0         28993
## 6971          33.3                0        0        746805
## 6977           0.0                0        0         35979
## 6989          66.7                0        0        398720
## 7001          50.0                1        0        106840
## 7008          33.3                0        0        204206
## 7009          50.0                0        0        395287
## 7012           0.0                1        0        350463
## 7017           0.0                0        0        124870
## 7033          50.0                0        0         58535
## 7037          66.7                0        0        324632
## 7057          85.7                0        0         65502
## 7060           0.0                0        0         41087
## 7064          14.3                0        0        257918
## 7085           0.0                0        0         69112
## 7129           0.0                0        0        144251
## 7138           6.3                0        0       1084700
## 7145          33.3                0        0        226096
## 7160           0.0                0        0        155907
## 7174          25.0                0        0        449002
## 7187          33.3                0        0         93679
## 7189           0.0                0        0         83051
## 7215          50.0                0        0         25007
## 7216           0.0                0        0        238138
## 7238          16.7                0        0         53155
## 7266          25.0                0        0         55432
## 7271           0.0                0        0         72600
## 7281           0.0                0        0        238983
## 7284         100.0                0        0        693600
## 7318          10.0                0        0        195931
## 7343          33.3                0        0        320710
## 7354          60.0                0        0        213800
## 7373           0.0                0        0         59377
## 7380           0.0                0        0         57312
## 7382          66.7                0        0        261226
## 7383           0.0                0        0        297803
## 7411         100.0                1        0        197049
## 7439           0.0                0        0         39908
## 7466          25.0                0        7        528358
## 7476          16.7                0        0        273535
## 7521         100.0                0        0         36351
## 7522           0.0                0        0        232658
## 7544          22.2                0        0        452696
## 7548           0.0                0        0        245713
## 7560          27.3                0        0        220884
## 7578         100.0                1        0        212331
## 7581          33.3                0        0        313558
## 7583         100.0                0        0         53242
## 7616         100.0                0        0        267977
## 7628         100.0                0        0        138110
## 7641           0.0                0        0         40087
## 7648           0.0                0        0         30472
## 7664          75.0                0        0        616842
## 7682           0.0                0        0         76500
## 7736         100.0                1        0        349747
## 7750          57.1                0        0        417840
## 7753           0.0                0        0        451700
```

```
## 7775          9.1                0        0        83113
## 7785         25.0                1        0        50168
## 7799         50.0                0        0       191331
## 7809          0.0                0        0        33722
## 7810          0.0                0        0       158255
## 7812        100.0                0        0       321456
## 7815         42.9                0        0       438461
## 7825         55.6                0        0       791518
## 7830         30.0                0        0       124490
## 7845         66.7                0        0        48218
## 7863         62.5                0        0       278124
## 7867         33.3                0        0        92551
## 7877          0.0                1        0        40800
## 7886         42.9                0        0       283252
## 7892          0.0                0        2       379496
## 7897          0.0                0        0        27877
## 7906         66.7                0        0       375644
## 7927          0.0                0        0       106300
## 7943        100.0                0        0       322726
## 7970          0.0                0        0        80776
## 7994         57.1                0        0       264189
## 8010         16.7                1        0       261868
## 8016          0.0                0        0        36635
## 8045          0.0                0        0       195329
## 8081         50.0                0        0       216369
## 8090          0.0                0        0        19721
## 8114          0.0                0        0        22522
## 8124         40.0                1        0        42075
## 8131          0.0                0        0       266620
## 8139         33.3                0        0       369312
## 8150         40.0                0        0        49800
## 8158        100.0                0        0        34351
## 8163         50.0                0        0       242032
## 8168         57.1                0        0        53740
## 8191         66.7                0        0       269341
## 8205         66.7                0        0       364550
## 8219          0.0                0        0       105609
## 8225         25.0                0        0        92179
## 8251        100.0                0        0       436535
## 8253         20.0                0        1       845960
## 8263          0.0                0        0       519721
## 8271         50.0                1        0        64700
## 8285         25.0                0        0        59178
## 8296         33.3                0        0       458490
## 8300          0.0                0        0       500101
## 8326         25.0                0        0       193218
## 8343         50.0                0        0       375509
## 8349          0.0                0        0       131770
## 8365         66.7                0        0        54082
## 8381         66.7                0        0       391087
## 8398         66.7                0        0       186767
## 8402         16.7                0        0       296687
## 8422         40.0                0        0        34830
## 8423         60.0                0        0       292252
## 8442          0.0                1        2        42524
## 8458        100.0                0        0       517072
## 8468        100.0                0        0       328007
## 8469         16.7                0        0        24445
## 8486         50.0                0        0       269181
## 8508         25.0                0        0       209024
## 8521         12.5                0        0       201996
## 8527         50.0                0        0       366658
## 8551          0.0                0        0       177633
## 8561         83.3                0        0        63955
## 8591        100.0                0        0       114767
## 8604          0.0                0        0       115487
## 8613          0.0                0        0       204163
## 8615        100.0                0        0        41800
## 8616         14.3                0        0       105305
## 8628          0.0                0        0       248549
## 8629         50.0                0        0       219887
## 8642          0.0                0        0       367164
## 8643          0.0                0        0        46464
## 8650         71.4                0        0       259460
## 8660          0.0                0        0       235690
## 8662          0.0                0        4        32775
## 8683          0.0                0        0       325306
## 8689          0.0                0        0       280672
## 8700          0.0                1        0        79060
## 8703         66.7                0        0       615972
## 8705         20.0                0        0       315940
## 8708          0.0                0        0        36648
## 8731        100.0                0        0       509031
## 8737          0.0                0        0        63108
## 8739         20.0                1        0       356338
## 8744          0.0                1        0        21272
## 8769        100.0                0        0       141881
## 8797        100.0                0        0        87410
## 8818          0.0                0        0        41600
## 8820          0.0                0        0       169497
## 8821          0.0                0        0        87780
## 8837        100.0                0        0       330108
## 8843         33.3                0        0       333667
## 8844          0.0                0        0       417936
## 8848          0.0                1        0        43867
## 8858         50.0                1        0       103576
## 8869          0.0                0        0       135206
## 8881        100.0                0        0        30896
```

```
## 8882          0.0                0        0        49622
## 8887         37.5                0        0        17800
## 8892          0.0                0        0        77128
## 8894          0.0                1        0       143337
## 8899         50.0                0        0       237229
## 8903          0.0                0        0        23218
## 8908          0.0                0        0        45200
## 8925          0.0                0        0        44099
## 8932          0.0                0        0       160917
## 8947          9.1                0        0       365286
## 8964         40.0                0        0        82659
## 8986         28.6                0        0        77106
## 9008          0.0                0        0        28031
## 9011          0.0                0        0        18301
## 9013          0.0                0        0        54779
## 9021          0.0                0        0       193565
## 9023          0.0                0        0        44998
## 9054        100.0                0        0       797689
## 9084         50.0                0        0        54873
## 9088          0.0                0        0       236700
## 9129          0.0                0        0        31300
## 9142          0.0                0        0       308944
## 9146         33.3                0        0       184566
## 9168         14.3                0        0       464072
## 9175         33.3                0        0       286024
## 9185          0.0                0        0       565579
## 9191        100.0                0        0       317358
## 9206          0.0                0        0       548551
## 9208          0.0                0        0       347010
## 9235          0.0                0        0        42660
## 9269         16.7                0        0       314313
## 9287         66.7                0        0       165525
## 9313          0.0                0        0       166608
## 9317          0.0                0        0       199877
## 9318          0.0                0        0       239521
## 9322        100.0                0        0        41803
## 9349         33.3                0        0       174642
## 9359          0.0                0        0       105142
## 9360         60.0                1        0        92827
## 9368          0.0                0        0       381800
## 9369         33.3                0        0       218636
## 9389         20.0                0        0       218936
## 9417          0.0                0        0        38594
## 9420         25.0                0        0       302751
## 9423          0.0                0        0       399716
## 9428         25.0                1        0       197716
## 9449          0.0                0        0        63127
## 9490          0.0                0        0       166535
## 9494         33.3                0        0        34542
## 9513         33.3                0        0        31234
## 9518         50.0                0        0       216798
## 9533         50.0                1        0       333932
## 9548         33.3                0        0       296064
## 9561         33.3                0        0       225300
## 9563         33.3                1        0        30700
## 9568         40.0                0        0       304405
## 9576         25.0                0        0        93980
## 9588         75.0                1        0       200965
## 9634         40.0                0        0       310975
## 9645         20.0                0        0        25504
## 9660         66.7                0        0       148679
## 9663          0.0                1        0        21200
## 9675          0.0                0        0        72002
## 9678         16.7                1        0        98757
## 9686         72.7                1        0        60706
## 9707         33.3                0        0       304158
## 9708          0.0                0        0        57101
## 9720         33.3                0        0       571384
## 9724          0.0                0        0        69389
## 9730          0.0                0        0        92076
## 9739        100.0                0        0       148002
## 9749          0.0                0        0       226401
## 9759          0.0                0        0        59100
## 9771         25.0                0        0        38620
## 9802          0.0                0        0        39978
## 9807        100.0                0        0        49222
## 9818          0.0                0        0        23900
## 9822          0.0                0        0       119269
## 9823          0.0                0        0       110746
## 9869         66.7                0        0        67269
## 9885          0.0                0        0       134592
## 9916          9.1                0        0       124373
## 9935        100.0                0        0       228282
## 9965          0.0                0        0        72992
## 9981          0.0                0        1       356065
## 9985          0.0                0        0       827400
## 9986        100.0                1        0       203405
## 10009         0.0                0        0        27600
## 10012        75.0                0        0       134490
## 10027        20.0                0        1       102192
## 10068         0.0                0        0       152451
## 10074        50.0                0        0       297748
## 10076         0.0                0        0        99697
## 10092         0.0                0        0       292489
## 10101       100.0                0        0        36190
## 10124        50.0                0        0       731508
## 10128        25.0                0        0       187194
## 10129        10.0                0        0       260415
```

```
## 10141            50.0                   1         0          112520
## 10142             9.1                   0         0          522158
## 10163             0.0                   0         0           98678
## 10165            25.0                   0         0          102277
## 10179            50.0                   0         0           29020
## 10188            16.7                   0         0           40700
## 10210             0.0                   0         0          353953
## 10220             0.0                   1         0           46334
## 10221            50.0                   0         0           51614
## 10240             0.0                   0         0           74389
## 10246            33.3                   0         0          450837
## 10249            33.3                   0         0          332602
## 10262            25.0                   0         0           16100
## 10265            16.7                   0         0          130513
## 10278            14.3                   0         0           61425
## 10288             0.0                   0         0          192865
## 10319            11.1                   0         0          204071
## 10328           100.0                   0         0           26717
## 10329            33.3                   0         0          239875
## 10335             0.0                   0         0          243414
## 10339            25.0                   0         0          292684
## 10366            33.3                   0         0           23618
## 10371             0.0                   0         0          221902
## 10385             0.0                   0         0          240899
## 10387             9.1                   0         0          240073
## 10417           100.0                   0         0          318615
## 10448            80.0                   0         0          481839
## 10449            50.0                   0         0          467581
## 10453            30.8                   0         0          138262
## 10455           100.0                   0         0           93740
## 10460            33.3                   0         0          148176
## 10464           100.0                   0         0           70047
## 10471           100.0                   0         0           62551
## 10482             0.0                   0         0          408442
## 10491             0.0                   0         0          159039
## 10494             0.0                   0         0          302878
## 10508             0.0                   0         0          226270
## 10517            25.0                   0         0           36900
## 10530             0.0                   0         0          142329
## 10532             0.0                   1         0           60103
## 10535            66.7                   1         0          312635
## 10545            20.0                   0         0           52064
## 10570            50.0                   0         0           45504
## 10573            75.0                   1         0           44615
## 10576            50.0                   0         0           37700
## 10579            60.0                   0         0          126500
## 10582            66.7                   0         0         1358914
## 10592             0.0                   0         0           48043
## 10595            75.0                   0         0           31262
## 10601             0.0                   0         0           48499
## 10614            33.3                   1         1          199245
## 10620            50.0                   0         0          534272
## 10632             0.0                   0         0           87800
## 10641             0.0                   1         1           67675
## 10646            33.3                   0         0          303605
## 10655             0.0                   0         0          151937
## 10658             0.0                   0         0           46759
## 10661             0.0                   0         0           83269
## 10680            66.7                   0         0           33892
## 10689           100.0                   0         0           82578
##       total_bal_ex_mort total_bc_limit total_il_high_credit_limit
## 16                 7405          3000                       9088
## 38                11519          6100                       4417
## 47                38461         49100                      37931
## 77                37308          2000                      20964
## 88               311709         31900                     215296
## 112              102825         39500                      69001
## 133               52926         47000                      41552
## 135                5005          4100                       5400
## 145               30132          5500                      31579
## 169               33748         15600                      36944
## 180               31894         56200                      37452
## 191               52348          8100                      61841
## 208               63619         13300                      63900
## 222               20501          9800                      15000
## 226               60034         66900                      33230
## 231              109859         37300                      77944
## 243               17737         11000                      17572
## 244               60387         20800                      61316
## 250                6102          4800                      14219
## 260               18220         24000                      15855
## 271               58502          9000                      49801
## 277               52754         41500                      38875
## 284               20993          4900                      30513
## 292              102910         18600                      98583
## 295               30883         49900                      23002
## 311               41580         13500                      33500
## 355              136718          6000                     108249
## 376              158792         23400                     166599
## 385               82180           700                     100088
## 392               71285         46300                      70005
## 400              143276         28400                     146342
## 402               68700         19600                      83356
## 413               11158          7400                      17440
## 421               33144          8200                      26225
## 423               39396         26300                      28685
## 424               38486          9000                      34857
## 440               68797          8900                      66782
```

```
## 444          220921        20200                190649
## 509           23905        34800                 18140
## 524            9715         2500                  7000
## 542           88804         6000                 80099
## 581           49766        13000                 62779
## 593           72079        11200                 65404
## 620           51103        13000                 61298
## 669          107288        81800                 68300
## 679           63091        49900                215187
## 695           86581        73800                 57688
## 698           60139        28800                 78379
## 726           88100        10100                104430
## 750           25789        51400                 25872
## 755           19759        20500                  5000
## 791           17866        36100                 23605
## 796           59015        24600                 67774
## 805           19874        30000                 22407
## 806          206860         5800                168199
## 821           56207        11200                 56192
## 837          238167        30600                141267
## 841           24650        29100                 16000
## 843          104963        14700                 93579
## 860           55667        29800                 34428
## 862          120127        11400                115012
## 891           30696         3500                 30921
## 911            8620         6000                  5000
## 921           66985        57300                 43569
## 930           57270        30700                 66030
## 952           34141        19300                 27152
## 956          115937         4500                132526
## 958           54864         4600                 59122
## 967           37596        21300                 24000
## 974           64529         9800                 62133
## 982          107147         1400                 77048
## 1014          28301         4500                 30015
## 1022         253115       147000                 68122
## 1045          15207        22800                 25049
## 1051         131108        13700                137792
## 1075          71356        54900                 56343
## 1097          20855        46700                 14896
## 1099          71018        15600                 67185
## 1104          27019        21000                 25000
## 1107          25578        41500                 42397
## 1119          34575        50100                 31032
## 1125          20368          800                 25051
## 1166          26316        25300                 23867
## 1167          54382         5600                 79267
## 1172          76892        41800                 88934
## 1173          28375        15400                 23943
## 1175          21097        13600                 18000
## 1177          46076        35400                 57815
## 1193          39776        10000                 34334
## 1200          92286        11800                 67781
## 1206          80907         5000                105036
## 1223           9785         5300                 19585
## 1230          44983        16400                 51960
## 1238          41059         8900                 29281
## 1245          92417        25000                109462
## 1250          68347        31300                 75692
## 1272          36763        20000                 72179
## 1282         171702        12100                161364
## 1283         110159        23400                118805
## 1298          22985        24600                  9586
## 1300           8949         3000                 29061
## 1308          69078         2000                 71173
## 1321          46433        31000                 42785
## 1322         405919        18400                403119
## 1327          93706        20400                 80500
## 1374          30216        13700                 30003
## 1378          19339         5500                 22272
## 1385           6823         8500                  7150
## 1411          91762        26000                106937
## 1415          59849        30000                 88305
## 1463          21824        16300                 26882
## 1517          59071        10300                 59443
## 1531          73409        20800                 68229
## 1598         114926        63200                109142
## 1609          25473        13300                 23889
## 1638          53385         5800                 57199
## 1684          28423         7800                 23500
## 1710          14222        10400                 15000
## 1713         152379        46000                169200
## 1722         234158        66900                 72900
## 1733          44107        40000                 29302
## 1742          11645        23000                 19905
## 1770         220087        19500                220768
## 1777         112259        85200                102535
## 1779          58414        16500                 59138
## 1781          57261        37800                 47738
## 1808          37490        43200                 59000
## 1814          38225        11800                 26500
## 1832          61947         4300                 59853
## 1834          46945        26200                 39400
## 1841          92702        24800                 81260
## 1858           9784         2800                 17395
## 1872          38670        11200                 37468
## 1888          10234        37800                 10000
## 1908          22843         7000                 26263
```

```
## 1912          30778        38000                25927
## 1918          37724        47500                22474
## 1923          23551        86000                21067
## 1931         111050        22700               113285
## 1940          29582        11700                21000
## 1941          71793        24700                70949
## 1966           7157         9800                 4200
## 1967          44167        17200                45714
## 1969          12609         7600                 9000
## 1993          58143        18600                59736
## 2000          26946        66100                25000
## 2020         213919        27500               219583
## 2021         114314        55800               139366
## 2022         132257        15000               112968
## 2024          27796        19400                18758
## 2062          34430        38900                36867
## 2064          24782        22200                32548
## 2110         105003        42700                99532
## 2134          36230        27200                42418
## 2141         208398        16400               281887
## 2152         242772        46400               201031
## 2164          67541         6500                92187
## 2188         107853         4600               120121
## 2195          43398        17900                40153
## 2205         185747        49900               138724
## 2223          30119        39000                31014
## 2228          29846         2000                27053
## 2237          24058        11000                17663
## 2266          41813        16600                66855
## 2269          63610        21200                55971
## 2276         209879       140400                93603
## 2282          44374        10600                49778
## 2291          36002        18900                33437
## 2299          17254        17300                17638
## 2309          30545         5200                26131
## 2311         131524        61100                79892
## 2317          26671        11100                18283
## 2324          27942        16000                29793
## 2360          54431        61800                70000
## 2366          26005        82000                24621
## 2372          12581         9000                 5600
## 2391          32176         7600                29808
## 2451          47866        10700                20000
## 2466          34370        14800                20038
## 2487          68780         6000               131904
## 2498          35057         3700                29869
## 2507          15512        11000                18137
## 2553          47678        32300                58682
## 2570          66350        38100                64784
## 2573          83546        35100                63190
## 2594          63643        27900                81987
## 2632          30182         6600                39626
## 2644          70522        30900                61423
## 2665          57834        10200                51659
## 2666          45132        16300                42642
## 2680          63118        27600                52188
## 2682           8631         8300                 9500
## 2688          34950        14100                49757
## 2697          12085         4000                27372
## 2704          20684        27500                46598
## 2739          16321        12200                27372
## 2741          43408        25800                17663
## 2750          12403         4900                21823
## 2751          23478        27300                22543
## 2754          13146         7000                14066
## 2762          44669        21200                51184
## 2764          52779         2800                54291
## 2778          35006         7500                36168
## 2802          15778        22700                21345
## 2818          63385         2700                68047
## 2822          60402        47200                64095
## 2841          21550         7800                25491
## 2848          55080        22800                54544
## 2888          65298        26000                49629
## 2922         146850        31000               121990
## 2941          74487         4000                76029
## 2956          41024        22100                32224
## 2970          56279        18500                69949
## 2986          35721        20800                28570
## 3006         111645         6000               127333
## 3030          69742        16300                68867
## 3035          74008         8900                89928
## 3044         173982        15000               177639
## 3048          86881        13000                72794
## 3063          47808        31300                36004
## 3064          34086        19800                26881
## 3072          49087        12900                43847
## 3080          27089         8700                29805
## 3082          31018        35900                15023
## 3097          38407        21100                53941
## 3098          44743        16000                42500
## 3135          22612         6000                25207
## 3151         120656        24300               118614
## 3153          26588        20100                26000
## 3171         130898        23100               134632
## 3205           6311        19400                 3500
## 3217          74984        22500                92625
## 3225          80899        57400                81500
```

```
## 3227          55264        3000                60777
## 3234          54358       43500                71456
## 3239          26052       54800                26625
## 3247          65624       20700                81991
## 3331          15191        9100                14821
## 3334          58142       14100                59902
## 3372          36868       17600                37135
## 3379          27783       22200                21613
## 3393          44009       10600                40971
## 3395          51244         500                52184
## 3403          39623       23900                34100
## 3410          24859        7500                30408
## 3413          45213        8600                43543
## 3417          63414       12800                52556
## 3487          75388       33900                26141
## 3513          52923       40000                40250
## 3521         331390       49000               273070
## 3532          92986       26400                90653
## 3558          19629       10100                29723
## 3562          24174       31000                18721
## 3571         123918       42900               108423
## 3574          18051       11500                22815
## 3581           9945        7500                 7550
## 3589          97500       13800                98045
## 3605         119545        7800               131209
## 3630          57655       10100                68275
## 3631           3494       12900                 2000
## 3640          85676       64600                91557
## 3642          68162       24300                67995
## 3644           4614       11200                 5000
## 3653          90190       40700               107921
## 3662          18041       11400                23414
## 3663          78053       53000                68087
## 3691          31214       15600                15796
## 3713          27430       69600                14661
## 3726          45526       39300                42781
## 3746          10539       28000                23763
## 3751         102849        7300               109770
## 3757          52230        4600                53480
## 3761          91980       44800                75721
## 3763          21193       24800                13504
## 3770          24163        7100                21618
## 3774          37281        3200                50982
## 3775           6086       40800                 6386
## 3786          48285       22500                50649
## 3809          18594        5700                14223
## 3824          57864       26200                51479
## 3832          18971       17500                17554
## 3845           9730       14100                13845
## 3864          24914        8800                35129
## 3877          28020        4000                37239
## 3890          30962       38900                34437
## 3907          80564       24900                80868
## 3918          25863       11500                28178
## 3925          22772        6600                27598
## 3927          26098       12900                30907
## 3945          47604        6900                54310
## 3946          18568       32200                27489
## 3972          60708       19100                68427
## 3986          20124       10500                20039
## 3988          67952       18900                85356
## 4008         148349        3900               142742
## 4015          13452       11000                12518
## 4039          20762        1800                23725
## 4047          11037       43000                 7139
## 4056          11154        3300                20000
## 4076           3982        8300                 3500
## 4090          77149       29400                79091
## 4103          21742       35300                27561
## 4160          21414       13500                23180
## 4164          18741       15800                 8000
## 4188         107950        7100                97859
## 4222          29721        6000                33304
## 4231          16735       24000                12903
## 4236          67956       52300                17609
## 4256          41275       16500                44793
## 4282          12209        7300                15549
## 4286          69826       13500                76992
## 4306          87574       23000                87063
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## 4358          50653       43500                30919
## 4375          23114        3500                28496
## 4383          44455       24300                46111
## 4387         107182      145400                94485
## 4404          31946        8600                50637
## 4420          71821       17200                94239
## 4449          45928       30000                44600
## 4455          24938       35800                29000
## 4463          20663       14100                21366
## 4490          93226       17000                91612
## 4495          12270       29300                 9509
## 4505           8888       26100                 1000
## 4507          80551       15500                72348
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## 4553          59518        8800                64083
## 4579         428297       33200               470993
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## 4591          19774        23900                9115
## 4593          15278         7200               23028
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## 4636         137879        75800              126929
## 4659          46150        40300               48194
## 4667          99720        33900               95097
## 4670          95857        70400               71909
## 4676          50793       107900               34095
## 4678          74361        67500              109680
## 4679          19464        20000                8550
## 4687          30341        17900               29597
## 4697          27724        20500               16499
## 4709          10637        17200                9355
## 4725          11035         3000                9729
## 4741         118548        34200              125794
## 4777          47253        42500               49029
## 4781          43268        14500               54453
## 4796          18719         5000               28667
## 4807         174273        33500               69518
## 4808         268828        69900              289414
## 4822         112673        11600               45002
## 4830          72743        29300               90600
## 4849          71533        11800               68086
## 4853         230363         6300              254071
## 4854          80702        53400               61546
## 4859          20604         9900               18918
## 4897          42476         8500               67151
## 4966         103899        15000              103032
## 4975          43575        13300               33532
## 4991          33885        16900               42421
## 5016          39531         7600               41044
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## 5024          25902        15500               31676
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## 5078         159025        45300              180201
## 5082          85882        15100              115762
## 5092          56032        12000               39515
## 5140          35490        66400               32703
## 5143          51843         1800               45311
## 5148          19871        33900               31794
## 5188          67336         7500               61726
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## 5224          76746        22000               84538
## 5229          31927        46300               25656
## 5281          29356         3200               31472
## 5290          70146        44100               51542
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## 5327          22224         3200               19747
## 5331          30905        27300               53615
## 5334          71976        24200               68631
## 5335          58710        59000               26173
## 5336          35725         3500               43547
## 5349          31438        25600               38682
## 5353          46879        27800               38248
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## 5385           9941         4100               10335
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## 5424          48908        12000               57111
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## 5486          24769         4200               21836
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## 5541          33672        31000               24771
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## 5557          31479          800               32073
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## 5704          46872        37600               26646
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## 5761           9203        12600               14500
## 5763          26173        41500               33729
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## 5800         182061        14700              179477
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## 5873          41768        25300                50410
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## 5983          17551        12500                21200
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## 5993          18768        14600                14500
## 5995         111447        12000                56254
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## 6040          33862        26100                46000
## 6042         116885        55200                75189
## 6058         112874        62700               118543
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## 6095         215979        52000               197570
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## 6107          41143        33300                41908
## 6108          23713         8900                21882
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## 6143         200828        25600               221007
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## 6215          41324        26600                32402
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## 6220          45687        29100                42665
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## 6337          26373        11500                30000
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## 6379          31648          900                57964
## 6397          28273        16500                51761
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## 6506          40486         2900                45292
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## 6652          69550        18100                70477
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## 6735          35496        37000                19989
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## 6754          47517        21600                50471
## 6770          21844         9400                23268
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## 6803          21631        12600                 8000
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## 6934          48962         2000               65308
## 6941          36886        23500               29563
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## 6977          20360        11300               16679
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## 7017          16531         4600               22770
## 7033          49671        10800               46035
## 7037         113150        15500               73310
## 7057          36097        23900               29902
## 7060          28307         5300               25987
## 7064          57256        29100               71518
## 7085          52288         7000               51912
## 7129         107662        27200              103451
## 7138          98066       126800               49000
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## 7187          73178        17000               69479
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## 7216          36048       124600               30000
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## 7380          47890        14200               36112
## 7382          47410        56400               17714
## 7383          41881        26500               36953
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## 7439          26545         5700               25208
## 7466          65167         7900               71758
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## 7544          72518        50500               76396
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## 7581          34086        14000               31758
## 7583          38122         8800               37342
## 7616          93291        28300               83127
## 7628         118132         6000              122110
## 7641          23822         5500               29887
## 7648          10185         8600               16816
## 7664         339216        45500              203742
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## 7750         111837        39700               73688
## 7753          10552         5800                9000
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## 7785          23068        23500               23168
## 7799          37892         6100               36730
## 7809          18509        10400               16022
## 7810          26463       124900               32355
## 7812          89631        34000               47996
## 7815          93908        58100              107161
## 7825         302509        84100              243418
## 7830          51088        19600               42285
## 7845          29768         9700               33118
## 7863          85224        20600               80539
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## 7877          18430        15000               21500
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## 7892          34182         6300               38596
## 7897          13611         3600               19377
## 7906          84049        51200               69579
## 7927         100561        23000               71300
## 7943         308430        11500              299826
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## 8045          43947         8900               45029
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## 8139         122670         7800              143192
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## 8163          37079        17000               41000
## 8168          25689        22600               30640
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## 8191          10616        12300                5260
## 8205          93000        68300               57753
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## 8253         143759        37100              174038
## 8263          94792        43200               20521
## 8271          34541         6200               20000
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## 8296          49352        22500               47849
## 8300          44710        40000               74251
## 8326          32208        27500               33109
## 8343          46227        11200               42530
## 8349          29688        27500               21651
## 8365          39971        14000               28182
## 8381         112514        26600               89812
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## 8423         102996        13300              102332
## 8442          27806        12000               27324
## 8458          18040         4300                8843
## 8468          60922        18100               46757
## 8469          14948        12100                3345
## 8486          92879        14000               86581
## 8508          25267        26000               17524
## 8521         107141        92000              109996
## 8527          51289        25700               38295
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## 8628          30573        17300               29249
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## 8643           3659        24600               11664
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## 8660          36610        18500               42590
## 8662          18962        17800               11875
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## 8689          48014        19300               56972
## 8700          45784        12800               54460
## 8703         148993        17100              154472
## 8705          43971        24300               34640
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## 8737          37465        14100               49008
## 8739          26626        18000               22138
## 8744          14784         3800               17472
## 8769          45952        32100               22214
## 8797          29265         5700               81710
## 8818          23563        21600               20000
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## 8821          61610        19600               62180
## 8837         215345        16600              106358
## 8843          81557        20200               80167
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## 8882          31899        20400               25922
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## 8899          55554        12900               30536
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## 8908          14718        19700               12700
## 8925          12741        11900               23299
## 8932         119445        25100              104317
## 8947          59048        47800               71933
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## 8986          37972        32500               34106
## 9008          22657         1300               22731
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## 9021           4437         4000                8584
## 9023           9252        18100               21698
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## 9129           1785        16500                9000
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## 9191          24784         2500               23158
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## 9235          10504        30800               10502
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## 9423          29715         9500                34554
## 9428         143253        10500               134416
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## 9548          72242        25800                72413
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## 9568          36502        37400                27865
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## 9588          22050        14700                20600
## 9634          35113        12900                27915
## 9645          13625         9800                 8904
## 9660          50530        24200                38179
## 9663           7660        11600                 5000
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## 9759          26995        26400                19000
## 9771           8325        25800                 3120
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## 9965          42345        12900                43692
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## 10142         55383        78400                73923
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## 10165         19315         7100                13777
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## 10535            260668          48500                     218335
## 10545             14087          28200                       5464
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## 10573             30487          10300                      30315
## 10576             21411          14900                      11000
## 10579             16774           9000                      13000
## 10582            213365         105200                     121117
## 10592             20558          24500                      20943
## 10595             13894           7500                       7106
## 10601              8300          24800                      22999
## 10614             34806          11200                      31481
## 10620             96917           5200                     145772
## 10632             51377          47800                      40000
## 10641             42818          13900                      41275
## 10646             38143          45200                      30038
## 10655             35566          12500                      39731
## 10658              9716          14000                      28059
## 10661             40633          20900                      44569
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## 10689             56500          46700                       1500
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## 10689
##       payment_plan_start_date hardship_loan_status disbursement_method
## 16                                                               Cash
## 38                                                               Cash
## 47                                                               Cash
## 77                                                               Cash
## 88                                                               Cash
## 112                                                              Cash
## 133                                                         DirectPay
## 135                                                              Cash
## 145                                                              Cash
## 169                                                              Cash
## 180                                                              Cash
## 191                                                         DirectPay
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## 292                                                         DirectPay
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## 385                                                              Cash
## 392                                                              Cash
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## 413                                                              Cash
## 421                                                         DirectPay
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## 440                                                              Cash
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## 581                                                    Cash
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## 1888                                                   Cash
## 1908                                                   Cash
## 1912                                             DirectPay
## 1918                                                   Cash
## 1923                                                   Cash
## 1931                                             DirectPay
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## 1940                                                    Cash
## 1941                                                    Cash
## 1966                                                    Cash
## 1967                                                    Cash
## 1969                                                    Cash
## 1993                                                    Cash
## 2000                                                    Cash
## 2020                                                    Cash
## 2021                                                    Cash
## 2022                                              DirectPay
## 2024                                              DirectPay
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## 7775                                                    Cash
## 7785                                                    Cash
## 7799                                                    Cash
## 7809                                                    Cash
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## 7812                                                    Cash
## 7815                                                    Cash
## 7825                                                    Cash
## 7830                                                    Cash
## 7845                                                    Cash
## 7863                                                    Cash
## 7867                                              DirectPay
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## 7886                                                    Cash
## 7892                                                    Cash
## 7897                                                    Cash
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## 8124                                                    Cash
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## 8158                                                    Cash
## 8163                                                    Cash
## 8168                                                    Cash
## 8191                                              DirectPay
## 8205                                                    Cash
## 8219                                                    Cash
## 8225                                                    Cash
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## 10508                                                   Cash
## 10517                                                   Cash
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## 10246                   N
## 10249                   N
## 10262                   N
## 10265                   N
## 10278                   N
## 10288                   N
## 10319                   N
## 10328                   N
## 10329                   N
## 10335                   N
## 10339                   N
## 10366                   N
## 10371                   N
## 10385                   N
## 10387                   N
## 10417                   N
## 10448                   N
## 10449                   N
## 10453                   N
## 10455                   N
## 10460                   N
## 10464                   N
## 10471                   N
## 10482                   N
## 10491                   N
## 10494                   N
## 10508                   N
## 10517                   N
## 10530                   N
## 10532                   N
## 10535                   N
## 10545                   N
## 10570                   N
## 10573                   N
## 10576                   N
## 10579                   N
## 10582                   N
## 10592                   N
## 10595                   N
## 10601                   N
## 10614                   N
## 10620                   N
## 10632                   N
## 10641                   N
## 10646                   N
## 10655                   N
## 10658                   N
## 10661                   N
## 10680                   N
## 10689                   N
##       settlement_date         region
## 16                       california
## 38                          florida
## 47                         virginia
## 77                             utah
## 88                           nevada
## 112                         vermont
## 133                          oregon
## 135                         florida
## 145                      california
## 169                        new york
## 180                      new jersey
```

```
## 191                        montana
## 208                         kansas
## 222                  new hampshire
## 226                          idaho
## 231                       colorado
## 243                           utah
## 244                        montana
## 250                        florida
## 260                      minnesota
## 271                       new york
## 277                           utah
## 284                           iowa
## 292                       michigan
## 295                      louisiana
## 311                           utah
## 355                       maryland
## 376                           utah
## 385                        florida
## 392                         oregon
## 400                       arkansas
## 402                         oregon
## 413                         nevada
## 421                        florida
## 423                      louisiana
## 424                   south dakota
## 440                         oregon
## 444                        georgia
## 509                        florida
## 524                     california
## 542                     california
## 581                       colorado
## 593                        arizona
## 620                     new mexico
## 669                          idaho
## 679                        florida
## 695                       arkansas
## 698                   rhode island
## 726                         oregon
## 750                        florida
## 755                    connecticut
## 791                  new hampshire
## 796                        vermont
## 805                           iowa
## 806                   rhode island
## 821                     new mexico
## 837                        indiana
## 841                          idaho
## 843                  new hampshire
## 860                          maine
## 862                          maine
## 891                       arkansas
## 911                      tennessee
## 921                     california
## 930                       oklahoma
## 952                    connecticut
## 956                         oregon
## 958                          idaho
## 967                     california
## 974                     california
## 982                          maine
## 1014                        florida
## 1022                         nevada
## 1045                           utah
## 1051                    california
## 1075                    california
## 1097                       delaware
## 1099                    california
## 1104                       new york
## 1107                       new york
## 1119                      tennessee
## 1125                       michigan
## 1166                    california
## 1167                       michigan
## 1172                         nevada
## 1173                    california
## 1175                        alabama
## 1177                    california
## 1193                    california
## 1200                         idaho
## 1206                      minnesota
## 1223                       colorado
## 1230                        alabama
## 1238                       michigan
## 1245                        montana
## 1250                          idaho
## 1272                         hawaii
## 1282                       kentucky
## 1283                    connecticut
## 1298                        alabama
## 1300                      minnesota
## 1308                   rhode island
## 1321                         nevada
## 1322                      tennessee
## 1327                          idaho
## 1374                      tennessee
## 1378                        florida
## 1385                    california
## 1411                      minnesota
```

```
## 1415                        alabama
## 1463                   north dakota
## 1517                         nevada
## 1531                      minnesota
## 1598                     california
## 1609                        florida
## 1638                         kansas
## 1684                     california
## 1710                     california
## 1713                        florida
## 1722                     california
## 1733                       nebraska
## 1742                     california
## 1770                   rhode island
## 1777                          idaho
## 1779                        florida
## 1781                         hawaii
## 1808                       colorado
## 1814                       colorado
## 1832                         oregon
## 1834                           utah
## 1841                  massachusetts
## 1858                        georgia
## 1872                          texas
## 1888                      tennessee
## 1908                      tennessee
## 1912                  massachusetts
## 1918                       oklahoma
## 1923                     california
## 1931                  new hampshire
## 1940                     california
## 1941                         nevada
## 1966                  new hampshire
## 1967                       new york
## 1969                     washington
## 1993                        arizona
## 2000                         nevada
## 2020                       maryland
## 2021                         nevada
## 2022                        florida
## 2024                         oregon
## 2062                         oregon
## 2064                        florida
## 2110                         nevada
## 2134                       illinois
## 2141                        alabama
## 2152                        arizona
## 2164                           ohio
## 2188                      tennessee
## 2195                         nevada
## 2205                         oregon
## 2223                         nevada
## 2228                          idaho
## 2237                          maine
## 2266                       michigan
## 2269                        vermont
## 2276                         nevada
## 2282                       illinois
## 2291                      minnesota
## 2299                        florida
## 2309                       new york
## 2311                      louisiana
## 2317                  new hampshire
## 2324                      tennessee
## 2360                     california
## 2366                          idaho
## 2372                      tennessee
## 2391                  new hampshire
## 2451                        florida
## 2466                     california
## 2487                        vermont
## 2498                       colorado
## 2507                       colorado
## 2553                       colorado
## 2570                     california
## 2573                        montana
## 2594                      tennessee
## 2632                     washington
## 2644                   pennsylvania
## 2665                      tennessee
## 2666                         nevada
## 2680                         nevada
## 2682                         nevada
## 2688                        arizona
## 2697                        florida
## 2704                   rhode island
## 2739                          idaho
## 2741                       michigan
## 2750                  new hampshire
## 2751                       colorado
## 2754                       nebraska
## 2762                     new jersey
## 2764                         oregon
## 2778                     california
## 2802                     washington
## 2818                        vermont
## 2822                      tennessee
## 2841                        florida
```

```
## 2848                      nebraska
## 2888                       montana
## 2922                       vermont
## 2941                        oregon
## 2956                       florida
## 2970                       arizona
## 2986                        nevada
## 3006                         texas
## 3030                 new hampshire
## 3035                       arizona
## 3044                       georgia
## 3048                     tennessee
## 3063                    california
## 3064                    california
## 3072                      nebraska
## 3080                         idaho
## 3082                       vermont
## 3097                        kansas
## 3098                          utah
## 3135                        kansas
## 3151                 massachusetts
## 3153                     wisconsin
## 3171                     tennessee
## 3205                    washington
## 3217                        oregon
## 3225                       georgia
## 3227                      michigan
## 3234                     tennessee
## 3239                       florida
## 3247                          utah
## 3331                     tennessee
## 3334                   connecticut
## 3372                          iowa
## 3379                      new york
## 3393                       florida
## 3395                        oregon
## 3403                    california
## 3410                    washington
## 3413                        nevada
## 3417                       florida
## 3487                        nevada
## 3513                      new york
## 3521                 new hampshire
## 3532                        oregon
## 3558                 new hampshire
## 3562                      illinois
## 3571                        nevada
## 3574                        oregon
## 3581                      colorado
## 3589                      michigan
## 3605                       georgia
## 3630                      colorado
## 3631                        nevada
## 3640                 new hampshire
## 3642                      colorado
## 3644                      arkansas
## 3653                        kansas
## 3662                    california
## 3663                 new hampshire
## 3691                       florida
## 3713                        oregon
## 3726                  pennsylvania
## 3746                       florida
## 3751                       arizona
## 3757         Jan-2019      florida
## 3761                       georgia
## 3763                       vermont
## 3770                 new hampshire
## 3774                       florida
## 3775                        nevada
## 3786                 massachusetts
## 3809                    california
## 3824                       florida
## 3832                    california
## 3845                 new hampshire
## 3864                       arizona
## 3877                     minnesota
## 3890                         texas
## 3907                 massachusetts
## 3918                 new hampshire
## 3925                    california
## 3927                      new york
## 3945                     tennessee
## 3946                        oregon
## 3972                       indiana
## 3986                       montana
## 3988                       montana
## 4008                       alabama
## 4015                      missouri
## 4039                      kentucky
## 4047                          iowa
## 4056                 west virginia
## 4076                       arizona
## 4090                       indiana
## 4103                     tennessee
## 4160                       montana
## 4164                    california
## 4188                 massachusetts
```

```
## 4222                          utah
## 4231                     new mexico
## 4236                         nevada
## 4256                      tennessee
## 4282                       michigan
## 4286                         nevada
## 4306                        georgia
## 4308                          idaho
## 4313                         oregon
## 4355                         nevada
## 4358                        alabama
## 4375                           ohio
## 4383                      tennessee
## 4387                         nevada
## 4404                    connecticut
## 4420                          maine
## 4449                         oregon
## 4455                        florida
## 4463                     washington
## 4490                        florida
## 4495                        florida
## 4505                    connecticut
## 4507                           utah
## 4540                    connecticut
## 4553                       kentucky
## 4579                     california
## 4591                        vermont
## 4593                        vermont
## 4599                  massachusetts
## 4607                      tennessee
## 4636                       kentucky
## 4659                        florida
## 4667                     new mexico
## 4670                          maine
## 4676                     california
## 4678                  south carolina
## 4679                       delaware
## 4687                       kentucky
## 4697                         nevada
## 4709                        florida
## 4725                      wisconsin
## 4741                     california
## 4777                           utah
## 4781                      tennessee
## 4796                     california
## 4807                        montana
## 4808                        georgia
## 4822                          maine
## 4830                         oregon
## 4849                           utah
## 4853                        florida
## 4854                       arkansas
## 4859                        georgia
## 4897                       oklahoma
## 4966                       missouri
## 4975                        vermont
## 4991                     california
## 5016                         oregon
## 5020                          idaho
## 5024                  massachusetts
## 5026                       colorado
## 5040                       colorado
## 5058                        florida
## 5078                         nevada
## 5082                        florida
## 5092                         nevada
## 5140                      tennessee
## 5143                         nevada
## 5148                        vermont
## 5188                        indiana
## 5203                          idaho
## 5214                         nevada
## 5224                       michigan
## 5229                        georgia
## 5281                        montana
## 5290                         oregon
## 5310                          maine
## 5327                       oklahoma
## 5331                        florida
## 5334                     california
## 5335                       new york
## 5336                     washington
## 5349                       missouri
## 5353                   south dakota
## 5370                        georgia
## 5381                       michigan
## 5385                      tennessee
## 5396                      wisconsin
## 5408                  massachusetts
## 5415                     california
## 5424                      tennessee
## 5428                         nevada
## 5450                       colorado
## 5474                      tennessee
## 5480                        florida
## 5486                         nevada
## 5509                   north dakota
## 5518                        montana
```

```
## 5523                        arizona
## 5534                        florida
## 5536                         nevada
## 5541                      tennessee
## 5551                     california
## 5557                         nevada
## 5562                        georgia
## 5584                    connecticut
## 5588                       new york
## 5598                        montana
## 5599                         nevada
## 5625                         oregon
## 5626                       delaware
## 5633                     california
## 5641                     california
## 5674                         nevada
## 5693                   south dakota
## 5697                        georgia
## 5704                        montana
## 5712                     california
## 5761                     california
## 5763                       kentucky
## 5796                  massachusetts
## 5797                  new hampshire
## 5800                    connecticut
## 5808                  new hampshire
## 5812                         nevada
## 5814                         nevada
## 5819                         nevada
## 5824                      louisiana
## 5833                        vermont
## 5851                         nevada
## 5857                       colorado
## 5862                  massachusetts
## 5866                       oklahoma
## 5873                     california
## 5877                         oregon
## 5891                         nevada
## 5914                      tennessee
## 5936                     california
## 5961                          maine
## 5969                           utah
## 5983                  new hampshire
## 5984                   south dakota
## 5993                  massachusetts
## 5995                          maine
## 6016                    mississippi
## 6022                  new hampshire
## 6026                  west virginia
## 6040                   south dakota
## 6042                         nevada
## 6058                        florida
## 6067                        florida
## 6081                   rhode island
## 6095                         nevada
## 6098                   south dakota
## 6103                           utah
## 6107                        georgia
## 6108                         kansas
## 6110                          maine
## 6112                    connecticut
## 6125                     new mexico
## 6137                       colorado
## 6143                      tennessee
## 6153                        florida
## 6166                   south dakota
## 6198                   south dakota
## 6215                     new mexico
## 6216                        vermont
## 6220                        vermont
## 6226                      tennessee
## 6235                          idaho
## 6245                          idaho
## 6252                     california
## 6261                         nevada
## 6268                          idaho
## 6302                      tennessee
## 6304                  massachusetts
## 6331                      tennessee
## 6337                         hawaii
## 6373                          maine
## 6379                       colorado
## 6397                         oregon
## 6401                     california
## 6438                       arkansas
## 6442                   rhode island
## 6447                  massachusetts
## 6450                  massachusetts
## 6464                         oregon
## 6506                       michigan
## 6513                        florida
## 6519                      tennessee
## 6520                      tennessee
## 6580                       new york
## 6616                         nevada
## 6652                     california
## 6667                        florida
## 6688                      louisiana
```

```
## 6693                      arkansas
## 6727                         maine
## 6732                       arizona
## 6735                          utah
## 6746                       montana
## 6754                    california
## 6770                     tennessee
## 6789                     tennessee
## 6803                     louisiana
## 6819                      virginia
## 6820                     louisiana
## 6822                      colorado
## 6824                 massachusetts
## 6834                      missouri
## 6841                       florida
## 6843                     tennessee
## 6858                     minnesota
## 6860                    california
## 6889                    california
## 6891                        nevada
## 6894                  pennsylvania
## 6896                  south dakota
## 6899                  south dakota
## 6900                      oklahoma
## 6917        Jan-2019      louisiana
## 6919                       montana
## 6923                      oklahoma
## 6934                       vermont
## 6941                 massachusetts
## 6954                       alabama
## 6957                      oklahoma
## 6960                        oregon
## 6962                  south dakota
## 6965                      colorado
## 6971                     louisiana
## 6977                     tennessee
## 6989                          utah
## 7001                        nevada
## 7008                       montana
## 7009                     louisiana
## 7012                       georgia
## 7017                       georgia
## 7033                      new york
## 7037                    new mexico
## 7057                     louisiana
## 7060                     tennessee
## 7064                       georgia
## 7085                         maine
## 7129                 massachusetts
## 7138                    california
## 7145                     tennessee
## 7160                       florida
## 7174                       vermont
## 7187                       indiana
## 7189        Oct-2018     california
## 7215                       florida
## 7216                    new jersey
## 7238                    california
## 7266                       florida
## 7271                    california
## 7281                    new mexico
## 7284                       florida
## 7318                      kentucky
## 7343                    new jersey
## 7354                       montana
## 7373                    california
## 7380                        nevada
## 7382                  pennsylvania
## 7383                    washington
## 7411                     tennessee
## 7439                       florida
## 7466                    california
## 7476                 new hampshire
## 7521                   connecticut
## 7522                       georgia
## 7544                          iowa
## 7548                     tennessee
## 7560                    new mexico
## 7578                      new york
## 7581                       vermont
## 7583                       indiana
## 7616                     tennessee
## 7628                  south dakota
## 7641                    california
## 7648                        oregon
## 7664                       vermont
## 7682                      missouri
## 7736                      new york
## 7750                          ohio
## 7753                    california
## 7775                         idaho
## 7785                  south dakota
## 7799                       georgia
## 7809                       florida
## 7810                     minnesota
## 7812                       georgia
## 7815                       florida
## 7825                       georgia
```

```
## 7830                      new york
## 7845                       florida
## 7863                      illinois
## 7867                  south dakota
## 7877                         maine
## 7886                      colorado
## 7892                         maine
## 7897                 new hampshire
## 7906                 new hampshire
## 7927                      arkansas
## 7943                          utah
## 7970                         idaho
## 7994                      kentucky
## 8010                     louisiana
## 8016                        nevada
## 8045                         maine
## 8081                          utah
## 8090                        kansas
## 8114                        kansas
## 8124                      arkansas
## 8131                       montana
## 8139                     tennessee
## 8150                      oklahoma
## 8158                    california
## 8163                         idaho
## 8168                     louisiana
## 8191                      colorado
## 8205                       arizona
## 8219                       montana
## 8225                       florida
## 8251                       georgia
## 8253                    california
## 8263                 new hampshire
## 8271                        nevada
## 8285                        nevada
## 8296                        oregon
## 8300                       montana
## 8326                       arizona
## 8343                       vermont
## 8349                      new york
## 8365                     tennessee
## 8381                         idaho
## 8398                  north dakota
## 8402                       georgia
## 8422                          utah
## 8423                     tennessee
## 8424                    california
## 8458                        hawaii
## 8468                       vermont
## 8469                     tennessee
## 8486                   rhode island
## 8508                      new york
## 8521                       alabama
## 8527                       vermont
## 8551                    california
## 8561                         maine
## 8591                 new hampshire
## 8604                        nevada
## 8613                    california
## 8615                          utah
## 8616                    california
## 8628                         maine
## 8629                 new hampshire
## 8642                    california
## 8643                       arizona
## 8650                        nevada
## 8660                       georgia
## 8662                      oklahoma
## 8683                       georgia
## 8689                        nevada
## 8700                    california
## 8703                       vermont
## 8705                       florida
## 8708                        nevada
## 8731                 massachusetts
## 8737                       alabama
## 8739                    california
## 8744                        oregon
## 8769                       florida
## 8797                        nevada
## 8818                       indiana
## 8820                       arizona
## 8821                     tennessee
## 8837                      colorado
## 8843                         idaho
## 8844                   rhode island
## 8848                 new hampshire
## 8858                  north dakota
## 8869                       vermont
## 8881                    california
## 8882                     new mexico
## 8887                 new hampshire
## 8892                        kansas
## 8894                       florida
## 8899                       florida
## 8903                    california
## 8908                     louisiana
## 8925                      kentucky
```

```
## 8932                        idaho
## 8947                   california
## 8964                      vermont
## 8986                      florida
## 9008                    tennessee
## 9011                      arizona
## 9013                       nevada
## 9021                     arkansas
## 9023                      florida
## 9054                   california
## 9084                   california
## 9088                   new jersey
## 9129                     colorado
## 9142                    tennessee
## 9146                    tennessee
## 9168                    tennessee
## 9175                    tennessee
## 9185                         utah
## 9191                     colorado
## 9206                   california
## 9208                new hampshire
## 9235                    tennessee
## 9269                massachusetts
## 9287                         utah
## 9313                     virginia
## 9317                     missouri
## 9318                      florida
## 9322                  connecticut
## 9349                      indiana
## 9359                        idaho
## 9360                        maine
## 9368                   california
## 9369                    tennessee
## 9389                       nevada
## 9417                       nevada
## 9420                   california
## 9423                     colorado
## 9428                      florida
## 9449                    tennessee
## 9490                       oregon
## 9494                  connecticut
## 9513                      florida
## 9518                    tennessee
## 9533                         utah
## 9548                    tennessee
## 9561                massachusetts
## 9563                      florida
## 9568                        maine
## 9576                        maine
## 9588                      arizona
## 9634                         utah
## 9645                 rhode island
## 9660                     michigan
## 9663                       oregon
## 9675                       nevada
## 9678                      florida
## 9686                   california
## 9707                        idaho
## 9708                 rhode island
## 9720                     illinois
## 9724                       nevada
## 9730                     new york
## 9739                       kansas
## 9749                       nevada
## 9759                      florida
## 9771                    minnesota
## 9802                new hampshire
## 9807                   california
## 9818                      florida
## 9822                      florida
## 9823                      florida
## 9869                new hampshire
## 9885                     arkansas
## 9916                   california
## 9935                new hampshire
## 9965                new hampshire
## 9981                      georgia
## 9985                   california
## 9986                      georgia
## 10009                   tennessee
## 10012                   louisiana
## 10027               massachusetts
## 10068               new hampshire
## 10074                  washington
## 10076               new hampshire
## 10092                     arizona
## 10101                   louisiana
## 10124                 connecticut
## 10128                  new mexico
## 10129                     georgia
## 10141                    virginia
## 10142                     florida
## 10163                  new mexico
## 10165                 rhode island
## 10179                       maine
## 10188                     georgia
## 10210                    new york
## 10220               new hampshire
```

```
## 10221                  massachusetts
## 10240                   pennsylvania
## 10246                        georgia
## 10249                         nevada
## 10262                     california
## 10265                     california
## 10278                          maine
## 10288                          maine
## 10319                        montana
## 10328                       michigan
## 10329                           ohio
## 10335                        florida
## 10339                       delaware
## 10366                   rhode island
## 10371                     washington
## 10385                         nevada
## 10387                     california
## 10417                           utah
## 10448                     california
## 10449                        vermont
## 10453                        florida
## 10455                        indiana
## 10460                        montana
## 10464                        florida
## 10471                           iowa
## 10482                        georgia
## 10491                      minnesota
## 10494                       michigan
## 10508                           utah
## 10517                      louisiana
## 10530                        georgia
## 10532                       colorado
## 10535                        vermont
## 10545                           iowa
## 10570                     california
## 10573                     california
## 10576                         oregon
## 10579                       missouri
## 10582                     new jersey
## 10592                     california
## 10595                      tennessee
## 10601                     california
## 10614                        georgia
## 10620                     california
## 10632                      minnesota
## 10641                     california
## 10646                        georgia
## 10655                          maine
## 10658                   rhode island
## 10661                   rhode island
## 10680                   pennsylvania
## 10689                        florida
##  [ reached 'max' / getOption("max.print") -- omitted 54741 rows ]
```

```
stateTX = loan[addr_state== 'TX',]

stateTX
```

```
##            X loan_amnt funded_amnt funded_amnt_inv       term int_rate
## 4        402      1000        1000            1000  36 months    23.40
## 7        829     29050       29050           29050  36 months    10.33
## 9        930     10000       10000           10000  36 months    11.80
## 14      1953      5000        5000            5000  36 months    10.33
## 23      4519      5000        5000            5000  36 months    17.97
## 34      6064     13525       13525           13525  36 months    15.02
## 40      7476      1000        1000             975  36 months     7.02
## 49     10639     32500       32500           32500  60 months    11.80
## 50     10649     28000       28000           28000  60 months    12.98
## 51     10837     30000       30000           30000  36 months    18.94
## 68     13814      5575        5575            5575  36 months    11.80
## 82     16226      7000        7000            7000  36 months    10.33
## 115    21986      7200        7200            7200  36 months    13.56
## 140    26835     30000       30000           30000  36 months    18.94
## 158    29794     36000       36000           35975  60 months    12.98
## 162    30414      3000        3000            3000  36 months    17.97
## 167    31504     13000       13000           12975  60 months    20.89
## 182    32909      1600        1600            1325  36 months    11.80
## 186    33629     32000       32000           32000  60 months    22.35
## 200    35917     12500       12500           12500  36 months    15.02
## 239    41505     11000       11000           11000  36 months    10.72
## 249    43372      7000        7000            7000  36 months    14.47
## 261    45944      1000        1000            1000  36 months    23.40
## 273    47006     15000       15000           15000  36 months     6.46
## 276    47597      2000        2000            2000  36 months    15.02
## 345    56447      3500        3500            3500  36 months    13.56
## 369    59451     17500       17500           17500  36 months    10.72
## 379    60894      7500        7500            7500  36 months     6.11
## 389    62351     10000       10000           10000  36 months    18.94
## 395    62670      7000        7000            7000  36 months     8.81
## 403    63364      6175        6175            6175  36 months    24.37
## 408    63664      1500        1500            1500  36 months     8.19
## 411    63946     38400       38400           38400  36 months    11.80
## 426    65518     30000       30000           30000  36 months    19.92
## 438    67130     10000       10000           10000  36 months    12.98
## 441    67529      6300        6300            6300  36 months    18.94
## 443    67689      7000        7000            7000  36 months    16.14
```

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## 468    70297      3500        3500            3500  36 months    17.97
## 469    70322     26000       26000           26000  60 months    19.92
## 480    71496      5000        5000            5000  36 months    16.91
## 482    71712     10075       10075           10075  60 months    18.94
## 483    72210     12000       12000           12000  36 months    23.40
## 513    75649     10000       10000           10000  36 months    18.94
## 566    82014     11000       11000           11000  60 months    27.27
## 569    82801     11000       11000           11000  60 months    11.55
## 587    85459     10000       10000           10000  36 months    10.08
## 597    86357     10000       10000           10000  36 months     7.84
## 605    87613     12000       12000           12000  36 months    20.89
## 627    89416     18000       18000           18000  36 months    23.40
## 644    91171      2400        2400            2400  36 months     8.46
## 677    94963      2200        2200            2200  36 months    18.94
## 687    95646      7500        7500            7500  36 months    22.35
## 708    97992      2500        2500            2500  36 months    13.56
## 718    98703      9600        9600            9600  36 months    16.91
## 721    98859     10000       10000           10000  36 months    16.14
## 743   101695     32000       32000           32000  60 months    16.91
## 744   101819     20000       20000           20000  36 months    19.92
## 745   101904     17800       17800           17800  60 months    28.72
## 758   102569      3500        3500            3500  36 months    24.37
## 777   103890     20000       20000           20000  36 months    11.55
## 802   106101     36000       36000           36000  60 months    16.91
## 818   107604     10000       10000           10000  36 months    12.73
## 832   109192     10000       10000           10000  60 months    10.47
## 856   111316     12150       12150           12150  36 months     7.84
## 857   111320     40000       40000           40000  60 months    10.47
## 858   111451      2000        2000            2000  36 months    11.55
## 882   113571     20000       20000           20000  36 months     7.21
## 883   113633      3000        3000            3000  36 months     6.11
## 889   114239     30600       30600           30600  60 months    19.92
## 903   115453     20000       20000           20000  36 months    12.73
## 907   116208      6000        6000            6000  36 months    13.56
## 915   116804      9000        9000            9000  36 months    19.92
## 920   117493     10000       10000            9950  60 months    24.37
## 939   119616      1600        1600            1600  36 months    24.37
## 954   120414     26000       26000           26000  60 months    27.27
## 969   122222     12000       12000           12000  60 months    18.94
## 1002  125674     28125       28125           28125  36 months    12.73
## 1015  126685     27925       27925           27925  60 months    28.72
## 1024  127309     25000       25000           25000  36 months    11.55
## 1029  127587      5000        5000            5000  36 months    11.06
## 1031  127781     10000       10000           10000  60 months    16.91
## 1053  129887     30000       30000           30000  60 months    19.92
## 1057  130120     15000       15000           15000  36 months    10.47
## 1080  131574     28000       28000           28000  36 months     7.84
## 1108  133580      8000        8000            8000  36 months    17.97
## 1109  133673     20000       20000           20000  60 months    16.91
## 1110  133681      8500        8500            8500  36 months    11.06
## 1112  133954     16000       16000           16000  36 months    16.91
## 1115  134107      8850        8850            8850  36 months     6.67
## 1121  134652     35000       35000           35000  36 months    12.73
## 1122  134783      5600        5600            5600  36 months     8.46
## 1139  136357      1600        1600            1600  36 months    20.89
## 1163  137816     18000       18000           18000  36 months    14.47
## 1181  139125     25000       25000           25000  60 months    11.55
## 1187  139423     15000       15000           15000  36 months     7.84
## 1194  139832      2500        2500            2500  36 months    23.40
## 1197  139878     25000       25000           25000  36 months     7.84
## 1209  140759     30000       30000           30000  60 months    15.02
## 1224  141657     10000       10000           10000  36 months     7.84
## 1257  143745      8000        8000            8000  36 months    18.94
## 1262  144144     10000       10000           10000  60 months    20.89
## 1275  145403     18000       18000           18000  60 months    12.73
## 1336  149726     32000       32000           32000  60 months    11.55
## 1343  150519     20000       20000           20000  36 months     7.21
## 1346  150810     20000       20000           20000  36 months    15.02
## 1347  150815      9000        9000            9000  36 months    18.94
## 1379  153511     39125       39125           39125  60 months    11.55
## 1418  155724      4000        4000            4000  36 months    16.14
## 1425  155936     30000       30000           30000  36 months    13.56
## 1450  157242      7000        7000            7000  36 months     8.46
## 1451  157270      3000        3000            3000  36 months     8.46
## 1452  157295     30000       30000           30000  36 months     7.21
## 1465  158010     40000       40000           40000  60 months    14.47
## 1468  158318     25000       25000           25000  60 months    16.14
## 1478  159274     25825       25825           25825  60 months    25.34
## 1479  159395     35000       35000           35000  60 months    22.35
## 1500  160470      4000        4000            4000  36 months    12.73
## 1509  160776      2000        2000            2000  36 months    17.97
## 1524  161539     16000       16000           16000  60 months    19.92
## 1533  162064      5500        5500            5500  36 months    11.55
## 1534  162128     26000       26000           26000  36 months     6.67
## 1537  162272      6000        6000            6000  36 months    17.97
## 1548  163417     10000       10000           10000  60 months    23.40
## 1566  164418      8500        8500            8500  36 months    17.97
## 1575  164673      4000        4000            4000  36 months    19.92
## 1620  168342      5000        5000            5000  36 months    22.35
## 1632  169541      1500        1500            1500  36 months    27.27
## 1661  171389     24000       24000           24000  60 months    16.91
## 1666  171856     12000       12000           12000  36 months    16.91
## 1679  172416      1975        1975            1975  36 months    10.47
## 1686  172850     35000       35000           35000  36 months    10.47
## 1688  172932      3600        3600            3600  36 months    18.94
## 1726  175505     10000       10000           10000  36 months    16.91
## 1738  176201     11200       11200           11200  36 months    16.91
## 1744  176649      3000        3000            3000  36 months    10.47
```

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## 1750  176950     10000       10000          10000  36 months     8.46
## 1754  177051      5600        5600           5600  36 months    17.97
## 1762  177347      3000        3000           3000  36 months    12.73
## 1809  180469      4000        4000           4000  36 months    12.73
## 1811  180590     10200       10200          10200  36 months     8.46
## 1819  181096      5000        5000           5000  36 months    13.56
## 1880  184019     24000       24000          24000  60 months    19.92
## 1881  184025     10000       10000          10000  36 months    14.47
## 1894  184807      8400        8400           8400  36 months     7.84
## 1900  185223      5000        5000           5000  36 months     8.46
## 1915  186020     10000       10000          10000  60 months    17.97
## 1919  186180      8500        8500           8500  36 months    16.91
## 1942  187527      1000        1000           1000  36 months    18.94
## 1943  187562     17500       17500          17500  60 months    20.89
## 1958  188545     10000       10000          10000  36 months    13.56
## 1991  190162     15000       15000          15000  60 months    18.94
## 1994  190243      4400        4400           4400  36 months    23.40
## 1997  190455      7000        7000           7000  36 months     7.84
## 2001  190506     24000       24000          24000  60 months    13.56
## 2013  191222     24000       24000          24000  36 months    11.06
## 2015  191287      1400        1400           1400  36 months    16.14
## 2018  191343     25000       25000          25000  36 months     7.84
## 2050  193201      7000        7000           7000  36 months    10.08
## 2074  194766     10000       10000          10000  36 months    20.89
## 2077  194870      7000        7000           7000  36 months    22.35
## 2092  195624     11000       11000          11000  36 months    18.94
## 2161  199372     15000       15000          15000  36 months    19.92
## 2165  199457      4800        4800           4800  36 months    19.92
## 2170  199725      4800        4800           4800  36 months    17.97
## 2171  199806     13000       13000          13000  60 months    17.97
## 2172  199861     14400       14400          14400  60 months    11.55
## 2192  200832     35000       35000          35000  36 months     7.84
## 2194  200866     30000       30000          30000  60 months    15.02
## 2196  200920      1800        1800           1800  36 months    22.35
## 2248  203786      5000        5000           5000  36 months    16.14
## 2253  204285     20000       20000          20000  60 months    16.91
## 2254  204286     10650       10650          10650  60 months    11.55
## 2257  204460     10000       10000           9975  36 months    11.55
## 2263  204987      4000        4000           4000  36 months    24.37
## 2277  205673      8000        8000           8000  36 months     8.46
## 2289  206362      5000        5000           5000  36 months    16.91
## 2303  207000     11000       11000          11000  60 months    16.91
## 2312  207253      4000        4000           4000  36 months    14.47
## 2318  207581     12000       12000          12000  36 months     6.67
## 2320  207657     12000       12000          12000  36 months    10.08
## 2326  207929      7000        7000           7000  36 months     8.46
## 2328  208164      5000        5000           5000  36 months     7.84
## 2341  208756      7000        7000           7000  36 months    20.89
## 2348  209090      7500        7500           7500  36 months    18.94
## 2370  209836      7000        7000           7000  36 months    10.08
## 2376  210159     10000       10000          10000  36 months    22.35
## 2382  210381      8000        8000           7750  36 months    10.47
## 2385  210422      2800        2800           2800  36 months    18.94
## 2406  211320     12000       12000          12000  60 months    24.37
## 2409  211367      4200        4200           4200  36 months    13.56
## 2421  211878     13000       13000          13000  36 months    18.94
## 2456  213480      1500        1500           1500  36 months    13.56
## 2462  213772     10000       10000           9975  36 months    16.91
## 2476  214572     25000       25000          25000  36 months     6.11
## 2481  214719      7550        7550           7300  36 months    11.06
## 2488  215036     15000       15000          15000  60 months    27.27
## 2496  215308      8500        8500           8500  36 months    10.08
## 2520  216909     20000       20000          20000  36 months    18.94
## 2531  217201     15000       15000          15000  60 months     7.84
## 2541  217529     17500       17500          17500  36 months     6.11
## 2544  217696     11000       11000          11000  36 months    22.35
## 2563  218427     16000       16000          16000  36 months     7.84
## 2568  218614     10000       10000          10000  36 months    16.91
## 2580  219206     20000       20000          20000  60 months    16.91
## 2599  220310     13375       13375          13375  36 months    11.06
## 2600  220316     28000       28000          27975  36 months    10.08
## 2602  220413     24000       24000          24000  60 months    19.92
## 2605  220503     11200       11200          11200  36 months    16.91
## 2615  220860      8000        8000           8000  36 months    11.06
## 2620  221009     20000       20000          20000  36 months    10.47
## 2623  221121     12000       12000          12000  60 months    10.08
## 2651  222402     10000       10000          10000  36 months    15.02
## 2655  222521     10000       10000          10000  36 months    17.97
## 2659  222605      7000        7000           7000  36 months    16.14
## 2660  222614     30000       30000          30000  36 months    17.97
## 2663  222910      5200        5200           5200  36 months    13.56
## 2667  223227     20000       20000          20000  60 months    14.47
## 2672  223523      4000        4000           4000  36 months    12.73
## 2677  223774      5000        5000           5000  36 months    12.73
## 2690  224297      5300        5300           5300  36 months    15.02
## 2695  224394      3800        3800           3800  36 months     7.21
## 2702  224629     10000       10000          10000  36 months    13.56
## 2710  224891     20000       20000          20000  60 months    18.94
## 2738  226267     16000       16000          16000  36 months    20.89
## 2742  226572      6000        6000           6000  36 months     8.46
## 2745  226739      7000        7000           7000  36 months    16.91
## 2773  228121      9000        9000           9000  36 months    15.02
## 2787  228551     35000       35000          35000  60 months    14.47
## 2792  228991     15000       15000          15000  36 months     6.83
## 2803  229320      9000        9000           9000  36 months    16.91
## 2813  229826      8800        8800           8800  36 months     6.11
## 2817  230034     20000       20000          20000  36 months    11.55
## 2819  230100     16000       16000          16000  36 months    16.91
```

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## 2832  230490     10000       10000           10000  60 months    16.14
## 2857  231436     10000       10000           10000  36 months    14.47
## 2860  231541      6000        6000            6000  36 months    22.35
## 2865  231775     11200       11200           11200  36 months     8.08
## 2875  232249     25000       25000           25000  60 months    17.97
## 2880  232624      1400        1400            1400  36 months    18.94
## 2894  233156     24000       24000           24000  60 months    30.17
## 2899  233292     10000       10000           10000  60 months    16.14
## 2912  233702      2000        2000            2000  36 months    26.31
## 2927  234607     12500       12500           12500  36 months    12.73
## 2933  234813     36000       36000           36000  36 months     7.21
## 2947  235504     24000       24000           24000  36 months    14.47
## 2951  235547     16000       16000           16000  60 months    16.14
## 2957  235837     15000       15000           15000  60 months    13.56
## 2961  236005     22000       22000           22000  60 months    15.02
## 2968  236138     11000       11000           11000  36 months    16.91
## 2971  236450     29000       29000           29000  36 months    12.73
## 2995  237372     19025       19025           19025  60 months    10.47
## 3032  238548     20000       20000           20000  60 months    27.27
## 3036  238738     24000       24000           24000  36 months     7.21
## 3040  238856     27000       27000           27000  60 months    11.55
## 3053  239646      3000        3000            3000  36 months    18.94
## 3062  240017      4000        4000            4000  36 months    18.94
## 3067  240291     30000       30000           30000  36 months     7.84
## 3074  240816      1000        1000            1000  36 months    17.97
## 3092  241725     26000       26000           26000  60 months    20.89
## 3102  242188      1000        1000            1000  36 months    26.77
## 3119  242770     40000       40000           40000  36 months     6.11
## 3123  243081      5000        5000            5000  36 months    17.97
## 3134  243489     12000       12000           11975  36 months    17.97
## 3141  243779     17000       17000           17000  60 months    22.35
## 3143  243975     20000       20000           20000  36 months    16.14
## 3173  245172      2500        2500            2500  36 months    10.47
## 3178  245390     40000       40000           40000  60 months     7.21
## 3186  245651     10000       10000           10000  36 months    16.46
## 3204  246117      8000        8000            8000  36 months    15.02
## 3210  246205     39900       39900           39900  60 months    10.08
## 3211  246262      3000        3000            3000  36 months    13.56
## 3218  246580      2400        2400            2400  36 months    11.55
## 3230  247007      5000        5000            5000  36 months    23.40
## 3251  247664      4000        4000            4000  36 months     7.84
## 3262  248202     10000       10000           10000  36 months    10.08
## 3269  248362     20000       20000           20000  60 months    14.47
## 3271  248436     29200       29200           29200  60 months    12.73
## 3278  248798     20000       20000           20000  36 months     7.21
## 3282  249030      6500        6500            6500  36 months    11.55
## 3302  249777     10200       10200           10200  36 months    11.55
## 3318  250116      2000        2000            2000  36 months    16.91
## 3323  250478     17175       17175           17175  36 months    14.52
## 3367  252389     15000       15000           15000  36 months    22.35
## 3376  252753     30000       30000           30000  60 months    18.45
## 3392  253134     22225       22225           22225  36 months    11.55
## 3409  253779     35000       35000           35000  60 months    17.47
## 3416  253943     13300       13300           13300  60 months    30.75
## 3436  254504     10000       10000           10000  36 months    10.56
## 3441  254721      5000        5000            5000  36 months    10.47
## 3472  255791     10000       10000           10000  36 months     8.08
## 3485  256323     30000       30000           30000  36 months    23.87
## 3492  256443     10000       10000           10000  36 months    15.49
## 3494  256563     15800       15800           15775  36 months    14.03
## 3501  257003      9000        9000            9000  36 months    14.52
## 3506  257291     10000       10000           10000  36 months    16.46
## 3530  258089     35000       35000           35000  60 months     5.31
## 3565  259338      1000        1000            1000  36 months    20.39
## 3577  259654     18925       18925           18925  36 months    14.52
## 3613  261515      2000        2000            2000  36 months    19.42
## 3617  261673      8000        8000            8000  36 months     9.58
## 3639  263080     40000       40000           40000  36 months    11.05
## 3657  263727     10000       10000           10000  36 months     6.19
## 3668  264162     16000       16000           16000  60 months    19.42
## 3686  264778      3000        3000            3000  36 months     9.58
## 3698  265214     30000       30000           30000  36 months    18.45
## 3704  265348     18000       18000           18000  60 months    18.45
## 3707  265431     20000       20000           20000  36 months    17.47
## 3780  267890     14000       14000           14000  60 months    13.06
## 3790  268290     12000       12000           12000  60 months    12.13
## 3794  268407     20000       20000           20000  60 months    16.46
## 3796  268422      3600        3600            3600  36 months     8.08
## 3822  269480     40000       40000           40000  60 months     9.58
## 3825  269529     23500       23500           23500  36 months    13.06
## 3861  270674     25000       25000           25000  60 months    14.52
## 3887  271555     20000       20000           20000  36 months    14.52
## 3921  273290     24000       24000           24000  60 months    21.85
## 3922  273311      3000        3000            3000  36 months     8.08
## 3926  273389     25000       25000           25000  60 months    18.45
## 3943  273585      7000        7000            7000  36 months    10.56
## 3954  273850     16000       16000           16000  60 months    15.49
## 3964  273983      6000        6000            6000  36 months     6.83
## 3976  274403     15275       15275           15275  36 months     8.08
## 3984  274992     10000       10000           10000  36 months    13.06
## 4006  275572     10000       10000           10000  60 months    17.47
## 4010  275787      6000        6000            6000  36 months     6.83
## 4028  276255      6000        6000            6000  36 months     9.58
## 4043  276769     40000       40000           40000  60 months    16.46
## 4045  276844      7500        7500            7500  36 months     8.08
## 4053  277149      3000        3000            3000  36 months    14.03
## 4055  277216     20000       20000           20000  60 months    17.47
## 4057  277258      9600        9600            9600  36 months    17.47
```

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## 4098  279082     26675       26675           26675  60 months    14.52
## 4100  279244      6000        6000            6000  36 months    19.42
## 4113  279508     11500       11500           11500  36 months    10.56
## 4119  279798     13000       13000           13000  60 months    11.05
## 4136  280354      6000        6000            6000  36 months    16.46
## 4138  280440     14000       14000           14000  36 months    18.45
## 4150  280928     16000       16000           16000  36 months    14.52
## 4169  281417     25000       25000           25000  36 months    12.13
## 4173  281618     19000       19000           19000  60 months    17.47
## 4193  282110      8000        8000            8000  36 months     9.58
## 4198  282325     20000       20000           20000  36 months    11.05
## 4203  282480     15000       15000           15000  60 months    13.06
## 4211  282883     15000       15000           14750  36 months    12.13
## 4220  282990      3000        3000            3000  36 months    18.45
## 4229  283273     20000       20000           20000  36 months    21.85
## 4247  283636      2400        2400            2400  36 months    15.49
## 4273  284118      7000        7000            7000  36 months     8.08
## 4274  284186     35000       35000           35000  60 months    21.85
## 4284  284523     16000       16000           16000  60 months    21.85
## 4301  284829     10000       10000           10000  36 months    20.39
## 4325  285475      7500        7500            7500  36 months    13.06
## 4349  286281      5275        5275            5275  36 months     6.83
## 4350  286356     30000       30000           30000  60 months    11.05
## 4370  286924      6000        6000            6000  36 months    13.06
## 4372  286944     14000       14000           14000  60 months    14.03
## 4388  287500     10900       10900           10900  60 months    19.42
## 4390  287548     16000       16000           16000  60 months    17.47
## 4400  288006      5500        5500            5500  36 months     6.83
## 4401  288036     20000       20000           20000  36 months     9.58
## 4402  288092     30000       30000           30000  60 months    28.72
## 4418  288460     20000       20000           20000  60 months    14.52
## 4421  288590      6000        6000            6000  36 months     8.08
## 4431  288797     10000       10000           10000  36 months    15.49
## 4440  289319      5500        5500            5500  36 months     8.08
## 4458  289970     10000       10000           10000  36 months    15.49
## 4461  290118     10000       10000           10000  36 months    16.46
## 4469  290407      9500        9500            9500  36 months     7.46
## 4472  290480      3500        3500            3500  36 months    10.56
## 4479  290741     30000       30000           30000  36 months     9.58
## 4483  290796      5000        5000            5000  36 months    10.07
## 4503  291814     12000       12000           12000  36 months    12.13
## 4519  292283     20000       20000           20000  60 months    30.65
## 4522  292317     10000       10000           10000  36 months    13.06
## 4525  292488     15000       15000           15000  60 months    28.72
## 4528  292540     20000       20000           20000  36 months    13.06
## 4538  292847     20000       20000           20000  60 months    15.49
## 4548  293220     35000       35000           35000  60 months    18.45
## 4554  293435     12000       12000           12000  60 months    15.49
## 4557  293486     16000       16000           16000  36 months    14.52
## 4569  293849      1000        1000            1000  36 months    23.87
## 4576  294125     10000       10000           10000  60 months    14.52
## 4590  294581      4000        4000            4000  36 months     8.08
## 4594  294627     20000       20000           20000  36 months    14.52
## 4604  294952     10000       10000           10000  36 months    14.03
## 4622  295949     14975       14975           14975  60 months    30.79
## 4626  296022     10000       10000           10000  36 months    21.85
## 4629  296175     10000       10000           10000  36 months    14.52
## 4633  296297      4000        4000            4000  36 months    16.46
## 4646  296774     25000       25000           25000  36 months    16.46
## 4650  296837     18000       18000           18000  60 months    11.05
## 4660  297235     24000       24000           24000  36 months     7.46
## 4673  297540     35000       35000           35000  60 months    18.45
## 4684  297728     10000       10000           10000  60 months    17.47
## 4699  297982      3875        3875            3875  36 months    20.39
## 4720  298764      3025        3025            3025  36 months     6.83
## 4724  298926     18000       18000           18000  60 months    15.49
## 4728  298965      1300        1300            1300  36 months    18.45
## 4751  299736      3500        3500            3500  36 months    10.56
## 4778  300388      6500        6500            6500  36 months    18.45
## 4812  301453     35000       35000           34975  36 months     6.83
## 4820  301835     16000       16000           16000  60 months    28.72
## 4835  302244     20000       20000           20000  60 months    24.84
## 4843  302590     12000       12000           12000  36 months     7.46
## 4876  303199      5000        5000            5000  36 months    14.03
## 4882  303397     25000       25000           25000  60 months     9.58
## 4895  303867     35000       35000           35000  36 months    16.46
## 4907  304428      4800        4800            4800  36 months    14.52
## 4912  304477     10000       10000           10000  36 months    12.13
## 4941  305192     30000       30000           30000  36 months     8.08
## 4952  305371     20000       20000           20000  36 months    15.49
## 4954  305401     15000       15000           15000  36 months    10.56
## 4956  305431      4000        4000            4000  36 months    14.03
## 4957  305440     24000       24000           24000  36 months    12.13
## 4959  305524     18000       18000           18000  36 months    10.56
## 4960  305525      2000        2000            2000  36 months    12.13
## 4987  306105      9000        9000            9000  36 months    10.56
## 5022  307120     12000       12000           12000  60 months    26.77
## 5027  307357     20000       20000           20000  36 months    16.46
## 5029  307430      7200        7200            7200  36 months    10.56
## 5053  308095     18200       18200           18200  60 months    13.06
## 5054  308130     10000       10000           10000  36 months    10.07
## 5055  308164      3025        3025            3025  36 months     6.19
## 5066  308360     40000       40000           40000  60 months    11.05
## 5069  308445     10000       10000           10000  60 months    13.06
## 5077  308657     14000       14000           14000  60 months    25.81
## 5091  309131     15000       15000           15000  36 months    14.03
## 5110  309714      4000        4000            4000  36 months    17.47
## 5114  309845     10000       10000           10000  36 months    11.05
```

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## 5161  311184     40000       40000           40000  60 months    16.46
## 5215  312662      1800        1800            1800  36 months     6.19
## 5216  312680     25000       25000           25000  60 months    11.05
## 5219  312861     20000       20000           20000  36 months    13.06
## 5251  313508     16000       16000           16000  60 months    17.47
## 5254  313604     35000       35000           35000  60 months    18.45
## 5258  313693     11200       11200           11200  60 months    15.49
## 5269  314123     40000       40000           40000  60 months     9.58
## 5277  314354      3000        3000            3000  36 months    17.47
## 5285  314468     25000       25000           25000  36 months    12.61
## 5291  314694     35000       35000           35000  36 months    16.46
## 5292  314730     10000       10000           10000  36 months    15.49
## 5340  316047      9500        9500            9500  36 months     7.46
## 5341  316065     25000       25000           25000  36 months    16.01
## 5347  316309      4550        4550            4550  36 months    16.46
## 5373  316973      7200        7200            7200  36 months     6.19
## 5382  317277     40000       40000           40000  36 months     5.31
## 5394  317830      9000        9000            9000  36 months    11.05
## 5432  318854      3000        3000            3000  36 months     9.58
## 5443  319060     15000       15000           14975  36 months     6.83
## 5445  319104     16000       16000           16000  36 months    16.46
## 5454  319323     17500       17500           17500  36 months     9.58
## 5464  319732     17600       17600           17600  36 months     7.34
## 5479  320133     10000       10000           10000  36 months    10.07
## 5503  320564     28000       28000           28000  60 months    12.61
## 5514  320910     10000       10000           10000  36 months    11.98
## 5517  321009      4000        4000            4000  36 months    10.56
## 5545  321796     25000       25000           25000  36 months     5.31
## 5549  321863      1500        1500            1500  36 months    20.39
## 5558  322063      5600        5600            5600  36 months    16.46
## 5569  322279     10400       10400           10400  36 months     6.19
## 5590  322814      6400        6400            6400  36 months    14.52
## 5592  322865      5000        5000            5000  36 months    21.85
## 5608  323176      5000        5000            5000  36 months    18.45
## 5609  323188     20000       20000           20000  36 months    11.05
## 5611  323211      3000        3000            3000  36 months    15.04
## 5624  323609      3000        3000            3000  36 months    10.07
## 5651  324552      2200        2200            2200  36 months     9.43
## 5673  325062     22000       22000           22000  36 months     6.83
## 5692  325561      8300        8300            8300  36 months    11.05
## 5694  325674      3000        3000            3000  36 months     9.58
## 5716  326301      8000        8000            8000  36 months     7.46
## 5736  326730     18000       18000           18000  60 months    17.47
## 5745  327073      4400        4400            4400  36 months    13.06
## 5777  327885     14000       14000           14000  60 months    19.42
## 5789  328296     15550       15550           15550  36 months    12.13
## 5822  329072     20000       20000           20000  60 months    14.03
## 5831  329407     10000       10000           10000  60 months    25.81
## 5843  329621      4800        4800            4800  36 months     6.83
## 5863  330152     20000       20000           20000  36 months     6.07
## 5865  330184     21000       21000           21000  60 months     9.43
## 5868  330260      3200        3200            3200  36 months     7.46
## 5870  330270      2400        2400            2400  36 months     6.00
## 5882  330723     10000       10000           10000  36 months     7.96
## 5883  330783      5000        5000            5000  36 months     6.71
## 5888  330944      6000        6000            6000  36 months    18.45
## 5899  331141      6200        6200            6200  36 months    20.39
## 5902  331221     21000       21000           21000  60 months    15.04
## 5903  331233     30000       30000           30000  60 months    21.85
## 5904  331326     10800       10800           10800  36 months    14.07
## 5906  331481      7000        7000            7000  36 months     6.71
## 5907  331543     15000       15000           15000  36 months     6.71
## 5932  332198      8000        8000            8000  36 months    21.85
## 5933  332206      5000        5000            5000  36 months    10.90
## 5940  332449     19200       19200           19200  60 months    19.42
## 5942  332474     17500       17500           17500  60 months    14.07
## 5946  332538     15000       15000           15000  36 months    19.42
## 5955  332683     40000       40000           40000  36 months     7.96
## 5967  332995      5500        5500            5500  36 months     7.96
## 5973  333191      1200        1200            1200  36 months    22.90
## 5989  333390     10000       10000           10000  36 months    21.85
## 5999  333741      5000        5000            5000  36 months    20.39
## 6004  333822     15000       15000           15000  36 months    12.61
## 6024  334286     20000       20000           20000  36 months    14.07
## 6037  334516      2000        2000            2000  36 months    10.90
## 6038  334551      1500        1500            1500  36 months     9.43
## 6041  334603     13000       13000           13000  60 months    20.39
## 6047  334738      3600        3600            3600  36 months     7.34
## 6048  334780      5000        5000            5000  36 months    10.90
## 6052  334826      8000        8000            8000  36 months    10.90
## 6087  335913     21000       21000           21000  36 months     9.92
## 6102  336226      1800        1800            1800  36 months    18.45
## 6132  337186     15000       15000           15000  36 months     7.34
## 6139  337373     10000       10000           10000  36 months    12.61
## 6147  337507     28975       28975           28975  36 months    18.45
## 6154  337666      2000        2000            2000  36 months     6.71
## 6155  337709     30000       30000           30000  60 months    26.77
## 6156  337719     15000       15000           15000  60 months    13.58
## 6181  338305      1500        1500            1500  36 months    17.47
## 6186  338506     15000       15000           15000  60 months    21.85
## 6214  339236      4800        4800            4800  36 months    18.45
## 6217  339303     12000       12000           12000  36 months     7.96
## 6228  339611     14000       14000           14000  36 months    14.07
## 6232  339742     22000       22000           22000  60 months    14.07
## 6243  340217     30000       30000           30000  36 months    20.39
## 6248  340293     26000       26000           26000  36 months     5.31
## 6270  340814      4800        4800            4800  36 months    17.47
## 6274  340883     10000       10000           10000  60 months    10.90
```

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## 6284  341204     10000       10000           10000  60 months    18.45
## 6309  341775     26400       26400           26400  60 months    14.07
## 6310  341862     18000       18000           18000  36 months    11.98
## 6317  341983      3000        3000            3000  36 months    12.61
## 6361  343268      2500        2500            2500  36 months     9.92
## 6366  343532      1500        1500            1500  36 months    17.47
## 6370  343576      2000        2000            2000  36 months    21.85
## 6393  344040     25000       25000           25000  60 months    11.98
## 6429  345040      6000        6000            6000  36 months     7.34
## 6448  345553     12000       12000           11975  36 months    16.01
## 6469  346085      1600        1600            1600  36 months    19.42
## 6481  346404     16000       16000           16000  60 months    18.45
## 6485  346605     16000       16000           16000  36 months     9.92
## 6492  346736      3275        3275            3275  36 months    12.61
## 6493  346747     25200       25200           24925  36 months     9.43
## 6499  346965     30000       30000           30000  60 months    26.77
## 6500  346975     11000       11000           11000  36 months     6.71
## 6510  347217      5000        5000            5000  36 months    16.01
## 6522  347435     17000       17000           17000  60 months     9.43
## 6528  347617     35000       35000           35000  60 months    15.04
## 6536  347888      3500        3500            3500  36 months    25.81
## 6550  348213     10000       10000           10000  36 months    10.90
## 6555  348432      3000        3000            3000  36 months     7.96
## 6559  348575     24000       24000           24000  36 months    19.42
## 6591  349423     12000       12000           12000  36 months    16.01
## 6641  350989     30000       30000           30000  60 months    14.07
## 6644  351077     21075       21075           20825  36 months     9.92
## 6646  351102     16000       16000           16000  36 months    10.90
## 6648  351120     16000       16000           16000  36 months    12.61
## 6682  352037      5000        5000            5000  36 months     9.92
## 6699  352311      6000        6000            6000  36 months    17.47
## 6700  352313      8000        8000            8000  36 months     9.43
## 6704  352506     10000       10000           10000  36 months    14.07
## 6716  352762     10000       10000           10000  60 months    26.77
## 6719  352807     21000       21000           21000  60 months    19.42
## 6724  352894      4000        4000            4000  36 months     7.34
## 6737  353138     10000       10000           10000  60 months    15.04
## 6795  354588      6000        6000            6000  36 months    15.04
## 6813  355009     10000       10000           10000  36 months    12.61
## 6826  355369     20000       20000           20000  60 months    21.85
## 6842  355784      5000        5000            5000  36 months    13.58
## 6852  356063     10000       10000           10000  36 months    11.98
## 6856  356171      6600        6600            6600  36 months    17.47
## 6866  356562     32000       32000           32000  36 months    16.01
## 6875  356761     15000       15000           15000  36 months    10.41
## 6901  357300      6500        6500            6500  36 months    13.58
## 6944  358307     40000       40000           40000  36 months     6.07
## 6952  358498      6000        6000            6000  36 months    16.01
## 6968  358836     10500       10500           10500  36 months     7.34
## 6980  359139      9000        9000            9000  36 months    19.42
## 6991  359364     11200       11200           11200  60 months    21.85
## 6992  359371     12000       12000           12000  36 months    11.98
## 7041  360269     30000       30000           30000  36 months    11.98
## 7046  360369      5500        5500            5500  36 months     6.71
## 7055  360499     27000       27000           27000  60 months    12.61
## 7070  360878     20000       20000           20000  36 months     6.07
## 7078  360982     10000       10000           10000  36 months     9.92
## 7083  361077     12000       12000           12000  36 months    13.58
## 7092  361299     12300       12300           12300  60 months    11.98
## 7093  361352     10000       10000           10000  60 months    16.01
## 7113  361901      6400        6400            6400  36 months    19.42
## 7128  362179     10000       10000           10000  36 months     9.43
## 7140  362557      6000        6000            6000  36 months    20.39
## 7154  362863     40000       40000           40000  36 months     6.07
## 7157  362993     10000       10000           10000  36 months     9.43
## 7170  363346      8650        8650            8650  36 months    19.42
## 7175  363424      4000        4000            4000  36 months    14.07
## 7181  363610      5000        5000            5000  36 months    22.90
## 7194  363996     10000       10000           10000  36 months    10.90
## 7200  364135      8000        8000            8000  36 months    18.45
## 7205  364320     10000       10000           10000  36 months    18.45
## 7209  364393     20000       20000           20000  36 months     6.07
## 7210  364396      9000        9000            9000  36 months    15.04
## 7211  364397     29275       29275           29275  60 months    11.98
## 7212  364427     20000       20000           20000  36 months    12.61
## 7246  365331     12000       12000           12000  36 months    12.61
## 7248  365365      2000        2000            2000  36 months    15.04
## 7260  365544     10000       10000           10000  60 months    12.61
## 7264  365612      8000        8000            8000  36 months    11.98
## 7277  366028      3800        3800            3800  36 months    20.39
## 7283  366113     12000       12000           12000  36 months    10.41
## 7286  366155     10000       10000           10000  36 months    16.01
## 7300  366559      7000        7000            7000  36 months    11.98
## 7332  367249      5000        5000            5000  36 months     7.34
## 7348  367586      2000        2000            2000  36 months    16.01
## 7350  367665      5000        5000            5000  36 months     7.34
## 7356  367802      3500        3500            3500  36 months    21.85
## 7367  368024      2875        2875            2875  36 months    22.90
## 7368  368080      3000        3000            3000  36 months     6.07
## 7369  368091      7000        7000            7000  36 months    15.04
## 7370  368092      1600        1600            1600  36 months     9.92
## 7376  368134     11000       11000           11000  36 months    10.90
## 7379  368279      9000        9000            9000  36 months    11.98
## 7388  368427      8000        8000            8000  36 months    16.01
## 7395  368547      5000        5000            5000  36 months    17.47
## 7398  368638     10000       10000           10000  60 months    26.77
## 7457  369861     16000       16000           16000  60 months    29.69
## 7471  370202     35000       35000           35000  60 months    19.42
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## 7482  370405      6000        6000            6000  36 months     7.96
## 7507  370901      7000        7000            7000  36 months    11.98
## 7514  371016      6000        6000            6000  36 months    16.01
## 7519  371180     10000       10000           10000  60 months    26.77
## 7525  371299      6500        6500            6500  36 months    10.90
## 7527  371324     10000       10000           10000  36 months    13.58
## 7537  371477      5000        5000            5000  36 months     9.92
## 7542  371510     25000       25000           25000  36 months    11.98
## 7561  372005      5000        5000            5000  36 months    20.39
## 7569  372252     35000       35000           35000  60 months    12.61
## 7576  372498     11000       11000           11000  60 months    12.61
## 7639  373601     20000       20000           20000  36 months     9.43
## 7640  373610     30000       30000           30000  36 months    15.04
## 7650  373828     12000       12000           12000  36 months    15.04
## 7652  373897     10000       10000           10000  60 months     7.34
## 7672  374392      1000        1000            1000  36 months     5.31
## 7673  374405     15000       15000           15000  36 months    23.87
## 7674  374409     14625       14625           14625  36 months     7.34
## 7681  374676      4000        4000            4000  36 months    14.07
## 7683  374712      5500        5500            5500  36 months    14.07
## 7685  374746     27500       27500           27500  36 months    21.85
## 7702  375147     10000       10000           10000  36 months    16.01
## 7716  375371      7800        7800            7800  36 months    14.07
## 7717  375411     10000       10000           10000  36 months     7.34
## 7721  375474      2000        2000            2000  36 months    14.07
## 7726  375559     25000       25000           25000  60 months    20.39
## 7760  376529     20000       20000           20000  60 months    23.87
## 7766  376713     10000       10000           10000  36 months    13.58
## 7793  377229     15000       15000           15000  36 months    10.90
## 7802  377495      8000        8000            8000  36 months     9.43
## 7826  377899     10000       10000           10000  36 months     9.92
## 7846  378412     10000       10000           10000  60 months     9.43
## 7866  378837     30000       30000           30000  36 months    18.45
## 7883  379207     10000       10000           10000  36 months    10.41
## 7885  379224     13000       13000           13000  36 months     5.31
## 7911  380038     15000       15000           15000  36 months     6.71
## 7917  380235     16000       16000           16000  60 months    21.85
## 7919  380244      4000        4000            4000  36 months    15.04
## 7922  380350      3000        3000            3000  36 months     7.96
## 7928  380472     28100       28100           28100  36 months     6.07
## 7939  380903      3600        3600            3600  36 months    12.61
## 7941  381020     10000       10000           10000  36 months     5.31
## 7947  381091     20000       20000           20000  60 months    18.45
## 7955  381248      8000        8000            8000  36 months    12.61
## 7968  381520      8800        8800            8800  36 months     7.34
## 7969  381532     24000       24000           24000  36 months     9.92
## 7974  381690     12000       12000           12000  36 months     7.34
## 7982  381802     24000       24000           24000  60 months    11.98
## 7995  382093     10800       10800           10750  36 months    17.47
## 8000  382176      6000        6000            6000  36 months    19.42
## 8005  382284     20000       20000           20000  36 months    19.42
## 8007  382343     13200       13200           13200  60 months    16.01
## 8019  382784      8000        8000            8000  36 months     9.43
## 8021  382870     10000       10000           10000  36 months     7.96
## 8039  383142     24000       24000           24000  60 months    24.84
## 8055  383469     10200       10200           10200  36 months    19.42
## 8061  383573     21000       21000           21000  36 months     9.92
## 8066  383641      8000        8000            8000  36 months     7.34
## 8093  384229      8000        8000            8000  36 months    11.98
## 8095  384284     30000       30000           30000  36 months     6.71
## 8100  384417     24000       24000           24000  60 months    19.42
## 8142  385608      3000        3000            3000  36 months    21.85
## 8149  385696      6000        6000            6000  36 months     9.92
## 8152  385770      7000        7000            7000  36 months    11.98
## 8156  385821      5000        5000            5000  36 months     7.96
## 8165  386003     15000       15000           15000  60 months    13.58
## 8201  386629     12000       12000           12000  36 months    13.58
## 8203  386680      6000        6000            6000  36 months    14.07
## 8209  386776      1500        1500            1500  36 months    16.01
## 8224  387258     35000       35000           34950  36 months    15.04
## 8246  387899     38000       38000           38000  60 months    10.41
## 8256  388057      2500        2500            2500  36 months    10.90
## 8267  388341      1500        1500            1500  36 months    20.39
## 8272  388410      6000        6000            6000  36 months    11.98
## 8284  388622     13000       13000           13000  36 months    16.01
## 8295  388760     14000       14000           14000  36 months     9.92
## 8316  389141     21000       21000           21000  60 months    13.58
## 8336  389427      7500        7500            7500  36 months     7.96
## 8355  389839      6400        6400            6400  36 months     9.92
## 8360  389920     28000       28000           28000  60 months    15.04
## 8364  390005     13500       13500           13500  36 months     7.96
## 8379  390311     15500       15500           15500  36 months    12.61
## 8391  390542     14400       14400           14400  36 months    19.42
## 8392  390572     20000       20000           20000  36 months    19.42
## 8396  390667      6000        6000            6000  36 months     7.96
## 8437  391536     17000       17000           17000  36 months    11.98
## 8459  392073     10400       10400           10400  36 months    15.04
## 8462  392117      9300        9300            9300  36 months    10.41
## 8477  392362      5200        5200            5200  36 months    18.45
## 8482  392417     26500       26500           26500  60 months    21.85
## 8490  392541     10850       10850           10850  36 months    11.98
## 8491  392545      4000        4000            4000  36 months    16.01
## 8496  392709     25000       25000           25000  36 months    22.90
## 8498  392734     12000       12000           12000  36 months     7.96
## 8516  393135     32000       32000           32000  60 months     5.31
## 8518  393149      5000        5000            5000  36 months    13.58
## 8522  393217      5000        5000            5000  36 months     5.31
## 8526  393270     40000       40000           40000  36 months    10.90
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## 8529  393303      8000        8000            8000  36 months    10.41
## 8537  393494      6000        6000            6000  36 months     9.92
## 8552  393919      6000        6000            6000  36 months    17.47
## 8585  394486      6000        6000            6000  36 months     6.71
## 8602  394786     25500       25500           25500  60 months    24.84
## 8627  395253      6000        6000            6000  36 months     9.92
## 8647  395657      5800        5800            5800  36 months     9.43
## 8674  396161     11000       11000           11000  36 months     7.96
## 8709  396855     35000       35000           35000  60 months    16.01
## 8711  396896      4100        4100            4100  36 months    17.47
## 8712  396920     28000       28000           28000  36 months    17.47
## 8721  397039      6500        6500            6500  36 months    13.58
## 8735  397399     16000       16000           16000  36 months    19.42
## 8767  397891     10000       10000           10000  36 months    10.41
## 8783  398310     20000       20000           20000  60 months    19.42
## 8795  398611     12000       12000           12000  36 months     9.92
## 8804  398767     20000       20000           20000  36 months    10.90
## 8824  399233      6000        6000            6000  36 months     9.92
## 8835  399469      7000        7000            7000  36 months     9.92
## 8862  400075     12000       12000           12000  60 months    12.61
## 8864  400079     35000       35000           35000  60 months    17.47
## 8890  400655     20000       20000           20000  60 months    14.07
## 8895  400850     16000       16000           16000  60 months    19.42
## 8906  401115     40000       40000           40000  36 months     6.71
## 8944  401921     15000       15000           15000  36 months    14.07
## 8946  401963     25825       25825           25825  36 months    19.42
## 8953  402066     15000       15000           15000  60 months    20.39
## 8963  402414     27500       27500           27475  36 months    18.45
## 8966  402581     12000       12000           12000  36 months     6.71
## 8977  402924     40000       40000           40000  36 months     6.07
## 9042  404079     15350       15350           15350  36 months    14.07
## 9047  404253      9600        9600            9600  36 months    16.01
## 9048  404264     10000       10000           10000  36 months     9.43
## 9056  404356     19000       19000           19000  60 months    17.47
## 9057  404365      5450        5450            5450  36 months     7.34
## 9058  404411     40000       40000           40000  60 months    11.98
## 9083  404786      6000        6000            6000  36 months     9.92
## 9091  404966     25000       25000           25000  36 months    16.01
## 9096  405015      6000        6000            6000  36 months     6.71
## 9098  405050     10200       10200            9925  36 months    10.41
## 9101  405095     18000       18000           18000  60 months    21.85
## 9103  405230      5000        5000            5000  36 months    13.58
## 9140  405957      7000        7000            7000  36 months    12.61
## 9154  406404     25000       25000           25000  60 months    15.04
## 9160  406477     20000       20000           19975  36 months    14.07
## 9163  406539     12000       12000           12000  60 months     7.34
## 9202  407513     10000       10000           10000  36 months    10.41
## 9240  407953      4000        4000            4000  36 months    10.41
## 9243  408061     25000       25000           25000  60 months    15.04
## 9245  408064      5000        5000            5000  36 months    12.61
## 9254  408240     12000       12000           12000  36 months    15.04
## 9286  408858      6000        6000            6000  36 months    16.01
## 9294  409012     12000       12000           12000  60 months    21.85
## 9321  409540     20000       20000           20000  60 months    10.90
## 9336  409939      2150        2150            2150  36 months    11.98
## 9380  410848     35000       35000           35000  36 months    10.90
## 9383  410911     14000       14000           14000  36 months    20.39
## 9388  410955      6000        6000            6000  36 months    21.85
## 9413  411445     10000       10000           10000  36 months     9.43
## 9431  411810      7000        7000            7000  36 months     9.43
## 9432  411820      5000        5000            5000  36 months    15.04
## 9444  412003      5000        5000            5000  36 months    21.85
## 9459  412452     25000       25000           25000  36 months    11.98
## 9464  412554     40000       40000           40000  60 months    16.01
## 9474  412844     10000       10000           10000  36 months     7.96
## 9481  413095     35000       35000           35000  60 months    17.47
## 9497  413342     21000       21000           21000  36 months    11.98
## 9499  413415     20000       20000           20000  60 months    12.61
## 9503  413468      7400        7400            7400  36 months     9.92
## 9506  413521     30000       30000           30000  36 months    20.39
## 9509  413535     40000       40000           40000  60 months    11.98
## 9522  413793     15000       15000           15000  36 months     7.34
## 9546  414294     40000       40000           40000  36 months     9.43
## 9559  414570     10000       10000           10000  36 months    14.07
## 9573  414844     12000       12000           12000  36 months    15.04
## 9610  415580     25000       25000           25000  60 months    10.90
## 9614  415708     10000       10000            9750  36 months    10.41
## 9627  415958      6000        6000            6000  36 months     9.44
## 9628  415995      6000        6000            6000  36 months    24.84
## 9629  416039     20000       20000           20000  60 months    19.42
## 9652  416363     13000       13000           13000  36 months    21.85
## 9677  416758     11000       11000           11000  60 months    28.72
## 9681  416827      3025        3025            3025  36 months     7.96
## 9690  417108     40000       40000           40000  36 months     9.43
## 9697  417205     15000       15000           15000  60 months    12.61
## 9701  417291     12000       12000           12000  36 months    18.45
## 9705  417323      6400        6400            6400  36 months    14.07
## 9714  417503     22400       22400           22400  60 months    11.98
## 9718  417633     30000       30000           30000  60 months     9.43
## 9722  417741      4500        4500            4500  36 months    20.39
## 9748  418373     20000       20000           20000  36 months    10.90
## 9751  418406     10700       10700           10700  36 months    23.87
## 9753  418440     10000       10000           10000  36 months     9.92
## 9773  418920      3000        3000            3000  36 months     7.96
## 9783  419274     20000       20000           20000  60 months    17.47
## 9786  419379      5000        5000            5000  36 months     6.07
## 9796  419621     30000       30000           30000  36 months    21.85
## 9811  420023      7600        7600            7600  36 months     7.96
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## 9816  420069     22000       22000           22000  36 months     9.43
## 9817  420080     16000       16000           16000  36 months    21.85
## 9820  420189     25000       25000           25000  60 months     7.34
## 9834  420419      6000        6000            6000  36 months     6.71
## 9843  420614      4800        4800            4800  36 months     6.71
## 9872  421155     16000       16000           16000  36 months     5.31
## 9882  421281     10000       10000           10000  36 months     6.71
## 9898  421514     11500       11500           11500  36 months     7.96
## 9904  421590     30000       30000           30000  36 months    18.45
## 9924  421980      4000        4000            4000  36 months    18.45
## 9943  422486     40000       40000           40000  60 months    11.99
## 9945  422537     16000       16000           16000  60 months    24.84
## 9983  423431      6000        6000            6000  36 months    18.45
## 9988  423522     20000       20000           20000  36 months    10.90
## 10024 424088     30000       30000           30000  60 months    26.77
## 10033 424294      7500        7500            7500  36 months    16.01
## 10058 424781      4000        4000            4000  36 months    17.47
## 10062 424908      3600        3600            3600  36 months    15.04
## 10078 425196      6000        6000            6000  36 months     7.96
## 10088 425413     10000       10000           10000  36 months     5.32
## 10096 425532      1000        1000            1000  36 months    16.01
## 10110 425767     20000       20000           20000  36 months    21.85
## 10166 427146      5700        5700            5700  36 months    10.41
## 10167 427164     22750       22750           22750  60 months    13.58
## 10192 427713     10000       10000           10000  60 months    20.00
## 10195 427802      5000        5000            5000  36 months    12.61
##       installment grade sub_grade                                emp_title
## 4           38.92     E        E1                            HR Director
## 7          941.87     B        B1                     Executive Casino Host
## 9          331.19     B        B4                  Director of Maintenance
## 14         162.12     B        B1                           Police Officer
## 23         180.69     D        D1                                Salesman
## 34         468.99     C        C3                                 Manager
## 40          30.89     A        A2                      Vice President, CFOO
## 49         719.67     B        B4                           Vice President
## 50         636.80     B        B5             District Sales Representative
## 51        1098.78     D        D2
## 68         184.64     B        B4
## 82         226.96     B        B1               Imaging Services assistant
## 115        244.55     C        C1                              Technician
## 140       1098.78     D        D2                               Supervisor
## 158        818.75     B        B5                                Attorney
## 162        108.42     D        D1                       Pharmacy Manager
## 167        350.89     D        D4                    Director of Operations
## 182         53.00     B        B4                     financial coordinator
## 186        890.19     D        D5
## 200        433.44     C        C3                       Dental Hygienist
## 239        358.67     B        B2                           Creative pro
## 249        240.85     C        C2                     compliance specialist
## 261         38.92     E        E1                              Route Drive
## 273        459.47     A        A1                Enterprise Account Manager
## 276         69.36     C        C3          Sr. Project Controls specialist
## 345        118.88     C        C1                       Dispatch Supervisor
## 369        570.61     B        B2                      Clinical coordinator
## 379        228.54     A        A1                                        Rn
## 389        366.26     D        D2                        Compliance Analyst
## 395        221.98     A        A5                             Charge Nurse
## 403        243.47     E        E2                                tent lead
## 408         47.14     A        A4
## 411       1271.77     B        B4                           Police Officer
## 426       1113.69     D        D3                         Computer Engineer
## 438        336.85     B        B5                                   Teacher
## 441        230.75     D        D2                                    Driver
## 443        246.59     C        C4                                  Designer
## 468        126.49     D        D1                             Electrician
## 469        687.69     D        D3                      Compensation Analyst
## 480        178.04     C        C5                               Court clerk
## 482        261.02     D        D2                                 Orthotist
## 483        467.03     E        E1                         Operations Analyst
## 513        366.26     D        D2                                   Doorman
## 566        337.67     E        E5                   Mental Health Associate
## 569        242.20     B        B4                                   Teacher
## 587        323.05     B        B1                      investment executive
## 597        312.63     A        A4                               Firefighter
## 605        451.43     D        D4                          fork lift driver
## 627        700.54     E        E1             Director of Business Logistics
## 644         75.72     A        A5                                Inspector
## 677         80.58     D        D2                                busdriver
## 687        287.79     D        D5             Maintenance equipment operator
## 708         84.92     C        C1                            911 Dispatcher
## 718        341.84     C        C5                   Senior Accounts Payable
## 721        352.27     C        C4                                 Secretary
## 743        793.74     C        C5                       Operations Manager
## 744        742.46     D        D3
## 745        561.98     F        F1                               Fluid tech
## 758        138.00     E        E2                      Network Administrator
## 777        660.00     B        B4                          Registered Nurse
## 802        892.96     C        C5 Director of Treasury and Shareholder Ser
## 818        335.65     B        B5                           Police Officer
## 832        214.80     B        B2                              underwriter
## 856        379.85     A        A4                                  Officer
## 857        859.17     B        B2                                President
## 858         66.00     B        B4                           Police Officer
## 882        619.47     A        A3
## 883         91.42     A        A1                      Postal letter carrier
## 889        809.36     D        D3                               Boom operator
## 903        671.29     B        B5                      Senior Sale Executive
## 907        203.79     C        C1                           Property manager
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## 915        334.11     D        D3                                Nurse
## 920        289.84     E        E2                           Data Analyst
## 939         63.09     E        E2                     CLN Registrarion Reo
## 954        798.12     E        E5                           News Anchor
## 969        310.90     D        D2                        registered nurse
## 1002       943.99     B        B5                      Corrections Officer
## 1015       881.64     F        F1                       School bus driver
## 1024       825.00     B        B4                        Managing Director
## 1029       163.84     B        B3                                      Cna
## 1031       248.05     C        C5
## 1053       793.49     D        D3
## 1057       487.33     B        B2                           Remote Coder
## 1080       875.36     A        A4                   Operations Technincain
## 1108       289.10     D        D1                       Managing Director
## 1109       496.09     C        C5
## 1110       278.53     B        B3                                     RDH
## 1112       569.73     C        C5                      Operations Manager
## 1115       271.93     A        A2                         Claims Adjuster
## 1121      1174.75     B        B5                   Director of Technology
## 1122       176.68     A        A5        Director of Operations/Technology
## 1139        60.19     D        D4                          Test Mechanic
## 1163       619.32     C        C2        Digital Communications Specialist
## 1181       550.45     B        B4                        Registered Nurse
## 1187       468.94     A        A4                      Production planner
## 1194        97.30     E        E1                                   Owner
## 1197       781.57     A        A4                        Service Advisor
## 1209       714.02     C        C3                       Child Protection
## 1224       312.63     A        A4                       Computer Manager
## 1257       293.01     D        D2                          Test engineer
## 1262       269.92     D        D4                         Mortgage Banker
## 1275       407.08     B        B5                              Postmaster
## 1336       704.57     B        B4                       Float Technician
## 1343       619.47     A        A3                        Project Manager
## 1346       693.51     C        C3                      operations manager
## 1347       329.64     D        D2                         Lead Technician
## 1379       861.45     B        B4                                Attorney
## 1418       140.91     C        C4                                      RN
## 1425      1018.93     C        C1                                       RN
## 1450       220.85     A        A5                         Sales manager
## 1451        94.65     A        A5                       Registered Nurse
## 1452       929.20     A        A3                     Aircraft technician
## 1465       940.51     C        C2                          Lease Operator
## 1468       609.82     C        C4                        School Counselor
## 1478       763.16     E        E3                   LOAN OFFICER ASSISTANT
## 1479       973.64     D        D5                     Production Test Lead
## 1500       134.26     B        B5                      Director of nursing
## 1509        72.28     D        D1                        registered nurse
## 1524       423.20     D        D3                  Executive administrator
## 1533       181.50     B        B4                    Coordinating Manager
## 1534       798.89     A        A2                          Vice President
## 1537       216.83     D        D1                      master electrician
## 1548       284.21     E        E1                      Purchasing Manager
## 1566       307.17     D        D1                                   owner
## 1575       148.50     D        D3                              Supervisor
## 1620       191.86     D        D5
## 1632        61.46     E        E5                               Appraiser
## 1661       595.31     C        C5                          Director of IT
## 1666       427.30     C        C5               Associate Medical Director
## 1679        64.17     B        B2                                    cook
## 1686      1137.10     B        B2
## 1688       131.86     D        D2                              Electrician
## 1726       356.08     C        C5                         Store Room Clerk
## 1738       398.81     C        C5                           Data Analyst I
## 1744        97.47     B        B2                               Ramp ahent
## 1750       315.50     A        A5                      Collection Manager
## 1754       202.37     D        D1                          Lead Assembler
## 1762       100.70     B        B5                 Customer Service Manager
## 1809       134.26     B        B5                       Wiring Department
## 1811       321.80     A        A5                 Interventional radiology
## 1819       169.83     C        C1        Senior Target Security Specialist
## 1880       634.79     D        D3
## 1881       344.07     C        C2                 Manager, Customer Service
## 1894       262.61     A        A4                        Program Manager
## 1900       157.75     A        A5                          Senior Teller
## 1915       253.78     D        D1                               SECRETARY
## 1919       302.67     C        C5                         Insurance agent
## 1942        36.63     D        D2                                 Cashier
## 1943       472.36     D        D4                                 Analyst
## 1958       339.65     C        C1                                Mechanic
## 1991       388.62     D        D2                              Beater man
## 1994       171.25     E        E1                                  Floting
## 1997       218.84     A        A4                      Processing Manager
## 2001       552.98     C        C1                       Building engineer
## 2013       786.42     B        B3              Director, Sales Engineering
## 2015        49.32     C        C4                        ACCOUNT EXECUTIVE
## 2018       781.57     A        A4                        Registered Nurse
## 2050       226.14     B        B1                 Accouns Payable Analyst
## 2074       376.19     D        D4            Business development manager
## 2077       268.61     D        D5                                     RCA
## 2092       402.89     D        D2                                 Manager
## 2161       556.85     D        D3                                   Owner
## 2165       178.19     D        D3                           First Officer
## 2170       173.46     D        D1                              Supervisor
## 2171       329.91     D        D1                        Machine Operator
## 2172       317.06     B        B4             Nuclear Limited Duty Officer
## 2192      1094.20     A        A4                   Senior Vice President
## 2194       714.02     C        C3                     Market sales Manager
## 2196        69.07     D        D5
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## 2248      176.14    C       C4                Administrative Assistant
## 2253      496.09    C       C5                       Speech Pathologis
## 2254      234.49    B       B4                           Administrator
## 2257      330.00    B       B4                             IT Lan Tech
## 2263      157.71    E       E2                          General Manager
## 2277      252.40    A       A5                               Consultant
## 2289      178.04    C       C5                                Designer
## 2303      272.85    C       C5                          registered nurse
## 2312      137.63    C       C2                                     SBPA
## 2318      368.72    A       A2                                    Nurse
## 2320      387.66    B       B1                           Superintendent
## 2326      220.85    A       A5                          Fund Accountant
## 2328      156.32    A       A4                                   Waiter
## 2341      263.34    D       D4                Administrative Assistant
## 2348      274.70    D       D2                       Assistant Manager
## 2370      226.14    B       B1                              Head coach
## 2376      383.72    D       D5                           Market Manager
## 2382      259.91    B       B2                          Program Analyst
## 2385      102.56    D       D2                         Machine operator
## 2406      347.80    E       E2
## 2409      142.66    C       C1                           Police Officer
## 2421      476.14    D       D2                       Manage repair rep
## 2456       50.95    C       C1                                 teacher
## 2462      356.08    C       C5
## 2476      761.80    A       A1                                 Teacher
## 2481      247.40    B       B3                       Assistant Manager
## 2488      460.46    E       E5                               Professor
## 2496      274.60    B       B1                                Director
## 2520      732.52    D       D2                           Sales manager
## 2531      303.00    A       A4               Enterprise Account Manager
## 2541      533.26    A       A1          Senior Administrative Assistant
## 2544      422.09    D       D5                              Cook/ Baker
## 2563      500.21    A       A4                  Senior Project Manager
## 2568      356.08    C       C5                           Medical coder
## 2580      496.09    C       C5                                 Laborer
## 2599      438.27    B       B3                     Clinical Manager RN
## 2600      904.54    B       B1                                  driver
## 2602      634.79    D       D3                                 Manager
## 2605      398.81    C       C5                                   Sales
## 2615      262.14    B       B3                               Detective
## 2620      649.77    B       B2
## 2623      255.44    B       B1                                 Manager
## 2651      346.76    C       C3              Systems Application Analyst
## 2655      361.38    D       D1        Motor Carrier Compliance Officer
## 2659      246.59    C       C4                     Training Coordinator
## 2660     1084.13    D       D1
## 2663      176.62    C       C1
## 2667      470.26    C       C2                                Security
## 2672      134.26    B       B5                   Associate US Designer
## 2677      167.83    B       B5              Compliance Agent Supervisor
## 2690      183.78    C       C3                            Group Leader
## 2695      117.70    A       A3                                   owner
## 2702      339.65    C       C1                       Warranty manager
## 2710      518.16    D       D2
## 2738      601.90    D       D4                               Scientist
## 2742      189.30    A       A5 Director, human resources administration
## 2745      249.26    C       C5                               Assingner
## 2773      312.08    C       C3                     Linehaul Coordinator
## 2787      822.95    C       C2                Hydroelectric Generation
## 2792      462.00    A       A3
## 2803      320.48    C       C5                           Billing Clerk
## 2813      268.16    A       A1                               Therapist
## 2817      660.00    B       B4                        senior estimator
## 2819      569.73    C       C5                             Electrician
## 2832      243.93    C       C4
## 2857      344.07    C       C2                                 Analyst
## 2860      230.24    D       D5                                     LPN
## 2865      351.39    A       A5                           Office Manager
## 2875      634.43    D       D1                            Deputy clerk
## 2880       51.28    D       D2                               technician
## 2894      778.99    F       F3                          Training Advisor
## 2899      243.93    C       C4                  FS account specialist 3
## 2912       80.92    E       E4
## 2927      419.56    B       B5                       Research Assistant
## 2933     1115.04    A       A3                          Business Manager
## 2947      825.76    C       C2                                Sommelier
## 2951      390.29    C       C4                       Executive Director
## 2957      345.62    C       C1                                professor
## 2961      523.61    C       C3                      Clinical Specialist
## 2968      391.69    C       C5
## 2971      973.36    B       B5                                 Director
## 2995      408.64    B       B2                   Operations Coordinator
## 3032      613.94    E       E5                               MACHINIST
## 3036      743.36    A       A3                              Supervisor
## 3040      594.48    B       B4                       Lead Ramp Service
## 3053      109.88    D       D2                         Train Conductor
## 3062      146.51    D       D2                                   sales
## 3067      937.88    A       A4                                   Sales
## 3074       36.14    D       D1                             CAD Designer
## 3092      701.78    D       D4                                 Teacher
## 3102       40.71    E       E5                                 manager
## 3119     1218.88    A       A1                               SVP Claims
## 3123      180.69    D       D1                         Field Specialist
## 3134      433.65    D       D1
## 3141      472.92    D       D5                           Hr Generalist
## 3143      704.53    C       C4                                      RN
## 3173       81.23    B       B2                          American Family
## 3178      796.02    A       A3                             Electrician
```

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## 3186       353.85     C        C5                                Flagger
## 3204       277.41     C        C3                                MANAGER
## 3210       849.33     B        B1
## 3211       101.90     C        C1                         nurse liaison
## 3218        79.20     B        B4                               Manager
## 3230       194.60     E        E1                          social worker
## 3251       125.06     A        A4                        Project Manager
## 3262       323.05     B        B1                         Administration
## 3269       470.26     C        C2                Family Service Specialist
## 3271       660.37     B        B5                       equipment operater
## 3278       619.47     A        A3                  construction specialist
## 3282       214.50     B        B4                             Team Member
## 3302       336.60     B        B4                        Project Manager
## 3318        71.22     C        C5                               Officer
## 3323       591.35     C        C3                                Teacher
## 3367       575.58     D        D5                               Educator
## 3376       769.17     D        D2                      Warehouse Manager
## 3392       733.43     B        B4                        Kitchen Manager
## 3409       878.71     D        D1                        line supervisor
## 3416       436.45     F        F5                       Eligibility Work
## 3436       325.31     B        B3                               Forester
## 3441       162.45     B        B2                       Senior Paralegal
## 3472       313.74     A        A5 fire safety and emergency action directo
## 3485      1174.94     E        E2                Health program associate
## 3492       349.06     C        C4                                   Admin
## 3494       540.24     C        C2                       Foreman / Driver
## 3501       309.88     C        C3                              Carpenter
## 3506       353.85     C        C5
## 3530       665.48     A        A1      Senior Resource Development Manager
## 3565        37.37     D        D4                        Server Engineer
## 3577       651.61     C        C3                                Manager
## 3613        73.74     D        D3                          Veterinarian
## 3617       256.57     B        B1                                Manager
## 3639      1310.50     B        B4                            Pharmacist
## 3657       305.09     A        A2                          Data Analyst
## 3668       418.76     D        D3                  Compensation Consultant
## 3686        96.22     B        B1                Senior Manufactoring Tech
## 3698      1091.36     D        D2                    Foundation Accountant
## 3704       461.50     D        D2                                     SFO
## 3707       717.75     D        D1
## 3780       318.98     C        C1                         change manager
## 3790       267.73     B        B5                               Attorney
## 3794       491.27     C        C5                      VP of CM Services
## 3796       112.95     A        A5                         Administrator
## 3822       841.64     B        B1                         Store Manager
## 3825       792.49     C        C1              Electrical Relay Technician
## 3861       588.47     C        C3                           Firefighter
## 3887       688.62     C        C3             Management Program Assistant
## 3921       660.81     D        D5                    Customer service Rep
## 3922        94.12     A        A5                          troubleshooter
## 3926       640.98     D        D2                        Account Manager
## 3943       227.72     B        B3                          Buyer/Planner
## 3954       384.77     C        C4                Petty Officer First Class
## 3964       184.80     A        A3                         Project Analyst
## 3976       479.23     A        A5                      Surgical Assistant
## 3984       337.23     C        C1                      Operations Manager
## 4006       251.06     D        D1                      PATIENT ACCESS REP
## 4010       184.80     A        A3                    Logistics Specialist
## 4028       192.43     B        B1                SR. ACCOUNT ADMINISTRATOR
## 4043       982.53     C        C5                                   Owner
## 4045       235.30     A        A5                           Taylor fitter
## 4053       102.58     C        C2                     Contract Specialist
## 4055       502.12     D        D1                     Health club manager
## 4057       344.52     D        D1                         Revenue Analyst
## 4098       627.90     C        C3                    Chief credit officer
## 4100       221.22     D        D3                  Director of Operations
## 4113       374.11     B        B3
## 4119       282.98     B        B4                                Manager
## 4136       212.31     C        C5
## 4138       509.30     D        D2                        P&C Underwriter
## 4150       550.90     C        C3                      Accounting Manager
## 4169       831.92     B        B5                          Safety Manager
## 4173       477.02     D        D1                                Teacher
## 4193       256.57     B        B1                        Insurance agent
## 4198       655.25     B        B4                                  Nurse
## 4203       341.76     C        C1                     pharmacy technician
## 4211       499.15     B        B5
## 4220       109.14     D        D2                       Server/Bartender
## 4229       762.26     D        D5                               nurse RN
## 4247        83.78     C        C4                             Crew Member
## 4273       219.62     A        A5                      Contracts manager
## 4274       963.68     D        D5                             Accountant
## 4284       440.54     D        D5                                     RN
## 4301       373.63     D        D4                           process tech
## 4325       252.93     C        C1
## 4349       162.47     A        A3     Sr. Clinical Coding Nurse Consultant
## 4350       653.03     B        B4                       Licensed Optician
## 4370       202.34     C        C1                         Cash Management
## 4372       325.98     C        C2                  Eligibility Specialist
## 4388       285.28     D        D3
## 4390       401.70     D        D1
## 4400       169.40     A        A3                             Technician
## 4401       641.41     B        B1                      ASSISTANT MANAGER
## 4402       947.15     F        F1                    Millwright mechanic
## 4418       470.78     C        C3                   Senior Vice President
## 4421       188.24     A        A5                          Superintendent
## 4431       349.06     C        C4                                   Admin
## 4440       172.56     A        A5                                Operator
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## 4458       349.06     C        C4                          Interpreter
## 4461       353.85     C        C5                              Leadman
## 4469       295.34     A        A4                   School safety agent
## 4472       113.86     B        B3                          Firefighter
## 4479       962.12     B        B1     Global Director, Lean Manufacturing
## 4483       161.51     B        B2                           Maint Tech
## 4503       399.32     B        B5                             Manager
## 4519       655.08     F        F4                     VP of Operations
## 4522       337.23     C        C1                     Property Manager
## 4525       473.58     F        F1                         Shop Foreman
## 4528       674.46     C        C1                       Branch Manager
## 4538       480.96     C        C4                     Parachute rigger
## 4548       897.37     D        D2                           IT Analyst
## 4554       288.58     C        C4        Legal office support assistant I
## 4557       550.90     C        C3                           Coordinator
## 4569        39.17     E        E2                             Engineer
## 4576       235.39     C        C3              Green Beret Special Forces
## 4590       125.50     A        A5
## 4594       688.62     C        C3                                   SVP
## 4604       341.93     C        C2              Chief Executive Assistant
## 4622       491.79     G        G1                        QA food safety
## 4626       381.13     D        D5                         Truck Driver
## 4629       344.31     C        C3                 New Business Processor
## 4633       141.54     C        C5                             Director
## 4646       884.62     C        C5                  Industrial mechanic
## 4650       391.82     B        B4                           Carpenter
## 4660       746.11     A        A4           Technical Operations Engineer
## 4673       897.37     D        D2                                 Chef
## 4684       251.06     D        D1                              Teacher
## 4699       144.79     D        D4                        IT Specialist
## 4720        93.17     A        A3                   District Commander
## 4724       432.87     C        C4
## 4728        47.30     D        D2                       Area Supervisor
## 4751       113.86     B        B3                       General laborer
## 4778       236.47     D        D2             Speech language pathologist
## 4812      1077.99     A        A3                     Hospital Director
## 4820       505.15     F        F1
## 4835       585.16     E        E3                              TOPPING
## 4843       373.06     A        A4
## 4876       170.97     C        C2                     Operator/Foreman
## 4882       526.03     B        B1                                Sales
## 4895      1238.46     C        C5                         Truco driver
## 4907       165.27     C        C3
## 4912       332.77     B        B5                       Network Analyst
## 4941       941.20     A        A5                 Collection Supervisor
## 4952       698.12     C        C4     Project Manager/Mechanical Engineer
## 4954       487.97     B        B3                            ACCOUNTING
## 4956       136.77     C        C2                   Sr. Vendor Analyst
## 4957       798.64     B        B5                        Body Mechanic
## 4959       585.56     B        B3                       Police officer
## 4960        66.56     B        B5                       Police Officer
## 4987       292.78     B        B3                   Program Assistant
## 5022       364.78     E        E5
## 5027       707.70     C        C5                Transportation Manager
## 5029       234.23     B        B3               Network services manager
## 5053       414.67     C        C1                  Lead Coder Consultant
## 5054       323.01     B        B2                          Electrician
## 5055        92.29     A        A2                       Project Manager
## 5066       870.70     B        B4                          vp marketing
## 5069       227.84     C        C1     Corporate Trainer /HECM SPECIALIST
## 5077       417.60     E        E4                      Account Manager
## 5091       512.89     C        C2                             Machnist
## 5110       143.55     D        D1                     material handler
## 5114       327.63     B        B4              Front Desk Representative
## 5161       982.53     C        C5                           ODB Manager
## 5215        54.92     A        A2                City Carrier Assistant
## 5216       544.19     B        B4                               teacher
## 5219       674.46     C        C1                               TEACHER
## 5251       401.70     D        D1                     Sales Management
## 5254       897.37     D        D2                         FP&A Manager
## 5258       269.34     C        C4            Director of Web Development
## 5269       841.64     B        B1                     Senior Consultant
## 5277       107.67     D        D1                      Registered Nurse
## 5285       837.67     C        C1                       Parts wholesale
## 5291      1238.46     C        C5                                 owner
## 5292       349.06     C        C4                       Administration
## 5340       295.34     A        A4                   Account Management
## 5341       879.05     C        C5                             Operator
## 5347       161.00     C        C5                      Registered Nurse
## 5373       219.66     A        A2                             Recrutier
## 5382      1204.42     A        A1                   Principal Engineer
## 5394       294.87     B        B4                       Superintedent
## 5432        96.22     B        B1                              Driver
## 5443       462.00     A        A3                                TECH
## 5445       566.16     C        C5                       Train Conductor
## 5454       561.24     B        B1                       Vice President
## 5464       546.18     A        A4                              officer
## 5479       323.01     B        B2                      Registered Nurse
## 5503       631.51     C        C1                    Director of Sales
## 5514       332.05     B        B5                       Office Manager
## 5517       130.13     B        B3            Senior Loan Administrator
## 5545       752.76     A        A1              High School Math Teacher
## 5549        56.05     D        D4                       System Analyst
## 5558       198.16     C        C5                     Tenant Relations
## 5569       317.29     A        A2                      Firefighter/EMT
## 5590       220.36     C        C3                            Principal
## 5592       190.57     D        D5                           Supervisor
## 5608       181.90     D        D2                        Outside Sales
```

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## 5609       655.25     B        B4                        Care Manager RN
## 5611       104.06     C        C4                     Aircraft Mechanic 1
## 5624        96.91     B        B2                                  Clerk
## 5651        70.41     B        B1                      FISCAL COORDINATOR
## 5673       677.59     A        A3                                   Nurse
## 5692       271.93     B        B4            Tempering operations manager
## 5694        96.22     B        B1                          Bus operator
## 5716       248.71     A        A4                            Stat Typist
## 5736       451.91     D        D1                                 Welder
## 5745       148.39     C        C1                         Plant Engineer
## 5777       366.42     D        D3                      Appeals Specialist
## 5789       517.45     B        B5                         Service Manager
## 5822       465.68     C        C2                         Owner/Operator
## 5831       298.29     E        E4                     Consulting Assistant
## 5843       147.84     A        A3                          Flight attendan
## 5863       609.08     A        A2   Waste Water Reclamation Plant Operator
## 5865       440.33     B        B1                  National Sales Manager
## 5868        99.49     A        A4                          Medical Scribe
## 5870        73.04     A        A4                              Plasterman
## 5882       313.18     A        A5                         Vice President
## 5883       153.73     A        A3                      Paving Coordinator
## 5888       218.28     D        D2                                  Helper
## 5899       231.65     D        D4                     correctional officer
## 5902       500.03     C        C4                          PC Technician
## 5903       826.02     D        D5                                   urse
## 5904       369.49     C        C3                               Director
## 5906       215.22     A        A3
## 5907       461.18     A        A3                                Teacher
## 5932       304.91     D        D5            Manager of Client Relations
## 5933       163.46     B        B4                       General manager
## 5940       502.51     D        D3                        HVAC Technician
## 5942       407.83     C        C3                             Coal Miner
## 5946       553.04     D        D3                             Accountant
## 5955      1252.72     A        A5                              Mechanic
## 5967       172.25     A        A5                                    RN
## 5973        46.39     E        E1                     warehouse supervisor
## 5989       381.13     D        D5                                  deli
## 5999       186.82     D        D4                             Technician
## 6004       502.60     C        C1                      MAINTENANCE MANAGER
## 6024       684.24     C        C3                        Pulmonary Manager
## 6037        65.39     B        B4                      Teaching assistant
## 6038        48.01     B        B1                                Recruiter
## 6041       347.25     D        D4         Legal Administrative Specialist
## 6047       111.72     A        A4                             head coach
## 6048       163.46     B        B4
## 6052       261.54     B        B4                                   LPN
## 6087       676.83     B        B2            Network System Administrator
## 6102        65.49     D        D2                              Installer
## 6132       465.50     A        A4                     customer service rep
## 6139       335.07     C        C1                                 Driver
## 6147      1054.07     D        D2                  Corporate Sales Manager
## 6154        61.49     A        A3                  Chief Operating Officer
## 6155       911.95     E        E5            Damage Prevention Supervisor
## 6156       345.77     C        C2                     Complex Risk Officer
## 6181        53.84     D        D1                          Break operator
## 6186       413.01     D        D5                        Production Tech
## 6214       174.62     D        D2                 Customer Care Associate
## 6217       375.82     A        A5                       General Supervisor
## 6228       478.97     C        C3                        Legal assistant
## 6232       512.71     C        C3                      Senior Loan Officer
## 6243      1120.88     D        D4                         Teaching Faculty
## 6248       782.87     A        A1                       VP Administration
## 6270       172.26     D        D1          Support Store Manager Front End
## 6274       216.93     B        B4                            Lieutenant
## 6284       256.39     D        D2                       General Expeditor
## 6309       615.25     C        C3                                 Officer
## 6310       597.69     B        B5                          Sales manager
## 6317       100.52     C        C1                         Letter carrier
## 6361        80.58     B        B2
## 6366        53.84     D        D1            Route service representative
## 6370        76.23     D        D5                       Medical Assistant
## 6393       555.86     B        B5                                    vp
## 6429       186.20     A        A4                            Maintenence
## 6448       421.95     C        C5                              PARAMEDIC
## 6469        58.99     D        D3                             Shift lead
## 6481       410.23     D        D2                          Administrator
## 6485       515.68     B        B2                      Nurse Practitioner
## 6492       109.74     C        C1                             RN liaison
## 6493       806.41     B        B1                       Financial Analyst
## 6499       911.95     E        E5                           Administrator
## 6500       338.20     A        A3                  Sr. Maintenance Manager
## 6510       175.81     C        C5                               Sergeant
## 6522       356.46     B        B1                                  Sales
## 6528       833.39     C        C4                             Consultant
## 6536       140.67     E        E4                       Probation Officer
## 6550       326.92     B        B4                                 Sr. AA
## 6555        93.96     A        A5                                Cashier
## 6559       884.85     D        D3                                  Owner
## 6591       421.95     C        C5                     corporal in the jail
## 6641       699.14     C        C3         Director of Business Development
## 6644       679.24     B        B2
## 6646       523.07     B        B4                 Licensed Practical Nurse
## 6648       536.11     C        C1                     Detective supervisor
## 6682       161.15     B        B2                       Operations Manager
## 6699       215.33     D        D1            Senior Development Assistant
## 6700       256.01     B        B1                                Teacher
## 6704       342.12     C        C3                             Oil Analyst
## 6716       303.99     E        E5                      Geospatial Analyst
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## 6719      549.62    D       D3          Bookkeeping & Payroll Manager
## 6724      124.14    A       A4                        Plant Manager
## 6737      238.11    C       C4                          Supervisor
## 6795      208.11    C       C4                     Machine operator
## 6813      335.07    C       C1                                Owner
## 6826      550.68    D       D5                       RN Case Manager
## 6842      169.87    C       C2                         Maintenance
## 6852      332.05    B       B5                      Support Manager
## 6856      236.86    D       D1         Development Review Coordinator
## 6866     1125.19    C       C5                      Choir Director
## 6875      486.91    B       B3                         Team Manager
## 6901      220.84    C       C2                       CMM Technician
## 6944     1218.15    A       A2               Vice President Product
## 6952      210.98    C       C5                     Sales Consultant
## 6968      325.85    A       A4                             Teacher
## 6980      331.82    D       D3                   Registered Nurse
## 6991      308.38    D       D5                          Production
## 6992      398.46    B       B5                             Teacher
## 7041      996.15    B       B5                  Operating Engineer
## 7046      169.10    A       A3                                 A/R
## 7055      608.96    C       C1                Inside Support Manager
## 7070      609.08    A       A2                     Senior Consultant
## 7078      322.30    B       B2                              Material
## 7083      407.69    C       C2                           electrician
## 7092      273.49    B       B5                      Unit Supervisor
## 7093      243.24    C       C5                              Courier
## 7113      235.96    D       D3                        Case Manager
## 7128      320.01    B       B1                           sales rep
## 7140      224.18    D       D4                     Customer Service
## 7154     1218.15    A       A2                           Pharmacist
## 7157      320.01    B       B1                      Legal Assistant
## 7170      318.92    D       D3                              Foremon
## 7175      136.85    C       C3                                 Cook
## 7181      193.29    E       E1          president wholesale lending
## 7194      326.92    B       B4                         Postal Clerk
## 7200      291.03    D       D2                  Programmer Analyst
## 7205      363.79    D       D2                             Teacher
## 7209      609.08    A       A2                          Legal Admin
## 7210      312.17    C       C4                       Sales manager
## 7211      650.92    B       B5                      Branch manager
## 7212      670.13    C       C1                             Manager
## 7246      402.08    C       C1                         Underwriter
## 7248       69.37    C       C4             Administrative Assistant
## 7260      225.54    C       C1                      Police Officer
## 7264      265.64    B       B5                Coordinating Manager
## 7277      141.98    D       D4                   Project Assistant
## 7283      389.53    B       B3                Sr Financial Analyst
## 7286      351.62    C       C5                      Proud Manager
## 7300      232.44    B       B5                             Manager
## 7332      155.17    A       A4                      Office Manager
## 7348       70.33    C       C5                  inventory control
## 7350      155.17    A       A4                      Cosmetologist
## 7356      133.40    D       D5                          Gardener
## 7367      111.15    E       E1
## 7368       91.37    A       A2                          Assistant
## 7369      242.80    C       C4                        maintenance
## 7370       51.57    B       B2                           Engineer
## 7376      359.61    B       B4                Lead Office Assistant
## 7379      298.85    B       B5                  Accounting Assistant
## 7388      281.30    C       C5                 Lead business analyst
## 7395      179.44    D       D1               debt card specialist II
## 7398      303.99    E       E5                           Professor
## 7457      514.62    F       F2                Elementary Principle
## 7471      916.03    D       D3                             Manager
## 7482      187.91    A       A5                     Plant Inspector
## 7507      232.44    B       B5                        collections
## 7514      210.98    C       C5                         Team Manager
## 7519      303.99    E       E5                Purchasing/Inventory
## 7525      212.50    B       B4                            Sergeant
## 7527      339.74    C       C2                         roof bolter
## 7537      161.15    B       B2                  Accounts Receivable
## 7542      830.12    B       B5                       Lead Architect
## 7561      186.82    D       D4                   Safety Specialist
## 7569      789.39    C       C1                           IT Manager
## 7576      248.10    C       C1                       AP specialist
## 7639      640.01    B       B1                               Sales
## 7640     1040.55    C       C4                   Program Developer
## 7650      416.22    C       C4                     Project Manager
## 7652      199.63    A       A4                iTunes Senior Advisor
## 7672       30.12    A       A1                          HR Director
## 7673      587.47    E       E2                                owner
## 7674      453.86    A       A4                       Airline Pilot
## 7681      136.85    C       C3                  Operations Manager
## 7683      188.17    C       C3                             Plumber
## 7685     1048.11    D       D5                     Dietary Manager
## 7702      351.62    C       C5                                 CEO
## 7716      266.86    C       C3                Home lending assistant
## 7717      310.33    A       A4                             Manager
## 7721       68.43    C       C3                  Military Supervisor
## 7726      667.79    D       D4         Switch Provisioning Specialist
## 7760      573.86    E       E2                   Accounting Clerk
## 7766      339.74    C       C2                   Cage supervisor
## 7793      490.38    B       B4                               LPN
## 7802      256.01    B       B1                    Systems Analyst
## 7826      322.30    B       B2
## 7846      209.68    B       B1                      Student Pastor
## 7866     1091.36    D       D2                      Vice President
## 7883      324.61    B       B3                   Sales associate
```

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## 7885      391.44    A       A1                 Instructional Designer
## 7911      461.18    A       A3
## 7917      440.54    D       D5           Construction superintendent
## 7919      138.74    C       C4                              Fitter
## 7922       93.96    A       A5
## 7928      855.75    A       A2          Clinical laboratory scientist
## 7939      120.63    C       C1             Sample double needle sewer
## 7941      301.11    A       A1                              Pilot
## 7947      512.78    D       D2                        HR Specialist
## 7955      268.06    C       C1                       Route Sales Rep
## 7968      273.09    A       A4                              Teacher
## 7969      773.52    B       B2
## 7974      372.40    A       A4                     Payroll Supervisor
## 7982      533.63    B       B5                  Operations Specialist
## 7995      387.59    D       D1                                   AP
## 8000      221.22    D       D3                 NCOIC, Police Services
## 8005      737.38    D       D3                                 clerk
## 8007      321.07    C       C5                            SUpervisor
## 8019      256.01    B       B1                               Manager
## 8021      313.18    A       A5                       secretary/parts
## 8039      702.19    E       E3                            Dispatcher
## 8055      376.07    D       D3                               Teacher
## 8061      676.83    B       B2    Lead Aircraft Maintenance Technician
## 8066      248.27    A       A4                       legal assistant
## 8093      265.64    B       B5                    Chield care worker
## 8095      922.35    A       A3                    Account Executive
## 8100      628.14    D       D3
## 8142      114.34    D       D5                           Underwriter
## 8149      193.38    B       B2                          Senior Buyer
## 8152      232.44    B       B5                         Administrator
## 8156      156.59    A       A5                Customer service agent
## 8165      345.77    C       C2                                    RN
## 8201      407.69    C       C2                          scrum master
## 8203      205.27    C       C3                      Facility manager
## 8209       52.75    C       C5                         Journeyperson
## 8224     1213.98    C       C4                   Contributing Faculty
## 8246      815.08    B       B3                   Senior Web Developer
## 8256       81.73    B       B4                          bus operator
## 8267       56.05    D       D4                           Fire Tech 3
## 8272      199.23    B       B5                               Teacher
## 8284      457.11    C       C5                                 Nurse
## 8295      451.22    B       B2                              Mechanic
## 8316      484.08    C       C2                            Consultant
## 8336      234.89    A       A5                       forklift driver
## 8355      206.27    B       B2
## 8360      666.71    C       C4              Data Scientist/ Developer
## 8364      422.80    A       A5                                  Clerk
## 8379      519.35    C       C1                       Senior corporal
## 8391      530.91    D       D3                Shipping and receiving
## 8392      737.38    D       D3                     Marketing Manager
## 8396      187.91    A       A5                   Assistant Principal
## 8437      564.49    B       B5                  SharePoint Developer
## 8459      360.73    C       C4                         Truck driver
## 8462      301.88    B       B3                          Maintanance
## 8477      189.17    D       D2                      Nurse Assistant
## 8482      729.65    D       D5         Purchasing/Receiving Specialist
## 8490      360.28    B       B5                 Hoist equipment Manager
## 8491      140.65    C       C5                     Financial Analyst
## 8496      966.45    E       E1                              Foreman
## 8498      375.82    A       A5                 Intake Social Services
## 8516      608.44    A       A1                                  ATCS
## 8518      169.87    C       C2                       Sr Underwriter
## 8522      150.56    A       A1                             Clerical
## 8526     1307.66    B       B4                           Of Counsel
## 8529      259.69    B       B3           Business & Tech Apps Analyst
## 8537      193.38    B       B2                     Lead Data Analyst
## 8552      215.33    D       D1                                 trs1
## 8585      184.47    A       A3                              teacher
## 8602      746.07    E       E3                           Coordinator
## 8627      193.38    B       B2                 EMERGENCY DISPATCHER
## 8647      185.61    B       B1          DIRECTOR OF TRUANCY DEPARTMENT
## 8674      344.50    A       A5                       General Manager
## 8709      851.32    C       C5                          Bank manager
## 8711      147.14    D       D1                                 Coder
## 8712     1004.84    D       D1                          Nursing Tech
## 8721      220.84    C       C2                           BOOKKEEPER
## 8735      589.90    D       D3                     Monitor Technician
## 8767      324.61    B       B3                              Conductor
## 8783      523.45    D       D3                                  Owner
## 8795      386.76    B       B2                        Social Worker
## 8804      653.83    B       B4                                owner
## 8824      193.38    B       B2                       Merchant Marine
## 8835      225.61    B       B2                        Office Manager
## 8862      270.65    C       C1                          Underwriter
## 8864      878.71    D       D1     Design Build Representative Senior
## 8890      466.10    C       C3                        Vice President
## 8895      418.76    D       D3           Regional IT Security Manager
## 8906     1229.79    A       A3                         Legal Analyst
## 8944      513.18    C       C3                                owner
## 8946      952.14    D       D3
## 8953      400.68    D       D4                            Warehouse
## 8963     1000.41    D       D2                   Executive Assistant
## 8966      368.94    A       A3                Cnc programming engineer
## 8977     1218.15    A       A2                 Seinor Data Center Tech
## 9042      525.15    C       C3                          Order filler
## 9047      337.56    C       C5                Human Resources Manager
## 9048      320.01    B       B1                    Key Account Manager
## 9056      477.02    D       D1                     IT PROJECT MANAGER
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## 9057       169.13     A        A4                    PUBLIC SAFETY OFFICER
## 9058       889.38     B        B5                   Air Traffic Controller
## 9083       193.38     B        B2                       Software Developer
## 9091       879.05     C        C5                                  teacher
## 9096       184.47     A        A3                                    Clerk
## 9098       331.10     B        B3                          LEGAL ASSISTANT
## 9101       495.61     D        D5                                  Teacher
## 9103       169.87     C        C2                                   IT Mgr
## 9140       234.55     C        C1                           Office Manager
## 9154       595.28     C        C4                                    owner
## 9160       684.24     C        C3              Electronics Test Technician
## 9163       239.55     A        A4                           Remote editor
## 9202       324.61     B        B3                     Director of Wellness
## 9240       129.85     B        B3                               Supervisor
## 9243       595.28     C        C4                                  manager
## 9245       167.54     C        C1                               Custodian
## 9254       416.22     C        C4                                   Driver
## 9286       210.98     C        C5                            Team Leader
## 9294       330.41     D        D5                           Maintanence
## 9321       433.86     B        B4
## 9336        71.40     B        B5                               supervisor
## 9380      1144.20     B        B4                    Clinical Coordinator
## 9383       523.08     D        D4
## 9388       228.68     D        D5                    Licensing Coordinator
## 9413       320.01     B        B1                                    Owner
## 9431       224.01     B        B1                           Superintendent
## 9432       173.43     C        C4                      Transfers Associate
## 9444       190.57     D        D5                                    Labor
## 9459       830.12     B        B5                                    Owner
## 9464       972.94     C        C5                                Therapist
## 9474       313.18     A        A5                            Administrator
## 9481       878.71     D        D1                  Senior Software Engineer
## 9497       697.30     B        B5          Senior Implementation Consultant
## 9499       451.08     C        C1                              Engineer II
## 9503       238.50     B        B2          Eastern Regional Service Manager
## 9506      1120.88     D        D4                            Deputy Sheriff
## 9509       889.38     B        B5                Gas Service Utility Worker
## 9522       465.50     A        A4                     Corporate Controller
## 9546      1280.01     B        B1                                  Manager
## 9559       342.12     C        C3                         Software Engineer
## 9573       416.22     C        C4                                Millwright
## 9610       542.32     B        B4                              Ckt engineer
## 9614       324.61     B        B3                Special Education Teacher
## 9627       192.03     B        B1                     Assistant Supervisor
## 9628       238.06     E        E3                  Court Program Supervisor
## 9629       523.45     D        D3
## 9652       495.47     D        D5                       Military instructor
## 9677       347.29     F        F1                                     Sales
## 9681        94.74     A        A5                             RECEPTIONIST
## 9690      1280.01     B        B1                                      CEO
## 9697       338.31     C        C1                           Product Support
## 9701       436.55     D        D2                        Energy CSS Manager
## 9705       218.96     C        C3                   Transaction Coordinator
## 9714       498.05     B        B5                 Sr. Instructional Designer
## 9718       629.04     B        B1                  Portfolio Analyst Senior
## 9722       168.14     D        D4                          Registered nurse
## 9748       653.83     B        B4                                     sales
## 9751       419.07     E        E2                             Investigator
## 9753       322.30     B        B2                       Collections Tech II
## 9773        93.96     A        A5         Human Resources Representative II
## 9783       502.12     D        D1                  Clinical Trial Assistant
## 9786       152.27     A        A2                                 Educator
## 9796      1143.39     D        D5                                   driver
## 9811       238.02     A        A5                         Systems Engineer
## 9816       704.01     B        B1                                Physician
## 9817       609.81     D        D5                    Maintenance supervisor
## 9820       499.06     A        A4                                    owner
## 9834       184.47     A        A3                             Truck driver
## 9843       147.58     A        A3                        Associate Director
## 9872       481.77     A        A1           Production Support Group Leader
## 9882       307.45     A        A3                              Instructor
## 9898       360.16     A        A5                          Registered nurse
## 9904      1091.36     D        D2                           Electric forman
## 9924       145.52     D        D2                                 Associate
## 9943       889.58     B        B5                          Registered Nurse
## 9945       468.13     E        E3                            superintendent
## 9983       218.28     D        D2                           Service Advisor
## 9988       653.83     B        B4                   Senior Systems Analyst
## 10024      911.95     E        E5                         Benefits Analyst
## 10033      263.72     C        C5                     respiratory therapist
## 10058      143.55     D        D1                               Route Drive
## 10062      124.87     C        C4                        Maintenance Manager
## 10078      187.91     A        A5                                     Doctor
## 10088      301.15     A        A1                        Quality Assuarance
## 10096       35.17     C        C5                          Business Manager
## 10110      762.26     D        D5                        Operations Manager
## 10166      185.03     B        B3                             Teacher/Coach
## 10167      524.42     C        C2                           Program Analyst
## 10192      264.94     D        D4                     Real Estate Secretary
## 10195      167.54     C        C1                     Research Specialist V
##       emp_length home_ownership annual_inc verification_status  issue_d
## 4        3 years           RENT   60000.00     Source Verified Dec-2018
## 7       < 1 year       MORTGAGE   68000.00     Source Verified Dec-2018
## 9        1 year           RENT  100000.00     Source Verified Dec-2018
## 14     10+ years       MORTGAGE  118964.00        Not Verified Dec-2018
## 23     10+ years            OWN   55992.00        Not Verified Dec-2018
## 34       5 years           RENT  144000.00     Source Verified Dec-2018
## 40       8 years           RENT   38000.00        Not Verified Dec-2018
```

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## 49     10+ years       MORTGAGE  660000.00     Source Verified Dec-2018
## 50     10+ years       MORTGAGE  118500.00        Not Verified Dec-2018
## 51      < 1 year           RENT   65000.00        Not Verified Dec-2018
## 68                      MORTGAGE   29000.00            Verified Dec-2018
## 82     10+ years       MORTGAGE   58000.00     Source Verified Dec-2018
## 115    10+ years            OWN   60000.00        Not Verified Dec-2018
## 140       1 year            OWN   52000.00     Source Verified Dec-2018
## 158       1 year           RENT  155000.00     Source Verified Dec-2018
## 162       1 year           RENT  115000.00        Not Verified Dec-2018
## 167     < 1 year            OWN  100000.00        Not Verified Dec-2018
## 182      7 years       MORTGAGE   40000.00     Source Verified Dec-2018
## 186     < 1 year           RENT  120000.00        Not Verified Dec-2018
## 200    10+ years       MORTGAGE  150000.00     Source Verified Dec-2018
## 239      6 years           RENT   48000.00     Source Verified Nov-2018
## 249      3 years       MORTGAGE   98000.00        Not Verified Nov-2018
## 261      5 years           RENT  107000.00        Not Verified Nov-2018
## 273      4 years           RENT  200000.00        Not Verified Nov-2018
## 276      2 years           RENT  100000.00        Not Verified Nov-2018
## 345    10+ years           RENT   75000.00     Source Verified Nov-2018
## 369      6 years       MORTGAGE   87000.00     Source Verified Nov-2018
## 379      2 years            OWN   55000.00     Source Verified Nov-2018
## 389      5 years       MORTGAGE   80000.00            Verified Nov-2018
## 395      9 years       MORTGAGE   90000.00        Not Verified Nov-2018
## 403      7 years       MORTGAGE   56000.00     Source Verified Nov-2018
## 408                    MORTGAGE   53350.00        Not Verified Nov-2018
## 411      4 years       MORTGAGE  101000.00     Source Verified Nov-2018
## 426      2 years           RENT  115000.00            Verified Nov-2018
## 438    10+ years            OWN   62000.00        Not Verified Nov-2018
## 441     < 1 year       MORTGAGE   48000.00        Not Verified Nov-2018
## 443    10+ years       MORTGAGE   98000.00        Not Verified Nov-2018
## 468       1 year           RENT   50000.00     Source Verified Nov-2018
## 469      2 years            OWN   73000.00        Not Verified Nov-2018
## 480     < 1 year           RENT   41000.00        Not Verified Nov-2018
## 482     < 1 year       MORTGAGE   87500.00     Source Verified Nov-2018
## 483    10+ years       MORTGAGE   69980.00        Not Verified Nov-2018
## 513      5 years           RENT   48000.00            Verified Nov-2018
## 566       1 year           RENT   50000.00        Not Verified Oct-2018
## 569    10+ years       MORTGAGE   65000.00        Not Verified Oct-2018
## 587    10+ years       MORTGAGE  225000.00        Not Verified Oct-2018
## 597      3 years       MORTGAGE  100000.00        Not Verified Oct-2018
## 605      6 years       MORTGAGE   80000.00        Not Verified Oct-2018
## 627    10+ years       MORTGAGE  136000.00     Source Verified Oct-2018
## 644      6 years       MORTGAGE   80000.00     Source Verified Oct-2018
## 677    10+ years            OWN   26000.00            Verified Oct-2018
## 687      5 years           RENT  105000.00        Not Verified Oct-2018
## 708       1 year           RENT   38000.00        Not Verified Oct-2018
## 718     < 1 year           RENT   85000.00            Verified Oct-2018
## 721    10+ years       MORTGAGE   41000.00            Verified Oct-2018
## 743      4 years           RENT   85000.00            Verified Oct-2018
## 744                    MORTGAGE   60000.00        Not Verified Oct-2018
## 745      7 years       MORTGAGE   65000.00            Verified Oct-2018
## 758    10+ years       MORTGAGE   67000.00        Not Verified Oct-2018
## 777    10+ years           RENT  135000.00     Source Verified Oct-2018
## 802     < 1 year       MORTGAGE  165000.00            Verified Oct-2018
## 818      4 years            OWN   80000.00        Not Verified Oct-2018
## 832      5 years       MORTGAGE   65000.00        Not Verified Oct-2018
## 856    10+ years           RENT  114756.00        Not Verified Oct-2018
## 857      8 years       MORTGAGE  310000.00     Source Verified Oct-2018
## 858    10+ years       MORTGAGE   72000.00        Not Verified Oct-2018
## 882                        RENT   82512.00        Not Verified Oct-2018
## 883      5 years       MORTGAGE   46700.00        Not Verified Oct-2018
## 889      8 years           RENT   60000.00            Verified Oct-2018
## 903      6 years       MORTGAGE   70000.00        Not Verified Oct-2018
## 907      2 years           RENT   75000.00     Source Verified Oct-2018
## 915    10+ years       MORTGAGE  130000.00            Verified Oct-2018
## 920    10+ years       MORTGAGE   82000.00        Not Verified Oct-2018
## 939    10+ years            OWN   42000.00     Source Verified Oct-2018
## 954      5 years           RENT   58000.00     Source Verified Oct-2018
## 969      3 years           RENT   93000.00        Not Verified Oct-2018
## 1002   10+ years       MORTGAGE   89000.00     Source Verified Oct-2018
## 1015   10+ years           RENT   66000.00        Not Verified Oct-2018
## 1024     5 years       MORTGAGE  400000.00     Source Verified Oct-2018
## 1029   10+ years       MORTGAGE   50000.00        Not Verified Oct-2018
## 1031                       RENT   32652.00            Verified Oct-2018
## 1053    < 1 year           RENT  200000.00        Not Verified Sep-2018
## 1057   10+ years           RENT   75000.00        Not Verified Sep-2018
## 1080   10+ years       MORTGAGE  118000.00            Verified Sep-2018
## 1108   10+ years       MORTGAGE  750000.00            Verified Sep-2018
## 1109                   MORTGAGE   50000.00        Not Verified Sep-2018
## 1110     3 years           RENT   64000.00     Source Verified Sep-2018
## 1112      1 year           RENT   85000.00     Source Verified Sep-2018
## 1115   10+ years       MORTGAGE   62000.00            Verified Sep-2018
## 1121     5 years       MORTGAGE  122400.00     Source Verified Sep-2018
## 1122    < 1 year       MORTGAGE   54000.00        Not Verified Sep-2018
## 1139     4 years       MORTGAGE   60000.00            Verified Sep-2018
## 1163     4 years       MORTGAGE   77000.00        Not Verified Sep-2018
## 1181   10+ years           RENT  102000.00     Source Verified Sep-2018
## 1187   10+ years       MORTGAGE   86000.00        Not Verified Sep-2018
## 1194   10+ years           RENT  140000.00     Source Verified Sep-2018
## 1197   10+ years            OWN   60000.00     Source Verified Sep-2018
## 1209    < 1 year       MORTGAGE   49000.00     Source Verified Sep-2018
## 1224   10+ years       MORTGAGE   90000.00     Source Verified Sep-2018
## 1257     6 years       MORTGAGE   90000.00            Verified Sep-2018
## 1262     2 years            OWN  110000.00        Not Verified Sep-2018
## 1275   10+ years       MORTGAGE   68000.00     Source Verified Sep-2018
## 1336   10+ years       MORTGAGE   90000.00     Source Verified Sep-2018
## 1343     2 years       MORTGAGE   75000.00        Not Verified Sep-2018
## 1346   10+ years       MORTGAGE   92000.00            Verified Sep-2018
```

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## 1347     8 years           RENT   49900.00     Source Verified Sep-2018
## 1379    < 1 year           RENT  260000.00     Source Verified Sep-2018
## 1418     5 years       MORTGAGE   68000.00     Source Verified Sep-2018
## 1425     8 years       MORTGAGE   98000.00     Source Verified Sep-2018
## 1450     2 years       MORTGAGE   38000.00        Not Verified Sep-2018
## 1451     8 years           RENT   75000.00        Not Verified Sep-2018
## 1452     7 years       MORTGAGE  195000.00        Not Verified Sep-2018
## 1465     4 years       MORTGAGE   97000.00     Source Verified Sep-2018
## 1468   10+ years           RENT  135000.00     Source Verified Sep-2018
## 1478     6 years       MORTGAGE   68000.00        Not Verified Sep-2018
## 1479      1 year       MORTGAGE   52000.00     Source Verified Sep-2018
## 1500     2 years       MORTGAGE   67000.00        Not Verified Sep-2018
## 1509     6 years       MORTGAGE  135000.00     Source Verified Sep-2018
## 1524   10+ years            OWN   72000.00     Source Verified Sep-2018
## 1533   10+ years       MORTGAGE  135000.00     Source Verified Sep-2018
## 1534   10+ years       MORTGAGE  500000.00             Verified Sep-2018
## 1537   10+ years       MORTGAGE  100000.00        Not Verified Sep-2018
## 1548     3 years           RENT   65000.00        Not Verified Sep-2018
## 1566   10+ years            OWN   78000.00             Verified Sep-2018
## 1575     7 years           RENT   41000.00        Not Verified Sep-2018
## 1620                        OWN   35000.00             Verified Aug-2018
## 1632     8 years           RENT  160000.00     Source Verified Aug-2018
## 1661     5 years           RENT   90000.00     Source Verified Aug-2018
## 1666   10+ years       MORTGAGE  350000.00             Verified Aug-2018
## 1679     7 years       MORTGAGE   55000.00     Source Verified Aug-2018
## 1686    < 1 year       MORTGAGE  168000.00        Not Verified Aug-2018
## 1688   10+ years           RENT   67000.00        Not Verified Aug-2018
## 1726   10+ years       MORTGAGE   50000.00        Not Verified Aug-2018
## 1738     2 years            OWN   65000.00        Not Verified Aug-2018
## 1744     7 years           RENT   49000.00        Not Verified Aug-2018
## 1750   10+ years       MORTGAGE   55000.00     Source Verified Aug-2018
## 1754     7 years            OWN   42000.00        Not Verified Aug-2018
## 1762   10+ years       MORTGAGE   70000.00             Verified Aug-2018
## 1809     2 years       MORTGAGE   29000.00             Verified Aug-2018
## 1811     7 years       MORTGAGE  125000.00     Source Verified Aug-2018
## 1819   10+ years       MORTGAGE   46000.00        Not Verified Aug-2018
## 1880    < 1 year           RENT   46000.00     Source Verified Aug-2018
## 1881   10+ years       MORTGAGE   69000.00             Verified Aug-2018
## 1894   10+ years       MORTGAGE   70000.00     Source Verified Aug-2018
## 1900    < 1 year       MORTGAGE   38000.00        Not Verified Aug-2018
## 1915   10+ years       MORTGAGE   72000.00        Not Verified Aug-2018
## 1919     4 years       MORTGAGE   51000.00        Not Verified Aug-2018
## 1942     4 years           RENT   44000.00        Not Verified Aug-2018
## 1943   10+ years       MORTGAGE  136400.00     Source Verified Aug-2018
## 1958     9 years            OWN   94000.00     Source Verified Aug-2018
## 1991   10+ years       MORTGAGE   55000.00     Source Verified Aug-2018
## 1994     9 years            OWN   40000.00     Source Verified Aug-2018
## 1997     6 years       MORTGAGE   90000.00     Source Verified Aug-2018
## 2001     4 years       MORTGAGE  130000.00        Not Verified Aug-2018
## 2013     5 years           RENT  185000.00     Source Verified Aug-2018
## 2015   10+ years       MORTGAGE   63276.00        Not Verified Aug-2018
## 2018   10+ years       MORTGAGE   80000.00     Source Verified Aug-2018
## 2050     3 years       MORTGAGE   37440.00     Source Verified Aug-2018
## 2074     5 years       MORTGAGE   73000.00        Not Verified Aug-2018
## 2077    < 1 year       MORTGAGE   45000.00     Source Verified Aug-2018
## 2092   10+ years           RENT   62000.00     Source Verified Aug-2018
## 2161     9 years           RENT  150000.00     Source Verified Aug-2018
## 2165      1 year           RENT  100000.00     Source Verified Aug-2018
## 2170   10+ years       MORTGAGE   70000.00             Verified Aug-2018
## 2171   10+ years       MORTGAGE   60000.00        Not Verified Aug-2018
## 2172   10+ years       MORTGAGE   92000.00        Not Verified Aug-2018
## 2192     2 years       MORTGAGE  200000.00     Source Verified Aug-2018
## 2194   10+ years       MORTGAGE   45000.00             Verified Aug-2018
## 2196                       RENT  132400.00        Not Verified Aug-2018
## 2248     4 years           RENT   32000.00     Source Verified Aug-2018
## 2253   10+ years       MORTGAGE  100000.00     Source Verified Aug-2018
## 2254     4 years       MORTGAGE   35000.00     Source Verified Aug-2018
## 2257   10+ years           RENT   85000.00        Not Verified Aug-2018
## 2263     8 years       MORTGAGE   60000.00             Verified Aug-2018
## 2277     5 years           RENT   75600.00        Not Verified Aug-2018
## 2289   10+ years           RENT   70000.00        Not Verified Aug-2018
## 2303     8 years            OWN   82000.00        Not Verified Aug-2018
## 2312   10+ years       MORTGAGE  120000.00             Verified Aug-2018
## 2318     3 years       MORTGAGE   60000.00     Source Verified Aug-2018
## 2320   10+ years           RENT  100000.00     Source Verified Aug-2018
## 2326     2 years           RENT   47698.00     Source Verified Aug-2018
## 2328      1 year           RENT   65000.00        Not Verified Aug-2018
## 2341      1 year           RENT   45760.00     Source Verified Aug-2018
## 2348   10+ years           RENT  124000.00        Not Verified Aug-2018
## 2370     7 years       MORTGAGE   55000.00     Source Verified Aug-2018
## 2376     3 years       MORTGAGE  105000.00             Verified Aug-2018
## 2382   10+ years           RENT  104000.00        Not Verified Aug-2018
## 2385   10+ years       MORTGAGE   42000.00             Verified Aug-2018
## 2406    < 1 year           RENT   65000.00        Not Verified Aug-2018
## 2409     4 years           RENT   72000.00        Not Verified Aug-2018
## 2421     8 years       MORTGAGE   80000.00     Source Verified Aug-2018
## 2456   10+ years            OWN   44000.00     Source Verified Jul-2018
## 2462    < 1 year           RENT  113000.00        Not Verified Aug-2018
## 2476   10+ years           RENT   86000.00     Source Verified Jul-2018
## 2481   10+ years       MORTGAGE   45000.00     Source Verified Jul-2018
## 2488   10+ years       MORTGAGE   93000.00             Verified Jul-2018
## 2496   10+ years       MORTGAGE  172000.00        Not Verified Jul-2018
## 2520   10+ years       MORTGAGE  125000.00             Verified Jul-2018
## 2531     5 years       MORTGAGE  220000.00     Source Verified Jul-2018
## 2541      1 year           RENT   86500.00        Not Verified Jul-2018
## 2544      1 year       MORTGAGE   36000.00     Source Verified Jul-2018
## 2563     3 years       MORTGAGE  156000.00     Source Verified Jul-2018
## 2568   10+ years           RENT   54975.00             Verified Jul-2018
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## 2580     3 years           RENT   60000.00            Verified Jul-2018
## 2599   10+ years       MORTGAGE   72000.00            Verified Jul-2018
## 2600   10+ years           RENT  100000.00     Source Verified Jul-2018
## 2602   10+ years       MORTGAGE   80000.00            Verified Jul-2018
## 2605   10+ years       MORTGAGE  120000.00     Source Verified Jul-2018
## 2615   10+ years       MORTGAGE   68000.00        Not Verified Jul-2018
## 2620   10+ years       MORTGAGE   40000.00        Not Verified Jul-2018
## 2623   10+ years            OWN   55000.00        Not Verified Jul-2018
## 2651      1 year       MORTGAGE   77000.00     Source Verified Jul-2018
## 2655    < 1 year           RENT   38300.00     Source Verified Jul-2018
## 2659   10+ years       MORTGAGE   52790.00            Verified Jul-2018
## 2660                   MORTGAGE  100000.00            Verified Jul-2018
## 2663                       RENT   36000.00        Not Verified Jul-2018
## 2667     8 years       MORTGAGE   84000.00     Source Verified Jul-2018
## 2672     2 years           RENT   90000.00     Source Verified Jul-2018
## 2677   10+ years           RENT   64000.00        Not Verified Jul-2018
## 2690   10+ years            OWN   51200.00     Source Verified Jul-2018
## 2695     8 years       MORTGAGE   50000.00        Not Verified Jul-2018
## 2702     5 years       MORTGAGE   71000.00     Source Verified Jul-2018
## 2710                   MORTGAGE   88320.00        Not Verified Jul-2018
## 2738      1 year           RENT  100000.00            Verified Jul-2018
## 2742   10+ years       MORTGAGE  141000.00        Not Verified Jul-2018
## 2745     7 years           RENT   87000.00        Not Verified Jul-2018
## 2773   10+ years       MORTGAGE   65000.00     Source Verified Jul-2018
## 2787   10+ years       MORTGAGE  116000.00            Verified Jul-2018
## 2792                        OWN   90000.00        Not Verified Jul-2018
## 2803   10+ years           RENT   45000.00        Not Verified Jul-2018
## 2813     3 years           RENT   40000.00     Source Verified Jul-2018
## 2817     4 years       MORTGAGE   80000.00     Source Verified Jul-2018
## 2819      1 year       MORTGAGE   61444.00     Source Verified Jul-2018
## 2832                   MORTGAGE   60000.00        Not Verified Jul-2018
## 2857   10+ years       MORTGAGE   68000.00     Source Verified Jul-2018
## 2860   10+ years            OWN   32000.00        Not Verified Jul-2018
## 2865   10+ years            OWN   62000.00     Source Verified Jul-2018
## 2875     5 years           RENT   35000.00        Not Verified Jul-2018
## 2880     3 years           RENT   50000.00        Not Verified Jul-2018
## 2894     6 years       MORTGAGE   90000.00        Not Verified Jul-2018
## 2899   10+ years       MORTGAGE   63542.33            Verified Jul-2018
## 2912                   MORTGAGE   35600.00            Verified Jul-2018
## 2927                        OWN   48000.00        Not Verified Jul-2018
## 2933     3 years           RENT  100000.00     Source Verified Jul-2018
## 2947   10+ years           RENT   55000.00        Not Verified Jul-2018
## 2951     8 years       MORTGAGE  260000.00        Not Verified Jul-2018
## 2957   10+ years           RENT   88000.00     Source Verified Jul-2018
## 2961   10+ years            OWN   55000.00            Verified Jul-2018
## 2968                       RENT   61000.00     Source Verified Jul-2018
## 2971     7 years            OWN  130000.00     Source Verified Jul-2018
## 2995      1 year       MORTGAGE   56000.00        Not Verified Jul-2018
## 3032   10+ years       MORTGAGE   72000.00            Verified Jul-2018
## 3036     4 years            OWN  120000.00        Not Verified Jul-2018
## 3040   10+ years           RENT  105000.00        Not Verified Jul-2018
## 3053   10+ years           RENT  130000.00        Not Verified Jul-2018
## 3062   10+ years           RENT   39752.00        Not Verified Jul-2018
## 3067     2 years       MORTGAGE  100000.00     Source Verified Jul-2018
## 3074   10+ years            OWN   72000.00        Not Verified Jul-2018
## 3092   10+ years            OWN   80000.00            Verified Jul-2018
## 3102      1 year            OWN   45000.00     Source Verified Jul-2018
## 3119   10+ years           RENT  200000.00     Source Verified Jul-2018
## 3123   10+ years       MORTGAGE   76000.00        Not Verified Jul-2018
## 3134                   MORTGAGE   43559.00        Not Verified Jul-2018
## 3141     2 years       MORTGAGE   73000.00            Verified Jul-2018
## 3143   10+ years       MORTGAGE   76000.00     Source Verified Jul-2018
## 3173     2 years           RENT   60000.00        Not Verified Jul-2018
## 3178     3 years       MORTGAGE  100000.00        Not Verified Jul-2018
## 3186      1 year           RENT   60000.00            Verified Jul-2018
## 3204   10+ years       MORTGAGE  135000.00     Source Verified Jul-2018
## 3210                   MORTGAGE   75216.00            Verified Jul-2018
## 3211   10+ years           RENT   47000.00        Not Verified Jul-2018
## 3218     4 years           RENT   30000.00        Not Verified Jul-2018
## 3230    < 1 year           RENT   40000.00        Not Verified Jul-2018
## 3251     4 years           RENT   93000.00        Not Verified Jul-2018
## 3262     3 years       MORTGAGE  100000.00        Not Verified Jul-2018
## 3269   10+ years       MORTGAGE   48000.00            Verified Jul-2018
## 3271    < 1 year       MORTGAGE   91000.00     Source Verified Jul-2018
## 3278   10+ years       MORTGAGE  175000.00        Not Verified Jul-2018
## 3282   10+ years           RENT   64000.00        Not Verified Jul-2018
## 3302     3 years            OWN   41000.00     Source Verified Jul-2018
## 3318     8 years       MORTGAGE  120000.00        Not Verified Jul-2018
## 3323   10+ years       MORTGAGE   95000.00            Verified Jul-2018
## 3367   10+ years            OWN   67000.00     Source Verified Jul-2018
## 3376      1 year           RENT   76000.00        Not Verified Jul-2018
## 3392     6 years            OWN   55000.00        Not Verified Jul-2018
## 3409   10+ years       MORTGAGE  120000.00            Verified Jul-2018
## 3416    < 1 year           RENT   30000.00     Source Verified Jul-2018
## 3436     2 years       MORTGAGE   62000.00        Not Verified Jul-2018
## 3441   10+ years            OWN   59500.00            Verified Jul-2018
## 3472     9 years           RENT   63000.00     Source Verified Jul-2018
## 3485   10+ years       MORTGAGE   84000.00            Verified Jul-2018
## 3492   10+ years       MORTGAGE   42000.00        Not Verified Jul-2018
## 3494   10+ years           RENT   65000.00            Verified Jul-2018
## 3501     3 years           RENT   50000.00     Source Verified Jun-2018
## 3506                   MORTGAGE   39972.00        Not Verified Jun-2018
## 3530    < 1 year           RENT  120000.00        Not Verified Jun-2018
## 3565     7 years       MORTGAGE  103000.00        Not Verified Jun-2018
## 3577     2 years       MORTGAGE  143000.00        Not Verified Jun-2018
## 3613   10+ years       MORTGAGE   87000.00        Not Verified Jun-2018
## 3617    < 1 year       MORTGAGE   90000.00     Source Verified Jun-2018
## 3639   10+ years       MORTGAGE  120000.00     Source Verified Jun-2018
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## 3657   10+ years            OWN  100000.00     Source Verified Jun-2018
## 3668   10+ years       MORTGAGE  103000.00        Not Verified Jun-2018
## 3686   10+ years       MORTGAGE  110000.00     Source Verified Jun-2018
## 3698    2 years        MORTGAGE   59000.00            Verified Jun-2018
## 3704    5 years            RENT   45000.00            Verified Jun-2018
## 3707                        OWN   28920.00        Not Verified Jun-2018
## 3780    5 years        MORTGAGE  120000.00        Not Verified Jun-2018
## 3790    3 years        MORTGAGE  152500.00     Source Verified Jun-2018
## 3794    4 years        MORTGAGE  140000.00            Verified Jun-2018
## 3796    4 years        MORTGAGE   55000.00     Source Verified Jun-2018
## 3822   10+ years        MORTGAGE  100000.00            Verified Jun-2018
## 3825    4 years             OWN  182500.00        Not Verified Jun-2018
## 3861   10+ years        MORTGAGE   93000.00     Source Verified Jun-2018
## 3887   10+ years        MORTGAGE   60600.00            Verified Jun-2018
## 3921    2 years            RENT   70000.00        Not Verified Jun-2018
## 3922   10+ years        MORTGAGE   49000.00        Not Verified Jun-2018
## 3926    2 years        MORTGAGE   70000.00     Source Verified Jun-2018
## 3943   10+ years        MORTGAGE   95000.00        Not Verified Jun-2018
## 3954   10+ years            RENT   70000.00     Source Verified Jun-2018
## 3964   10+ years             OWN   55000.00        Not Verified Jun-2018
## 3976   10+ years            RENT   65000.00        Not Verified Jun-2018
## 3984    4 years        MORTGAGE   55000.00     Source Verified Jun-2018
## 4006    < 1 year            RENT   80000.00     Source Verified Jun-2018
## 4010    5 years            RENT   39709.00        Not Verified Jun-2018
## 4028   10+ years        MORTGAGE   94000.00     Source Verified Jun-2018
## 4043    8 years        MORTGAGE   60000.00        Not Verified Jun-2018
## 4045    3 years            RENT   59000.00        Not Verified Jun-2018
## 4053    6 years        MORTGAGE   65000.00     Source Verified Jun-2018
## 4055    9 years        MORTGAGE  120000.00            Verified Jun-2018
## 4057    6 years        MORTGAGE   55000.00            Verified Jun-2018
## 4098    6 years        MORTGAGE  240000.00            Verified Jun-2018
## 4100    5 years        MORTGAGE  212000.00        Not Verified Jun-2018
## 4113                   MORTGAGE   90000.00        Not Verified Jun-2018
## 4119    6 years        MORTGAGE   60000.00        Not Verified Jun-2018
## 4136                   MORTGAGE   63000.00            Verified Jun-2018
## 4138     1 year            RENT   49500.00            Verified Jun-2018
## 4150   10+ years            RENT   97000.00     Source Verified Jun-2018
## 4169    7 years        MORTGAGE  150000.00            Verified Jun-2018
## 4173   10+ years        MORTGAGE   95000.00     Source Verified Jun-2018
## 4193    5 years             OWN   65000.00     Source Verified Jun-2018
## 4198   10+ years            RENT   70000.00     Source Verified Jun-2018
## 4203   10+ years        MORTGAGE   49000.00            Verified Jun-2018
## 4211                        OWN  140000.00        Not Verified Jun-2018
## 4220    < 1 year            RENT   30000.00        Not Verified Jun-2018
## 4229    3 years        MORTGAGE   90000.00     Source Verified Jun-2018
## 4247    3 years            RENT   35000.00     Source Verified Jun-2018
## 4273   10+ years        MORTGAGE   70000.00     Source Verified Jun-2018
## 4274    2 years        MORTGAGE   42000.00            Verified Jun-2018
## 4284    2 years             OWN  100000.00     Source Verified Jun-2018
## 4301     1 year            RENT   70000.00     Source Verified Jun-2018
## 4325                   MORTGAGE   76200.00        Not Verified Jun-2018
## 4349    2 years        MORTGAGE   82220.00        Not Verified Jun-2018
## 4350    2 years        MORTGAGE   98000.00     Source Verified Jun-2018
## 4370    3 years        MORTGAGE   49500.00        Not Verified Jun-2018
## 4372    2 years        MORTGAGE   41000.00     Source Verified Jun-2018
## 4388                   MORTGAGE   18630.00            Verified Jun-2018
## 4390                   MORTGAGE   69000.00        Not Verified Jun-2018
## 4400    7 years        MORTGAGE   69000.00        Not Verified Jun-2018
## 4401    6 years            RENT   68000.00        Not Verified Jun-2018
## 4402    8 years            RENT  150000.00     Source Verified Jun-2018
## 4418    6 years        MORTGAGE  315000.00     Source Verified Jun-2018
## 4421     1 year            RENT  165000.00        Not Verified Jun-2018
## 4431    4 years        MORTGAGE   38000.00            Verified Jun-2018
## 4440   10+ years            RENT   48000.00     Source Verified Jun-2018
## 4458    6 years        MORTGAGE   40000.00     Source Verified Jun-2018
## 4461   10+ years            RENT   50000.00            Verified Jun-2018
## 4469   10+ years            RENT   49000.00     Source Verified Jun-2018
## 4472    < 1 year            RENT   53113.51     Source Verified Jun-2018
## 4479    3 years        MORTGAGE  230000.00     Source Verified Jun-2018
## 4483   10+ years             OWN   75000.00     Source Verified Jun-2018
## 4503    8 years        MORTGAGE  105000.00     Source Verified Jun-2018
## 4519   10+ years        MORTGAGE  125000.00        Not Verified Jun-2018
## 4522   10+ years            RENT   53000.00        Not Verified Jun-2018
## 4525    7 years        MORTGAGE   65000.00            Verified Jun-2018
## 4528   10+ years             OWN   75000.00     Source Verified Jun-2018
## 4538   10+ years        MORTGAGE   75000.00     Source Verified Jun-2018
## 4548    3 years             OWN   81900.00            Verified Jun-2018
## 4554   10+ years             OWN   53000.00        Not Verified Jun-2018
## 4557   10+ years        MORTGAGE   52000.00     Source Verified Jun-2018
## 4569     1 year            RENT   85000.00        Not Verified Jun-2018
## 4576   10+ years        MORTGAGE   75000.00     Source Verified Jun-2018
## 4590                        OWN   85000.00        Not Verified Jun-2018
## 4594    3 years            RENT  450000.00            Verified Jun-2018
## 4604   10+ years            RENT   92000.00            Verified Jun-2018
## 4622    3 years            RENT   36000.00     Source Verified Jun-2018
## 4626     1 year            RENT   80000.00        Not Verified Jun-2018
## 4629    5 years             OWN   46000.00        Not Verified Jun-2018
## 4633    8 years        MORTGAGE  120000.00     Source Verified Jun-2018
## 4646    5 years        MORTGAGE   65000.00     Source Verified Jun-2018
## 4650    2 years        MORTGAGE   60000.00        Not Verified Jun-2018
## 4660    7 years            RENT   69500.00        Not Verified Jun-2018
## 4673   10+ years             OWN   60000.00            Verified May-2018
## 4684   10+ years        MORTGAGE   64000.00        Not Verified Jun-2018
## 4699   10+ years        MORTGAGE   91000.00     Source Verified Jun-2018
## 4720   10+ years        MORTGAGE  108000.00     Source Verified May-2018
## 4724                        OWN   32000.00     Source Verified May-2018
## 4728    5 years            RENT   26000.00            Verified May-2018
## 4751   10+ years            RENT   40000.00     Source Verified May-2018
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## 4778    < 1 year       MORTGAGE   91000.00     Source Verified May-2018
## 4812   10+ years       MORTGAGE  145000.00     Source Verified Jun-2018
## 4820                       RENT   22164.00            Verified May-2018
## 4835    4 years        MORTGAGE   39000.00            Verified Jun-2018
## 4843                   MORTGAGE   80000.00        Not Verified May-2018
## 4876   10+ years       MORTGAGE   60000.00     Source Verified May-2018
## 4882   10+ years       MORTGAGE  120000.00        Not Verified May-2018
## 4895    < 1 year           RENT   95000.00     Source Verified May-2018
## 4907                   MORTGAGE   50000.00        Not Verified May-2018
## 4912    2 years            RENT   86000.00        Not Verified May-2018
## 4941   10+ years       MORTGAGE   80000.00     Source Verified May-2018
## 4952    3 years        MORTGAGE  131000.00            Verified May-2018
## 4954    2 years             OWN   53000.00     Source Verified May-2018
## 4956    5 years        MORTGAGE   45000.00            Verified May-2018
## 4957   10+ years             OWN   75000.00        Not Verified May-2018
## 4959   10+ years           RENT  120000.00     Source Verified May-2018
## 4960   10+ years       MORTGAGE   80000.00     Source Verified May-2018
## 4987   10+ years           RENT   50000.00     Source Verified May-2018
## 5022                        OWN   22000.00     Source Verified May-2018
## 5027    5 years            RENT   81800.00     Source Verified May-2018
## 5029    8 years        MORTGAGE   90000.00        Not Verified May-2018
## 5053    6 years        MORTGAGE  105000.00     Source Verified May-2018
## 5054    4 years        MORTGAGE   90000.00     Source Verified May-2018
## 5055   10+ years       MORTGAGE  120000.00        Not Verified May-2018
## 5066    2 years        MORTGAGE  235000.00     Source Verified May-2018
## 5069   10+ years       MORTGAGE  130000.00        Not Verified May-2018
## 5077    8 years        MORTGAGE   63000.00            Verified May-2018
## 5091   10+ years       MORTGAGE   50000.00        Not Verified May-2018
## 5110   10+ years       MORTGAGE   42000.00     Source Verified May-2018
## 5114     1 year             OWN   70000.00     Source Verified May-2018
## 5161    5 years        MORTGAGE  143000.00            Verified May-2018
## 5215     1 year        MORTGAGE   50000.00     Source Verified May-2018
## 5216   10+ years             OWN  125000.00        Not Verified May-2018
## 5219   10+ years       MORTGAGE   95000.00            Verified May-2018
## 5251    4 years        MORTGAGE   85000.00        Not Verified May-2018
## 5254   10+ years             OWN   90000.00            Verified May-2018
## 5258    5 years        MORTGAGE   86000.00            Verified May-2018
## 5269     1 year        MORTGAGE   78000.00        Not Verified May-2018
## 5277    4 years            RENT   54000.00     Source Verified May-2018
## 5285    6 years            RENT   82000.00     Source Verified May-2018
## 5291   10+ years             OWN  200000.00            Verified May-2018
## 5292    2 years        MORTGAGE   54000.00     Source Verified May-2018
## 5340   10+ years       MORTGAGE   42000.00            Verified May-2018
## 5341   10+ years             OWN   35000.00     Source Verified May-2018
## 5347    3 years        MORTGAGE   65000.00            Verified May-2018
## 5373    < 1 year       MORTGAGE  125000.00        Not Verified May-2018
## 5382   10+ years       MORTGAGE  136000.00     Source Verified May-2018
## 5394    5 years            RENT  132600.00        Not Verified May-2018
## 5432    4 years            RENT   50000.00     Source Verified May-2018
## 5443   10+ years            RENT   70000.00        Not Verified May-2018
## 5445   10+ years            RENT   68000.00            Verified May-2018
## 5454   10+ years       MORTGAGE   89500.00        Not Verified May-2018
## 5464     1 year        MORTGAGE   56500.00     Source Verified May-2018
## 5479    5 years        MORTGAGE  120000.00        Not Verified May-2018
## 5503    4 years            RENT  200000.00            Verified May-2018
## 5514     1 year             OWN   65000.00        Not Verified May-2018
## 5517     1 year            RENT   41470.00     Source Verified May-2018
## 5545   10+ years       MORTGAGE  185000.00        Not Verified May-2018
## 5549    8 years        MORTGAGE  113813.33        Not Verified May-2018
## 5558   10+ years       MORTGAGE  164000.00        Not Verified May-2018
## 5569    8 years        MORTGAGE   60000.00        Not Verified May-2018
## 5590    4 years        MORTGAGE   78800.00        Not Verified May-2018
## 5592   10+ years       MORTGAGE   75366.00            Verified May-2018
## 5608   10+ years           RENT  120000.00        Not Verified May-2018
## 5609    3 years        MORTGAGE   66000.00        Not Verified May-2018
## 5611    2 years             OWN  120000.00            Verified May-2018
## 5624   10+ years            RENT   40000.00     Source Verified May-2018
## 5651    3 years            RENT   50700.00        Not Verified May-2018
## 5673    < 1 year           RENT   78000.00        Not Verified May-2018
## 5692    8 years        MORTGAGE   70000.00     Source Verified May-2018
## 5694    7 years            RENT   51000.00        Not Verified May-2018
## 5716    3 years            RENT   72500.00     Source Verified May-2018
## 5736    4 years        MORTGAGE   55000.00     Source Verified May-2018
## 5745   10+ years       MORTGAGE   48000.00        Not Verified May-2018
## 5777    4 years            RENT   48000.00     Source Verified May-2018
## 5789    4 years        MORTGAGE  105000.00        Not Verified May-2018
## 5822   10+ years       MORTGAGE   69000.00        Not Verified May-2018
## 5831    3 years        MORTGAGE   80000.00        Not Verified May-2018
## 5843   10+ years       MORTGAGE   90000.00        Not Verified May-2018
## 5863   10+ years       MORTGAGE  125000.00     Source Verified May-2018
## 5865   10+ years       MORTGAGE  173000.00     Source Verified May-2018
## 5868    3 years             OWN   32160.00     Source Verified May-2018
## 5870    6 years            RENT   42000.00        Not Verified May-2018
## 5882   10+ years       MORTGAGE  165000.00        Not Verified May-2018
## 5883   10+ years       MORTGAGE   96000.00        Not Verified May-2018
## 5888    < 1 year           RENT   60000.00     Source Verified May-2018
## 5899   10+ years       MORTGAGE  113000.00        Not Verified May-2018
## 5902   10+ years            RENT   71000.00     Source Verified May-2018
## 5903   10+ years       MORTGAGE   86000.00            Verified May-2018
## 5904    5 years        MORTGAGE   99000.00     Source Verified May-2018
## 5906                   MORTGAGE   92400.00        Not Verified May-2018
## 5907    4 years        MORTGAGE   48000.00        Not Verified May-2018
## 5932    8 years            RENT   58000.00     Source Verified May-2018
## 5933   10+ years            RENT  115000.00        Not Verified May-2018
## 5940    3 years        MORTGAGE   73602.00     Source Verified May-2018
## 5942    5 years            RENT   86000.00     Source Verified May-2018
## 5946     1 year        MORTGAGE   65000.00            Verified May-2018
## 5955   10+ years       MORTGAGE   75000.00        Not Verified May-2018
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## 5967   10+ years       MORTGAGE  118000.00        Not Verified May-2018
## 5973   10+ years       MORTGAGE   39000.00        Not Verified May-2018
## 5989     4 years           RENT   35000.00     Source Verified May-2018
## 5999     4 years           RENT   78000.00            Verified May-2018
## 6004   10+ years       MORTGAGE   82000.00     Source Verified May-2018
## 6024   10+ years           RENT  140000.00     Source Verified May-2018
## 6037     9 years           RENT   16600.00     Source Verified May-2018
## 6038      1 year       MORTGAGE   55000.00        Not Verified May-2018
## 6041   10+ years       MORTGAGE   56000.00     Source Verified May-2018
## 6047     8 years       MORTGAGE   60000.00            Verified May-2018
## 6048                       RENT   40000.00     Source Verified May-2018
## 6052   10+ years       MORTGAGE   42000.00     Source Verified May-2018
## 6087     7 years       MORTGAGE   68000.00     Source Verified May-2018
## 6102     3 years           RENT   65000.00     Source Verified May-2018
## 6132   10+ years       MORTGAGE   75000.00        Not Verified May-2018
## 6139     3 years           RENT   62000.00     Source Verified May-2018
## 6147   10+ years       MORTGAGE  120000.00            Verified May-2018
## 6154     7 years           RENT  100000.00        Not Verified May-2018
## 6155   10+ years       MORTGAGE  141000.00     Source Verified May-2018
## 6156     5 years            OWN   87550.00        Not Verified May-2018
## 6181     3 years       MORTGAGE   53352.00            Verified May-2018
## 6186     2 years           RENT   37000.00            Verified May-2018
## 6214   10+ years       MORTGAGE   65000.00            Verified May-2018
## 6217   10+ years       MORTGAGE  100000.00     Source Verified May-2018
## 6228   10+ years       MORTGAGE   70000.00        Not Verified May-2018
## 6232     4 years           RENT  130000.00        Not Verified May-2018
## 6243     2 years       MORTGAGE  130000.00        Not Verified May-2018
## 6248   10+ years       MORTGAGE  108000.00     Source Verified May-2018
## 6270    < 1 year           RENT   38000.00            Verified May-2018
## 6274   10+ years            OWN   90000.00        Not Verified May-2018
## 6284   10+ years       MORTGAGE   72000.00            Verified May-2018
## 6309   10+ years            OWN  190000.00     Source Verified May-2018
## 6310     4 years       MORTGAGE   82000.00            Verified May-2018
## 6317   10+ years       MORTGAGE   64000.00            Verified May-2018
## 6361                   MORTGAGE   59777.00        Not Verified May-2018
## 6366    < 1 year       MORTGAGE   45000.00        Not Verified Apr-2018
## 6370     3 years           RENT   27379.20            Verified May-2018
## 6393   10+ years       MORTGAGE  161000.00     Source Verified Apr-2018
## 6429   10+ years            OWN   60000.00        Not Verified Apr-2018
## 6448   10+ years       MORTGAGE   55000.00     Source Verified May-2018
## 6469     6 years           RENT   38000.00        Not Verified Apr-2018
## 6481   10+ years           RENT   70000.00     Source Verified Apr-2018
## 6485    < 1 year           RENT  118000.00            Verified Apr-2018
## 6492    < 1 year       MORTGAGE   78000.00        Not Verified Apr-2018
## 6493     6 years       MORTGAGE   78000.00     Source Verified May-2018
## 6499     4 years           RENT   85000.00            Verified Apr-2018
## 6500     9 years       MORTGAGE  105000.00     Source Verified Apr-2018
## 6510   10+ years           RENT   90000.00        Not Verified Apr-2018
## 6522   10+ years            OWN  110000.00        Not Verified May-2018
## 6528   10+ years       MORTGAGE  264000.00     Source Verified Apr-2018
## 6536   10+ years       MORTGAGE   94000.00            Verified Apr-2018
## 6550     7 years       MORTGAGE   52000.00     Source Verified May-2018
## 6555   10+ years       MORTGAGE   46000.00            Verified Apr-2018
## 6559     3 years           RENT   85000.00        Not Verified Apr-2018
## 6591     4 years           RENT   34000.00            Verified Apr-2018
## 6641      1 year           RENT  125000.00        Not Verified Apr-2018
## 6644                   MORTGAGE   61000.00            Verified Apr-2018
## 6646     3 years           RENT   78000.00     Source Verified Apr-2018
## 6648   10+ years       MORTGAGE  130000.00     Source Verified Apr-2018
## 6682   10+ years       MORTGAGE   60000.00        Not Verified Apr-2018
## 6699   10+ years       MORTGAGE   60500.00        Not Verified Apr-2018
## 6700   10+ years           RENT   83000.00     Source Verified Apr-2018
## 6704    < 1 year       MORTGAGE   85000.00        Not Verified Apr-2018
## 6716      1 year            OWN  165000.00     Source Verified Apr-2018
## 6719     7 years            OWN  196000.00        Not Verified Apr-2018
## 6724     5 years       MORTGAGE   45000.00     Source Verified Apr-2018
## 6737   10+ years       MORTGAGE   92000.00     Source Verified Apr-2018
## 6795     5 years           RENT   36000.00            Verified Apr-2018
## 6813     5 years           RENT   80000.00        Not Verified Apr-2018
## 6826      1 year           RENT  105000.00     Source Verified Apr-2018
## 6842   10+ years       MORTGAGE   40000.00        Not Verified Apr-2018
## 6852   10+ years       MORTGAGE   43000.00            Verified Apr-2018
## 6856     2 years           RENT   55000.00        Not Verified Apr-2018
## 6866     5 years           RENT   77000.00     Source Verified Apr-2018
## 6875   10+ years           RENT  117000.00        Not Verified Apr-2018
## 6901   10+ years       MORTGAGE   46000.00     Source Verified Apr-2018
## 6944   10+ years       MORTGAGE  212000.00     Source Verified Apr-2018
## 6952     4 years       MORTGAGE   70000.00     Source Verified Apr-2018
## 6968     4 years            OWN   70000.00        Not Verified Apr-2018
## 6980   10+ years       MORTGAGE   80000.00     Source Verified Apr-2018
## 6991   10+ years           RENT   50000.00        Not Verified Apr-2018
## 6992   10+ years           RENT   84000.00        Not Verified Apr-2018
## 7041   10+ years       MORTGAGE  235000.00     Source Verified Apr-2018
## 7046   10+ years       MORTGAGE  110000.00        Not Verified Apr-2018
## 7055   10+ years       MORTGAGE  225000.00     Source Verified Apr-2018
## 7070     4 years       MORTGAGE  141000.00        Not Verified Apr-2018
## 7078   10+ years       MORTGAGE   75000.00            Verified Apr-2018
## 7083     6 years       MORTGAGE   85000.00     Source Verified Apr-2018
## 7092   10+ years       MORTGAGE   88000.00     Source Verified Apr-2018
## 7093   10+ years       MORTGAGE  100000.00        Not Verified Apr-2018
## 7113     2 years           RENT   32000.00     Source Verified Apr-2018
## 7128   10+ years           RENT  150000.00        Not Verified Apr-2018
## 7140   10+ years           RENT   42000.00     Source Verified Apr-2018
## 7154   10+ years           RENT  117000.00        Not Verified Apr-2018
## 7157     5 years       MORTGAGE   65000.00        Not Verified Apr-2018
## 7170   10+ years       MORTGAGE  228000.00            Verified Apr-2018
## 7175     5 years           RENT   40700.00     Source Verified Apr-2018
## 7181     6 years            OWN  350000.00     Source Verified Apr-2018
```

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## 7194   10+ years            OWN   64000.00            Verified Apr-2018
## 7200     3 years           RENT   73000.00        Not Verified Apr-2018
## 7205   10+ years       MORTGAGE   67000.00        Not Verified Apr-2018
## 7209   10+ years       MORTGAGE   85000.00     Source Verified Apr-2018
## 7210     5 years           RENT   67000.00     Source Verified Apr-2018
## 7211   10+ years       MORTGAGE  150000.00     Source Verified Apr-2018
## 7212     7 years       MORTGAGE   95000.00     Source Verified Apr-2018
## 7246     6 years       MORTGAGE  100000.00     Source Verified Apr-2018
## 7248   10+ years           RENT   59000.00     Source Verified Apr-2018
## 7260   10+ years           RENT  130000.00        Not Verified Apr-2018
## 7264   10+ years           RENT   67000.00     Source Verified Apr-2018
## 7277   10+ years       MORTGAGE   55000.00     Source Verified Apr-2018
## 7283    < 1 year           RENT   72000.00     Source Verified Apr-2018
## 7286      1 year           RENT   65000.00     Source Verified Apr-2018
## 7300     7 years            OWN   65000.00     Source Verified Apr-2018
## 7332     2 years            OWN   30000.00        Not Verified Apr-2018
## 7348   10+ years            OWN   39000.00        Not Verified Apr-2018
## 7350     6 years       MORTGAGE   45000.00     Source Verified Apr-2018
## 7356     3 years       MORTGAGE   47202.00        Not Verified Apr-2018
## 7367                         OWN   15823.20            Verified Apr-2018
## 7368   10+ years            OWN   25000.00        Not Verified Apr-2018
## 7369     3 years           RENT   42000.00            Verified Apr-2018
## 7370   10+ years       MORTGAGE   78000.00            Verified Apr-2018
## 7376   10+ years       MORTGAGE   54600.00            Verified Apr-2018
## 7379    < 1 year           RENT   33000.00     Source Verified Apr-2018
## 7388   10+ years       MORTGAGE   73000.00            Verified Apr-2018
## 7395     6 years           RENT   36000.00     Source Verified Apr-2018
## 7398     6 years            OWN   80000.00        Not Verified Apr-2018
## 7457     8 years       MORTGAGE  152000.00            Verified Apr-2018
## 7471   10+ years       MORTGAGE  155000.00            Verified Apr-2018
## 7482     7 years       MORTGAGE  100000.00        Not Verified Apr-2018
## 7507     8 years           RENT   44000.00     Source Verified Apr-2018
## 7514     4 years            OWN   37000.00        Not Verified Apr-2018
## 7519   10+ years            OWN   66000.00     Source Verified Apr-2018
## 7525   10+ years       MORTGAGE  125000.00     Source Verified Apr-2018
## 7527     2 years           RENT   55000.00            Verified Apr-2018
## 7537   10+ years           RENT   75000.00        Not Verified Apr-2018
## 7542   10+ years       MORTGAGE  170000.00            Verified Apr-2018
## 7561     6 years           RENT   66259.00     Source Verified Apr-2018
## 7569     2 years       MORTGAGE  123000.00     Source Verified Apr-2018
## 7576   10+ years           RENT   60000.00     Source Verified Apr-2018
## 7639     7 years       MORTGAGE   89000.00     Source Verified Apr-2018
## 7640     2 years       MORTGAGE   90000.00     Source Verified Apr-2018
## 7650     3 years            OWN   66000.00     Source Verified Apr-2018
## 7652     5 years            OWN   49000.00     Source Verified Apr-2018
## 7672     2 years            OWN   95000.00        Not Verified Apr-2018
## 7673   10+ years       MORTGAGE  132000.00            Verified Apr-2018
## 7674   10+ years       MORTGAGE  390000.00            Verified Apr-2018
## 7681      1 year            OWN   49000.00        Not Verified Apr-2018
## 7683      1 year       MORTGAGE   15988.00            Verified Apr-2018
## 7685   10+ years           RENT   63000.00     Source Verified Apr-2018
## 7702   10+ years           RENT   75000.00        Not Verified Apr-2018
## 7716      1 year           RENT  115000.00        Not Verified Apr-2018
## 7717   10+ years       MORTGAGE   50000.00        Not Verified Apr-2018
## 7721   10+ years       MORTGAGE  106000.00     Source Verified Apr-2018
## 7726   10+ years       MORTGAGE   65000.00            Verified Apr-2018
## 7760     2 years           RENT   43000.00     Source Verified Apr-2018
## 7766   10+ years       MORTGAGE   45000.00            Verified Apr-2018
## 7793     7 years           RENT   49060.00     Source Verified Apr-2018
## 7802     2 years           RENT   90000.00        Not Verified Apr-2018
## 7826                   MORTGAGE   52000.00        Not Verified Apr-2018
## 7846     3 years       MORTGAGE   40000.00     Source Verified Apr-2018
## 7866     7 years       MORTGAGE  125000.00            Verified Apr-2018
## 7883     3 years       MORTGAGE   54000.00            Verified Apr-2018
## 7885    < 1 year           RENT   64000.00        Not Verified Apr-2018
## 7911                   MORTGAGE  120000.00        Not Verified Apr-2018
## 7917      1 year       MORTGAGE   89000.00            Verified Apr-2018
## 7919     3 years       MORTGAGE   91000.00     Source Verified Apr-2018
## 7922                         OWN   35000.00            Verified Apr-2018
## 7928   10+ years       MORTGAGE  200000.00     Source Verified Apr-2018
## 7939   10+ years       MORTGAGE   42000.00            Verified Apr-2018
## 7941   10+ years       MORTGAGE  275000.00        Not Verified Apr-2018
## 7947   10+ years       MORTGAGE   91393.54     Source Verified Apr-2018
## 7955     3 years           RENT   67000.00     Source Verified Apr-2018
## 7968    < 1 year           RENT   37000.00        Not Verified Apr-2018
## 7969                         OWN   75000.00     Source Verified Apr-2018
## 7974     3 years       MORTGAGE   73000.00        Not Verified Apr-2018
## 7982      1 year       MORTGAGE   43800.00     Source Verified Apr-2018
## 7995     3 years           RENT   50000.00            Verified Apr-2018
## 8000     9 years           RENT   38000.00        Not Verified Apr-2018
## 8005   10+ years       MORTGAGE   65436.80            Verified Apr-2018
## 8007   10+ years       MORTGAGE   99000.00     Source Verified Apr-2018
## 8019   10+ years            OWN  105000.00        Not Verified Apr-2018
## 8021   10+ years            OWN   27000.00        Not Verified Apr-2018
## 8039    < 1 year            OWN   66000.00            Verified Apr-2018
## 8055   10+ years       MORTGAGE  119000.00            Verified Apr-2018
## 8061   10+ years       MORTGAGE  162000.00     Source Verified Apr-2018
## 8066     8 years           RENT   39000.00        Not Verified Apr-2018
## 8093   10+ years           RENT   59000.00        Not Verified Apr-2018
## 8095     3 years       MORTGAGE  110000.00     Source Verified Apr-2018
## 8100                   MORTGAGE   70000.00            Verified Apr-2018
## 8142     7 years       MORTGAGE   62000.00     Source Verified Apr-2018
## 8149     3 years       MORTGAGE   85000.00        Not Verified Apr-2018
## 8152   10+ years       MORTGAGE   75000.00        Not Verified Apr-2018
## 8156      1 year           RENT   42000.00     Source Verified Apr-2018
## 8165     2 years       MORTGAGE  100000.00            Verified Apr-2018
## 8201     2 years            OWN  113000.00     Source Verified Apr-2018
## 8203     4 years           RENT   65000.00            Verified Apr-2018
```

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## 8209     7 years            OWN   31000.00     Source Verified Apr-2018
## 8224     5 years       MORTGAGE  197000.00     Source Verified Apr-2018
## 8246     5 years            OWN   90000.00            Verified Mar-2018
## 8256   10+ years           RENT   54000.00        Not Verified Mar-2018
## 8267     6 years           RENT   70000.00        Not Verified Mar-2018
## 8272   10+ years       MORTGAGE   80000.00        Not Verified Mar-2018
## 8284     3 years           RENT   55000.00     Source Verified Mar-2018
## 8295   10+ years       MORTGAGE   65557.00     Source Verified Mar-2018
## 8316     7 years           RENT   90000.00     Source Verified Mar-2018
## 8336     5 years            OWN   84000.00            Verified Mar-2018
## 8355                        OWN  100000.00        Not Verified Mar-2018
## 8360      1 year       MORTGAGE  122000.00     Source Verified Mar-2018
## 8364   10+ years       MORTGAGE   67000.00     Source Verified Mar-2018
## 8379   10+ years           RENT   60000.00     Source Verified Mar-2018
## 8391   10+ years           RENT   30000.00            Verified Mar-2018
## 8392      1 year           RENT   65000.00     Source Verified Mar-2018
## 8396   10+ years            OWN   66000.00            Verified Mar-2018
## 8437     5 years       MORTGAGE   87000.00     Source Verified Mar-2018
## 8459     7 years           RENT   68000.00     Source Verified Mar-2018
## 8462   10+ years           RENT   76000.00        Not Verified Mar-2018
## 8477   10+ years            OWN   51000.00     Source Verified Mar-2018
## 8482     2 years       MORTGAGE   45064.00            Verified Mar-2018
## 8490     2 years            OWN  150000.00     Source Verified Mar-2018
## 8491     3 years       MORTGAGE   85000.00     Source Verified Mar-2018
## 8496     4 years            OWN   70500.00            Verified Mar-2018
## 8498     6 years       MORTGAGE   52000.00     Source Verified Mar-2018
## 8516   10+ years       MORTGAGE  152000.00            Verified Mar-2018
## 8518     3 years            OWN  175000.00     Source Verified Mar-2018
## 8522   10+ years       MORTGAGE   48000.00     Source Verified Mar-2018
## 8526   10+ years       MORTGAGE  315000.00     Source Verified Mar-2018
## 8529   10+ years       MORTGAGE   68000.00     Source Verified Mar-2018
## 8537      1 year           RENT  108200.00        Not Verified Mar-2018
## 8552   10+ years       MORTGAGE   34000.00            Verified Mar-2018
## 8585     5 years       MORTGAGE   62000.00            Verified Mar-2018
## 8602   10+ years       MORTGAGE   68000.00            Verified Mar-2018
## 8627     5 years           RENT   73000.00        Not Verified Mar-2018
## 8647      1 year       MORTGAGE   46000.00     Source Verified Mar-2018
## 8674      1 year       MORTGAGE   84000.00            Verified Mar-2018
## 8709     7 years       MORTGAGE   60300.00     Source Verified Mar-2018
## 8711   10+ years       MORTGAGE   43514.00        Not Verified Mar-2018
## 8712     9 years            OWN   55000.00            Verified Mar-2018
## 8721     2 years       MORTGAGE   41000.00            Verified Mar-2018
## 8735     9 years            OWN   50000.00            Verified Mar-2018
## 8767     6 years           RENT   75000.00     Source Verified Mar-2018
## 8783    < 1 year            OWN  148000.00            Verified Mar-2018
## 8795    < 1 year       MORTGAGE   60000.00     Source Verified Mar-2018
## 8804   10+ years       MORTGAGE  120000.00        Not Verified Mar-2018
## 8824   10+ years           RENT  110000.00        Not Verified Mar-2018
## 8835      1 year           RENT   60000.00        Not Verified Mar-2018
## 8862     9 years       MORTGAGE   80000.00            Verified Mar-2018
## 8864   10+ years       MORTGAGE   97500.00            Verified Mar-2018
## 8890     7 years       MORTGAGE   90000.00            Verified Mar-2018
## 8895      1 year            OWN   93844.00        Not Verified Mar-2018
## 8906   10+ years       MORTGAGE  125000.00        Not Verified Mar-2018
## 8944     9 years           RENT   85000.00        Not Verified Mar-2018
## 8946                        OWN   36000.00        Not Verified Mar-2018
## 8953     4 years       MORTGAGE   41000.00            Verified Mar-2018
## 8963    < 1 year           RENT   55000.00            Verified Mar-2018
## 8966     4 years           RENT   70000.00        Not Verified Mar-2018
## 8977   10+ years       MORTGAGE  144000.00        Not Verified Mar-2018
## 9042     5 years           RENT   50000.00     Source Verified Mar-2018
## 9047      1 year       MORTGAGE   95000.00     Source Verified Mar-2018
## 9048   10+ years       MORTGAGE   96274.15        Not Verified Mar-2018
## 9056     5 years       MORTGAGE   90000.00     Source Verified Mar-2018
## 9057     7 years           RENT   74000.00        Not Verified Mar-2018
## 9058     6 years       MORTGAGE  160000.00     Source Verified Mar-2018
## 9083   10+ years           RENT  115000.00        Not Verified Mar-2018
## 9091   10+ years       MORTGAGE  100000.00            Verified Mar-2018
## 9096   10+ years           RENT   65000.00        Not Verified Mar-2018
## 9098     3 years           RENT   47000.00        Not Verified Mar-2018
## 9101   10+ years       MORTGAGE   85000.00     Source Verified Mar-2018
## 9103     5 years       MORTGAGE   48000.00     Source Verified Mar-2018
## 9140   10+ years       MORTGAGE   78500.00     Source Verified Mar-2018
## 9154   10+ years       MORTGAGE   90000.00        Not Verified Mar-2018
## 9160    < 1 year           RENT   50820.00        Not Verified Mar-2018
## 9163     2 years           RENT   45000.00     Source Verified Mar-2018
## 9202     3 years       MORTGAGE   52000.00     Source Verified Mar-2018
## 9240   10+ years       MORTGAGE   75000.00     Source Verified Mar-2018
## 9243   10+ years            OWN  121000.00     Source Verified Mar-2018
## 9245   10+ years           RENT   53000.00        Not Verified Mar-2018
## 9254     4 years           RENT  115000.00        Not Verified Mar-2018
## 9286   10+ years       MORTGAGE  130000.00            Verified Mar-2018
## 9294     9 years           RENT   35000.00            Verified Mar-2018
## 9321                        RENT   55000.00        Not Verified Mar-2018
## 9336     3 years       MORTGAGE   54000.00        Not Verified Mar-2018
## 9380     6 years       MORTGAGE  140000.00     Source Verified Mar-2018
## 9383                        OWN  103000.00        Not Verified Mar-2018
## 9388   10+ years       MORTGAGE   65000.00     Source Verified Mar-2018
## 9413   10+ years       MORTGAGE  185000.00        Not Verified Mar-2018
## 9431   10+ years           RENT   94000.00     Source Verified Mar-2018
## 9432     2 years       MORTGAGE   45000.00            Verified Mar-2018
## 9444   10+ years           RENT   45000.00        Not Verified Mar-2018
## 9459   10+ years       MORTGAGE   85000.00        Not Verified Mar-2018
## 9464     5 years       MORTGAGE   76900.00     Source Verified Mar-2018
## 9474      1 year            OWN   75000.00        Not Verified Mar-2018
## 9481      1 year            OWN  100000.00     Source Verified Mar-2018
## 9497     4 years           RENT   54500.00     Source Verified Mar-2018
## 9499   10+ years           RENT  113500.00        Not Verified Mar-2018
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## 9503   10+ years       MORTGAGE   93000.00        Not Verified Mar-2018
## 9506   10+ years           RENT   72500.00     Source Verified Mar-2018
## 9509   10+ years       MORTGAGE   90000.00     Source Verified Mar-2018
## 9522    9 years       MORTGAGE  120000.00            Verified Mar-2018
## 9546   10+ years           RENT  200000.00     Source Verified Mar-2018
## 9559    3 years           RENT  160000.00     Source Verified Mar-2018
## 9573   10+ years       MORTGAGE  100000.00     Source Verified Mar-2018
## 9610   10+ years       MORTGAGE   91000.00        Not Verified Mar-2018
## 9614   10+ years           RENT   78000.00        Not Verified Mar-2018
## 9627    2 years           RENT   20000.00        Not Verified Mar-2018
## 9628   10+ years           RENT   92000.00            Verified Mar-2018
## 9629                   MORTGAGE   73000.00        Not Verified Mar-2018
## 9652   10+ years       MORTGAGE  141000.00     Source Verified Mar-2018
## 9677    4 years           RENT   55000.00     Source Verified Mar-2018
## 9681   10+ years            OWN   33000.00        Not Verified Mar-2018
## 9690   10+ years       MORTGAGE  225000.00            Verified Mar-2018
## 9697    4 years       MORTGAGE   49000.00        Not Verified Mar-2018
## 9701   10+ years       MORTGAGE   70000.00            Verified Mar-2018
## 9705     1 year           RENT   40000.00     Source Verified Mar-2018
## 9714    2 years       MORTGAGE  110000.00     Source Verified Mar-2018
## 9718     1 year       MORTGAGE  145000.00     Source Verified Mar-2018
## 9722    7 years       MORTGAGE   86000.00     Source Verified Mar-2018
## 9748     1 year           RENT   48000.00     Source Verified Mar-2018
## 9751   10+ years       MORTGAGE  103500.00            Verified Mar-2018
## 9753    4 years       MORTGAGE   39000.00            Verified Mar-2018
## 9773     1 year       MORTGAGE   62000.00        Not Verified Mar-2018
## 9783   10+ years       MORTGAGE   70000.00        Not Verified Mar-2018
## 9786   10+ years            OWN   48000.00        Not Verified Mar-2018
## 9796     1 year       MORTGAGE   65000.00        Not Verified Mar-2018
## 9811    3 years           RENT   78500.00     Source Verified Mar-2018
## 9816    3 years       MORTGAGE  200000.00     Source Verified Mar-2018
## 9817   10+ years            OWN   80000.00     Source Verified Mar-2018
## 9820   10+ years       MORTGAGE  260000.00     Source Verified Mar-2018
## 9834   10+ years       MORTGAGE   80000.00     Source Verified Mar-2018
## 9843    3 years       MORTGAGE  187000.00        Not Verified Mar-2018
## 9872   10+ years            OWN   72000.00            Verified Mar-2018
## 9882   10+ years           RENT  100000.00        Not Verified Mar-2018
## 9898   10+ years       MORTGAGE   74000.00            Verified Mar-2018
## 9904    3 years            OWN  960000.00     Source Verified Mar-2018
## 9924    4 years           RENT   37000.00     Source Verified Mar-2018
## 9943   10+ years       MORTGAGE  119000.00            Verified Mar-2018
## 9945    5 years       MORTGAGE   92000.00            Verified Mar-2018
## 9983     1 year       MORTGAGE   70200.00     Source Verified Mar-2018
## 9988    3 years           RENT   87180.00     Source Verified Mar-2018
## 10024   4 years       MORTGAGE   82000.00            Verified Mar-2018
## 10033  10+ years       MORTGAGE   89000.00        Not Verified Mar-2018
## 10058   3 years       MORTGAGE   50000.00            Verified Mar-2018
## 10062   < 1 year            OWN  111000.00        Not Verified Mar-2018
## 10078   4 years           RENT  225000.00     Source Verified Mar-2018
## 10088  10+ years       MORTGAGE   65000.00            Verified Mar-2018
## 10096   2 years           RENT   64000.00     Source Verified Mar-2018
## 10110   2 years            OWN   86000.00            Verified Feb-2018
## 10166   < 1 year           RENT   60000.00     Source Verified Feb-2018
## 10167   6 years       MORTGAGE   90161.00        Not Verified Feb-2018
## 10192   < 1 year           RENT   33500.00     Source Verified Feb-2018
## 10195   5 years       MORTGAGE   60000.00        Not Verified Feb-2018
##       loan_status pymnt_plan desc            purpose                   title
## 4      Fully Paid          n      debt_consolidation      Debt consolidation
## 7      Fully Paid          n        home_improvement        Home improvement
## 9      Fully Paid          n      debt_consolidation      Debt consolidation
## 14     Fully Paid          n             credit_card Credit card refinancing
## 23     Fully Paid          n             credit_card Credit card refinancing
## 34     Fully Paid          n      debt_consolidation      Debt consolidation
## 40     Fully Paid          n      debt_consolidation      Debt consolidation
## 49     Fully Paid          n                   other                   Other
## 50     Fully Paid          n      debt_consolidation      Debt consolidation
## 51     Fully Paid          n                   other                   Other
## 68     Fully Paid          n      debt_consolidation      Debt consolidation
## 82     Fully Paid          n               vacation                Vacation
## 115    Fully Paid          n      debt_consolidation      Debt consolidation
## 140    Fully Paid          n      debt_consolidation      Debt consolidation
## 158    Fully Paid          n      debt_consolidation      Debt consolidation
## 162    Fully Paid          n                   other                   Other
## 167    Fully Paid          n      debt_consolidation      Debt consolidation
## 182    Fully Paid          n      debt_consolidation      Debt consolidation
## 186    Fully Paid          n      debt_consolidation      Debt consolidation
## 200    Fully Paid          n                     car           Car financing
## 239    Fully Paid          n      debt_consolidation      Debt consolidation
## 249    Fully Paid          n      debt_consolidation      Debt consolidation
## 261    Fully Paid          n      debt_consolidation      Debt consolidation
## 273    Fully Paid          n      debt_consolidation      Debt consolidation
## 276    Fully Paid          n                   other                   Other
## 345    Fully Paid          n                   other                   Other
## 369    Fully Paid          n      debt_consolidation      Debt consolidation
## 379    Fully Paid          n             credit_card Credit card refinancing
## 389    Fully Paid          n      debt_consolidation      Debt consolidation
## 395    Fully Paid          n      debt_consolidation      Debt consolidation
## 403    Fully Paid          n      debt_consolidation      Debt consolidation
## 408    Fully Paid          n                   other                   Other
## 411    Fully Paid          n      debt_consolidation      Debt consolidation
## 426    Fully Paid          n          small_business                Business
## 438    Fully Paid          n                   house              Home buying
## 441    Fully Paid          n      debt_consolidation      Debt consolidation
## 443    Fully Paid          n             credit_card Credit card refinancing
## 468    Fully Paid          n      debt_consolidation      Debt consolidation
## 469    Fully Paid          n             credit_card Credit card refinancing
## 480    Fully Paid          n      debt_consolidation      Debt consolidation
## 482    Fully Paid          n                   other                   Other
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## 483    Fully Paid          n      debt_consolidation      Debt consolidation
## 513    Fully Paid          n      debt_consolidation      Debt consolidation
## 566    Fully Paid          n      debt_consolidation      Debt consolidation
## 569    Fully Paid          n             credit_card Credit card refinancing
## 587    Fully Paid          n        home_improvement        Home improvement
## 597    Fully Paid          n             credit_card Credit card refinancing
## 605    Fully Paid          n          major_purchase          Major purchase
## 627    Fully Paid          n             credit_card Credit card refinancing
## 644    Fully Paid          n        home_improvement        Home improvement
## 677    Fully Paid          n                   other                   Other
## 687    Fully Paid          n      debt_consolidation      Debt consolidation
## 708    Fully Paid          n      debt_consolidation      Debt consolidation
## 718    Fully Paid          n      debt_consolidation      Debt consolidation
## 721    Fully Paid          n      debt_consolidation      Debt consolidation
## 743    Fully Paid          n      debt_consolidation      Debt consolidation
## 744    Fully Paid          n      debt_consolidation      Debt consolidation
## 745    Fully Paid          n      debt_consolidation      Debt consolidation
## 758    Fully Paid          n      debt_consolidation      Debt consolidation
## 777    Fully Paid          n             credit_card Credit card refinancing
## 802    Fully Paid          n             credit_card Credit card refinancing
## 818    Fully Paid          n      debt_consolidation      Debt consolidation
## 832    Fully Paid          n      debt_consolidation      Debt consolidation
## 856    Fully Paid          n      debt_consolidation      Debt consolidation
## 857    Fully Paid          n      debt_consolidation      Debt consolidation
## 858    Fully Paid          n      debt_consolidation      Debt consolidation
## 882    Fully Paid          n      debt_consolidation      Debt consolidation
## 883    Fully Paid          n             credit_card Credit card refinancing
## 889    Fully Paid          n      debt_consolidation      Debt consolidation
## 903    Fully Paid          n          small_business               Business
## 907    Fully Paid          n             credit_card Credit card refinancing
## 915    Fully Paid          n                   other                   Other
## 920    Fully Paid          n             credit_card Credit card refinancing
## 939    Fully Paid          n        home_improvement        Home improvement
## 954    Fully Paid          n      debt_consolidation      Debt consolidation
## 969    Fully Paid          n             credit_card Credit card refinancing
## 1002   Fully Paid          n      debt_consolidation      Debt consolidation
## 1015   Fully Paid          n                   other                   Other
## 1024   Fully Paid          n        home_improvement        Home improvement
## 1029   Fully Paid          n        home_improvement        Home improvement
## 1031  Charged Off          n      debt_consolidation      Debt consolidation
## 1053   Fully Paid          n             credit_card Credit card refinancing
## 1057   Fully Paid          n             credit_card Credit card refinancing
## 1080   Fully Paid          n      debt_consolidation      Debt consolidation
## 1108   Fully Paid          n                   other                   Other
## 1109   Fully Paid          n      debt_consolidation      Debt consolidation
## 1110   Fully Paid          n      debt_consolidation      Debt consolidation
## 1112   Fully Paid          n      debt_consolidation      Debt consolidation
## 1115   Fully Paid          n      debt_consolidation      Debt consolidation
## 1121   Fully Paid          n      debt_consolidation      Debt consolidation
## 1122   Fully Paid          n                   other                   Other
## 1139   Fully Paid          n             credit_card Credit card refinancing
## 1163   Fully Paid          n                   other                   Other
## 1181   Fully Paid          n             credit_card Credit card refinancing
## 1187   Fully Paid          n      debt_consolidation      Debt consolidation
## 1194   Fully Paid          n      debt_consolidation      Debt consolidation
## 1197   Fully Paid          n             credit_card Credit card refinancing
## 1209   Fully Paid          n      debt_consolidation      Debt consolidation
## 1224   Fully Paid          n      debt_consolidation      Debt consolidation
## 1257   Fully Paid          n        home_improvement        Home improvement
## 1262   Fully Paid          n      debt_consolidation      Debt consolidation
## 1275   Fully Paid          n             credit_card Credit card refinancing
## 1336   Fully Paid          n      debt_consolidation      Debt consolidation
## 1343   Fully Paid          n             credit_card Credit card refinancing
## 1346   Fully Paid          n      debt_consolidation      Debt consolidation
## 1347   Fully Paid          n      debt_consolidation      Debt consolidation
## 1379   Fully Paid          n                  moving   Moving and relocation
## 1418   Fully Paid          n      debt_consolidation      Debt consolidation
## 1425   Fully Paid          n        renewable_energy              Green loan
## 1450   Fully Paid          n      debt_consolidation      Debt consolidation
## 1451   Fully Paid          n                   other                   Other
## 1452   Fully Paid          n      debt_consolidation      Debt consolidation
## 1465   Fully Paid          n      debt_consolidation      Debt consolidation
## 1468   Fully Paid          n      debt_consolidation      Debt consolidation
## 1478   Fully Paid          n        home_improvement        Home improvement
## 1479   Fully Paid          n      debt_consolidation      Debt consolidation
## 1500   Fully Paid          n                   other                   Other
## 1509  Charged Off          n        home_improvement        Home improvement
## 1524   Fully Paid          n      debt_consolidation      Debt consolidation
## 1533   Fully Paid          n                   other                   Other
## 1534   Fully Paid          n      debt_consolidation      Debt consolidation
## 1537   Fully Paid          n      debt_consolidation      Debt consolidation
## 1548   Fully Paid          n      debt_consolidation      Debt consolidation
## 1566   Fully Paid          n        home_improvement        Home improvement
## 1575   Fully Paid          n                   other                   Other
## 1620   Fully Paid          n                vacation                Vacation
## 1632   Fully Paid          n                  moving   Moving and relocation
## 1661   Fully Paid          n      debt_consolidation      Debt consolidation
## 1666   Fully Paid          n        home_improvement        Home improvement
## 1679   Fully Paid          n                   other                   Other
## 1686   Fully Paid          n             credit_card Credit card refinancing
## 1688   Fully Paid          n                   other                   Other
## 1726   Fully Paid          n      debt_consolidation      Debt consolidation
## 1738   Fully Paid          n             credit_card Credit card refinancing
## 1744   Fully Paid          n             credit_card Credit card refinancing
## 1750   Fully Paid          n        home_improvement        Home improvement
## 1754   Fully Paid          n             credit_card Credit card refinancing
## 1762   Fully Paid          n        home_improvement        Home improvement
## 1809   Fully Paid          n      debt_consolidation      Debt consolidation
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## 1811   Fully Paid          n      debt_consolidation      Debt consolidation
## 1819   Fully Paid          n      debt_consolidation      Debt consolidation
## 1880  Charged Off          n      debt_consolidation      Debt consolidation
## 1881   Fully Paid          n        home_improvement        Home improvement
## 1894   Fully Paid          n             credit_card Credit card refinancing
## 1900   Fully Paid          n             credit_card Credit card refinancing
## 1915   Fully Paid          n      debt_consolidation      Debt consolidation
## 1919   Fully Paid          n             credit_card Credit card refinancing
## 1942   Fully Paid          n                   other                   Other
## 1943   Fully Paid          n             credit_card Credit card refinancing
## 1958   Fully Paid          n        home_improvement        Home improvement
## 1991   Fully Paid          n      debt_consolidation      Debt consolidation
## 1994  Charged Off          n        home_improvement        Home improvement
## 1997   Fully Paid          n          major_purchase          Major purchase
## 2001   Fully Paid          n      debt_consolidation      Debt consolidation
## 2013   Fully Paid          n             credit_card Credit card refinancing
## 2015   Fully Paid          n                vacation                Vacation
## 2018   Fully Paid          n        home_improvement        Home improvement
## 2050   Fully Paid          n             credit_card Credit card refinancing
## 2074   Fully Paid          n      debt_consolidation      Debt consolidation
## 2077   Fully Paid          n             credit_card Credit card refinancing
## 2092  Charged Off          n      debt_consolidation      Debt consolidation
## 2161   Fully Paid          n      debt_consolidation      Debt consolidation
## 2165  Charged Off          n      debt_consolidation      Debt consolidation
## 2170   Fully Paid          n        home_improvement        Home improvement
## 2171   Fully Paid          n      debt_consolidation      Debt consolidation
## 2172   Fully Paid          n        home_improvement        Home improvement
## 2192   Fully Paid          n      debt_consolidation      Debt consolidation
## 2194   Fully Paid          n      debt_consolidation      Debt consolidation
## 2196   Fully Paid          n                   other                   Other
## 2248   Fully Paid          n                medical        Medical expenses
## 2253   Fully Paid          n      debt_consolidation      Debt consolidation
## 2254   Fully Paid          n      debt_consolidation      Debt consolidation
## 2257   Fully Paid          n             credit_card Credit card refinancing
## 2263   Fully Paid          n      debt_consolidation      Debt consolidation
## 2277   Fully Paid          n      debt_consolidation      Debt consolidation
## 2289   Fully Paid          n                vacation                Vacation
## 2303   Fully Paid          n             credit_card Credit card refinancing
## 2312   Fully Paid          n                   other                   Other
## 2318   Fully Paid          n      debt_consolidation      Debt consolidation
## 2320   Fully Paid          n             credit_card Credit card refinancing
## 2326   Fully Paid          n          major_purchase          Major purchase
## 2328   Fully Paid          n      debt_consolidation      Debt consolidation
## 2341   Fully Paid          n                   other                   Other
## 2348   Fully Paid          n      debt_consolidation      Debt consolidation
## 2370   Fully Paid          n      debt_consolidation      Debt consolidation
## 2376   Fully Paid          n                   other                   Other
## 2382   Fully Paid          n             credit_card Credit card refinancing
## 2385   Fully Paid          n      debt_consolidation      Debt consolidation
## 2406   Fully Paid          n             credit_card Credit card refinancing
## 2409   Fully Paid          n                     car           Car financing
## 2421   Fully Paid          n        home_improvement        Home improvement
## 2456   Fully Paid          n      debt_consolidation      Debt consolidation
## 2462   Fully Paid          n             credit_card Credit card refinancing
## 2476   Fully Paid          n      debt_consolidation      Debt consolidation
## 2481   Fully Paid          n      debt_consolidation      Debt consolidation
## 2488   Fully Paid          n      debt_consolidation      Debt consolidation
## 2496   Fully Paid          n      debt_consolidation      Debt consolidation
## 2520   Fully Paid          n      debt_consolidation      Debt consolidation
## 2531   Fully Paid          n      debt_consolidation      Debt consolidation
## 2541   Fully Paid          n             credit_card Credit card refinancing
## 2544   Fully Paid          n      debt_consolidation      Debt consolidation
## 2563   Fully Paid          n      debt_consolidation      Debt consolidation
## 2568  Charged Off          n                   other                   Other
## 2580   Fully Paid          n             credit_card Credit card refinancing
## 2599   Fully Paid          n      debt_consolidation      Debt consolidation
## 2600  Charged Off          n      debt_consolidation      Debt consolidation
## 2602   Fully Paid          n             credit_card Credit card refinancing
## 2605   Fully Paid          n      debt_consolidation      Debt consolidation
## 2615   Fully Paid          n      debt_consolidation      Debt consolidation
## 2620   Fully Paid          n      debt_consolidation      Debt consolidation
## 2623   Fully Paid          n      debt_consolidation      Debt consolidation
## 2651  Charged Off          n             credit_card Credit card refinancing
## 2655   Fully Paid          n      debt_consolidation      Debt consolidation
## 2659   Fully Paid          n      debt_consolidation      Debt consolidation
## 2660  Charged Off          n          small_business                Business
## 2663   Fully Paid          n      debt_consolidation      Debt consolidation
## 2667   Fully Paid          n      debt_consolidation      Debt consolidation
## 2672   Fully Paid          n          major_purchase          Major purchase
## 2677   Fully Paid          n      debt_consolidation      Debt consolidation
## 2690   Fully Paid          n      debt_consolidation      Debt consolidation
## 2695   Fully Paid          n          small_business                Business
## 2702   Fully Paid          n      debt_consolidation      Debt consolidation
## 2710   Fully Paid          n      debt_consolidation      Debt consolidation
## 2738   Fully Paid          n                   other                   Other
## 2742   Fully Paid          n                vacation                Vacation
## 2745   Fully Paid          n             credit_card Credit card refinancing
## 2773   Fully Paid          n      debt_consolidation      Debt consolidation
## 2787   Fully Paid          n      debt_consolidation      Debt consolidation
## 2792   Fully Paid          n                   other                   Other
## 2803   Fully Paid          n             credit_card Credit card refinancing
## 2813   Fully Paid          n             credit_card Credit card refinancing
## 2817   Fully Paid          n      debt_consolidation      Debt consolidation
## 2819   Fully Paid          n      debt_consolidation      Debt consolidation
## 2832   Fully Paid          n                   house             Home buying
## 2857   Fully Paid          n        home_improvement        Home improvement
## 2860  Charged Off          n             credit_card Credit card refinancing
## 2865   Fully Paid          n             credit_card Credit card refinancing
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## 2875  Charged Off          n      debt_consolidation      Debt consolidation
## 2880  Charged Off          n      debt_consolidation      Debt consolidation
## 2894   Fully Paid          n      debt_consolidation      Debt consolidation
## 2899   Fully Paid          n      debt_consolidation      Debt consolidation
## 2912   Fully Paid          n      debt_consolidation      Debt consolidation
## 2927   Fully Paid          n      debt_consolidation      Debt consolidation
## 2933   Fully Paid          n        home_improvement        Home improvement
## 2947   Fully Paid          n      debt_consolidation      Debt consolidation
## 2951   Fully Paid          n      debt_consolidation      Debt consolidation
## 2957   Fully Paid          n                   house             Home buying
## 2961   Fully Paid          n      debt_consolidation      Debt consolidation
## 2968  Charged Off          n      debt_consolidation      Debt consolidation
## 2971   Fully Paid          n             credit_card Credit card refinancing
## 2995   Fully Paid          n      debt_consolidation      Debt consolidation
## 3032   Fully Paid          n      debt_consolidation      Debt consolidation
## 3036   Fully Paid          n      debt_consolidation      Debt consolidation
## 3040   Fully Paid          n      debt_consolidation      Debt consolidation
## 3053   Fully Paid          n                   other                   Other
## 3062   Fully Paid          n                   other                   Other
## 3067   Fully Paid          n      debt_consolidation      Debt consolidation
## 3074   Fully Paid          n                   other                   Other
## 3092   Fully Paid          n                   house             Home buying
## 3102   Fully Paid          n                 medical        Medical expenses
## 3119   Fully Paid          n      debt_consolidation      Debt consolidation
## 3123   Fully Paid          n      debt_consolidation      Debt consolidation
## 3134   Fully Paid          n                     car            Car financing
## 3141   Fully Paid          n      debt_consolidation      Debt consolidation
## 3143   Fully Paid          n      debt_consolidation      Debt consolidation
## 3173  Charged Off          n          major_purchase          Major purchase
## 3178   Fully Paid          n             credit_card Credit card refinancing
## 3186  Charged Off          n                   other                   Other
## 3204   Fully Paid          n          major_purchase          Major purchase
## 3210   Fully Paid          n             credit_card Credit card refinancing
## 3211   Fully Paid          n                 medical        Medical expenses
## 3218   Fully Paid          n      debt_consolidation      Debt consolidation
## 3230   Fully Paid          n      debt_consolidation      Debt consolidation
## 3251   Fully Paid          n             credit_card Credit card refinancing
## 3262   Fully Paid          n      debt_consolidation      Debt consolidation
## 3269   Fully Paid          n      debt_consolidation      Debt consolidation
## 3271   Fully Paid          n      debt_consolidation      Debt consolidation
## 3278   Fully Paid          n             credit_card Credit card refinancing
## 3282   Fully Paid          n             credit_card Credit card refinancing
## 3302   Fully Paid          n      debt_consolidation      Debt consolidation
## 3318   Fully Paid          n             credit_card Credit card refinancing
## 3323   Fully Paid          n      debt_consolidation      Debt consolidation
## 3367  Charged Off          n      debt_consolidation      Debt consolidation
## 3376  Charged Off          n        home_improvement        Home improvement
## 3392   Fully Paid          n                   other                   Other
## 3409   Fully Paid          n      debt_consolidation      Debt consolidation
## 3416   Fully Paid          n                  moving   Moving and relocation
## 3436   Fully Paid          n      debt_consolidation      Debt consolidation
## 3441   Fully Paid          n      debt_consolidation      Debt consolidation
## 3472   Fully Paid          n             credit_card Credit card refinancing
## 3485  Charged Off          n      debt_consolidation      Debt consolidation
## 3492   Fully Paid          n      debt_consolidation      Debt consolidation
## 3494  Charged Off          n      debt_consolidation      Debt consolidation
## 3501   Fully Paid          n      debt_consolidation      Debt consolidation
## 3506   Fully Paid          n      debt_consolidation      Debt consolidation
## 3530   Fully Paid          n             credit_card Credit card refinancing
## 3565   Fully Paid          n      debt_consolidation      Debt consolidation
## 3577   Fully Paid          n             credit_card Credit card refinancing
## 3613   Fully Paid          n                   other                   Other
## 3617   Fully Paid          n      debt_consolidation      Debt consolidation
## 3639   Fully Paid          n      debt_consolidation      Debt consolidation
## 3657   Fully Paid          n                   other                   Other
## 3668   Fully Paid          n      debt_consolidation      Debt consolidation
## 3686   Fully Paid          n        home_improvement        Home improvement
## 3698   Fully Paid          n                   house             Home buying
## 3704   Fully Paid          n                   other                   Other
## 3707   Fully Paid          n      debt_consolidation      Debt consolidation
## 3780   Fully Paid          n        home_improvement        Home improvement
## 3790   Fully Paid          n                  moving   Moving and relocation
## 3794   Fully Paid          n      debt_consolidation      Debt consolidation
## 3796   Fully Paid          n        home_improvement        Home improvement
## 3822   Fully Paid          n      debt_consolidation      Debt consolidation
## 3825   Fully Paid          n             credit_card Credit card refinancing
## 3861   Fully Paid          n      debt_consolidation      Debt consolidation
## 3887   Fully Paid          n      debt_consolidation      Debt consolidation
## 3921   Fully Paid          n      debt_consolidation      Debt consolidation
## 3922   Fully Paid          n      debt_consolidation      Debt consolidation
## 3926   Fully Paid          n          major_purchase          Major purchase
## 3943   Fully Paid          n      debt_consolidation      Debt consolidation
## 3954   Fully Paid          n             credit_card Credit card refinancing
## 3964   Fully Paid          n                   other                   Other
## 3976   Fully Paid          n             credit_card Credit card refinancing
## 3984   Fully Paid          n                   other                   Other
## 4006  Charged Off          n        home_improvement        Home improvement
## 4010   Fully Paid          n      debt_consolidation      Debt consolidation
## 4028   Fully Paid          n                   other                   Other
## 4043   Fully Paid          n      debt_consolidation      Debt consolidation
## 4045   Fully Paid          n                   other                   Other
## 4053   Fully Paid          n                   house             Home buying
## 4055   Fully Paid          n      debt_consolidation      Debt consolidation
## 4057  Charged Off          n      debt_consolidation      Debt consolidation
## 4098   Fully Paid          n      debt_consolidation      Debt consolidation
## 4100   Fully Paid          n      debt_consolidation      Debt consolidation
## 4113   Fully Paid          n             credit_card Credit card refinancing
## 4119   Fully Paid          n      debt_consolidation      Debt consolidation
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## 4136   Fully Paid          n      debt_consolidation      Debt consolidation
## 4138   Fully Paid          n      debt_consolidation      Debt consolidation
## 4150   Fully Paid          n      debt_consolidation      Debt consolidation
## 4169   Fully Paid          n      debt_consolidation      Debt consolidation
## 4173   Fully Paid          n      debt_consolidation      Debt consolidation
## 4193   Fully Paid          n             credit_card Credit card refinancing
## 4198   Fully Paid          n      debt_consolidation      Debt consolidation
## 4203   Fully Paid          n      debt_consolidation      Debt consolidation
## 4211   Fully Paid          n      debt_consolidation      Debt consolidation
## 4220   Fully Paid          n      debt_consolidation      Debt consolidation
## 4229   Fully Paid          n             credit_card Credit card refinancing
## 4247   Fully Paid          n             credit_card Credit card refinancing
## 4273   Fully Paid          n             credit_card Credit card refinancing
## 4274   Fully Paid          n        home_improvement        Home improvement
## 4284  Charged Off          n      debt_consolidation      Debt consolidation
## 4301   Fully Paid          n             credit_card Credit card refinancing
## 4325   Fully Paid          n                   house             Home buying
## 4349   Fully Paid          n                 medical        Medical expenses
## 4350   Fully Paid          n        home_improvement        Home improvement
## 4370   Fully Paid          n      debt_consolidation      Debt consolidation
## 4372   Fully Paid          n             credit_card Credit card refinancing
## 4388   Fully Paid          n      debt_consolidation      Debt consolidation
## 4390   Fully Paid          n      debt_consolidation      Debt consolidation
## 4400   Fully Paid          n             credit_card Credit card refinancing
## 4401   Fully Paid          n      debt_consolidation      Debt consolidation
## 4402  Charged Off          n      debt_consolidation      Debt consolidation
## 4418   Fully Paid          n      debt_consolidation      Debt consolidation
## 4421   Fully Paid          n      debt_consolidation      Debt consolidation
## 4431   Fully Paid          n      debt_consolidation      Debt consolidation
## 4440   Fully Paid          n      debt_consolidation      Debt consolidation
## 4458   Fully Paid          n          small_business                Business
## 4461   Fully Paid          n                   other                   Other
## 4469   Fully Paid          n      debt_consolidation      Debt consolidation
## 4472   Fully Paid          n                     car           Car financing
## 4479   Fully Paid          n             credit_card Credit card refinancing
## 4483   Fully Paid          n                     car           Car financing
## 4503   Fully Paid          n                   other                   Other
## 4519   Fully Paid          n      debt_consolidation      Debt consolidation
## 4522   Fully Paid          n             credit_card Credit card refinancing
## 4525   Fully Paid          n      debt_consolidation      Debt consolidation
## 4528  Charged Off          n      debt_consolidation      Debt consolidation
## 4538   Fully Paid          n      debt_consolidation      Debt consolidation
## 4548   Fully Paid          n      debt_consolidation      Debt consolidation
## 4554   Fully Paid          n      debt_consolidation      Debt consolidation
## 4557   Fully Paid          n      debt_consolidation      Debt consolidation
## 4569   Fully Paid          n                   other                   Other
## 4576   Fully Paid          n                   other                   Other
## 4590   Fully Paid          n      debt_consolidation      Debt consolidation
## 4594   Fully Paid          n      debt_consolidation      Debt consolidation
## 4604   Fully Paid          n      debt_consolidation      Debt consolidation
## 4622  Charged Off          n          major_purchase          Major purchase
## 4626   Fully Paid          n          major_purchase          Major purchase
## 4629   Fully Paid          n      debt_consolidation      Debt consolidation
## 4633   Fully Paid          n      debt_consolidation      Debt consolidation
## 4646  Charged Off          n      debt_consolidation      Debt consolidation
## 4650   Fully Paid          n      debt_consolidation      Debt consolidation
## 4660   Fully Paid          n      debt_consolidation      Debt consolidation
## 4673  Charged Off          n      debt_consolidation      Debt consolidation
## 4684   Fully Paid          n      debt_consolidation      Debt consolidation
## 4699  Charged Off          n      debt_consolidation      Debt consolidation
## 4720   Fully Paid          n                   other                   Other
## 4724   Fully Paid          n      debt_consolidation      Debt consolidation
## 4728   Fully Paid          n             credit_card Credit card refinancing
## 4751  Charged Off          n                   other                   Other
## 4778   Fully Paid          n      debt_consolidation      Debt consolidation
## 4812   Fully Paid          n      debt_consolidation      Debt consolidation
## 4820  Charged Off          n      debt_consolidation      Debt consolidation
## 4835   Fully Paid          n             credit_card Credit card refinancing
## 4843   Fully Paid          n          major_purchase          Major purchase
## 4876  Charged Off          n      debt_consolidation      Debt consolidation
## 4882   Fully Paid          n        home_improvement        Home improvement
## 4895   Fully Paid          n          small_business                Business
## 4907  Charged Off          n        home_improvement        Home improvement
## 4912   Fully Paid          n      debt_consolidation      Debt consolidation
## 4941   Fully Paid          n             credit_card Credit card refinancing
## 4952   Fully Paid          n      debt_consolidation      Debt consolidation
## 4954   Fully Paid          n        home_improvement        Home improvement
## 4956   Fully Paid          n      debt_consolidation      Debt consolidation
## 4957   Fully Paid          n      debt_consolidation      Debt consolidation
## 4959   Fully Paid          n                   other                   Other
## 4960   Fully Paid          n      debt_consolidation      Debt consolidation
## 4987   Fully Paid          n      debt_consolidation      Debt consolidation
## 5022   Fully Paid          n      debt_consolidation      Debt consolidation
## 5027   Fully Paid          n      debt_consolidation      Debt consolidation
## 5029   Fully Paid          n      debt_consolidation      Debt consolidation
## 5053   Fully Paid          n                   other                   Other
## 5054   Fully Paid          n      debt_consolidation      Debt consolidation
## 5055   Fully Paid          n             credit_card Credit card refinancing
## 5066   Fully Paid          n      debt_consolidation      Debt consolidation
## 5069  Charged Off          n                     car           Car financing
## 5077   Fully Paid          n      debt_consolidation      Debt consolidation
## 5091   Fully Paid          n        home_improvement        Home improvement
## 5110   Fully Paid          n                vacation                Vacation
## 5114  Charged Off          n      debt_consolidation      Debt consolidation
## 5161   Fully Paid          n      debt_consolidation      Debt consolidation
## 5215   Fully Paid          n        home_improvement        Home improvement
## 5216   Fully Paid          n      debt_consolidation      Debt consolidation
## 5219   Fully Paid          n             credit_card Credit card refinancing
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## 5251   Fully Paid          n                  moving   Moving and relocation
## 5254   Fully Paid          n      debt_consolidation      Debt consolidation
## 5258  Charged Off          n                     car           Car financing
## 5269   Fully Paid          n      debt_consolidation      Debt consolidation
## 5277  Charged Off          n      debt_consolidation      Debt consolidation
## 5285  Charged Off          n      debt_consolidation      Debt consolidation
## 5291  Charged Off          n                vacation                Vacation
## 5292  Charged Off          n      debt_consolidation      Debt consolidation
## 5340   Fully Paid          n      debt_consolidation      Debt consolidation
## 5341   Fully Paid          n      debt_consolidation      Debt consolidation
## 5347   Fully Paid          n      debt_consolidation      Debt consolidation
## 5373   Fully Paid          n      debt_consolidation      Debt consolidation
## 5382   Fully Paid          n      debt_consolidation      Debt consolidation
## 5394   Fully Paid          n                     car           Car financing
## 5432   Fully Paid          n      debt_consolidation      Debt consolidation
## 5443   Fully Paid          n                   other                   Other
## 5445   Fully Paid          n                   other                   Other
## 5454   Fully Paid          n             credit_card Credit card refinancing
## 5464   Fully Paid          n      debt_consolidation      Debt consolidation
## 5479   Fully Paid          n             credit_card Credit card refinancing
## 5503   Fully Paid          n      debt_consolidation      Debt consolidation
## 5514   Fully Paid          n             credit_card Credit card refinancing
## 5517   Fully Paid          n      debt_consolidation      Debt consolidation
## 5545   Fully Paid          n             credit_card Credit card refinancing
## 5549   Fully Paid          n                vacation                Vacation
## 5558   Fully Paid          n      debt_consolidation      Debt consolidation
## 5569   Fully Paid          n             credit_card Credit card refinancing
## 5590   Fully Paid          n      debt_consolidation      Debt consolidation
## 5592   Fully Paid          n                   house             Home buying
## 5608   Fully Paid          n      debt_consolidation      Debt consolidation
## 5609   Fully Paid          n      debt_consolidation      Debt consolidation
## 5611   Fully Paid          n                vacation                Vacation
## 5624   Fully Paid          n        home_improvement        Home improvement
## 5651   Fully Paid          n             credit_card Credit card refinancing
## 5673   Fully Paid          n      debt_consolidation      Debt consolidation
## 5692   Fully Paid          n      debt_consolidation      Debt consolidation
## 5694   Fully Paid          n                   other                   Other
## 5716   Fully Paid          n      debt_consolidation      Debt consolidation
## 5736   Fully Paid          n      debt_consolidation      Debt consolidation
## 5745   Fully Paid          n                   other                   Other
## 5777   Fully Paid          n      debt_consolidation      Debt consolidation
## 5789   Fully Paid          n        home_improvement        Home improvement
## 5822   Fully Paid          n        home_improvement        Home improvement
## 5831  Charged Off          n      debt_consolidation      Debt consolidation
## 5843   Fully Paid          n        home_improvement        Home improvement
## 5863   Fully Paid          n      debt_consolidation      Debt consolidation
## 5865  Charged Off          n      debt_consolidation      Debt consolidation
## 5868   Fully Paid          n        home_improvement        Home improvement
## 5870   Fully Paid          n             credit_card Credit card refinancing
## 5882   Fully Paid          n      debt_consolidation      Debt consolidation
## 5883   Fully Paid          n      debt_consolidation      Debt consolidation
## 5888  Charged Off          n      debt_consolidation      Debt consolidation
## 5899   Fully Paid          n      debt_consolidation      Debt consolidation
## 5902   Fully Paid          n        home_improvement        Home improvement
## 5903  Charged Off          n                   other                   Other
## 5904   Fully Paid          n      debt_consolidation      Debt consolidation
## 5906   Fully Paid          n      debt_consolidation      Debt consolidation
## 5907   Fully Paid          n        home_improvement        Home improvement
## 5932   Fully Paid          n      debt_consolidation      Debt consolidation
## 5933  Charged Off          n          major_purchase          Major purchase
## 5940   Fully Paid          n      debt_consolidation      Debt consolidation
## 5942   Fully Paid          n      debt_consolidation      Debt consolidation
## 5946   Fully Paid          n      debt_consolidation      Debt consolidation
## 5955   Fully Paid          n      debt_consolidation      Debt consolidation
## 5967   Fully Paid          n      debt_consolidation      Debt consolidation
## 5973   Fully Paid          n        home_improvement        Home improvement
## 5989   Fully Paid          n                   other                   Other
## 5999   Fully Paid          n      debt_consolidation      Debt consolidation
## 6004   Fully Paid          n      debt_consolidation      Debt consolidation
## 6024   Fully Paid          n      debt_consolidation      Debt consolidation
## 6037   Fully Paid          n                   other                   Other
## 6038   Fully Paid          n      debt_consolidation      Debt consolidation
## 6041   Fully Paid          n      debt_consolidation      Debt consolidation
## 6047   Fully Paid          n                 medical        Medical expenses
## 6048   Fully Paid          n      debt_consolidation      Debt consolidation
## 6052   Fully Paid          n             credit_card Credit card refinancing
## 6087   Fully Paid          n      debt_consolidation      Debt consolidation
## 6102   Fully Paid          n                  moving   Moving and relocation
## 6132   Fully Paid          n             credit_card Credit card refinancing
## 6139  Charged Off          n      debt_consolidation      Debt consolidation
## 6147   Fully Paid          n      debt_consolidation      Debt consolidation
## 6154   Fully Paid          n      debt_consolidation      Debt consolidation
## 6155   Fully Paid          n      debt_consolidation      Debt consolidation
## 6156   Fully Paid          n      debt_consolidation      Debt consolidation
## 6181   Fully Paid          n        home_improvement        Home improvement
## 6186   Fully Paid          n                   house             Home buying
## 6214   Fully Paid          n             credit_card Credit card refinancing
## 6217   Fully Paid          n      debt_consolidation      Debt consolidation
## 6228   Fully Paid          n             credit_card Credit card refinancing
## 6232   Fully Paid          n      debt_consolidation      Debt consolidation
## 6243   Fully Paid          n      debt_consolidation      Debt consolidation
## 6248   Fully Paid          n      debt_consolidation      Debt consolidation
## 6270  Charged Off          n                  moving   Moving and relocation
## 6274   Fully Paid          n      debt_consolidation      Debt consolidation
## 6284   Fully Paid          n      debt_consolidation      Debt consolidation
## 6309   Fully Paid          n      debt_consolidation      Debt consolidation
## 6310   Fully Paid          n             credit_card Credit card refinancing
## 6317   Fully Paid          n                   other                   Other
```

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## 6361   Fully Paid          n        home_improvement        Home improvement
## 6366   Fully Paid          n                   other                   Other
## 6370  Charged Off          n                   other                   Other
## 6393   Fully Paid          n        home_improvement        Home improvement
## 6429   Fully Paid          n       debt_consolidation      Debt consolidation
## 6448   Fully Paid          n       debt_consolidation      Debt consolidation
## 6469   Fully Paid          n                   other                   Other
## 6481   Fully Paid          n       debt_consolidation      Debt consolidation
## 6485  Charged Off          n       debt_consolidation      Debt consolidation
## 6492   Fully Paid          n              credit_card Credit card refinancing
## 6493   Fully Paid          n       debt_consolidation      Debt consolidation
## 6499  Charged Off          n                 vacation                Vacation
## 6500   Fully Paid          n        home_improvement        Home improvement
## 6510   Fully Paid          n              credit_card Credit card refinancing
## 6522   Fully Paid          n        home_improvement        Home improvement
## 6528   Fully Paid          n       debt_consolidation      Debt consolidation
## 6536   Fully Paid          n        home_improvement        Home improvement
## 6550   Fully Paid          n              credit_card Credit card refinancing
## 6555   Fully Paid          n        home_improvement        Home improvement
## 6559   Fully Paid          n                   other                   Other
## 6591   Fully Paid          n       debt_consolidation      Debt consolidation
## 6641  Charged Off          n       debt_consolidation      Debt consolidation
## 6644   Fully Paid          n       debt_consolidation      Debt consolidation
## 6646  Charged Off          n       debt_consolidation      Debt consolidation
## 6648   Fully Paid          n              credit_card Credit card refinancing
## 6682   Fully Paid          n       debt_consolidation      Debt consolidation
## 6699   Fully Paid          n        home_improvement        Home improvement
## 6700   Fully Paid          n              credit_card Credit card refinancing
## 6704   Fully Paid          n       debt_consolidation      Debt consolidation
## 6716   Fully Paid          n                   other                   Other
## 6719   Fully Paid          n              credit_card Credit card refinancing
## 6724   Fully Paid          n              credit_card Credit card refinancing
## 6737   Fully Paid          n        home_improvement        Home improvement
## 6795  Charged Off          n       debt_consolidation      Debt consolidation
## 6813   Fully Paid          n       debt_consolidation      Debt consolidation
## 6826   Fully Paid          n                   house             Home buying
## 6842   Fully Paid          n        home_improvement        Home improvement
## 6852   Fully Paid          n       debt_consolidation      Debt consolidation
## 6856   Fully Paid          n       debt_consolidation      Debt consolidation
## 6866   Fully Paid          n       debt_consolidation      Debt consolidation
## 6875   Fully Paid          n              credit_card Credit card refinancing
## 6901   Fully Paid          n                   house             Home buying
## 6944   Fully Paid          n       debt_consolidation      Debt consolidation
## 6952  Charged Off          n       debt_consolidation      Debt consolidation
## 6968   Fully Paid          n       debt_consolidation      Debt consolidation
## 6980   Fully Paid          n       debt_consolidation      Debt consolidation
## 6991   Fully Paid          n       debt_consolidation      Debt consolidation
## 6992   Fully Paid          n       debt_consolidation      Debt consolidation
## 7041   Fully Paid          n       debt_consolidation      Debt consolidation
## 7046   Fully Paid          n        home_improvement        Home improvement
## 7055   Fully Paid          n        home_improvement        Home improvement
## 7070   Fully Paid          n       debt_consolidation      Debt consolidation
## 7078   Fully Paid          n              credit_card Credit card refinancing
## 7083  Charged Off          n       debt_consolidation      Debt consolidation
## 7092   Fully Paid          n              credit_card Credit card refinancing
## 7093   Fully Paid          n              credit_card Credit card refinancing
## 7113   Fully Paid          n       debt_consolidation      Debt consolidation
## 7128   Fully Paid          n       debt_consolidation      Debt consolidation
## 7140  Charged Off          n       debt_consolidation      Debt consolidation
## 7154   Fully Paid          n              credit_card Credit card refinancing
## 7157   Fully Paid          n              credit_card Credit card refinancing
## 7170   Fully Paid          n       debt_consolidation      Debt consolidation
## 7175   Fully Paid          n       debt_consolidation      Debt consolidation
## 7181   Fully Paid          n       debt_consolidation      Debt consolidation
## 7194   Fully Paid          n                   house             Home buying
## 7200   Fully Paid          n       debt_consolidation      Debt consolidation
## 7205   Fully Paid          n       debt_consolidation      Debt consolidation
## 7209  Charged Off          n              credit_card Credit card refinancing
## 7210   Fully Paid          n              credit_card Credit card refinancing
## 7211   Fully Paid          n        home_improvement        Home improvement
## 7212  Charged Off          n       debt_consolidation      Debt consolidation
## 7246   Fully Paid          n              credit_card Credit card refinancing
## 7248   Fully Paid          n                   other                   Other
## 7260   Fully Paid          n              credit_card Credit card refinancing
## 7264   Fully Paid          n                   house             Home buying
## 7277   Fully Paid          n              credit_card Credit card refinancing
## 7283   Fully Paid          n       debt_consolidation      Debt consolidation
## 7286  Charged Off          n              credit_card Credit card refinancing
## 7300   Fully Paid          n                 medical        Medical expenses
## 7332   Fully Paid          n        home_improvement        Home improvement
## 7348   Fully Paid          n                   other                   Other
## 7350   Fully Paid          n                   house             Home buying
## 7356   Fully Paid          n                   other                   Other
## 7367   Fully Paid          n       debt_consolidation      Debt consolidation
## 7368   Fully Paid          n                   other                   Other
## 7369   Fully Paid          n       debt_consolidation      Debt consolidation
## 7370   Fully Paid          n                  moving   Moving and relocation
## 7376   Fully Paid          n       debt_consolidation      Debt consolidation
## 7379   Fully Paid          n       debt_consolidation      Debt consolidation
## 7388   Fully Paid          n       debt_consolidation      Debt consolidation
## 7395  Charged Off          n       debt_consolidation      Debt consolidation
## 7398   Fully Paid          n       debt_consolidation      Debt consolidation
## 7457  Charged Off          n       debt_consolidation      Debt consolidation
## 7471   Fully Paid          n       debt_consolidation      Debt consolidation
## 7482   Fully Paid          n        home_improvement        Home improvement
## 7507   Fully Paid          n       debt_consolidation      Debt consolidation
## 7514   Fully Paid          n       debt_consolidation      Debt consolidation
## 7519  Charged Off          n       debt_consolidation      Debt consolidation
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## 7525   Fully Paid          n      debt_consolidation      Debt consolidation
## 7527   Fully Paid          n      debt_consolidation      Debt consolidation
## 7537   Fully Paid          n                   other                    Other
## 7542   Fully Paid          n      debt_consolidation      Debt consolidation
## 7561   Fully Paid          n      debt_consolidation      Debt consolidation
## 7569   Fully Paid          n      debt_consolidation      Debt consolidation
## 7576   Fully Paid          n      debt_consolidation      Debt consolidation
## 7639   Fully Paid          n        home_improvement        Home improvement
## 7640   Fully Paid          n                   other                    Other
## 7650   Fully Paid          n             credit_card Credit card refinancing
## 7652   Fully Paid          n                   other                    Other
## 7672   Fully Paid          n                   house              Home buying
## 7673  Charged Off          n      debt_consolidation      Debt consolidation
## 7674   Fully Paid          n      debt_consolidation      Debt consolidation
## 7681   Fully Paid          n      debt_consolidation      Debt consolidation
## 7683   Fully Paid          n      debt_consolidation      Debt consolidation
## 7685   Fully Paid          n                   other                    Other
## 7702   Fully Paid          n                   other                    Other
## 7716   Fully Paid          n                   other                    Other
## 7717   Fully Paid          n        home_improvement        Home improvement
## 7721   Fully Paid          n                   other                    Other
## 7726   Fully Paid          n      debt_consolidation      Debt consolidation
## 7760   Fully Paid          n             credit_card Credit card refinancing
## 7766   Fully Paid          n      debt_consolidation      Debt consolidation
## 7793   Fully Paid          n             credit_card Credit card refinancing
## 7802   Fully Paid          n             credit_card Credit card refinancing
## 7826   Fully Paid          n      debt_consolidation      Debt consolidation
## 7846   Fully Paid          n                   house              Home buying
## 7866   Fully Paid          n      debt_consolidation      Debt consolidation
## 7883   Fully Paid          n      debt_consolidation      Debt consolidation
## 7885   Fully Paid          n      debt_consolidation      Debt consolidation
## 7911   Fully Paid          n      debt_consolidation      Debt consolidation
## 7917   Fully Paid          n                   other                    Other
## 7919  Charged Off          n      debt_consolidation      Debt consolidation
## 7922   Fully Paid          n      debt_consolidation      Debt consolidation
## 7928  Charged Off          n      debt_consolidation      Debt consolidation
## 7939   Fully Paid          n                   other                    Other
## 7941   Fully Paid          n             credit_card Credit card refinancing
## 7947  Charged Off          n                   other                    Other
## 7955   Fully Paid          n             credit_card Credit card refinancing
## 7968   Fully Paid          n      debt_consolidation      Debt consolidation
## 7969  Charged Off          n      debt_consolidation      Debt consolidation
## 7974   Fully Paid          n      debt_consolidation      Debt consolidation
## 7982  Charged Off          n      debt_consolidation      Debt consolidation
## 7995   Fully Paid          n      debt_consolidation      Debt consolidation
## 8000   Fully Paid          n                   other                    Other
## 8005   Fully Paid          n      debt_consolidation      Debt consolidation
## 8007   Fully Paid          n      debt_consolidation      Debt consolidation
## 8019   Fully Paid          n        home_improvement        Home improvement
## 8021   Fully Paid          n             credit_card Credit card refinancing
## 8039   Fully Paid          n      debt_consolidation      Debt consolidation
## 8055   Fully Paid          n      debt_consolidation      Debt consolidation
## 8061   Fully Paid          n             credit_card Credit card refinancing
## 8066   Fully Paid          n      debt_consolidation      Debt consolidation
## 8093   Fully Paid          n             credit_card Credit card refinancing
## 8095   Fully Paid          n      debt_consolidation      Debt consolidation
## 8100  Charged Off          n      debt_consolidation      Debt consolidation
## 8142   Fully Paid          n                 medical        Medical expenses
## 8149   Fully Paid          n             credit_card Credit card refinancing
## 8152   Fully Paid          n                   other                    Other
## 8156   Fully Paid          n      debt_consolidation      Debt consolidation
## 8165   Fully Paid          n      debt_consolidation      Debt consolidation
## 8201   Fully Paid          n      debt_consolidation      Debt consolidation
## 8203   Fully Paid          n             credit_card Credit card refinancing
## 8209   Fully Paid          n                     car           Car financing
## 8224  Charged Off          n      debt_consolidation      Debt consolidation
## 8246   Fully Paid          n      debt_consolidation      Debt consolidation
## 8256   Fully Paid          n                   other                    Other
## 8267  Charged Off          n                   other                    Other
## 8272   Fully Paid          n                     car           Car financing
## 8284  Charged Off          n             credit_card Credit card refinancing
## 8295   Fully Paid          n      debt_consolidation      Debt consolidation
## 8316  Charged Off          n             credit_card Credit card refinancing
## 8336   Fully Paid          n        home_improvement        Home improvement
## 8355   Fully Paid          n                   other                    Other
## 8360   Fully Paid          n          small_business                Business
## 8364   Fully Paid          n          major_purchase          Major purchase
## 8379   Fully Paid          n      debt_consolidation      Debt consolidation
## 8391  Charged Off          n             credit_card Credit card refinancing
## 8392  Charged Off          n      debt_consolidation      Debt consolidation
## 8396   Fully Paid          n      debt_consolidation      Debt consolidation
## 8437   Fully Paid          n        home_improvement        Home improvement
## 8459   Fully Paid          n                   other                    Other
## 8462   Fully Paid          n      debt_consolidation      Debt consolidation
## 8477   Fully Paid          n      debt_consolidation      Debt consolidation
## 8482   Fully Paid          n      debt_consolidation      Debt consolidation
## 8490  Charged Off          n             credit_card Credit card refinancing
## 8491   Fully Paid          n                   other                    Other
## 8496  Charged Off          n      debt_consolidation      Debt consolidation
## 8498   Fully Paid          n             credit_card Credit card refinancing
## 8516   Fully Paid          n             credit_card Credit card refinancing
## 8518   Fully Paid          n                   other                    Other
## 8522   Fully Paid          n             credit_card Credit card refinancing
## 8526   Fully Paid          n        home_improvement        Home improvement
## 8529   Fully Paid          n        home_improvement        Home improvement
## 8537   Fully Paid          n                 medical        Medical expenses
## 8552   Fully Paid          n      debt_consolidation      Debt consolidation
## 8585   Fully Paid          n      debt_consolidation      Debt consolidation
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## 8602  Charged Off          n      debt_consolidation      Debt consolidation
## 8627   Fully Paid          n             credit_card Credit card refinancing
## 8647   Fully Paid          n             credit_card Credit card refinancing
## 8674   Fully Paid          n          major_purchase          Major purchase
## 8709  Charged Off          n        home_improvement        Home improvement
## 8711   Fully Paid          n      debt_consolidation      Debt consolidation
## 8712  Charged Off          n                  moving   Moving and relocation
## 8721   Fully Paid          n      debt_consolidation      Debt consolidation
## 8735  Charged Off          n      debt_consolidation      Debt consolidation
## 8767   Fully Paid          n             credit_card Credit card refinancing
## 8783  Charged Off          n                   house             Home buying
## 8795   Fully Paid          n      debt_consolidation      Debt consolidation
## 8804  Charged Off          n             credit_card Credit card refinancing
## 8824  Charged Off          n                     car           Car financing
## 8835   Fully Paid          n      debt_consolidation      Debt consolidation
## 8862   Fully Paid          n        home_improvement        Home improvement
## 8864  Charged Off          n      debt_consolidation      Debt consolidation
## 8890   Fully Paid          n        home_improvement        Home improvement
## 8895   Fully Paid          n        home_improvement        Home improvement
## 8906  Charged Off          n      debt_consolidation      Debt consolidation
## 8944   Fully Paid          n      debt_consolidation      Debt consolidation
## 8946   Fully Paid          n      debt_consolidation      Debt consolidation
## 8953   Fully Paid          n      debt_consolidation      Debt consolidation
## 8963  Charged Off          n      debt_consolidation      Debt consolidation
## 8966   Fully Paid          n      debt_consolidation      Debt consolidation
## 8977   Fully Paid          n      debt_consolidation      Debt consolidation
## 9042  Charged Off          n      debt_consolidation      Debt consolidation
## 9047   Fully Paid          n             credit_card Credit card refinancing
## 9048   Fully Paid          n      debt_consolidation      Debt consolidation
## 9056   Fully Paid          n             credit_card Credit card refinancing
## 9057   Fully Paid          n             credit_card Credit card refinancing
## 9058   Fully Paid          n      debt_consolidation      Debt consolidation
## 9083   Fully Paid          n                   other                   Other
## 9091   Fully Paid          n      debt_consolidation      Debt consolidation
## 9096   Fully Paid          n      debt_consolidation      Debt consolidation
## 9098   Fully Paid          n        home_improvement        Home improvement
## 9101  Charged Off          n      debt_consolidation      Debt consolidation
## 9103   Fully Paid          n             credit_card Credit card refinancing
## 9140   Fully Paid          n      debt_consolidation      Debt consolidation
## 9154   Fully Paid          n      debt_consolidation      Debt consolidation
## 9160   Fully Paid          n      debt_consolidation      Debt consolidation
## 9163   Fully Paid          n                   other                   Other
## 9202   Fully Paid          n      debt_consolidation      Debt consolidation
## 9240   Fully Paid          n                   other                   Other
## 9243   Fully Paid          n      debt_consolidation      Debt consolidation
## 9245   Fully Paid          n                   other                   Other
## 9254   Fully Paid          n      debt_consolidation      Debt consolidation
## 9286   Fully Paid          n      debt_consolidation      Debt consolidation
## 9294   Fully Paid          n        home_improvement        Home improvement
## 9321   Fully Paid          n        home_improvement        Home improvement
## 9336   Fully Paid          n                   other                   Other
## 9380   Fully Paid          n      debt_consolidation      Debt consolidation
## 9383  Charged Off          n             credit_card Credit card refinancing
## 9388   Fully Paid          n      debt_consolidation      Debt consolidation
## 9413   Fully Paid          n             credit_card Credit card refinancing
## 9431   Fully Paid          n                   other                   Other
## 9432   Fully Paid          n      debt_consolidation      Debt consolidation
## 9444   Fully Paid          n      debt_consolidation      Debt consolidation
## 9459   Fully Paid          n        home_improvement        Home improvement
## 9464   Fully Paid          n                   house             Home buying
## 9474   Fully Paid          n                   other                   Other
## 9481   Fully Paid          n      debt_consolidation      Debt consolidation
## 9497   Fully Paid          n      debt_consolidation      Debt consolidation
## 9499   Fully Paid          n      debt_consolidation      Debt consolidation
## 9503   Fully Paid          n                   other                   Other
## 9506   Fully Paid          n      debt_consolidation      Debt consolidation
## 9509   Fully Paid          n      debt_consolidation      Debt consolidation
## 9522   Fully Paid          n      debt_consolidation      Debt consolidation
## 9546   Fully Paid          n             credit_card Credit card refinancing
## 9559   Fully Paid          n                   other                   Other
## 9573   Fully Paid          n      debt_consolidation      Debt consolidation
## 9610   Fully Paid          n             credit_card Credit card refinancing
## 9614   Fully Paid          n      debt_consolidation      Debt consolidation
## 9627   Fully Paid          n      debt_consolidation      Debt consolidation
## 9628  Charged Off          n      debt_consolidation      Debt consolidation
## 9629   Fully Paid          n      debt_consolidation      Debt consolidation
## 9652   Fully Paid          n      debt_consolidation      Debt consolidation
## 9677   Fully Paid          n      debt_consolidation      Debt consolidation
## 9681   Fully Paid          n      debt_consolidation      Debt consolidation
## 9690  Charged Off          n                   house             Home buying
## 9697  Charged Off          n      debt_consolidation      Debt consolidation
## 9701   Fully Paid          n      debt_consolidation      Debt consolidation
## 9705  Charged Off          n             credit_card Credit card refinancing
## 9714   Fully Paid          n                   house             Home buying
## 9718  Charged Off          n      debt_consolidation      Debt consolidation
## 9722   Fully Paid          n                     car           Car financing
## 9748   Fully Paid          n      debt_consolidation      Debt consolidation
## 9751   Fully Paid          n             credit_card Credit card refinancing
## 9753   Fully Paid          n      debt_consolidation      Debt consolidation
## 9773  Charged Off          n        home_improvement        Home improvement
## 9783   Fully Paid          n      debt_consolidation      Debt consolidation
## 9786   Fully Paid          n             credit_card Credit card refinancing
## 9796  Charged Off          n             credit_card Credit card refinancing
## 9811   Fully Paid          n      debt_consolidation      Debt consolidation
## 9816   Fully Paid          n             credit_card Credit card refinancing
## 9817  Charged Off          n      debt_consolidation      Debt consolidation
## 9820   Fully Paid          n          major_purchase          Major purchase
## 9834   Fully Paid          n                   other                   Other
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## 9843   Fully Paid          n        home_improvement        Home improvement
## 9872   Fully Paid          n             credit_card Credit card refinancing
## 9882   Fully Paid          n      debt_consolidation      Debt consolidation
## 9898   Fully Paid          n      debt_consolidation      Debt consolidation
## 9904  Charged Off          n      debt_consolidation      Debt consolidation
## 9924  Charged Off          n                   other                   Other
## 9943   Fully Paid          n      debt_consolidation      Debt consolidation
## 9945   Fully Paid          n             credit_card Credit card refinancing
## 9983  Charged Off          n      debt_consolidation      Debt consolidation
## 9988   Fully Paid          n          major_purchase          Major purchase
## 10024  Fully Paid          n      debt_consolidation      Debt consolidation
## 10033 Charged Off          n             credit_card Credit card refinancing
## 10058 Charged Off          n        home_improvement        Home improvement
## 10062  Fully Paid          n      debt_consolidation      Debt consolidation
## 10078  Fully Paid          n      debt_consolidation      Debt consolidation
## 10088  Fully Paid          n      debt_consolidation      Debt consolidation
## 10096  Fully Paid          n                   other                   Other
## 10110  Fully Paid          n             credit_card Credit card refinancing
## 10166  Fully Paid          n      debt_consolidation      Debt consolidation
## 10167  Fully Paid          n        home_improvement        Home improvement
## 10192 Charged Off          n      debt_consolidation      Debt consolidation
## 10195  Fully Paid          n             credit_card Credit card refinancing
##       zip_code addr_state   dti delinq_2yrs earliest_cr_line inq_last_6mths
## 4        435xx         OH 20.78           0         Sep-2007              0
## 7        605xx         IL 23.65           0         Jan-2009              0
## 9        600xx         IL 10.60           1         Jun-1982              1
## 14       066xx         CT 21.28           0         Dec-1989              2
## 23       234xx         VA 35.71           0         Apr-2003              0
## 34       430xx         OH 26.78           1         Sep-2011              1
## 40       967xx         HI  9.41           0         Oct-2004              1
## 49       212xx         MD  3.66           0         Aug-1988              0
## 50       125xx         NY 19.51           0         Aug-1990              0
## 51       104xx         NY 16.53           1         Jun-2015              1
## 68       477xx         IN 35.55           2         Jun-1994              1
## 82       021xx         MA 14.67           0         Oct-1995              1
## 115      606xx         IL 11.90           0         Sep-2006              0
## 140      018xx         MA 27.03           1         May-2005              0
## 158      774xx         TX 17.17           1         Jul-2004              1
## 162      808xx         CO  5.31           2         Jun-2001              2
## 167      329xx         FL 18.59           0         Apr-2004              2
## 182      633xx         MO 14.04           2         Oct-2002              1
## 186      980xx         WA  9.61           0         May-2002              2
## 200      211xx         MD 16.09           0         Oct-2001              0
## 239      061xx         CT 22.55           0         Aug-2007              0
## 249      331xx         FL  7.87           1         Jan-1999              0
## 261      335xx         FL 11.88           0         Mar-2013              0
## 273      104xx         NY  3.20           0         Aug-2004              1
## 276      993xx         WA 22.39           0         Sep-2005              1
## 345      760xx         TX 35.65           0         Oct-2002              0
## 369      230xx         VA 31.52           0         Mar-2003              0
## 379      442xx         OH 33.36           0         Mar-2007              0
## 389      212xx         MD 12.39           1         Aug-2008              0
## 395      774xx         TX 19.23           1         Dec-2004              1
## 403      956xx         CA 21.35           0         May-2013              0
## 408      291xx         SC 21.87           0         Nov-1975              0
## 411      786xx         TX  4.35           0         Aug-2007              0
## 426      207xx         MD 16.46           1         Jan-1983              0
## 438      743xx         OK 19.22           0         Jul-1989              0
## 441      347xx         FL 30.63           2         Apr-2012              0
## 443      286xx         NC 10.92           3         Nov-1999              1
## 468      936xx         CA 12.31           2         Feb-2011              0
## 469      535xx         WI 17.39           0         Dec-1998              0
## 480      080xx         NJ 37.91           0         Jul-2005              0
## 482      258xx         WV 14.34           1         Mar-2003              3
## 483      853xx         AZ 20.96           0         Mar-2001              1
## 513      606xx         IL 12.05           1         Apr-2002              1
## 566      770xx         TX 32.72           0         Sep-2002              0
## 569      754xx         TX 24.54           0         Dec-2005              0
## 587      015xx         MA 15.34           0         Dec-1992              2
## 597      143xx         NY 17.00           0         Sep-2005              0
## 605      853xx         AZ  8.17           2         Jan-1999              2
## 627      606xx         IL 20.56           0         Jun-1996              1
## 644      970xx         OR  4.85           0         Jun-2012              0
## 677      142xx         NY 17.68           1         Jan-2002              0
## 687      945xx         CA  6.53           0         Jul-2008              1
## 708      957xx         CA 13.61           0         Mar-2006              1
## 718      945xx         CA 21.86           0         Oct-1997              1
## 721      145xx         NY 22.45           1         Oct-2002              1
## 743      606xx         IL 17.51           0         Sep-1994              0
## 744      920xx         CA 10.00           0         Dec-2004              0
## 745      410xx         KY 22.14           0         Sep-2009              1
## 758      277xx         NC 25.02           0         Sep-2000              2
## 777      769xx         TX 14.04           0         Oct-2001              0
## 802      945xx         CA 24.79           0         Dec-1987              0
## 818      117xx         NY 24.66           1         Aug-2006              0
## 832      300xx         GA 15.25           2         Oct-2009              1
## 856      950xx         CA 11.06           0         Feb-1996              0
## 857      282xx         NC 16.91           0         Oct-1996              0
## 858      778xx         TX  2.63           1         Oct-2001              1
## 882      956xx         CA 12.17           0         Nov-1999              0
## 883      565xx         MN 11.98           0         Sep-2006              0
## 889      990xx         WA 29.30           1         Apr-2011              0
## 903      928xx         CA 14.50           1         Dec-2004              1
## 907      945xx         CA 22.43           0         Jul-2007              0
## 915      949xx         CA 16.66           0         Feb-2006              0
## 920      329xx         FL 14.88           0         Feb-1997              0
## 939      358xx         AL 15.94           0         Jul-2006              1
## 954      496xx         MI 20.09           0         Oct-2007              0
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## 969      983xx         WA 23.73          3         Jun-2004             0
## 1002     163xx         PA 31.19          1         Feb-2006             0
## 1015     104xx         NY 13.78          0         May-2005             1
## 1024     300xx         GA 16.04          0         Sep-1987             1
## 1029     190xx         PA 26.14          1         Sep-2005             2
## 1031     327xx         FL 22.60          1         Jun-1988             0
## 1053     482xx         MI 14.47          0         Jan-2003             1
## 1057     760xx         TX 34.86          0         Feb-2004             1
## 1080     226xx         VA 12.49          1         Nov-2003             0
## 1108     541xx         WI  5.80          1         Aug-2002             1
## 1109     452xx         OH 13.37          4         Oct-2007             0
## 1110     805xx         CO 19.65          0         Nov-1996             2
## 1112     891xx         NV 16.05          4         Jan-2007             0
## 1115     683xx         NE 12.20          0         Jun-1999             0
## 1121     762xx         TX 18.20          0         Feb-2006             0
## 1122     029xx         RI  4.64          0         Dec-2005             1
## 1139     063xx         CT 18.96          0         Apr-2005             0
## 1163     370xx         TN 21.12          0         May-1999             0
## 1181     330xx         FL 22.40          0         Jan-2004             0
## 1187     018xx         MA 13.01          0         Aug-1997             0
## 1194     111xx         NY  4.54          1         Jun-2012             3
## 1197     761xx         TX 20.76          0         Apr-1988             1
## 1209     556xx         MN 26.90          0         Aug-2003             1
## 1224     708xx         LA 26.13          5         Jan-2002             2
## 1257     483xx         MI 19.29          1         Nov-2002             0
## 1262     481xx         MI 13.65          0         Oct-2010             2
## 1275     498xx         MI 29.14          0         Jul-2006             0
## 1336     372xx         TN 26.64          0         Dec-1999             0
## 1343     774xx         TX 16.53          0         Feb-1994             0
## 1346     604xx         IL 16.81          0         Jun-2003             1
## 1347     850xx         AZ 19.94          3         Sep-2009             0
## 1379     940xx         CA  7.55          0         Dec-1999             0
## 1418     809xx         CO 28.63          0         Feb-2009             1
## 1425     283xx         NC 15.78          1         May-2005             0
## 1450     150xx         PA 19.99          0         Jan-2012             0
## 1451     630xx         MO 15.79          0         Sep-1990             0
## 1452     113xx         NY 12.24          0         Mar-2001             0
## 1465     769xx         TX 15.21          1         May-2007             2
## 1468     114xx         NY  8.88          1         Jul-1997             1
## 1478     853xx         AZ 16.20          0         Dec-2004             0
## 1479     312xx         GA 23.86          1         Sep-2006             0
## 1500     671xx         KS 36.47          1         Jan-1973             2
## 1509     933xx         CA 23.63          0         Jun-2006             1
## 1524     114xx         NY  9.97          0         Sep-2000             0
## 1533     104xx         NY  8.39          0         Mar-2007             1
## 1534     068xx         CT  5.27          1         Sep-1999             0
## 1537     117xx         NY 16.54          3         Nov-1998             1
## 1548     029xx         RI 15.77          0         Jan-2006             1
## 1566     300xx         GA 28.51          1         Jun-2003             0
## 1575     297xx         SC 11.53          0         Feb-2013             0
## 1620     206xx         MD 30.56          0         Aug-2000             0
## 1632     112xx         NY  1.79          0         Oct-2003             2
## 1661     483xx         MI  7.41          0         Oct-2004             0
## 1666     152xx         PA 11.86          2         Jun-1995             3
## 1679     922xx         CA 10.04          1         May-2011             0
## 1686     211xx         MD  7.41          0         Jun-2006             3
## 1688     917xx         CA 20.51          3         Mar-1996             1
## 1726     606xx         IL 18.43          0         Dec-2000             0
## 1738     347xx         FL 17.43          2         Nov-2002             0
## 1744     229xx         VA  7.15          1         Sep-1996             0
## 1750     622xx         IL 20.66          0         Dec-1994             0
## 1754     684xx         NE 21.97          0         Jun-2006             0
## 1762     972xx         OR 15.72          2         Nov-1991             0
## 1809     370xx         TN 18.09          0         Apr-1996             1
## 1811     921xx         CA  3.40          0         Mar-2005             0
## 1819     317xx         GA 21.89         10         Jun-1999             0
## 1880     336xx         FL 22.25          2         Oct-2010             0
## 1881     224xx         VA 13.50          0         Apr-2002             1
## 1894     070xx         NJ  5.76          0         Apr-1996             0
## 1900     932xx         CA 18.48          1         Jan-2010             0
## 1915     104xx         NY 19.62          0         Mar-2001             0
## 1919     850xx         AZ 25.76          0         Jan-2005             0
## 1942     900xx         CA  9.41          0         Aug-2008             0
## 1943     554xx         MN 25.66          0         Dec-2005             1
## 1958     223xx         VA  9.18          0         Jan-2004             3
## 1991     120xx         NY 26.86          0         Sep-2006             1
## 1994     935xx         CA 32.58          1         Nov-1999             1
## 1997     956xx         CA  6.57          0         Sep-2005             0
## 2001     606xx         IL 12.84          0         Aug-1992             0
## 2013     230xx         VA  6.18          0         Jun-1995             0
## 2015     208xx         MD 27.78          1         Nov-1997             1
## 2018     596xx         MT  6.11          0         Sep-2003             0
## 2050     840xx         UT 15.45          1         Nov-1989             0
## 2074     300xx         GA  6.16          2         Apr-1998             2
## 2077     293xx         SC 34.21          0         Jun-2005             1
## 2092     207xx         MD 13.12          1         Jul-2015             0
## 2161     941xx         CA  3.97          0         Feb-2007             1
## 2165     802xx         CO 21.35          0         Nov-2006             0
## 2170     381xx         TN 36.07          1         Dec-2005             0
## 2171     495xx         MI 13.46          0         Feb-2005             0
## 2172     236xx         VA 23.14          1         Oct-2005             0
## 2192     752xx         TX 11.77          1         Oct-1982             0
## 2194     296xx         SC 22.29          0         Sep-1995             0
## 2196     985xx         WA 15.50          0         Jan-1996             0
## 2248     705xx         LA 30.46          1         Oct-1994             0
## 2253     843xx         UT  9.36          0         Aug-1996             0
## 2254     700xx         LA 19.86          2         Sep-2001             0
## 2257     917xx         CA  9.66          0         Sep-2003             1
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## 2263     804xx         CO 11.92           0         Jan-2008             1
## 2277     331xx         FL 13.14           0         Jan-2005             0
## 2289     928xx         CA  7.94           0         Jan-2005             2
## 2303     605xx         IL 35.31           0         Sep-1995             2
## 2312     882xx         NM  8.41           1         Aug-2005             1
## 2318     140xx         NY 18.22           0         Oct-1994             1
## 2320     070xx         NJ 12.53           1         Nov-2012             2
## 2326     193xx         PA 17.51           0         Sep-2012             0
## 2328     945xx         CA 21.81           0         Oct-2004             0
## 2341     945xx         CA  7.16           0         May-2011             0
## 2348     928xx         CA 24.82           0         Aug-1994             1
## 2370     082xx         NJ 10.76           0         Oct-2002             0
## 2376     117xx         NY 16.87           2         Sep-2007             1
## 2382     223xx         VA  8.61           1         Apr-1995             2
## 2385     646xx         MO 22.09           0         Dec-2003             0
## 2406     072xx         NJ 24.87           0         Nov-1997             0
## 2409     305xx         GA 35.82           1         Aug-2006             2
## 2421     195xx         PA 23.60           0         May-2002             3
## 2456     359xx         AL 29.21           0         Jun-2006             1
## 2462     480xx         MI  4.17           1         Sep-2006             2
## 2476     920xx         CA 11.81           0         Dec-2001             0
## 2481     124xx         NY 17.57           0         Dec-1998             0
## 2488     685xx         NE 34.18           0         Dec-2004             0
## 2496     223xx         VA  8.37           0         Mar-1987             0
## 2520     211xx         MD  7.73           0         Apr-2010             1
## 2531     917xx         CA  5.27           0         Apr-1994             0
## 2541     189xx         PA 16.30           0         Aug-1996             1
## 2544     057xx         VT 35.70           0         Sep-1997             1
## 2563     850xx         AZ 18.60           0         Dec-2000             0
## 2568     748xx         OK 34.71           1         Feb-1995             1
## 2580     434xx         OH 13.48           1         Apr-1998             1
## 2599     330xx         FL 20.90           0         Mar-2006             0
## 2600     734xx         OK 10.91           0         Sep-2001             0
## 2602     636xx         MO 19.37           0         Apr-2002             1
## 2605     105xx         NY 14.77           0         Jun-2006             0
## 2615     338xx         FL 19.64           0         Aug-2000             0
## 2620     481xx         MI 26.79           0         Oct-1989             0
## 2623     604xx         IL  7.70           0         Jun-1995             0
## 2651     236xx         VA 11.06           1         Feb-2006             1
## 2655     300xx         GA 12.66           0         Aug-2005             0
## 2659     195xx         PA 22.41           0         Dec-2008             1
## 2660     721xx         AR 36.87           0         Jul-1994             0
## 2663     320xx         FL 20.73           0         Feb-1992             1
## 2667     986xx         WA 10.76           1         Apr-2008             0
## 2672     117xx         NY 13.32           0         Mar-2003             1
## 2677     115xx         NY 12.54           0         Sep-1982             0
## 2690     490xx         MI 21.70           0         Apr-2011             1
## 2695     339xx         FL 27.53           0         Dec-2002             0
## 2702     175xx         PA 15.65           0         Jun-2008             1
## 2710     850xx         AZ 14.51           1         Aug-2003             0
## 2738     191xx         PA 22.92           1         Oct-2006             1
## 2742     113xx         NY 24.68           1         Jan-1998             2
## 2745     134xx         NY 25.43           0         Feb-2002             0
## 2773     618xx         IL  5.69           1         Apr-2007             1
## 2787     840xx         UT  8.77           3         Mar-1991             1
## 2792     890xx         NV 27.47           0         May-1985             0
## 2803     853xx         AZ 28.56           0         Jan-2004             1
## 2813     397xx         MS 26.40           0         Jul-2001             0
## 2817     774xx         TX 22.16           0         Aug-2007             0
## 2819     804xx         CO 11.78           2         May-2006             1
## 2832     641xx         MO 28.28           0         Oct-2007             1
## 2857     146xx         NY 34.65           2         Sep-2005             2
## 2860     316xx         GA 23.52           0         Sep-2004             1
## 2865     615xx         IL  6.97           0         Dec-2002             1
## 2875     463xx         IN 19.09           0         Mar-2012             2
## 2880     115xx         NY 10.97           0         Nov-2004             1
## 2894     463xx         IN 29.69           0         Mar-2000             1
## 2899     176xx         PA 15.05           1         Sep-2002             1
## 2912     450xx         OH 38.57           0         Dec-2006             0
## 2927     913xx         CA 16.45           0         Feb-2009             0
## 2933     112xx         NY  2.63           1         Jan-2010             0
## 2947     328xx         FL 12.70           0         May-2004             1
## 2951     066xx         CT  9.84           0         Dec-1995             0
## 2957     895xx         NV  9.26           0         Mar-1999             0
## 2961     328xx         FL 18.13           0         Nov-1994             1
## 2968     334xx         FL 24.98           1         Jan-1979             2
## 2971     681xx         NE 15.59           0         Feb-2006             1
## 2995     442xx         OH 17.27           0         May-2004             1
## 3032     751xx         TX 39.59           1         Feb-2004             1
## 3036     060xx         CT  6.82           1         Sep-1980             0
## 3040     113xx         NY  8.95           1         Feb-2002             0
## 3053     117xx         NY  4.62           1         Apr-1988             1
## 3062     640xx         MO 20.59           0         Apr-2004             0
## 3067     065xx         CT 18.22           0         Oct-2002             0
## 3074     488xx         MI 13.73           0         May-1998             1
## 3092     890xx         NV 13.17           2         Oct-1994             0
## 3102     871xx         NM  4.12           1         Jun-2006             1
## 3119     928xx         CA  3.10           0         Nov-1990             2
## 3123     141xx         NY  9.17           2         Aug-1999             0
## 3134     460xx         IN 10.31           0         May-1999             0
## 3141     952xx         CA 16.74           0         Aug-2006             1
## 3143     604xx         IL 22.06           0         Aug-2002             3
## 3173     535xx         WI 16.82           0         Nov-1995             1
## 3178     894xx         NV 12.26           0         Jan-2003             0
## 3186     105xx         NY  5.38           1         Oct-2008             2
## 3204     221xx         VA 13.73           0         Apr-2004             2
## 3210     436xx         OH 21.22           1         Jan-1976             2
## 3211     448xx         OH 26.25           0         May-1997             0
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## 3218     235xx         VA 38.40          1         Aug-2002             0
## 3230     074xx         NJ 20.13          2         Jun-2011             0
## 3251     606xx         IL  5.86          0         Feb-2002             3
## 3262     327xx         FL 18.37          0         Mar-2004             0
## 3269     952xx         CA 12.45          1         Feb-2011             0
## 3271     973xx         OR 26.05          0         Oct-2005             0
## 3278     553xx         MN 20.81          0         Feb-2004             1
## 3282     357xx         AL  6.53          0         Nov-2002             2
## 3302     329xx         FL  8.90          0         Jun-1997             0
## 3318     221xx         VA 24.61          0         Aug-2003             1
## 3323     910xx         CA 25.56          2         May-1990             2
## 3367     301xx         GA  7.77          3         Feb-2002             1
## 3376     070xx         NJ 15.07          0         Dec-2004             0
## 3392     606xx         IL 24.18          0         Mar-1997             0
## 3409     132xx         NY 17.10          1         Dec-1999             0
## 3416     857xx         AZ 15.72          0         Jan-2006             0
## 3436     551xx         MN 10.38          1         Apr-1999             1
## 3441     201xx         VA  6.21          0         Nov-2003             0
## 3472     112xx         NY 28.99          0         Apr-2008             0
## 3485     060xx         CT  7.93          3         Dec-2003             1
## 3492     080xx         NJ 36.03          1         Oct-2007             1
## 3494     700xx         LA 39.03          1         Aug-2006             1
## 3501     945xx         CA 25.61          2         Nov-2005             0
## 3506     494xx         MI 22.55          0         Feb-2010             0
## 3530     921xx         CA  9.39          0         Feb-1998             1
## 3565     605xx         IL 20.45          2         Oct-1999             1
## 3577     334xx         FL  7.59          0         Jan-2009             1
## 3613     754xx         TX 13.48          1         Feb-1998             3
## 3617     762xx         TX  8.27          0         Sep-2005             0
## 3639     291xx         SC 23.22          0         Mar-2005             0
## 3657     462xx         IN 16.64          0         Mar-1991             0
## 3668     956xx         CA  8.53          0         Jan-2008             1
## 3686     852xx         AZ 16.28          0         Jul-2002             0
## 3698     285xx         NC 14.71          0         Sep-1996             0
## 3704     618xx         IL 14.96          0         Mar-1999             0
## 3707     365xx         AL 18.67          1         Dec-1997             0
## 3780     760xx         TX 16.27          0         Jul-1985             0
## 3790     112xx         NY 14.77          0         Aug-2005             0
## 3794     920xx         CA 17.62          1         Nov-2005             2
## 3796     373xx         TN  7.99          1         Jul-2003             0
## 3822     197xx         DE  7.14          0         Sep-2007             0
## 3825     078xx         NJ 14.00          0         Feb-2009             0
## 3861     191xx         PA  3.17          0         Apr-2000             0
## 3887     900xx         CA 28.87          0         Jun-1975             2
## 3921     152xx         PA 17.11          0         Dec-2007             0
## 3922     086xx         NJ  9.99          0         Oct-2005             0
## 3926     492xx         MI 20.30          0         Aug-2002             1
## 3943     950xx         CA  3.21          1         Dec-1998             1
## 3954     234xx         VA 29.76          3         Dec-2003             0
## 3964     301xx         GA 19.79          0         Dec-1990             0
## 3976     329xx         FL 33.75          0         Feb-2000             0
## 3984     325xx         FL  6.42          0         Apr-2003             2
## 4006     394xx         MS 22.53          0         Jun-2006             0
## 4010     442xx         OH  9.70          0         Apr-2010             1
## 4028     786xx         TX 11.88          0         Aug-2003             0
## 4043     852xx         AZ  8.90          1         Sep-1997             1
## 4045     021xx         MA 18.14          0         Feb-2013             0
## 4053     481xx         MI 16.10          0         Aug-1994             1
## 4055     117xx         NY  7.54          0         Dec-2004             1
## 4057     775xx         TX 21.91          0         Jul-2003             0
## 4098     333xx         FL 23.99          0         Jun-2001             1
## 4100     296xx         SC  6.22          0         Jun-2004             1
## 4113     891xx         NV 36.60          0         Mar-2003             2
## 4119     572xx         SD 21.18          1         Nov-1994             0
## 4136     841xx         UT 25.35          1         Aug-1981             2
## 4138     171xx         PA 28.85          0         Jan-2008             0
## 4150     112xx         NY 15.24          0         Mar-2013             0
## 4169     021xx         MA 13.30          1         Sep-2002             0
## 4173     146xx         NY 14.57          1         Jul-1991             0
## 4193     337xx         FL  8.88          0         Nov-2005             1
## 4198     945xx         CA 15.36          0         Mar-2002             0
## 4203     170xx         PA 22.83          0         Sep-2000             0
## 4211     086xx         NJ 26.01          0         May-1976             2
## 4220     031xx         NH 33.80          0         May-2004             1
## 4229     320xx         FL 18.36          0         Apr-2007             0
## 4247     981xx         WA 16.98          0         Apr-2006             2
## 4273     331xx         FL 10.42          4         Sep-2005             0
## 4274     336xx         FL  5.49          3         Oct-2005             0
## 4284     344xx         FL 19.67          0         Nov-2011             2
## 4301     467xx         IN 15.21          0         Mar-2008             2
## 4325     805xx         CO 12.58          4         Apr-1988             2
## 4349     761xx         TX 18.83          1         Jun-2001             0
## 4350     207xx         MD  6.02          0         Jul-2004             0
## 4370     814xx         CO 22.08          1         Mar-1994             0
## 4372     974xx         OR 14.08          0         Nov-1997             0
## 4388     327xx         FL  7.54          1         Jan-1998             0
## 4390     254xx         WV 28.56          0         Oct-1997             1
## 4400     320xx         FL  9.86          0         Jun-2007             0
## 4401     913xx         CA 16.43          0         May-2003             0
## 4402     219xx         MD 13.30          1         Nov-1996             1
## 4418     284xx         NC 12.79          0         Dec-1997             0
## 4421     112xx         NY  5.45          1         Apr-1994             1
## 4431     993xx         WA 10.68          0         Jan-2000             0
## 4440     460xx         IN 16.73          0         Sep-1997             0
## 4458     325xx         FL  4.41          0         Dec-2009             0
## 4461     633xx         MO 23.50          0         Sep-2008             2
## 4469     112xx         NY  6.56          0         Jan-2006             0
## 4472     063xx         CT 28.15          0         Nov-2004             0
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## 4479     365xx         AL  9.89          0         Nov-1994             1
## 4483     853xx         AZ 11.81          1         Nov-2004             1
## 4503     852xx         AZ 20.39          7         Oct-1993             1
## 4519     290xx         SC 24.86          0         Aug-2002             1
## 4522     908xx         CA 11.73          0         Sep-1998             0
## 4525     370xx         TN 27.95          0         Jan-2003             1
## 4528     891xx         NV 11.60          0         Apr-2000             0
## 4538     206xx         MD 29.55          0         Mar-2006             0
## 4548     993xx         WA 29.60          1         Jul-2002             0
## 4554     906xx         CA 18.68          0         Oct-2006             0
## 4557     357xx         AL 25.16          0         Sep-1994             0
## 4569     274xx         NC 11.32          0         May-2007             1
## 4576     351xx         AL  7.46          2         Jun-2005             0
## 4590     294xx         SC  3.61          0         May-1997             3
## 4594     068xx         CT  8.18          0         Jan-1993             0
## 4604     604xx         IL 28.96          0         Feb-2000             1
## 4622     328xx         FL 37.90          0         Mar-2002             1
## 4626     882xx         NM  9.80          0         Dec-2008             1
## 4629     131xx         NY 23.51          1         Dec-1994             2
## 4633     125xx         NY 10.15          1         Aug-2005             0
## 4646     452xx         OH 10.03          0         Apr-2007             1
## 4650     599xx         MT 11.30          0         Sep-2006             0
## 4660     550xx         MN 19.20          0         Dec-2004             0
## 4673     112xx         NY 13.52          0         Apr-2003             0
## 4684     236xx         VA 22.47          0         Aug-2001             0
## 4699     226xx         VA 35.22          1         Aug-2003             2
## 4720     302xx         GA 16.22          0         Jul-2003             0
## 4724     959xx         CA 10.73          0         Dec-1998             1
## 4728     325xx         FL 19.58          1         Oct-2011             0
## 4751     175xx         PA 18.45          0         Nov-2003             0
## 4778     017xx         MA 20.60          3         Aug-2002             0
## 4812     300xx         GA 14.43          3         Sep-2001             0
## 4820     477xx         IN 24.53          0         Feb-2006             1
## 4835     740xx         OK 19.14          0         May-2008             2
## 4843     239xx         VA  6.65          3         Aug-1976             1
## 4876     890xx         NV 18.46          0         Jun-2005             0
## 4882     891xx         NV  3.44          0         Jan-1975             1
## 4895     797xx         TX 13.88          0         Jul-2014             0
## 4907     770xx         TX 33.13          0         Jul-2005             0
## 4912     303xx         GA 12.82          1         May-1999             0
## 4941     923xx         CA 23.40          0         Sep-2003             0
## 4952     957xx         CA 10.81          2         May-2005             2
## 4954     331xx         FL 14.45          0         Dec-2005             0
## 4956     482xx         MI 13.92          0         Jul-2003             3
## 4957     787xx         TX 21.10          1         Sep-2004             0
## 4959     606xx         IL 15.57          0         Apr-2006             2
## 4960     778xx         TX  9.45          1         Oct-2001             1
## 4987     939xx         CA  9.36          0         Jan-2004             1
## 5022     923xx         CA 15.93          0         Aug-2006             1
## 5027     913xx         CA  6.31          3         Feb-2007             0
## 5029     840xx         UT  7.18          1         May-2008             2
## 5053     805xx         CO 14.38          0         Jan-1990             2
## 5054     194xx         PA 10.65          1         Sep-2005             0
## 5055     310xx         GA  5.83          0         May-2001             1
## 5066     373xx         TN  9.45          0         Jul-1991             2
## 5069     117xx         NY 14.16          0         Apr-1996             1
## 5077     301xx         GA 11.92          0         Mar-2006             1
## 5091     926xx         CA 13.32          0         Feb-1985             0
## 5110     371xx         TN 31.80          0         Dec-1999             1
## 5114     296xx         SC  2.57          0         May-2007             0
## 5161     371xx         TN 28.11          0         Dec-2004             2
## 5215     922xx         CA 10.27          0         Sep-1997             0
## 5216     731xx         OK 21.71          0         Jul-1995             0
## 5219     906xx         CA 23.08          1         Sep-2000             0
## 5251     300xx         GA  4.76          1         Apr-2006             1
## 5254     926xx         CA 12.07          0         Oct-1995             0
## 5258     117xx         NY 14.19          3         Jun-1997             1
## 5269     028xx         RI 11.71          1         Dec-2003             0
## 5277     152xx         PA 31.13          0         Sep-2010             1
## 5285     809xx         CO 12.60          0         Mar-2008             0
## 5291     394xx         MS 16.04          1         Feb-1998             0
## 5292     080xx         NJ 11.49          1         Mar-2008             1
## 5340     301xx         GA 27.62          0         Jan-2004             1
## 5341     717xx         AR 23.80          2         Mar-1999             0
## 5347     933xx         CA 13.96          1         Aug-2008             1
## 5373     945xx         CA  9.17          0         Jun-1998             0
## 5382     211xx         MD 21.85          0         Sep-1987             1
## 5394     790xx         TX 14.65          0         Dec-2004             0
## 5432     937xx         CA 21.92          0         Mar-2012             0
## 5443     850xx         AZ 13.27          0         May-2000             1
## 5445     112xx         NY 18.28          0         Apr-2005             1
## 5454     930xx         CA 11.12          0         Dec-2005             1
## 5464     852xx         AZ 17.99          0         Nov-2004             0
## 5479     895xx         NV 13.63          0         Apr-1986             0
## 5503     484xx         MI  7.73          1         Nov-2006             0
## 5514     985xx         WA 20.77          0         Jun-1994             0
## 5517     152xx         PA  8.94          0         Jul-2009             1
## 5545     972xx         OR  8.37          0         Feb-2003             1
## 5549     852xx         AZ 11.35          0         Dec-1990             1
## 5558     120xx         NY 12.69          1         Nov-2007             0
## 5569     347xx         FL 12.54          1         Nov-1977             0
## 5590     437xx         OH 22.04          1         Apr-2004             0
## 5592     815xx         CO 17.99          1         Jan-1997             0
## 5608     982xx         WA 13.09          0         Nov-1994             0
## 5609     253xx         WV 13.09          0         Oct-2003             0
## 5611     921xx         CA  7.38          0         Apr-2004             0
## 5624     481xx         MI 26.10          0         Dec-2008             0
## 5651     432xx         OH  6.96          0         Apr-2001             0
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## 5673     920xx         CA 14.37          1         May-1997             0
## 5692     494xx         MI 17.16          0         Jul-2008             2
## 5694     112xx         NY 14.68          0         Jul-1999             3
## 5716     106xx         NY 19.30          0         Feb-2003             1
## 5736     028xx         RI 13.16          0         May-2012             0
## 5745     296xx         SC 14.28          1         Feb-1994             0
## 5777     342xx         FL 11.95          1         Nov-2006             0
## 5789     945xx         CA 15.52          0         Nov-1981             1
## 5822     349xx         FL 12.73          1         Mar-2003             0
## 5831     482xx         MI 20.09          0         Dec-1992             1
## 5843     773xx         TX 19.66          1         Apr-1980             0
## 5863     967xx         HI  2.91          0         Apr-1999             1
## 5865     601xx         IL  7.84          1         Sep-1978             0
## 5868     960xx         CA 12.54          0         Aug-2007             0
## 5870     493xx         MI 26.84          1         Apr-2013             1
## 5882     745xx         OK 11.41          1         Dec-1993             0
## 5883     212xx         MD 12.36          0         Jan-2006             0
## 5888     571xx         SD 24.68          1         Dec-2014             1
## 5899     604xx         IL 21.33          1         Oct-2005             3
## 5902     900xx         CA 17.19          0         Sep-2000             0
## 5903     209xx         MD  8.36          2         Jan-2011             0
## 5904     112xx         NY 12.16          0         Aug-1999             0
## 5906     240xx         VA 25.16          0         Sep-1987             0
## 5907     232xx         VA  9.70          0         Jun-2000             0
## 5932     770xx         TX 16.80          1         Aug-2005             0
## 5933     111xx         NY  9.60          2         Apr-2006             2
## 5940     237xx         VA 14.59          0         Jun-2006             0
## 5942     591xx         MT  5.27          0         Sep-2006             0
## 5946     333xx         FL  6.46          1         Jul-2007             1
## 5955     907xx         CA 12.37          0         Dec-1996             0
## 5967     923xx         CA 16.60          0         Nov-1993             0
## 5973     347xx         FL 29.26          1         Sep-2006             1
## 5989     115xx         NY 20.61          1         Jun-2005             0
## 5999     624xx         IL 13.09          1         Dec-2008             3
## 6004     668xx         KS 17.14          0         Aug-2004             0
## 6024     334xx         FL 17.49          0         Sep-2005             2
## 6037     148xx         NY  3.62          0         Jan-2006             0
## 6038     554xx         MN 10.91          2         Aug-2003             0
## 6041     853xx         AZ 30.74          0         May-1996             0
## 6047     074xx         NJ 14.63          0         Nov-2001             1
## 6048     206xx         MD 16.29          0         Oct-2010             0
## 6052     452xx         OH 19.00          0         Nov-2000             0
## 6087     612xx         IL 27.11          0         Dec-2000             0
## 6102     210xx         MD 18.43          2         Nov-2004             0
## 6132     919xx         CA 11.33          0         Oct-1994             0
## 6139     986xx         WA 17.62         12         Mar-1989             0
## 6147     286xx         NC 23.62          1         Apr-1992             1
## 6154     200xx         DC  6.91          0         Aug-2005             1
## 6155     030xx         NH 18.93          0         Jul-2003             0
## 6156     301xx         GA 31.34          0         Dec-2003             1
## 6181     948xx         CA 16.35          1         Jul-1996             1
## 6186     440xx         OH 15.41          0         Dec-2009             1
## 6214     752xx         TX 32.20          1         Jul-2002             0
## 6217     463xx         IN 16.84          0         Sep-2003             0
## 6228     334xx         FL 21.55          0         Sep-2006             0
## 6232     951xx         CA 21.55          3         Dec-1993             0
## 6243     019xx         MA  6.88          1         Jul-2006             0
## 6248     180xx         PA 18.12          0         Mar-1989             0
## 6270     630xx         MO 24.63          0         Aug-2008             1
## 6274     606xx         IL  9.64          0         Feb-2000             1
## 6284     370xx         TN 24.00          2         Jan-2006             0
## 6309     840xx         UT 28.55          0         Feb-2002             0
## 6310     672xx         KS 17.87          1         Oct-2007             1
## 6317     790xx         TX 21.23          0         Jun-2004             1
## 6361     974xx         OR 11.80          0         Feb-2004             0
## 6366     654xx         MO 20.69          0         Dec-2006             0
## 6370     336xx         FL 23.67          0         Aug-2008             0
## 6393     327xx         FL 10.44          3         Dec-1996             0
## 6429     550xx         MN  8.78          0         May-2003             0
## 6448     373xx         TN 26.90          3         Dec-2005             0
## 6469     370xx         TN  7.14          0         Nov-2011             1
## 6481     021xx         MA 15.33          1         Feb-1986             0
## 6485     319xx         GA 37.51          0         Jun-1982             2
## 6492     238xx         VA  4.20          0         Jan-2010             0
## 6493     206xx         MD 25.57          0         Jan-2003             1
## 6499     765xx         TX  4.70          2         Apr-2008             0
## 6500     531xx         WI  6.13          0         Aug-1988             1
## 6510     441xx         OH 17.82          0         Mar-2006             0
## 6522     346xx         FL  7.44          0         Aug-2003             0
## 6528     946xx         CA 10.67          0         May-1990             0
## 6536     064xx         CT 20.53          1         Jan-2000             2
## 6550     754xx         TX 17.99          0         Jun-2003             0
## 6555     922xx         CA 22.65          0         Feb-2005             0
## 6559     452xx         OH  5.70          2         Jan-1993             2
## 6591     270xx         NC 18.07          0         Sep-2007             1
## 6641     787xx         TX  9.23          0         Nov-1999             0
## 6644     303xx         GA 39.35          2         May-1989             0
## 6646     117xx         NY 20.05          0         Jun-2011             1
## 6648     915xx         CA 14.13          1         Feb-2004             1
## 6682     194xx         PA 17.44          1         May-2008             1
## 6699     300xx         GA 18.25          0         Aug-1995             0
## 6700     913xx         CA 16.60          0         Dec-1993             0
## 6704     370xx         TN 13.29          0         Apr-2005             0
## 6716     230xx         VA 12.31          1         Aug-2011             0
## 6719     731xx         OK 13.37          0         Nov-2006             1
## 6724     654xx         MO 17.52          0         Jul-2008             0
## 6737     799xx         TX 24.76          0         Dec-1995             1
## 6795     453xx         OH 27.33          2         Nov-1989             0
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## 6813     430xx         OH 25.95           0         Sep-2000             1
## 6826     023xx         MA  5.73           1         Jul-1993             1
## 6842     913xx         CA 33.12           0         Apr-1997             0
## 6852     441xx         OH 17.39           2         Mar-2003             1
## 6856     270xx         NC  3.64           0         May-1998             0
## 6866     077xx         NJ 10.85           1         Dec-2012             1
## 6875     806xx         CO  9.83           3         Nov-1992             1
## 6901     456xx         OH 14.92           0         Oct-2006             2
## 6944     070xx         NJ  3.50           0         Feb-2005             0
## 6952     146xx         NY 23.14           0         Feb-2006             0
## 6968     301xx         GA 19.92           0         Oct-2003             2
## 6980     187xx         PA 33.55           0         Apr-2004             0
## 6991     930xx         CA  7.56           0         Oct-2005             1
## 6992     025xx         MA 29.85           1         Aug-1997             1
## 7041     070xx         NJ  8.18           1         Jul-2001             0
## 7046     330xx         FL  9.37           0         Apr-2001             1
## 7055     957xx         CA 12.14           0         Sep-1998             0
## 7070     972xx         OR  8.29           0         Mar-2000             0
## 7078     395xx         MS 11.10           0         Mar-2005             2
## 7083     473xx         IN 27.57           0         Feb-2006             3
## 7092     934xx         CA 16.56           0         Jan-1996             0
## 7093     492xx         MI 13.92           1         Feb-2002             0
## 7113     172xx         PA 19.78           2         Jan-2004             1
## 7128     551xx         MN  7.54           1         Oct-1998             0
## 7140     646xx         MO 28.09           0         Mar-1998             0
## 7154     112xx         NY 20.14           0         May-1995             1
## 7157     194xx         PA  8.53           0         Mar-1999             0
## 7170     598xx         MT 27.74           0         May-2006             1
## 7175     926xx         CA 25.13           1         Oct-2012             1
## 7181     199xx         DE 23.08           1         Aug-1990             0
## 7194     934xx         CA 28.66           0         Sep-1996             2
## 7200     631xx         MO 16.74           0         Jan-2002             2
## 7205     498xx         MI 25.70           0         Jul-2001             1
## 7209     151xx         PA 11.48           2         Feb-1990             2
## 7210     762xx         TX 15.63           1         Oct-2005             2
## 7211     797xx         TX 23.69           0         Feb-2003             2
## 7212     225xx         VA 17.64           0         Sep-2008             1
## 7246     335xx         FL 16.50           1         Apr-2004             2
## 7248     928xx         CA  9.54           0         Apr-2012             2
## 7260     113xx         NY  3.48           3         Aug-2000             1
## 7264     100xx         NY 17.18           2         Sep-1994             0
## 7277     641xx         MO  8.02           0         May-2008             0
## 7283     142xx         NY 12.96           0         Aug-2000             2
## 7286     945xx         CA 12.96           0         Jan-2008             1
## 7300     634xx         MO  3.19           1         Sep-1996             1
## 7332     834xx         ID 18.60           1         Nov-1988             0
## 7348     841xx         UT 16.46           0         Sep-1995             1
## 7350     799xx         TX 13.89          12         Aug-2002             0
## 7356     809xx         CO 23.09           0         Nov-1993             1
## 7367     644xx         MO 24.66           0         Jul-2007             1
## 7368     786xx         TX 26.31           0         Sep-1982             0
## 7369     539xx         WI 21.26           0         Aug-1999             0
## 7370     864xx         AZ 14.66           0         Feb-2007             2
## 7376     922xx         CA 17.31           0         Jul-2006             0
## 7379     330xx         FL 24.69           0         Apr-1992             0
## 7388     235xx         VA 37.21           0         Mar-1996             1
## 7395     782xx         TX 17.64           0         Mar-1988             2
## 7398     750xx         TX 18.03           0         Jul-2002             2
## 7457     076xx         NJ 12.44           1         Apr-2002             1
## 7471     105xx         NY 27.03           1         Jan-1988             1
## 7482     777xx         TX 29.65           0         Jul-2004             0
## 7507     923xx         CA 22.39           0         May-2002             0
## 7514     852xx         AZ 17.45           0         Sep-2010             0
## 7519     305xx         GA 21.58           0         Mar-2006             1
## 7525     077xx         NJ  7.01           0         Oct-2009             1
## 7527     246xx         VA 12.48           1         Aug-2003             1
## 7537     064xx         CT 24.58           0         Feb-2000             1
## 7542     970xx         OR  7.09           0         Mar-2000             1
## 7561     622xx         IL 16.92           0         Oct-2002             1
## 7569     775xx         TX 24.00           0         Dec-2000             0
## 7576     073xx         NJ  7.24           0         Oct-1998             1
## 7639     451xx         OH 11.61           0         Jan-1997             0
## 7640     212xx         MD 19.47           0         May-2004             1
## 7650     282xx         NC 14.85           0         Aug-2000             0
## 7652     765xx         TX 13.84           0         May-2003             1
## 7672     787xx         TX  8.17           0         Jul-2004             0
## 7673     741xx         OK 18.66           0         Jun-1993             0
## 7674     801xx         CO 17.52           0         Oct-1990             1
## 7681     273xx         NC 11.00           0         Jun-2007             0
## 7683     863xx         AZ 37.09           0         Oct-1998             0
## 7685     674xx         KS 18.00           1         Nov-1999             0
## 7702     934xx         CA 14.40           0         Sep-2001             0
## 7716     101xx         NY 13.66           0         Aug-2003             0
## 7717     952xx         CA  5.57           0         May-1998             0
## 7721     117xx         NY 13.43           0         Aug-2004             0
## 7726     917xx         CA 15.14           0         Aug-1996             1
## 7760     853xx         AZ 32.66           0         Jan-1999             1
## 7766     604xx         IL 21.20           0         Nov-2007             2
## 7793     856xx         AZ 29.35           1         Oct-2000             0
## 7802     801xx         CO 16.30           1         Jul-2007             1
## 7826     025xx         MA 13.34           0         Dec-1965             0
## 7846     360xx         AL 18.00           0         Jul-2007             0
## 7866     360xx         AL 22.27           0         Sep-1990             0
## 7883     184xx         PA 29.60           0         Oct-2000             0
## 7885     372xx         TN 14.12           0         Jun-2006             0
## 7911     983xx         WA 20.17           0         Nov-1982             0
## 7917     750xx         TX 10.01           0         Jun-2007             0
## 7919     441xx         OH 22.56           0         Sep-2006             1
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## 7922     840xx         UT  9.89          0         Feb-1998             0
## 7928     930xx         CA 16.05          0         Jul-2004             0
## 7939     280xx         NC  4.66          0         Apr-2004             0
## 7941     550xx         MN 10.33          0         Jul-2007             0
## 7947     890xx         NV 28.45          0         Jul-2005             1
## 7955     977xx         OR  7.70          1         Dec-2011             0
## 7968     113xx         NY 18.81          0         Jul-2010             1
## 7969     330xx         FL 26.91          0         Nov-2003             0
## 7974     774xx         TX  7.45          0         Apr-1975             0
## 7982     156xx         PA 15.89          0         Aug-2003             0
## 7995     551xx         MN 20.16          2         Jun-2003             0
## 8000     582xx         ND 20.12          1         Feb-2008             2
## 8005     928xx         CA 13.30          0         Nov-2001             3
## 8007     021xx         MA 12.40          0         Dec-1996             2
## 8019     950xx         CA 15.52          0         Feb-1994             1
## 8021     178xx         PA 28.13          0         Jul-1997             0
## 8039     882xx         NM 23.40          1         May-2012             0
## 8055     117xx         NY 12.04          0         Oct-1998             1
## 8061     302xx         GA 24.31          0         Jul-1998             0
## 8066     433xx         OH 27.63          0         Jan-2003             1
## 8093     115xx         NY 16.78          0         Jan-2008             3
## 8095     554xx         MN 19.27          3         Oct-2000             0
## 8100     380xx         TN 17.67          0         Sep-2008             1
## 8142     850xx         AZ 14.65          0         Oct-2007             2
## 8149     301xx         GA  8.88          0         Jan-2009             1
## 8152     770xx         TX 12.05          1         Apr-2003             0
## 8156     284xx         NC 18.80          0         May-2007             0
## 8165     605xx         IL 33.27          0         Mar-2004             0
## 8201     301xx         GA 27.18          0         Aug-2004             0
## 8203     936xx         CA 15.34          1         Nov-2005             0
## 8209     532xx         WI 14.79          0         Jul-2005             1
## 8224     551xx         MN  3.94          3         Aug-1985             2
## 8246     756xx         TX 25.60          0         Mar-2004             0
## 8256     112xx         NY 14.53          0         Jul-1999             2
## 8267     846xx         UT 12.67          0         Oct-2003             0
## 8272     937xx         CA 14.91          1         Mar-1997             0
## 8284     207xx         MD 21.86          1         Jun-2012             0
## 8295     233xx         VA 19.68          0         Dec-2006             0
## 8316     300xx         GA 15.47          3         Feb-2005             0
## 8336     386xx         MS 17.66          0         Jan-2002             0
## 8355     790xx         TX 26.39          0         May-1994             2
## 8360     211xx         MD 24.59          0         Oct-2005             0
## 8364     708xx         LA 15.57          1         Aug-2005             0
## 8379     727xx         AR 22.58          0         Oct-2002             0
## 8391     902xx         CA 19.96          0         Jul-2003             1
## 8392     752xx         TX  6.02          2         Sep-2012             0
## 8396     481xx         MI 11.91          0         Jul-2007             0
## 8437     970xx         OR 11.97          1         Sep-2003             0
## 8459     760xx         TX  1.46          1         Sep-1998             1
## 8462     133xx         NY 20.78          1         Oct-2006             0
## 8477     368xx         AL 19.13          0         May-2002             2
## 8482     993xx         WA 17.98          1         Jun-2006             0
## 8490     334xx         FL 22.56          0         Jun-2007             0
## 8491     322xx         FL 34.90          0         May-2005             0
## 8496     760xx         TX 11.47          0         Apr-1995             1
## 8498     553xx         MN 17.13          0         Jul-1997             2
## 8516     467xx         IN 28.33          0         Jun-1982             0
## 8518     928xx         CA  7.52          0         Feb-1999             1
## 8522     531xx         WI 13.83          0         Mar-2004             1
## 8526     910xx         CA  4.41          0         Nov-2003             0
## 8529     286xx         NC 25.98          0         Sep-2004             1
## 8537     331xx         FL 11.54          0         Dec-2002             1
## 8552     836xx         ID 18.64          0         Sep-1999             2
## 8585     933xx         CA  9.44          1         Feb-2004             0
## 8602     271xx         NC 21.18          0         Oct-1999             0
## 8627     606xx         IL 23.95          0         Jan-1997             3
## 8647     191xx         PA 16.10          0         Mar-2001             1
## 8674     466xx         IN  8.93          1         Sep-2005             0
## 8709     853xx         AZ 11.49          0         Mar-2011             1
## 8711     301xx         GA 17.60          2         Jul-2004             2
## 8712     104xx         NY 20.53          1         Jun-2007             0
## 8721     130xx         NY 21.69          0         Aug-1996             0
## 8735     197xx         DE 20.45          0         Jun-2004             0
## 8767     665xx         KS 21.71          3         Mar-1992             1
## 8783     954xx         CA 11.08          0         Jun-2006             3
## 8795     952xx         CA 17.62          0         Sep-2004             0
## 8804     982xx         WA 18.78          1         Jan-1996             2
## 8824     071xx         NJ 28.17          0         Jan-2008             0
## 8835     074xx         NJ  9.38          1         Aug-1995             1
## 8862     480xx         MI 12.77          0         Sep-1997             0
## 8864     063xx         CT 15.16          0         Jul-1988             0
## 8890     034xx         NH 13.28          0         Oct-2004             1
## 8895     891xx         NV 24.54          0         Apr-2004             1
## 8906     112xx         NY 11.88          2         Mar-1998             1
## 8944     921xx         CA  9.06          3         Oct-2006             0
## 8946     770xx         TX 29.03          1         May-1981             0
## 8953     433xx         OH 21.81          0         Aug-2012             0
## 8963     194xx         PA 26.01          1         Jun-2001             1
## 8966     330xx         FL 15.69          0         Oct-2006             1
## 8977     840xx         UT 11.83          0         Mar-1979             0
## 9042     236xx         VA 19.35          1         Jan-2015             1
## 9047     463xx         IN 28.98          2         Mar-2001             0
## 9048     488xx         MI 19.37          1         Apr-1992             0
## 9056     061xx         CT 29.03          0         Jun-2009             1
## 9057     112xx         NY  8.87          0         Apr-2002             1
## 9058     957xx         CA 19.82          0         Oct-1995             0
## 9083     641xx         MO 10.50          0         Dec-1996             1
## 9091     980xx         WA 11.90          0         Sep-2001             0
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## 9096     333xx         FL 21.08           0         Jun-1997              0
## 9098     606xx         IL 28.19           1         Apr-1985              2
## 9101     543xx         WI 27.36           0         Aug-1993              0
## 9103     295xx         SC 14.20           0         Dec-1996              2
## 9140     330xx         FL 17.79           1         Jul-1984              2
## 9154     606xx         IL 23.48           0         Jul-1980              0
## 9160     852xx         AZ 20.19           0         Nov-2010              3
## 9163     070xx         NJ 34.04           0         Jan-1999              1
## 9202     681xx         NE 21.07           0         May-2000              0
## 9240     967xx         HI 17.81           0         Oct-2005              0
## 9243     921xx         CA  8.53           1         Aug-2005              0
## 9245     972xx         OR  9.58           1         Aug-2001              0
## 9254     586xx         ND 11.04           0         Jul-2007              1
## 9286     481xx         MI 14.70           1         Oct-2005              1
## 9294     928xx         CA 11.90           0         Feb-2004              0
## 9321     233xx         VA 20.58           0         Dec-1993              0
## 9336     598xx         MT  9.31           0         Apr-2006              1
## 9380     799xx         TX  9.07           3         Oct-2000              0
## 9383     105xx         NY 17.16           1         Jun-1989              0
## 9388     138xx         NY 27.03           2         Jul-2004              0
## 9413     554xx         MN  6.90           0         Jan-2004              1
## 9431     230xx         VA 18.89           0         Sep-2002              1
## 9432     336xx         FL 27.71           1         May-1982              0
## 9444     832xx         ID 10.51           0         Aug-2005              1
## 9459     451xx         OH 28.21           3         Nov-2003              0
## 9464     735xx         OK 12.97           0         Nov-2002              0
## 9474     078xx         NJ  9.14           0         Apr-1994              0
## 9481     331xx         FL 15.82           2         Jul-1998              2
## 9497     850xx         AZ 19.15           0         Dec-2003              0
## 9499     945xx         CA  8.90           0         Feb-1986              0
## 9503     301xx         GA 12.72           0         Dec-2005              0
## 9506     809xx         CO 28.92           0         Feb-2001              0
## 9509     480xx         MI 11.93           0         Jul-1997              0
## 9522     933xx         CA 37.29           0         Feb-1990              0
## 9546     902xx         CA 23.39           0         Oct-1999              0
## 9559     956xx         CA  1.88           0         May-2012              1
## 9573     486xx         MI 13.51           0         Nov-2005              0
## 9610     750xx         TX 27.46           0         Oct-1977              0
## 9614     908xx         CA 23.47           0         Aug-1999              1
## 9627     920xx         CA 23.29           0         Dec-2007              0
## 9628     930xx         CA 23.05           1         Sep-1989              3
## 9629     194xx         PA 21.26           0         May-2006              0
## 9652     604xx         IL 21.86           1         Aug-2000              2
## 9677     559xx         MN  9.43           0         Feb-2003              0
## 9681     310xx         GA 29.78           0         Nov-1999              0
## 9690     300xx         GA 11.03           4         Jan-2003              0
## 9697     350xx         AL 13.49           0         Jun-1998              0
## 9701     674xx         KS 21.76           0         Jul-2005              0
## 9705     350xx         AL  7.59           1         Mar-2004              1
## 9714     672xx         KS 19.57           0         Feb-2000              1
## 9718     750xx         TX 12.89           0         Feb-2000              0
## 9722     932xx         CA 11.39           2         Sep-2007              1
## 9748     972xx         OR 19.90           1         Jul-2005              1
## 9751     463xx         IN 22.06           0         Mar-2003              0
## 9753     836xx         ID  6.77           0         Apr-2007              1
## 9773     378xx         TN  9.16           0         Jan-2006              1
## 9783     273xx         NC 15.45           0         Nov-1996              1
## 9786     243xx         VA 20.45           1         Jan-1993              0
## 9796     810xx         CO 35.04           0         Sep-2001              0
## 9811     553xx         MN 16.83           0         Jun-2006              0
## 9816     454xx         OH  9.84           0         Aug-2005              0
## 9817     774xx         TX 27.40           0         Apr-1983              0
## 9820     073xx         NJ  4.55           0         May-1997              0
## 9834     853xx         AZ  6.89           0         Sep-2002              0
## 9843     905xx         CA  9.28           0         Aug-1994              0
## 9872     302xx         GA 20.03           2         Apr-2004              1
## 9882     928xx         CA  8.03           0         Aug-2004              1
## 9898     296xx         SC 14.07           0         May-2003              2
## 9904     853xx         AZ  2.81           1         Apr-2006              3
## 9924     424xx         KY 21.63           0         Jul-1987              0
## 9943     925xx         CA 16.12           1         Jun-2004              0
## 9945     280xx         NC 20.74           0         Jul-1990              0
## 9983     782xx         TX 22.77           0         Sep-1997              0
## 9988     276xx         NC  8.34           2         Jun-2001              3
## 10024    300xx         GA 17.32           1         Aug-2004              0
## 10033    197xx         DE  8.87           1         Apr-2001              2
## 10058    286xx         NC 20.74           0         Apr-2010              2
## 10062    468xx         IN 14.55           1         Nov-2003              2
## 10078    207xx         MD 11.23           3         Dec-1994              1
## 10088    853xx         AZ 16.11           0         Sep-2006              2
## 10096    152xx         PA 10.24           1         Aug-2006              1
## 10110    774xx         TX 20.25           1         Apr-2006              0
## 10166    750xx         TX 18.28           0         Jul-2008              1
## 10167    240xx         VA 23.52           0         Jan-2001              1
## 10192    173xx         PA 23.55           0         Nov-2005              2
## 10195    787xx         TX 10.22           0         Mar-1999              0
##       mths_since_last_delinq open_acc pub_rec revol_bal revol_util total_acc
## 4                         59        4       0     13326       72.8        38
## 7                         38       17       0      2252        3.1        35
## 9                          6       10       0      1229       17.3        21
## 14                        78       10       0     13909       68.9        27
## 23                        62       20       1     22901       45.2        39
## 34                        13       23       0     27019       27.7        31
## 40                        24        5       0      9740       23.1         9
## 49                        34       12       0      4640       12.2        27
## 50                        57       12       0      8637       21.0        27
## 51                        15        6       0       300        1.0         7
## 68                        10       25       0     12092        7.8        52
```

```
## 82                    70      11      0       68       0.3       29
## 115                   53       3      0     1599      27.6       16
## 140                    6       9      0    29829      57.4       13
## 158                   20      16      0    35732      36.2       51
## 162                   12       3      0     1699      60.7       24
## 167                   67      10      0    13291      54.9       17
## 182                   21       7      0      806      22.4       39
## 186                   64       7      0    10398      47.3       11
## 200                   40       8      0    30118      99.1       25
## 239                   29       9      0        0       0.0       23
## 249                   20       8      0     8842      67.5       24
## 261                   37       4      0      919      91.9        9
## 273                   30      10      0       33       0.1       21
## 276                   64      24      0    23581      37.9       67
## 345                   26      10      0     5816      46.9       29
## 369                   40      35      0    22367      20.1       47
## 379                   39      21      0    14526      24.4       35
## 389                   22      11      0     9667      76.1       15
## 395                    2      12      0     3869      12.5       28
## 403                   51       6      0     4574      21.8        9
## 408                   25      25      0    14483      16.7       49
## 411                   80       9      0      131       0.5       27
## 426                    4      19      0    37271      31.1       32
## 438                   41      19      0    21656      41.6       45
## 441                    4      11      0     4468      37.2       23
## 443                    3       9      0     6037      41.6       19
## 468                    5       6      0     4138      24.3        6
## 469                   58      10      0    25140      79.8       34
## 480                   24      25      0     5859      10.1       30
## 482                   19       7      0     2136      21.1       31
## 483                   56       7      0    18996      76.3       22
## 513                   14       6      0        0       0.0        9
## 566                   47      25      0     9831      37.0       40
## 569                   67      10      0     8224      25.0       23
## 587                   58      11      0    11301      27.6       36
## 597                   34      21      0    25322      51.3       33
## 605                    9      16      0     4857      22.5       28
## 627                   24      19      0    47740      96.3       36
## 644                   60       7      0     3210      17.2       11
## 677                   19       2      0      287      14.4        9
## 687                   26      19      0     9553      73.5       25
## 708                   56      12      1     1901      16.2       47
## 718                   49      17      1    14357      44.7       53
## 721                   21       7      0    10780      75.4       46
## 743                   56       6      0    17037      70.7       13
## 744                   33      10      1    10347      49.7       21
## 745                   53       9      0    13586      77.2       19
## 758                   37       5      0    47499       7.1       21
## 777                   29      15      0    13566      44.9       21
## 802                   40      26      0    50161      42.5       42
## 818                   11      27      0      772       1.0       60
## 832                   18      31      0     8517      23.6       55
## 856                   29       3      0     9230      69.4       14
## 857                   46      20      0   173524      47.7       29
## 858                   15      16      0     3389       7.0       49
## 882                   25      17      1    10090      15.7       27
## 883                   70       8      1     2845      32.0       14
## 889                   15      13      0    12961      38.1       21
## 903                   17      19      0    17754      37.4       33
## 907                   69      13      0     9710      66.5       18
## 915                   43      17      0    94133      53.4       24
## 920                   73       7      1    11614      86.0       20
## 939                   69       8      0      535       7.8       17
## 954                   28       6      0     6702      36.0       29
## 969                   12       7      0    16086      64.6       25
## 1002                  11      15      0    14971      33.4       32
## 1015                  67      12      0    10976      18.9       24
## 1024                  80      13      0    34727      23.4       38
## 1029                  17      18      0     2831       6.1       32
## 1031                  23       6      0     3687      55.9       33
## 1053                  38      14      0    43874      71.0       42
## 1057                  72      14      0    17468      36.5       32
## 1080                  20      13      0    13532      24.6       29
## 1108                  10      12      0   168405      90.0       31
## 1109                  17       5      0     9315      38.3       14
## 1110                  32      23      0     2121       9.3       40
## 1112                  10       9      1    15808      41.2       23
## 1115                  32       8      0     1784       7.5       28
## 1121                  55      21      0    17138      30.5       30
## 1122                  63      11      0     7611      16.7       24
## 1139                  58       9      0    10213      95.4       14
## 1163                  37      12      0    12878      56.0       22
## 1181                  71      31      0    23596      28.7       49
## 1187                  70      12      0    17941      36.5       28
## 1194                  18       9      0     6785      13.8       11
## 1197                  44      10      0    22134      34.0       30
## 1209                  57      26      0     5942      26.5       40
## 1224                   9      14      0     9549      47.5       41
## 1257                  16      18      0    10021      56.0       31
## 1262                  49      13      0    12230      20.9       19
## 1275                  30      17      1    13702      32.4       31
## 1336                  26      21      0    32721      34.0       45
## 1343                  46      11      0        0       0.0       33
## 1346                  64      11      1     2918      15.7       26
## 1347                  13       9      0      756       4.8       23
## 1379                  61      34      0    14916       9.6       84
## 1418                  68      24      0     8409      49.2       31
## 1425                   4      25      0    21272      48.6       33
```

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## 1450                24        3       0      1520       46.1        13
## 1451                39       14       0      2628       21.0        38
## 1452                63       23       0      3895        2.9        47
## 1465                18       10       0      5426        9.4        41
## 1468                13        9       0      6921       47.7        33
## 1478                39       11       0      4241       16.2        23
## 1479                19        4       0      6003       69.8        24
## 1500                15       17       0       191        0.4        44
## 1509                36       11       0     14565       86.7        22
## 1524                51        6       0      7947       65.7        13
## 1533                66       10       0      3233        8.1        23
## 1534                 7       10       0      5129       16.2        27
## 1537                13        9       0     25952       33.5        23
## 1548                39       10       0      7329       72.6        19
## 1566                15       13       1      5468       37.2        28
## 1575                30        7       0      8955       43.3        10
## 1620                64       10       0     19632       58.1        17
## 1632                47        5       0      5629       85.3         9
## 1661                62        9       0     14340       60.3        27
## 1666                 4       33       0     40326       31.0        64
## 1679                 5       11       0      2552       14.2        15
## 1686                79       16       0     33679       57.8        20
## 1688                 6       10       0     10145       35.1        23
## 1726                35       11       0      6241       54.7        31
## 1738                13       12       0      7909       82.4        34
## 1744                14       10       0      4114       13.6        15
## 1750                54       12       0      7131       45.4        16
## 1754                42        6       0      9097       61.5        18
## 1762                20        7       0      2246       34.6        29
## 1809                73       12       0     10514       39.2        28
## 1811                34        3       0      9363       29.5        13
## 1819                 9       19       0      7583       18.8        35
## 1880                22       10       0     10690       78.0        11
## 1881                31       12       0      1421       17.3        22
## 1894                24       13       0      1204        9.6        28
## 1900                20       15       1      3531       11.4        20
## 1915                75       11       0      5222       27.8        31
## 1919                81       12       0      6815       65.5        25
## 1942                48        4       0      1187        8.9        11
## 1943                47        7       0     12724       30.3        42
## 1958                65       38       0     12997       30.2        61
## 1991                36       13       0     12077       41.1        28
## 1994                18       10       1      3467       32.7        25
## 1997                68        9       0      2224        4.1        27
## 2001                39       13       0      7109       14.8        24
## 2013                64       10       0     13299       18.7        20
## 2015                23        8       0      2189       30.0        31
## 2018                48        5       0      1224        3.9        36
## 2050                 9       12       0      9839       26.2        23
## 2074                16        7       0      5542       63.7        34
## 2077                42       27       0      6664       20.8        44
## 2092                 8        8       1      7496       43.8         9
## 2161                48        5       1     10496       41.7         6
## 2165                73       12       0      8738       78.7        18
## 2170                10       13       0     14578       54.0        22
## 2171                29        7       1      9218       65.8        20
## 2172                18       14       0     11997       25.1        51
## 2192                 8        8       0     41662       81.8        22
## 2194                24        9       0     12477       55.2        28
## 2196                68       29       0     32840       60.1        74
## 2248                12        7       0      7078       25.6        17
## 2253                38       12       0     38412       47.7        27
## 2254                 6       16       0      8313       14.6        29
## 2257                59        9       0       355        1.4        12
## 2263                67        8       0      3980       92.6        11
## 2277                76       22       0     10303       26.4        64
## 2289                76       13       0     12870       20.3        15
## 2303                59        9       0      6102       21.0        35
## 2312                17        8       0         0        0.0        38
## 2318                82       13       0      6649       11.7        20
## 2320                 7        6       0       977       10.9        12
## 2326                54       18       0      1066        6.9        21
## 2328                42       12       0      3748       13.7        17
## 2341                29        6       0      1417       52.5         8
## 2348                80       18       0     12320       27.0        37
## 2370                40       16       0      1857        6.4        38
## 2376                21       16       0     27871       79.0        23
## 2382                22       20       0     10511       19.9        55
## 2385                45       10       0      8684       55.3        20
## 2406                50       16       0     14077       34.6        33
## 2409                16       10       0     15473       79.3        54
## 2421                45       10       0     10834       49.9        28
## 2456                65       16       0       793        6.1        44
## 2462                22       13       0      8180       38.6        27
## 2476                56       10       0      9624       23.7        28
## 2481                47       18       0     16763       42.8        33
## 2488                78       18       0     40453       68.0        38
## 2496                64       12       1     11059       43.4        42
## 2520                45        9       1     13979       87.9        13
## 2531                41        6       0     14218        2.2         9
## 2541                33        4       0     13412       63.3        22
## 2544                49       14       0      5503       43.7        24
## 2563                71       10       0     18754       43.9        16
## 2568                19       14       0      9610       48.0        56
## 2580                14        7       0     15243       81.1        14
## 2599                70       16       0      9307       46.3        22
## 2600                44       10       0     18225       71.2        72
## 2602                35       10       0     12363       95.1        21
```

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## 2605                    26       12       0     19055       38.6        23
## 2615                    67        8       0      7991       27.4        19
## 2620                    32        7       0     20000       83.0        16
## 2623                    68        6       0      7758       23.7        14
## 2651                    10       18       0      1486       19.1        39
## 2655                    73       13       0      4693       29.0        29
## 2659                    40       11       0      4675       32.2        21
## 2660                    33       16       0     10193       19.9        34
## 2663                    54        8       1      3525       16.5        35
## 2667                    22       13       0      4028       32.7        35
## 2672                    30       12       0      1039       19.6        26
## 2677                    53       10       0      5847       21.7        19
## 2690                    53        8       2       365        7.2        19
## 2695                    58       12       0     32358       48.1        23
## 2702                    73       14       1      6041       31.5        26
## 2710                    14       10       0     25448       79.5        17
## 2738                     6        8       0      7234       32.7        18
## 2742                    23       12       0     15305       29.8        45
## 2745                    69       12       0      7782       61.3        29
## 2773                     7        5       0       266       17.7        39
## 2787                    13       14       0      9557       27.3        29
## 2792                    70       11       0      8808       16.9        23
## 2803                    34       19       1      7624       19.6        38
## 2813                    61        9       1      8340       19.4        15
## 2817                    56       11       0     19990       46.9        20
## 2819                    20        9       0     10124       70.3        30
## 2832                    69       12       0      5394       12.1        15
## 2857                    17       24       1     11870       25.4        39
## 2860                    40       10       0      7854       73.4        17
## 2865                    25        5       0      7689       91.5        50
## 2875                    40       10       0      4696       41.6        18
## 2880                    48        3       0       312       62.4         6
## 2894                    30        8       0     31072       79.3        25
## 2899                    23       10       0       820       13.7        15
## 2912                    53       11       1     13278       38.9        15
## 2927                    31       11       0     28386       30.7        21
## 2933                    20       13       0      4399       10.7        20
## 2947                    29        5       0      1317       37.6        11
## 2951                    70        8       0     21540       74.0        24
## 2957                    44        5       1     10051       64.4        11
## 2961                    33       18       0     21962       47.3        38
## 2968                    22       12       1     16861       51.9        28
## 2971                    60       14       0     20230       47.2        19
## 2995                    26       18       0     14098       17.0        35
## 3032                    23       13       0      3606       42.9        22
## 3036                     9       16       0      7937       18.7        38
## 3040                    21        8       0      8857       38.0        18
## 3053                     9       12       0      5292       34.1        36
## 3062                    50       11       0     15829       82.0        19
## 3067                    76       16       0     30881       47.3        24
## 3074                    64        7       0      3428       47.6        20
## 3092                    12        5       0       783       11.7        19
## 3102                     8        8       0       668        7.3        13
## 3119                    24        6       0         0        0.0        12
## 3123                     6        8       0      7028       60.1        29
## 3134                    45        7       0      6096       47.3        24
## 3141                    57       19       0     17929       48.2        37
## 3143                    71       16       1     10825       51.5        32
## 3173                    51        9       0      6053       26.2        20
## 3178                    54        6       0     30843       89.7        17
## 3186                    18        4       0       330       10.0        10
## 3204                    33        8       1       268       20.6        31
## 3210                    13       13       0     45753       48.1        34
## 3211                    41        8       0      7914       44.7        15
## 3218                    15       27       0      4868       15.5        40
## 3230                     8       15       0      7223       71.5        21
## 3251                    30        9       0      9946       20.1        28
## 3262                    60       13       0     20964       49.3        25
## 3269                    18        3       0       918       30.6        13
## 3271                    65       13       0     20296       42.6        23
## 3278                    79       13       0     14343       20.1        44
## 3282                    33        7       0      2995       27.2        14
## 3302                    43        4       0      2789       26.6        22
## 3318                    39       23       0     35878       58.8        42
## 3323                     6       25       0      6885       19.0        45
## 3367                    20        7       0      2984       48.1        23
## 3376                    42       13       1      3855        7.6        21
## 3392                    48        9       0     69164       24.3        19
## 3409                    22       23       0     27198       43.3        70
## 3416                    64       12       0     10390       56.8        13
## 3436                    14       22       0     13078       36.7        31
## 3441                    40        4       0         0        0.0        22
## 3472                    52       21       0     13340       34.5        31
## 3485                     6       12       0     29738       94.4        24
## 3492                    16       17       1     11626       56.4        26
## 3494                    12       16       0      4990       34.7        55
## 3501                    21        7       0      2704       64.4        19
## 3506                    32        6       1      5865       86.3        13
## 3530                    54       10       0     28121       23.6        23
## 3565                     6        8       0     29617       99.1        18
## 3577                    64       16       0     11727       49.5        21
## 3613                    21        4       0      2284       87.8        21
## 3617                    62        4       0      1148       11.6        23
## 3639                    64       10       0     22136       53.2        18
## 3657                    52       19       0     35230       38.6        43
## 3668                    31       10       0     14547       52.3        17
## 3686                    31       13       0     18947       65.6        25
## 3698                    68       13       0     20582       41.3        30
```

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## 3704                53        3       0      5070       95.7         6
## 3707                 5       10       0      7025       18.9        23
## 3780                32       16       0     79925       73.4        29
## 3790                43        9       0      5727       40.0        21
## 3794                12       11       0      8852       66.1        33
## 3796                 3        5       0     23116       47.9        27
## 3822                26       17       0      7832       33.2        29
## 3825                40       16       0     13366       25.6        20
## 3861                66        6       0      6764       29.9        27
## 3887                27       14       0      6964       44.1        52
## 3921                29       10       0      1965       13.6        25
## 3922                29        9       0      4797       14.7        28
## 3926                36       10       0      8608       37.6        22
## 3943                 9       14       1      4844       16.7        31
## 3954                18       13       0     10906       52.4        38
## 3964                36       13       0     14085       29.3        26
## 3976                34       18       0     15166       56.6        26
## 3984                73        6       1      1756       13.8        24
## 4006                68       10       0     11102       63.4        21
## 4010                34        5       0      1889        8.3        11
## 4028                57       10       0      4542       41.3        38
## 4043                 6       17       0      2080        4.0        29
## 4045                44       11       0      9180       16.9        17
## 4053                61       16       0      8369       62.5        40
## 4055                75       10       0      4724       48.2        21
## 4057                42        5       0      3334       30.3        20
## 4098                39       14       0     54559       40.9        29
## 4100                24        7       0    176782       45.5        14
## 4113                81       18       0     10155       28.9        53
## 4119                12       16       0      9664       18.2        36
## 4136                11       25       1     11712       42.0        59
## 4138                45       26       0     12204       49.4        41
## 4150                53        9       0     14922       58.3        12
## 4169                 6       11       0     19246       57.6        25
## 4173                 6       19       0     28057       43.8        36
## 4193                58       13       0      3740       25.4        20
## 4198                26       10       1     10574       46.2        20
## 4203                76       19       0     12237       37.3        26
## 4211                69       23       0     32981       33.3        51
## 4220                31        6       0      9340       59.1        15
## 4229                36        7       0      6073       59.0        30
## 4247                39       10       0      6671       40.7        15
## 4273                21       19       0      2006       22.0        49
## 4274                11       20       0      8944       20.6        54
## 4284                43       20       0     19024       56.1        21
## 4301                44       13       1      3427       42.8        39
## 4325                14       17       0      7975       29.1        62
## 4349                22       12       0     19981       28.3        35
## 4350                80       20       0      9163       14.0        37
## 4370                18       10       0      7954       32.3        24
## 4372                45       16       0     14792       58.2        27
## 4388                 2        5       0      1062        9.9        18
## 4390                35       13       1      5591       26.8        22
## 4400                72       11       0      4877       36.9        17
## 4401                40       12       0     17318       43.0        30
## 4402                 5       23       1     14661       46.7        46
## 4418                48        8       0    308615       88.8        13
## 4421                20        9       0      7876       16.2        21
## 4431                25        9       0      1282       85.5        10
## 4440                42        8       0       833        5.0        27
## 4458                68        4       0       614       17.5         7
## 4461                60        9       0      1345       15.1        26
## 4469                64       16       0      1903        4.9        20
## 4472                29        8       0      1453       45.4        22
## 4479                37       15       0     34513       57.6        23
## 4483                16        4       0       529        4.2        13
## 4503                10       13       0      4593       20.6        24
## 4519                34       13       0     16073       60.7        20
## 4522                57        7       0      4531       46.7        13
## 4525                57       10       0      9882       79.1        19
## 4528                50       17       0     62707       68.8        49
## 4538                41       14       0     17660       33.7        37
## 4548                14       10       0     14023       44.7        46
## 4554                50       10       0      7004       51.5        11
## 4557                44        8       0     20147       57.6        29
## 4569                33       10       0      6051       96.0        27
## 4576                16        5       0         9        0.2        14
## 4590                49       10       0      7133       15.1        28
## 4594                29       10       0     32295       90.7        13
## 4604                76       11       0     32271       77.9        26
## 4622                63        8       0     11606       56.3        12
## 4626                44        6       0      4963       59.1        13
## 4629                15       10       0      7135       59.5        21
## 4633                21       13       1      7123       29.9        40
## 4646                74        6       0      4158       61.1        13
## 4650                45        5       0      2568       26.5        33
## 4660                45       10       0      7879       14.1        21
## 4673                32        5       0     11194       74.1        11
## 4684                58       11       0     31977       70.1        37
## 4699                21       16       1      9054       33.7        28
## 4720                34       14       0     12887       39.1        28
## 4724                64       12       0     13476       34.2        30
## 4728                15        5       0       381        9.1         7
## 4751                66        2       0        51       10.2         6
## 4778                 4       13       0     26405       87.7        24
## 4812                17       12       0      6715       11.8        27
## 4820                73       11       1      9866       59.8        39
## 4835                67        8       0      8378       39.3        29
```

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## 4843          22        6       0      7298       19.0        38
## 4876         115        8       0       498       16.6        18
## 4882          37       10       0       229        0.3        19
## 4895          27        8       0      5383       33.4        10
## 4907          39       10       0     12655       69.9        18
## 4912           4       12       0     16043       37.3        20
## 4941          26       20       0     16347       42.8        27
## 4952           4       13       1     15088       62.1        24
## 4954          24       13       0     13581       33.0        30
## 4956          65        7       0      3827       63.8        13
## 4957          22       10       0     12982       35.5        32
## 4959          72       21       0     15528       41.2        26
## 4960          10       18       0       705        1.9        48
## 4987          55       37       0     11559       34.0        46
## 5022          31        8       0      3740       38.6        18
## 5027          11       10       0      4152       29.9        16
## 5029          12       12       0      5374       14.4        27
## 5053          60       21       0     24222       38.3        46
## 5054          23        6       0     11103       64.6        20
## 5055          29        7       0      2689       12.8        30
## 5066          78       16       0      4777       15.8        79
## 5069          42       15       1       734        3.2        24
## 5077          28       19       0      2781       10.0        30
## 5091          40        4       0     14370       95.8        16
## 5110          24       10       0      6574       32.5        22
## 5114          32        7       0      4855       31.9         8
## 5161          33       16       0      1964       32.7        37
## 5215          74        7       0       208        1.7        12
## 5216          60       16       0      7630       37.6        25
## 5219           9       28       0     22054       76.8        54
## 5251           6        6       0      7667       35.2        10
## 5254          51       17       0     44105       43.4        39
## 5258           6       10       0     13488       49.8        24
## 5269          22        4       0         0        0.0        13
## 5277          33       12       0      4829       30.8        14
## 5285          51       13       0      8739       61.5        17
## 5291          12        4       0     95680       94.8        25
## 5292          16       12       0      2906       45.4        20
## 5340          57        9       0     12932       59.6        38
## 5341          19       17       0      4957       31.2        32
## 5347          19       17       0      4014       16.6        25
## 5373          59       10       0      9983       18.0        47
## 5382          48       16       0    104215       12.3        50
## 5394          31       22       0      9481       36.2        48
## 5432          58        5       0       712        6.1         9
## 5443          30       12       1     17851       31.4        28
## 5445          44       28       1     14376       39.2        34
## 5454          26       13       0     17140       41.4        20
## 5464          34       19       0      7575       25.9        27
## 5479          29       12       1      8601       41.0        18
## 5503           4        6       0     11099       37.1        17
## 5514          37       12       0     14445       41.9        32
## 5517          80       12       0      3713       26.0        15
## 5545          26       16       0     21905       24.6        19
## 5549          53       15       0     18511       65.6        27
## 5558           9       13       0     18066       39.7        22
## 5569          14        7       0     10332       29.9        18
## 5590          16       10       0     14900       64.2        30
## 5592           4       10       0      1519       19.7        19
## 5608          64       11       0     21315       80.4        33
## 5609          41       10       0     18843       59.6        29
## 5611          28       15       0     16223       61.9        24
## 5624          53        8       0      4148       18.9        12
## 5651          63       14       1       450        1.0        18
## 5673           9       24       0      6045       11.6        31
## 5692          60       10       0      6973       24.6        14
## 5694          52        4       0      2604       21.7        35
## 5716          56        9       1      5188       14.2        24
## 5736          60        9       0      5996       57.1        11
## 5745          10        6       0       588        9.6        16
## 5777          15        9       0      9429       41.9        14
## 5789          48        8       0      7170       35.0        20
## 5822          13        7       0      7095       60.1        13
## 5831          52        8       0     17981       73.1        19
## 5843           5       11       0      1909       19.5        34
## 5863          32       13       0      9997       14.1        23
## 5865          22        6       0     97914        2.3        16
## 5868          53        9       0      6121       27.8        17
## 5870          22        9       0      3927       31.7        15
## 5882          15        9       0     21184       91.7        21
## 5883          36       12       0      5301       39.6        20
## 5888           4        9       0      6292       41.4        11
## 5899          19       33       1     35339       47.4        67
## 5902          98        6       0      7027       20.1        13
## 5903          11       12       0       734       12.0        14
## 5904          35        6       0      9955       53.8        20
## 5906          98       18       0     13558       21.8        39
## 5907          66        7       0      9766       26.1        25
## 5932          16        9       0      3116       51.1        17
## 5933          19       15       0     12212       32.3        22
## 5940          66        6       0      9031       83.6        13
## 5942          51        6       0      6732       48.1        34
## 5946          16       10       0      5465       60.7        16
## 5955          32        9       0      7136       14.6        26
## 5967          63       34       0     25306       18.8        60
## 5973           5       13       0     14895       55.4        30
## 5989           3        9       0      7496       30.6        13
## 5999          16        4       0        89       12.7        16
```

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## 6004                    24        6       0     11710       73.2        13
## 6024                    60       20       0     13673       23.6        31
## 6037                    61        3       0       611       38.2        15
## 6038                     7        8       0      8815       37.4        23
## 6041                    77       15       0      2797        8.3        41
## 6047                    33       10       0      1956       27.5        48
## 6048                    54       18       0      5942       15.1        21
## 6052                    39        9       0      6944       25.4        11
## 6087                    45       13       0      9048       28.5        19
## 6102                    21        5       0      5403       39.7        26
## 6132                    48        9       0      3306       21.2        25
## 6139                     8        9       0       305        4.1        25
## 6147                    18        9       0      3129       25.4        24
## 6154                    61       12       0       563        1.0        25
## 6155                    71       16       0     32105       77.5        38
## 6156                    51       14       0     18407       29.8        30
## 6181                     8       12       0      4902       29.2        28
## 6186                    74        5       0      2625       30.9         7
## 6214                    10       17       0     22866       78.6        38
## 6217                    25       11       1      6027       23.0        24
## 6228                    56       14       0     12185       68.5        26
## 6232                    14       15       1      2270        9.7        33
## 6243                     5       12       1     25608       84.2        20
## 6248                    43       14       0     52016       81.3        37
## 6270                    41       23       0      4333       46.6        47
## 6274                    68       13       0     13261       29.0        28
## 6284                     8       13       0     12386       68.8        26
## 6309                    36       17       0     63161       70.8        38
## 6310                    18       10       0     18615       62.1        24
## 6317                    49        7       0       152        2.3        24
## 6361                    28       11       0      3025       36.4        24
## 6366                    51        5       0      8613       81.3        12
## 6370                    64        6       0       396       14.1        10
## 6393                    18       20       0     16548       37.2        56
## 6429                    55       12       0     14060       40.2        18
## 6448                    11        9       0     12645       80.5        37
## 6469                    46        6       0      1218       35.8         8
## 6481                    20       12       0     14324       59.7        24
## 6485                    47       32       0     24900       34.1        54
## 6492                    34       10       0      3374       46.2        14
## 6493                    26       17       0      7616       16.3        37
## 6499                     5       13       0      1192        4.3        17
## 6500                    48       14       0      2645        6.6        17
## 6510                    70        7       0      3201       12.4        23
## 6522                    25        6       0       651       18.1        17
## 6528                    36        7       0     37793       91.1        17
## 6536                    11       10       0     10378       56.1        16
## 6550                    41       16       0     10626       41.3        39
## 6555                    79       19       0     12781       22.5        40
## 6559                     8       13       0       513        3.4        23
## 6591                    80       13       0       304        2.5        20
## 6641                    32       11       0     52272       69.9        26
## 6644                    13       22       0     33450       45.6        44
## 6646                    42       12       0      5043       39.1        18
## 6648                    21       15       1     13808       40.0        25
## 6682                    11       10       0     34125       86.4        16
## 6699                    56        9       0     11508       75.2        13
## 6700                    38        7       0      6083       69.1        29
## 6704                    38        8       0      4019       75.8        20
## 6716                    13        7       0      3322       20.8        13
## 6719                    36       18       0     14568       48.9        35
## 6724                    64       10       0      6936       29.4        15
## 6737                    26       23       0     40427       39.4        49
## 6795                     3        8       0      9376       59.3        19
## 6813                    24       17       0     18639       15.4        28
## 6826                     3        7       0       461       15.4        17
## 6842                    24       12       0      4743       47.9        22
## 6852                    13       10       0      6720       35.0        26
## 6856                    51        9       0      1242       18.0        28
## 6866                    13       12       0      4888       28.8        18
## 6875                     4       15       0     14992       29.0        34
## 6901                    79       21       0      2566        9.5        31
## 6944                    25        8       0       239        1.1        19
## 6952                    27        9       0      3969       35.4        17
## 6968                    75       18       0     13169       38.6        44
## 6980                    25       17       0     32799       48.6        35
## 6991                    37        4       0      1189       66.1        20
## 6992                    18       14       0     18402       24.5        24
## 7041                    20       12       0     15914       61.9        24
## 7046                    72       16       1     12042       24.4        34
## 7055                    67       23       0     39772       40.4        38
## 7070                    62        4       0     19739       70.5         9
## 7078                    48       26       1      8521       27.1        55
## 7083                    45        9       0     22389       90.3        24
## 7092                    30       10       0      3088       52.3        20
## 7093                     9       10       0     11397       67.4        16
## 7113                    19        9       0      2860       30.4        13
## 7128                     3        7       0      1869       20.5        22
## 7140                    67       10       0      8519       63.1        24
## 7154                    72       10       0      2804        5.2        32
## 7157                    63        9       0      7949       51.0        12
## 7170                    70       16       0      4923       13.8        34
## 7175                    14        9       0      1083        4.9        14
## 7181                    13       20       0     74587       91.2        58
## 7194                    44        9       0      6437       67.8        41
## 7200                    39       20       0      7019       63.2        27
## 7205                    32       13       0      5939       51.6        37
## 7209                    13       19       0     31769       44.2        27
```

```
## 7210          11    14    0     9066    33.0    18
## 7211          65    26    0    27842    33.3    43
## 7212          43    21    0    13878    38.9    37
## 7246          14    35    0    17611    30.4    38
## 7248          31     4    0      421    16.2     7
## 7260          19     9    0     8169    48.9    15
## 7264          20    22    0    16061    42.6    41
## 7277          30     8    1     9661    65.3    38
## 7283          40     6    0     7771    63.7    32
## 7286          45    10    0    13611    72.4    17
## 7300          19     9    2        0     0.0    17
## 7332          18    10    0     4202    31.4    17
## 7348          57    12    0     3806    29.7    25
## 7350          18    15    0     1259     5.8    44
## 7356          33    12    0     3789    37.9    39
## 7367          68     6    0     1889    35.6    13
## 7368          77    14    0    11469    19.1    20
## 7369          84     7    1     7487    40.3    15
## 7370          62    11    0     1890     7.7    40
## 7376          26    15    0    10026    19.4    22
## 7379          25     8    0     1991    31.6    15
## 7388          37    47    0    51834    43.4    84
## 7395          67     4    0      730    52.1     7
## 7398          50    19    0    21828    41.0    27
## 7457           8    20    0   121938    96.9    38
## 7471           6    11    0    59576    81.8    21
## 7482          33    15    0    13480    31.3    44
## 7507          30    13    0     4170    42.3    36
## 7514          47    13    1     8127    44.9    16
## 7519          30     9    0    12349    51.5    20
## 7525          63    10    1     2116    10.4    26
## 7527          13     3    0      330    66.0    34
## 7537          44    17    0     4600    10.0    56
## 7542          66    23    1    12477    66.0    42
## 7561          44     6    0     9084    90.8    30
## 7569          53    14    0    28521    69.6    57
## 7576          52     5    0      150     1.2    21
## 7639          60    12    1     8126    28.4    21
## 7640          36    14    0    15696    46.0    36
## 7650          47     8    0    12909    69.4    16
## 7652          66    13    0     1375     2.2    24
## 7672          40    10    0     2608     8.9    16
## 7673          35    12    0    20001    98.0    27
## 7674          67    29    0    56151    32.7    54
## 7681          33    10    0     6305    30.6    21
## 7683          29     4    0     2904    76.4    10
## 7685           5    14    0     1391     5.1    34
## 7702          31     8    0    10617    45.2    14
## 7716          49    12    0    11803   100.9    17
## 7717          70    22    0     4669     8.1    36
## 7721          26    15    0    32961    78.9    24
## 7726          47    17    1    10947    36.5    30
## 7760          77    20    1    18565    53.5    36
## 7766          69    20    0    13665    27.4    29
## 7793          23    13    0    10662    40.7    27
## 7802          13    26    0    38895    37.7    41
## 7826          54     9    0     6881    24.8    31
## 7846          64     8    0      369     1.7    21
## 7866          61     8    0    23149    96.9    17
## 7883          39     8    0    12628    43.5    22
## 7885          75    12    0    11927    23.7    42
## 7911          48     9    0    25544    76.3    22
## 7917          72    12    0     9849    61.6    30
## 7919          39    16    0    14288    55.0    24
## 7922          59     7    0     1883    19.4    24
## 7928          46    18    0    13256    19.5    37
## 7939          41     7    0     1456    27.5    23
## 7941          45    13    1    10045    50.5    32
## 7947          33    19    0    17582    35.2    23
## 7955          20     7    1     2988    33.2     8
## 7968          45    19    0     7779    21.6    21
## 7969          45    10    2    13059    35.3    17
## 7974          54    22    0     2160     2.6    55
## 7982          57     6    0     1495     8.0    22
## 7995          21    11    1     6058    18.0    35
## 8000          10     9    0     4641    58.0    23
## 8005          30    19    0     1778    11.9    40
## 8007          54     6    0     9613    46.7    37
## 8019          41     7    0    13355    73.8    15
## 8021          64     4    0     6524    87.0    12
## 8039          16     8    0     2309    13.7    18
## 8055          30    26    0     8466    31.6    47
## 8061          78    21    0    56199    70.6    47
## 8066          27    11    0     2493    13.1    25
## 8093          24    11    0     6183    49.5    37
## 8095           7    18    0    24367    44.9    45
## 8100          41    18    0     6440    23.9    33
## 8142          31    10    0     2969    44.3    22
## 8149          31     7    0     7545    53.9    11
## 8152          13    11    0    31485    76.3    23
## 8156          61    10    1      164     1.0    34
## 8165          25    19    0    23040    28.0    37
## 8201          75    23    0    32094    49.8    39
## 8203          19    10    1     3996    28.1    25
## 8209          64     9    0     2663    26.4    18
## 8224           3    19    0    14317    20.7    42
## 8246          66    11    0    21864    41.1    31
## 8256          50     3    0     5365    44.7    33
```

```
## 8267                    33        7       0      9245       60.8        22
## 8272                    22        7       0      6386       40.7        13
## 8284                     4       14       0      9277       31.1        20
## 8295                    42        6       0      5503       74.4        18
## 8316                    17        7       0      6164       34.2        13
## 8336                    68       19       1      2139        5.7        35
## 8355                    76       13       0     47607       90.0        27
## 8360                    24       15       0     21857       25.3        30
## 8364                    18       19       0     13727       21.2        46
## 8379                    28       16       0     14702       41.4        34
## 8391                    37       12       1      8911       60.2        23
## 8392                     2       11       0       164        0.6        13
## 8396                    47       13       0      8366       15.4        51
## 8437                    11       10       0     16331       67.8        22
## 8459                    23        5       0      1467       39.6        15
## 8462                    16        8       1      5807       32.6        15
## 8477                    57       14       0      4406       43.2        29
## 8482                    20        9       0      3575       40.2        25
## 8490                    44       11       0     10397       22.1        20
## 8491                    47       24       0     24826       66.9        40
## 8496                    75       22       0     33810       47.7        39
## 8498                    43       16       0      8985       36.5        41
## 8516                    67       19       0     46198       66.4        42
## 8518                    29       12       1      1269        7.6        18
## 8522                    63        9       1      5626       16.6        30
## 8526                    40        7       0     26941       79.2        21
## 8529                    46        6       0       809       33.7        20
## 8537                    43       14       0      3897       23.6        32
## 8552                    50       33       0     14513       49.0        87
## 8585                    19       14       0      1393        7.0        36
## 8602                    64       13       0     10407       39.4        33
## 8627                    38       30       1      5840       35.4        51
## 8647                    26       18       0      9430       39.3        37
## 8674                    20        6       0      2847       16.7        12
## 8709                    57       15       0      2275       13.4        32
## 8711                     4        8       1      2070       21.8        24
## 8712                    12       10       0       215        1.6        46
## 8721                    48       11       0      8270       37.8        17
## 8735                    55       17       0      9349       84.2        25
## 8767                    20       10       1      3665       12.6        30
## 8783                    70        4       0         9        0.2        11
## 8795                    43       13       0      6142       12.9        44
## 8804                    15       13       0     22786       50.9        39
## 8824                    37       22       0     38252       71.9        33
## 8835                    23       15       0      2535        6.6        32
## 8862                    78       10       0     13318       67.9        19
## 8864                    27        8       0     10476       63.9        20
## 8890                    31       10       0     18950       67.4        24
## 8895                    75       20       0      1542        7.9        66
## 8906                    11       12       0     32096       31.6        18
## 8944                    19        6       0      8949       43.0        18
## 8946                    17       16       0     10308       13.1        29
## 8953                    43       11       1      8047       71.8        13
## 8963                    23       19       0     14095       36.6        29
## 8966                    29       11       0     12640       18.7        18
## 8977                    61       22       0     16515       17.9        37
## 9042                    14       13       0     11453       29.8        15
## 9047                    18       14       0     39375       74.2        41
## 9048                    19       13       0     16976       70.7        42
## 9056                    65       15       0     38845       58.6        26
## 9057                    25       16       0      1714        3.5        30
## 9058                    38       12       0     33851       75.7        29
## 9083                    81       11       2      7237       28.6        22
## 9091                    27       13       0     19794       58.4        33
## 9096                    25       19       1      6115       10.1        33
## 9098                    19       17       0     12448       25.7        34
## 9101                    53       16       0     31213       42.4        40
## 9103                    39        7       0      2110       14.8        34
## 9140                    17       14       0      7910       61.8        28
## 9154                    34       33       0     49943       22.0        70
## 9160                    53        8       1     14734       35.7        14
## 9163                    59        9       0     10412       63.9        22
## 9202                    53        9       0      4731       41.9        29
## 9240                    24       18       0     35978       48.6        35
## 9243                     6        9       1     18104       37.9        28
## 9245                     6        7       0      4169       36.9        23
## 9254                    47        6       0      8905       71.8        16
## 9286                    21       12       1      4022       34.1        23
## 9294                    28        5       0      5905       48.0        14
## 9321                    30        9       0      7933       25.2        15
## 9336                    26       18       0      1391       17.4        52
## 9380                    20       18       0     36505       61.1        45
## 9383                     6        7       0     19430       78.7        18
## 9388                     4       16       0      6202       19.5        40
## 9413                    74       12       0      8626       13.9        30
## 9431                    74        7       0      8959       43.7        17
## 9432                    20       13       0     18594       62.2        25
## 9444                    47       10       0      4095       39.8        26
## 9459                    13       10       0      1765        4.8        33
## 9464                    49       23       0     21320       55.7        34
## 9474                    29       13       1      6515       34.7        25
## 9481                    10        8       0     11438       75.3        29
## 9497                    58        9       0      4777       13.2        29
## 9499                    67        8       1     11077       23.9        26
## 9503                    61        7       0      8398       63.6        17
## 9506                    38       17       0     19344       81.3        37
## 9509                    35        8       0     11094       58.1        10
## 9522                    80       17       0     13682       22.2        36
```

```
## 9546                    57       18       0     84495       88.9        31
## 9559                    60        3       0       837        6.4         5
## 9573                    69        9       0      7960       93.6        20
## 9610                    59       17       0     13124       27.1        41
## 9614                    39       21       0      7322       54.6        85
## 9627                    69       11       0      4892       10.9        23
## 9628                    18       11       0     12024       81.8        28
## 9629                    74       13       0      2705       17.9        46
## 9652                    23       15       0     34316       34.4        38
## 9677                    72        5       2      8527       48.7        10
## 9681                    36        8       0     14176       34.1        16
## 9690                    15       17       0       645        1.0        44
## 9697                    73        8       0      9308       53.8        17
## 9701                    63        4       0      6146       87.8        13
## 9705                    16        6       0      5165       83.3        19
## 9714                    74       16       0     12366       27.4        49
## 9718                    52        8       0     11022       76.5        30
## 9722                    11       10       0     10406       59.5        19
## 9748                    15       15       0      9318       34.9        24
## 9751                    27       19       0     22612       77.4        31
## 9753                    24        4       0       595       13.2        11
## 9773                    25       25       0      2614       10.2        47
## 9783                    61       12       0     39856       71.6        17
## 9786                    20       14       0      6966       14.4        26
## 9796                    72       16       0     33272       49.7        36
## 9811                    49        7       0      4275       16.4        15
## 9816                    44       18       0     33332       31.4        30
## 9817                    72        5       0     30391       83.3        32
## 9820                    65       14       0      5513       14.2        24
## 9834                    28        6       0      2541        8.9        16
## 9843                    34       21       0     14438       12.4        56
## 9872                    21       16       0     18224       38.4        27
## 9882                    45        9       0      7777       16.8        24
## 9898                    76       40       0     19885       13.5        61
## 9904                    22       22       0     14702       34.1        32
## 9924                    38       13       0      7692       48.7        17
## 9943                    18       10       0     28448       52.4        35
## 9945                    52        9       0     34056       79.8        30
## 9983                    49        6       0     15992       77.3        16
## 9988                    20       10       0      4064       23.5        26
## 10024                   10       10       0      5887       87.9        23
## 10033                   20       11       0     14244       32.7        28
## 10058                   33       11       0      2389       17.3        25
## 10062                   19       10       1      7466       77.8        21
## 10078                   13        9       0     14616       42.5        30
## 10088                   42       12       0      9498       14.0        26
## 10096                    5        7       1      4125       24.3        10
## 10110                   22       20       0     35491       82.8        29
## 10166                   54       41       0      6740       27.9        53
## 10167                   49       10       0     29191       85.1        25
## 10192                   51       13       0      7457       52.5        23
## 10195                   51       10       0      9273       28.5        22
##       initial_list_status out_prncp out_prncp_inv total_pymnt total_pymnt_inv
## 4                       f         0             0    1022.649         1022.65
## 7                       w         0             0   29275.062        29275.06
## 9                       w         0             0   10148.873        10148.87
## 14                      w         0             0    5056.253         5056.25
## 23                      w         0             0    5020.715         5020.71
## 34                      w         0             0   13543.279        13543.28
## 40                      f         0             0    1010.403          985.14
## 49                      w         0             0   32522.905        32522.90
## 50                      w         0             0   28442.039        28442.04
## 51                      w         0             0   30036.305        30036.30
## 68                      w         0             0    5584.598         5584.60
## 82                      w         0             0    7081.728         7081.73
## 115                     w         0             0    7243.390         7243.39
## 140                     w         0             0   30081.754        30081.75
## 158                     f         0             0   36088.650        36063.59
## 162                     w         0             0    3049.196         3049.20
## 167                     f         0             0   13264.031        13238.52
## 182                     f         0             0    1640.048         1358.16
## 186                     w         0             0   32083.046        32083.05
## 200                     w         0             0   12778.621        12778.62
## 239                     w         0             0   11007.536        11007.54
## 249                     w         0             0    7133.793         7133.79
## 261                     w         0             0    1029.673         1029.67
## 273                     w         0             0   15166.858        15166.86
## 276                     w         0             0    2001.084         2001.08
## 345                     w         0             0    3617.852         3617.85
## 369                     w         0             0   17506.779        17506.78
## 379                     w         0             0    7545.570         7545.57
## 389                     w         0             0   10007.160        10007.16
## 395                     w         0             0    7079.678         7079.68
## 403                     f         0             0    6527.573         6527.57
## 408                     w         0             0    1529.275         1529.28
## 411                     w         0             0   39204.055        39204.06
## 426                     w         0             0   31334.491        31334.49
## 438                     w         0             0   10015.144        10015.14
## 441                     w         0             0    6386.176         6386.18
## 443                     w         0             0    7224.981         7224.98
## 468                     w         0             0    3502.267         3502.27
## 469                     w         0             0   26815.221        26815.22
## 480                     w         0             0    5067.911         5067.91
## 482                     w         0             0   10081.894        10081.89
## 483                     w         0             0   12507.809        12507.81
## 513                     w         0             0   10183.374        10183.37
## 566                     w         0             0   11034.835        11034.83
## 569                     w         0             0   11172.009        11172.01
```

```
## 587                    w        0            0   10127.595        10127.60
## 597                    w        0            0   10186.782        10186.78
## 605                    w        0            0   12009.049        12009.05
## 627                    w        0            0   18895.690        18895.69
## 644                    w        0            0    2401.124         2401.12
## 677                    w        0            0    2320.272         2320.27
## 687                    w        0            0    7500.002         7500.00
## 708                    f        0            0    2595.849         2595.85
## 718                    w        0            0    9805.682         9805.68
## 721                    w        0            0   10398.564        10398.56
## 743                    f        0            0   33248.706        33248.71
## 744                    w        0            0   20013.055        20013.06
## 745                    w        0            0   18041.409        18041.41
## 758                    w        0            0    3749.006         3749.01
## 777                    w        0            0   20374.387        20374.39
## 802                    w        0            0   36992.074        36992.07
## 818                    w        0            0   10421.785        10421.78
## 832                    w        0            0   10184.570        10184.57
## 856                    f        0            0   12221.444        12221.44
## 857                    w        0            0   41355.703        41355.70
## 858                    f        0            0    2056.808         2056.81
## 882                    w        0            0   20225.618        20225.62
## 883                    f        0            0    3062.577         3062.58
## 889                    w        0            0   30650.800        30650.80
## 903                    w        0            0   20009.198        20009.20
## 907                    w        0            0    6147.520         6147.52
## 915                    w        0            0    9039.840         9039.84
## 920                    f        0            0   10256.650        10205.37
## 939                    w        0            0    1716.309         1716.31
## 954                    w        0            0   28433.178        28433.18
## 969                    w        0            0   12620.871        12620.87
## 1002                   w        0            0   29035.087        29035.09
## 1015                   w        0            0   28088.962        28088.96
## 1024                   w        0            0   25793.248        25793.25
## 1029                   w        0            0    5044.513         5044.51
## 1031                   w        0            0     238.660          238.66
## 1053                   w        0            0   31767.032        31767.03
## 1057                   w        0            0   15423.945        15423.94
## 1080                   w        0            0   28637.681        28637.68
## 1108                   f        0            0    8158.716         8158.72
## 1109                   w        0            0   20853.445        20853.45
## 1110                   w        0            0    8846.609         8846.61
## 1112                   w        0            0   17042.424        17042.42
## 1115                   w        0            0    8945.747         8945.75
## 1121                   w        0            0   36723.122        36723.12
## 1122                   w        0            0    5639.418         5639.42
## 1139                   w        0            0    1614.852         1614.85
## 1163                   w        0            0   18009.406        18009.41
## 1181                   w        0            0   25461.830        25461.83
## 1187                   w        0            0   15013.063        15013.06
## 1194                   f        0            0    2699.191         2699.19
## 1197                   w        0            0   25719.926        25719.93
## 1209                   w        0            0   30498.975        30498.98
## 1224                   w        0            0   10196.858        10196.86
## 1257                   w        0            0    8558.143         8558.14
## 1262                   w        0            0   10007.539        10007.54
## 1275                   w        0            0   18491.104        18491.10
## 1336                   w        0            0   33039.424        33039.42
## 1343                   w        0            0   20004.488        20004.49
## 1346                   w        0            0   20011.346        20011.35
## 1347                   w        0            0    9391.795         9391.79
## 1379                   w        0            0   40601.864        40601.86
## 1418                   w        0            0    4046.623         4046.62
## 1425                   w        0            0   30917.339        30917.34
## 1450                   w        0            0    7154.833         7154.83
## 1451                   w        0            0    3057.130         3057.13
## 1452                   w        0            0   30604.093        30604.09
## 1465                   w        0            0   42246.949        42246.95
## 1468                   w        0            0   26567.998        26568.00
## 1478                   w        0            0   28682.493        28682.49
## 1479                   w        0            0   35028.245        35028.24
## 1500                   w        0            0    4185.384         4185.38
## 1509                   w        0            0       0.000            0.00
## 1524                   w        0            0   16813.610        16813.61
## 1533                   w        0            0    5771.979         5771.98
## 1534                   f        0            0   26704.577        26704.58
## 1537                   f        0            0    6154.092         6154.09
## 1548                   w        0            0   10534.833        10534.83
## 1566                   w        0            0    8972.427         8972.43
## 1575                   w        0            0    4192.781         4192.78
## 1620                   w        0            0    5065.188         5065.19
## 1632                   f        0            0    1651.041         1651.04
## 1661                   w        0            0   25726.635        25726.64
## 1666                   w        0            0   12023.565        12023.56
## 1679                   w        0            0    2050.168         2050.17
## 1686                   w        0            0   36391.545        36391.54
## 1688                   w        0            0    3737.696         3737.70
## 1726                   f        0            0   10032.885        10032.88
## 1738                   w        0            0   11442.003        11442.00
## 1744                   w        0            0    3114.101         3114.10
## 1750                   f        0            0   10016.450        10016.45
## 1754                   w        0            0    6037.426         6037.43
## 1762                   w        0            0    3130.415         3130.42
## 1809                   w        0            0    4008.995         4008.99
## 1811                   w        0            0   10463.352        10463.35
## 1819                   w        0            0    5041.437         5041.44
## 1880                   w        0            0     608.230          608.23
## 1881                   f        0            0   10016.800        10016.80
```

```
## 1894                w        0            0    8670.436         8670.44
## 1900                w        0            0    5196.073         5196.07
## 1915                w        0            0   10006.493        10006.49
## 1919                w        0            0    8550.960         8550.96
## 1942                f        0            0    1038.344         1038.34
## 1943                w        0            0   19110.522        19110.52
## 1958                f        0            0   10142.106        10142.11
## 1991                f        0            0   15071.022        15071.02
## 1994                f        0            0     244.280          244.28
## 1997                w        0            0    7048.188         7048.19
## 2001                w        0            0   24575.162        24575.16
## 2013                w        0            0   24453.601        24453.60
## 2015                f        0            0    1478.905         1478.91
## 2018                w        0            0   25146.999        25147.00
## 2050                f        0            0    7123.470         7123.47
## 2074                w        0            0   10422.097        10422.10
## 2077                f        0            0    7143.157         7143.16
## 2092                w        0            0     391.320          391.32
## 2161                w        0            0   16447.539        16447.54
## 2165                w        0            0       0.000            0.00
## 2170                f        0            0    4995.464         4995.46
## 2171                w        0            0   13939.141        13939.14
## 2172                w        0            0   14932.464        14932.46
## 2192                w        0            0   35510.864        35510.86
## 2194                w        0            0   30041.302        30041.30
## 2196                w        0            0    1824.585         1824.59
## 2248                w        0            0    5124.170         5124.17
## 2253                w        0            0   21265.524        21265.52
## 2254                w        0            0   10755.800        10755.80
## 2257                f        0            0   10423.074        10397.02
## 2263                f        0            0    4292.223         4292.22
## 2277                f        0            0    8326.507         8326.51
## 2289                w        0            0    5005.399         5005.40
## 2303                w        0            0   11564.656        11564.66
## 2312                w        0            0    4076.450         4076.45
## 2318                w        0            0   12011.347        12011.35
## 2320                f        0            0   12155.930        12155.93
## 2326                f        0            0    7198.678         7198.68
## 2328                w        0            0    5187.738         5187.74
## 2341                w        0            0    7017.418         7017.42
## 2348                w        0            0    7641.231         7641.23
## 2370                w        0            0    7147.538         7147.54
## 2376                w        0            0   10337.906        10337.91
## 2382                f        0            0    8002.912         7752.82
## 2385                f        0            0    2833.884         2833.88
## 2406                w        0            0   13291.534        13291.53
## 2409                w        0            0    4479.051         4479.05
## 2421                w        0            0   14025.231        14025.23
## 2456                w        0            0    1545.918         1545.92
## 2462                f        0            0   10789.766        10762.79
## 2476                w        0            0   25279.107        25279.11
## 2481                f        0            0    7827.842         7568.64
## 2488                w        0            0   15690.217        15690.22
## 2496                w        0            0    8887.737         8887.74
## 2520                w        0            0   21053.926        21053.93
## 2531                w        0            0   15126.912        15126.91
## 2541                w        0            0   17500.001        17500.00
## 2544                w        0            0   11819.173        11819.17
## 2563                w        0            0   16501.082        16501.08
## 2568                w        0            0     711.170          711.17
## 2580                w        0            0   21835.263        21835.26
## 2599                w        0            0   13657.008        13657.01
## 2600                f        0            0    1988.860         1987.08
## 2602                w        0            0   25823.480        25823.48
## 2605                f        0            0   11294.700        11294.70
## 2615                w        0            0    8384.571         8384.57
## 2620                w        0            0   20013.375        20013.38
## 2623                w        0            0   12070.560        12070.56
## 2651                w        0            0     702.520          702.52
## 2655                w        0            0   10495.095        10495.09
## 2659                w        0            0    7143.130         7143.13
## 2660                w        0            0    2138.310         2138.31
## 2663                w        0            0    5330.962         5330.96
## 2667                w        0            0   20947.397        20947.40
## 2672                w        0            0    4184.102         4184.10
## 2677                w        0            0    5118.190         5118.19
## 2690                f        0            0    5616.003         5616.00
## 2695                w        0            0    3886.373         3886.37
## 2702                w        0            0   10511.051        10511.05
## 2710                w        0            0   20978.166        20978.17
## 2738                f        0            0   16232.110        16232.11
## 2742                w        0            0    6122.790         6122.79
## 2745                w        0            0    7558.525         7558.53
## 2773                w        0            0    9508.083         9508.08
## 2787                w        0            0   35018.285        35018.28
## 2792                w        0            0   15464.223        15464.22
## 2803                w        0            0    9122.405         9122.41
## 2813                w        0            0    8998.588         8998.59
## 2817                w        0            0   20348.564        20348.56
## 2819                w        0            0   16793.025        16793.03
## 2832                w        0            0   10010.315        10010.31
## 2857                w        0            0   10605.832        10605.83
## 2860                w        0            0     430.980          430.98
## 2865                w        0            0   11680.505        11680.51
## 2875                w        0            0    1218.940         1218.94
## 2880                w        0            0      63.330           63.33
## 2894                w        0            0   26110.507        26110.51
## 2899                w        0            0   10404.676        10404.68
```

```
## 2912                    f         0             0    2252.786         2252.79
## 2927                    w         0             0   12549.285        12549.28
## 2933                    w         0             0   36080.175        36080.18
## 2947                    w         0             0   24030.680        24030.68
## 2951                    w         0             0   17421.414        17421.41
## 2957                    w         0             0   15402.942        15402.94
## 2961                    w         0             0   23534.560        23534.56
## 2968                    w         0             0     381.360          381.36
## 2971                    w         0             0   30712.283        30712.28
## 2995                    w         0             0   19370.756        19370.76
## 3032                    w         0             0   20649.638        20649.64
## 3036                    w         0             0   24286.100        24286.10
## 3040                    w         0             0   28661.053        28661.05
## 3053                    w         0             0    3294.250         3294.25
## 3062                    w         0             0    4283.215         4283.21
## 3067                    w         0             0   30775.707        30775.71
## 3074                    w         0             0    1059.171         1059.17
## 3092                    w         0             0   28617.119        28617.12
## 3102                    f         0             0    1036.857         1036.86
## 3119                    w         0             0   40671.329        40671.33
## 3123                    f         0             0    5094.211         5094.21
## 3134                    f         0             0   12041.930        12016.84
## 3141                    w         0             0   19269.902        19269.90
## 3143                    w         0             0   21689.811        21689.81
## 3173                    w         0             0     242.240          242.24
## 3178                    w         0             0   41609.929        41609.93
## 3186                    w         0             0     344.710          344.71
## 3204                    f         0             0    8635.152         8635.15
## 3210                    w         0             0   40983.034        40983.03
## 3211                    f         0             0    3189.619         3189.62
## 3218                    w         0             0    2538.313         2538.31
## 3230                    f         0             0    5004.225         5004.23
## 3251                    w         0             0    4033.722         4033.72
## 3262                    w         0             0   10111.197        10111.20
## 3269                    w         0             0   21199.630        21199.63
## 3271                    w         0             0   30602.182        30602.18
## 3278                    w         0             0   20581.087        20581.09
## 3282                    f         0             0    6798.892         6798.89
## 3302                    w         0             0   10721.151        10721.15
## 3318                    w         0             0    2046.228         2046.23
## 3323                    w         0             0   17860.085        17860.08
## 3367                    w         0             0     547.640          547.64
## 3376                    w         0             0    1553.090         1553.09
## 3392                    w         0             0   22954.735        22954.73
## 3409                    w         0             0   37230.945        37230.95
## 3416                    w         0             0   14614.213        14614.21
## 3436                    w         0             0   10456.556        10456.56
## 3441                    w         0             0    5080.462         5080.46
## 3472                    w         0             0   10188.148        10188.15
## 3485                    f         0             0    3690.200         3690.20
## 3492                    f         0             0   10369.897        10369.90
## 3494                    f         0             0    1062.010         1060.33
## 3501                    w         0             0    9711.381         9711.38
## 3506                    w         0             0   10253.071        10253.07
## 3530                    w         0             0   36119.264        36119.26
## 3565                    f         0             0    1090.947         1090.95
## 3577                    w         0             0   19904.408        19904.41
## 3613                    f         0             0    2163.730         2163.73
## 3617                    w         0             0    8165.193         8165.19
## 3639                    w         0             0   42389.153        42389.15
## 3657                    w         0             0   10039.546        10039.55
## 3668                    w         0             0   16011.223        16011.22
## 3686                    w         0             0    3017.560         3017.56
## 3698                    w         0             0   30445.552        30445.55
## 3704                    w         0             0   18582.183        18582.18
## 3707                    w         0             0   20012.619        20012.62
## 3780                    w         0             0   14702.062        14702.06
## 3790                    w         0             0   12319.610        12319.61
## 3794                    w         0             0   21643.681        21643.68
## 3796                    w         0             0    3675.533         3675.53
## 3822                    w         0             0   42181.197        42181.20
## 3825                    f         0             0   23555.876        23555.88
## 3861                    w         0             0   26723.096        26723.10
## 3887                    w         0             0   20888.579        20888.58
## 3921                    f         0             0   24046.325        24046.33
## 3922                    w         0             0    3020.163         3020.16
## 3926                    w         0             0   26475.553        26475.55
## 3943                    w         0             0    7415.367         7415.37
## 3954                    w         0             0   16989.019        16989.02
## 3964                    w         0             0    6144.501         6144.50
## 3976                    w         0             0   15822.891        15822.89
## 3984                    w         0             0   10804.027        10804.03
## 4006                    w         0             0    1235.890         1235.89
## 4010                    f         0             0    6122.537         6122.54
## 4028                    w         0             0    6311.312         6311.31
## 4043                    w         0             0   40023.773        40023.77
## 4045                    w         0             0    7528.620         7528.62
## 4053                    w         0             0    3081.424         3081.42
## 4055                    w         0             0   21770.031        21770.03
## 4057                    w         0             0    1078.910         1078.91
## 4098                    w         0             0   28663.773        28663.77
## 4100                    w         0             0    6525.106         6525.11
## 4113                    w         0             0   11874.162        11874.16
## 4119                    w         0             0   13713.217        13713.22
## 4136                    f         0             0    6215.047         6215.05
## 4138                    w         0             0   15295.223        15295.22
## 4150                    w         0             0   17054.209        17054.21
## 4169                    w         0             0   26133.030        26133.03
```

```
## 4173                w        0            0   19604.251        19604.25
## 4193                w        0            0    8321.706         8321.71
## 4198                w        0            0   21016.042        21016.04
## 4203                w        0            0   15577.926        15577.93
## 4211                f        0            0   15966.566        15700.46
## 4220                w        0            0    3133.846         3133.85
## 4229                w        0            0   22512.893        22512.89
## 4247                w        0            0    2531.685         2531.68
## 4273                w        0            0    7208.102         7208.10
## 4274                w        0            0   35339.885        35339.89
## 4284                w        0            0     861.660          861.66
## 4301                w        0            0   10236.266        10236.27
## 4325                w        0            0    8069.221         8069.22
## 4349                w        0            0    5276.204         5276.20
## 4350                w        0            0   30011.974        30011.97
## 4370                w        0            0    6207.620         6207.62
## 4372                w        0            0   14885.178        14885.18
## 4388                w        0            0   11654.155        11654.16
## 4390                w        0            0   16795.606        16795.61
## 4400                w        0            0    5577.471         5577.47
## 4401                w        0            0   20929.067        20929.07
## 4402                w        0            0    6049.580         6049.58
## 4418                w        0            0   20377.383        20377.38
## 4421                w        0            0    6080.955         6080.95
## 4431                w        0            0   10624.491        10624.49
## 4440                w        0            0    5563.460         5563.46
## 4458                w        0            0   10514.040        10514.04
## 4461                w        0            0   11017.188        11017.19
## 4469                w        0            0    9547.244         9547.24
## 4472                w        0            0    3513.388         3513.39
## 4479                w        0            0   30355.978        30355.98
## 4483                w        0            0    5068.541         5068.54
## 4503                w        0            0   12192.203        12192.20
## 4519                w        0            0   20730.348        20730.35
## 4522                f        0            0   10022.421        10022.42
## 4525                w        0            0   15880.389        15880.39
## 4528                f        0            0    2008.870         2008.87
## 4538                w        0            0   20817.188        20817.19
## 4548                w        0            0   36790.204        36790.20
## 4554                w        0            0   12007.019        12007.02
## 4557                w        0            0   16560.883        16560.88
## 4569                f        0            0    1008.616         1008.62
## 4576                w        0            0   10005.482        10005.48
## 4590                w        0            0    4004.556         4004.56
## 4594                w        0            0   20670.480        20670.48
## 4604                w        0            0   10820.626        10820.63
## 4622                w        0            0     932.350          932.35
## 4626                f        0            0   10434.740        10434.74
## 4629                f        0            0   10591.948        10591.95
## 4633                f        0            0    4330.625         4330.63
## 4646                w        0            0    4377.380         4377.38
## 4650                w        0            0   18263.673        18263.67
## 4660                w        0            0   24663.367        24663.37
## 4673                w        0            0    1722.990         1722.99
## 4684                f        0            0   10308.218        10308.22
## 4699                f        0            0     425.590          425.59
## 4720                w        0            0    3052.786         3052.79
## 4724                w        0            0   18658.271        18658.27
## 4728                w        0            0    1367.261         1367.26
## 4751                w        0            0     223.610          223.61
## 4778                w        0            0    6909.946         6909.95
## 4812                f        0            0   35007.438        34982.43
## 4820                w        0            0    2371.780         2371.78
## 4835                w        0            0   21417.485        21417.49
## 4843                w        0            0   12399.481        12399.48
## 4876                w        0            0     679.980          679.98
## 4882                w        0            0   25350.421        25350.42
## 4895                w        0            0   37405.154        37405.15
## 4907                w        0            0     651.400          651.40
## 4912                w        0            0   10373.337        10373.34
## 4941                w        0            0   30582.294        30582.29
## 4952                w        0            0   20923.147        20923.15
## 4954                w        0            0   15070.400        15070.40
## 4956                w        0            0    4066.440         4066.44
## 4957                w        0            0   24169.823        24169.82
## 4959                w        0            0   18152.619        18152.62
## 4960                w        0            0    2022.113         2022.11
## 4987                w        0            0    9380.087         9380.09
## 5022                w        0            0   13907.815        13907.81
## 5027                f        0            0   22164.886        22164.89
## 5029                w        0            0    7261.048         7261.05
## 5053                w        0            0   18799.539        18799.54
## 5054                w        0            0   10216.158        10216.16
## 5055                f        0            0    3102.339         3102.34
## 5066                w        0            0   40015.346        40015.35
## 5069                w        0            0     448.420          448.42
## 5077                w        0            0   15096.637        15096.64
## 5091                w        0            0   15866.641        15866.64
## 5110                w        0            0    4334.941         4334.94
## 5114                f        0            0    1016.750         1016.75
## 5161                w        0            0   43471.531        43471.53
## 5215                w        0            0    1865.478         1865.48
## 5216                w        0            0   25009.052        25009.05
## 5219                w        0            0   21590.430        21590.43
## 5251                w        0            0   16585.168        16585.17
## 5254                w        0            0   38262.342        38262.34
## 5258                w        0            0    1100.320         1100.32
## 5269                w        0            0   42653.734        42653.73
```

```
## 5277                w        0            0     320.100          320.10
## 5285                w        0            0    1640.310         1640.31
## 5291                w        0            0    4921.830         4921.83
## 5292                w        0            0    1029.970         1029.97
## 5340                w        0            0    9867.332         9867.33
## 5341                w        0            0   25015.123        25015.12
## 5347                w        0            0    5037.597         5037.60
## 5373                f        0            0    7331.373         7331.37
## 5382                w        0            0   40621.097        40621.10
## 5394                w        0            0    9642.994         9642.99
## 5432                w        0            0    3107.446         3107.45
## 5443                f        0            0   15085.093        15059.95
## 5445                w        0            0   16023.265        16023.26
## 5454                w        0            0   17593.143        17593.14
## 5464                w        0            0   17934.265        17934.27
## 5479                f        0            0   10450.275        10450.28
## 5503                w        0            0   30597.748        30597.75
## 5514                w        0            0   10787.595        10787.60
## 5517                w        0            0    4219.248         4219.25
## 5545                w        0            0   25244.026        25244.03
## 5549                f        0            0    1532.293         1532.29
## 5558                w        0            0    6176.571         6176.57
## 5569                w        0            0   10588.247        10588.25
## 5590                f        0            0    6994.151         6994.15
## 5592                f        0            0    5668.018         5668.02
## 5608                w        0            0    5509.052         5509.05
## 5609                w        0            0   20171.887        20171.89
## 5611                w        0            0    3109.259         3109.26
## 5624                f        0            0    3194.708         3194.71
## 5651                w        0            0    2235.863         2235.86
## 5673                w        0            0   22811.797        22811.80
## 5692                f        0            0    8635.834         8635.83
## 5694                w        0            0    3052.826         3052.83
## 5716                w        0            0    8395.787         8395.79
## 5736                w        0            0   19973.711        19973.71
## 5745                f        0            0    4454.131         4454.13
## 5777                w        0            0   15672.354        15672.35
## 5789                w        0            0   15904.709        15904.71
## 5822                w        0            0   21133.483        21133.48
## 5831                w        0            0    1967.500         1967.50
## 5843                w        0            0    4992.262         4992.26
## 5863                w        0            0   20156.872        20156.87
## 5865                w        0            0    1750.320         1750.32
## 5868                w        0            0    3363.367         3363.37
## 5870                w        0            0    2504.300         2504.30
## 5882                f        0            0   10015.482        10015.48
## 5883                w        0            0    5218.189         5218.19
## 5888                w        0            0    1105.010         1105.01
## 5899                w        0            0    6242.143         6242.14
## 5902                w        0            0   23268.050        23268.05
## 5903                w        0            0    3350.260         3350.26
## 5904                w        0            0   11642.213        11642.21
## 5906                w        0            0    7184.336         7184.34
## 5907                w        0            0   15003.357        15003.36
## 5932                f        0            0    8420.879         8420.88
## 5933                w        0            0     650.810          650.81
## 5940                w        0            0   19807.775        19807.77
## 5942                w        0            0   18494.652        18494.65
## 5946                w        0            0   16180.960        16180.96
## 5955                w        0            0   41981.043        41981.04
## 5967                w        0            0    5713.641         5713.64
## 5973                f        0            0    1278.017         1278.02
## 5989                w        0            0   10600.028        10600.03
## 5999                w        0            0    5713.648         5713.65
## 6004                w        0            0   15172.782        15172.78
## 6024                f        0            0   20913.104        20913.10
## 6037                w        0            0    2122.341         2122.34
## 6038                w        0            0    1589.581         1589.58
## 6041                w        0            0   14696.955        14696.95
## 6047                w        0            0    3697.339         3697.34
## 6048                f        0            0    5031.824         5031.82
## 6052                w        0            0    8230.489         8230.49
## 6087                w        0            0   22277.382        22277.38
## 6102                w        0            0    1811.993         1811.99
## 6132                f        0            0   15585.158        15585.16
## 6139                w        0            0     991.200          991.20
## 6147                f        0            0   30656.644        30656.64
## 6154                w        0            0    2025.051         2025.05
## 6155                w        0            0   32511.289        32511.29
## 6156                w        0            0   16222.436        16222.44
## 6181                w        0            0    1557.018         1557.02
## 6186                w        0            0   15063.726        15063.73
## 6214                f        0            0    5177.277         5177.28
## 6217                w        0            0   12499.305        12499.30
## 6228                f        0            0   14786.988        14786.99
## 6232                w        0            0   23422.753        23422.75
## 6243                w        0            0   33382.130        33382.13
## 6248                w        0            0   26262.731        26262.73
## 6270                w        0            0     556.110          556.11
## 6274                w        0            0   10009.624        10009.62
## 6284                w        0            0   10688.468        10688.47
## 6309                w        0            0   27703.992        27703.99
## 6310                w        0            0   19185.932        19185.93
## 6317                f        0            0    3263.938         3263.94
## 6361                f        0            0    2609.664         2609.66
## 6366                w        0            0    1583.067         1583.07
## 6370                f        0            0     378.720          378.72
## 6393                w        0            0   25503.813        25503.81
```

```
## 6429                    w         0             0    6270.101         6270.10
## 6448                    f         0             0   12725.257        12698.75
## 6469                    w         0             0    1829.264         1829.26
## 6481                    w         0             0   18295.800        18295.80
## 6485                    f         0             0    4116.620         4116.62
## 6492                    f         0             0    3549.170         3549.17
## 6493                    f         0             0   25476.609        25198.59
## 6499                    w         0             0    4561.720         4561.72
## 6500                    w         0             0   11415.260        11415.26
## 6510                    w         0             0    5068.694         5068.69
## 6522                    f         0             0   17005.569        17005.57
## 6528                    w         0             0   36903.396        36903.40
## 6536                    f         0             0    3738.101         3738.10
## 6550                    f         0             0   10547.402        10547.40
## 6555                    f         0             0    3033.424         3033.42
## 6559                    w         0             0   24103.288        24103.29
## 6591                    w         0             0   12080.047        12080.05
## 6641                    w         0             0    5602.790         5602.79
## 6644                    f         0             0   22459.372        22192.95
## 6646                    w         0             0    2595.970         2595.97
## 6648                    w         0             0   16843.472        16843.47
## 6682                    w         0             0    5196.339         5196.34
## 6699                    w         0             0    6682.602         6682.60
## 6700                    w         0             0    8365.957         8365.96
## 6704                    w         0             0   10761.598        10761.60
## 6716                    w         0             0   10940.833        10940.83
## 6719                    w         0             0   22140.417        22140.42
## 6724                    w         0             0    4008.972         4008.97
## 6737                    w         0             0   10753.963        10753.96
## 6795                    f         0             0     822.410          822.41
## 6813                    w         0             0   10832.564        10832.56
## 6826                    w         0             0   20050.738        20050.74
## 6842                    w         0             0    5447.375         5447.37
## 6852                    w         0             0   10443.220        10443.22
## 6856                    w         0             0    6857.276         6857.28
## 6866                    w         0             0   33804.374        33804.37
## 6875                    w         0             0   15673.761        15673.76
## 6901                    f         0             0    6503.339         6503.34
## 6944                    w         0             0   41652.428        41652.43
## 6952                    w         0             0     833.250          833.25
## 6968                    w         0             0   10687.544        10687.54
## 6980                    w         0             0   10240.212        10240.21
## 6991                    w         0             0   12437.577        12437.58
## 6992                    w         0             0   12718.730        12718.73
## 7041                    w         0             0   31116.062        31116.06
## 7046                    w         0             0    5520.503         5520.50
## 7055                    w         0             0   28229.328        28229.33
## 7070                    f         0             0   20179.878        20179.88
## 7078                    f         0             0   10430.737        10430.74
## 7083                    w         0             0    1612.650         1612.65
## 7092                    w         0             0   13442.046        13442.05
## 7093                    w         0             0   10672.212        10672.21
## 7113                    w         0             0    6404.074         6404.07
## 7128                    w         0             0   10416.174        10416.17
## 7140                    f         0             0    1351.880         1351.88
## 7154                    w         0             0   41513.522        41513.52
## 7157                    w         0             0   10594.849        10594.85
## 7170                    w         0             0    9885.738         9885.74
## 7175                    w         0             0    4004.968         4004.97
## 7181                    f         0             0    5776.774         5776.77
## 7194                    w         0             0   10407.301        10407.30
## 7200                    w         0             0    8547.829         8547.83
## 7205                    w         0             0   10348.009        10348.01
## 7209                    w         0             0    2430.500         2430.50
## 7210                    w         0             0    9258.690         9258.69
## 7211                    w         0             0   30640.199        30640.20
## 7212                    w         0             0    2666.510         2666.51
## 7246                    f         0             0   12578.875        12578.87
## 7248                    w         0             0    2000.001         2000.00
## 7260                    w         0             0   10936.469        10936.47
## 7264                    w         0             0    8154.848         8154.85
## 7277                    f         0             0    3838.746         3838.75
## 7283                    w         0             0   12241.739        12241.74
## 7286                    f         0             0    1397.590         1397.59
## 7300                    f         0             0    7480.899         7480.90
## 7332                    w         0             0    5165.481         5165.48
## 7348                    w         0             0    2133.633         2133.63
## 7350                    w         0             0    5219.779         5219.78
## 7356                    w         0             0    3586.545         3586.55
## 7367                    f         0             0    3061.920         3061.92
## 7368                    w         0             0    3072.755         3072.76
## 7369                    w         0             0    7462.390         7462.39
## 7370                    w         0             0    1684.415         1684.41
## 7376                    w         0             0   11295.269        11295.27
## 7379                    w         0             0    9645.255         9645.25
## 7388                    w         0             0    8668.469         8668.47
## 7395                    w         0             0     349.170          349.17
## 7398                    w         0             0   10009.671        10009.67
## 7457                    w         0             0    1764.540         1764.54
## 7471                    w         0             0   40423.843        40423.84
## 7482                    w         0             0    6231.018         6231.02
## 7507                    w         0             0    7529.402         7529.40
## 7514                    w         0             0    6318.401         6318.40
## 7519                    w         0             0     882.230          882.23
## 7525                    w         0             0    6905.111         6905.11
## 7527                    f         0             0   10458.590        10458.59
## 7537                    w         0             0    5001.586         5001.59
## 7542                    w         0             0   25009.565        25009.57
```

```
## 7561                    w        0            0    5382.881         5382.88
## 7569                    w        0            0   35826.858        35826.86
## 7576                    w        0            0   11943.394        11943.39
## 7639                    w        0            0   20708.749        20708.75
## 7640                    f        0            0   32476.868        32476.87
## 7650                    w        0            0   12861.075        12861.07
## 7652                    w        0            0   10095.289        10095.29
## 7672                    w        0            0    1002.060         1002.06
## 7673                    f        0            0    2839.430         2839.43
## 7674                    w        0            0   15180.241        15180.24
## 7681                    w        0            0    4384.188         4384.19
## 7683                    w        0            0    5912.355         5912.35
## 7685                    w        0            0   27521.700        27521.70
## 7702                    w        0            0   11178.003        11178.00
## 7716                    w        0            0    8486.929         8486.93
## 7717                    w        0            0   10002.495        10002.50
## 7721                    w        0            0    2040.045         2040.04
## 7726                    w        0            0   27718.354        27718.35
## 7760                    w        0            0   23169.451        23169.45
## 7766                    w        0            0   10306.237        10306.24
## 7793                    w        0            0   15739.603        15739.60
## 7802                    f        0            0    8507.582         8507.58
## 7826                    w        0            0   10382.889        10382.89
## 7846                    w        0            0   10003.010        10003.01
## 7866                    f        0            0   33052.039        33052.04
## 7883                    w        0            0   10290.775        10290.78
## 7885                    w        0            0   13220.181        13220.18
## 7911                    w        0            0   15441.665        15441.67
## 7917                    w        0            0   17850.253        17850.25
## 7919                    w        0            0     687.020          687.02
## 7922                    w        0            0    3125.092         3125.09
## 7928                    w        0            0    2581.470         2581.47
## 7939                    w        0            0    3770.745         3770.74
## 7941                    w        0            0   10044.098        10044.10
## 7947                    w        0            0    3305.970         3305.97
## 7955                    w        0            0    8440.522         8440.52
## 7968                    w        0            0    9143.222         9143.22
## 7969                    w        0            0    3853.100         3853.10
## 7974                    w        0            0   12225.348        12225.35
## 7982                    w        0            0    2652.180         2652.18
## 7995                    f        0            0   12087.029        12031.07
## 8000                    w        0            0    6911.823         6911.82
## 8005                    w        0            0   23070.314        23070.31
## 8007                    w        0            0   13303.230        13303.23
## 8019                    w        0            0    8066.857         8066.86
## 8021                    w        0            0   10615.237        10615.24
## 8039                    w        0            0   24021.528        24021.53
## 8055                    w        0            0   11048.449        11048.45
## 8061                    w        0            0   21819.709        21819.71
## 8066                    w        0            0    8355.989         8355.99
## 8093                    w        0            0    8429.705         8429.70
## 8095                    w        0            0   30837.166        30837.17
## 8100                    w        0            0    2486.670         2486.67
## 8142                    w        0            0    3372.277         3372.28
## 8149                    w        0            0    6363.635         6363.63
## 8152                    w        0            0    7419.921         7419.92
## 8156                    w        0            0    5310.916         5310.92
## 8165                    w        0            0   16381.526        16381.53
## 8201                    f        0            0   12924.893        12924.89
## 8203                    f        0            0    6491.173         6491.17
## 8209                    f        0            0    1579.560         1579.56
## 8224                    f        0            0    3612.700         3607.54
## 8246                    w        0            0   39637.312        39637.31
## 8256                    w        0            0    2505.296         2505.30
## 8267                    w        0            0     286.080          286.08
## 8272                    w        0            0    6216.346         6216.35
## 8284                    w        0            0    2762.420         2762.42
## 8295                    w        0            0   14751.258        14751.26
## 8316                    w        0            0    2887.880         2887.88
## 8336                    w        0            0    7911.577         7911.58
## 8355                    w        0            0    6627.184         6627.18
## 8360                    w        0            0   28593.290        28593.29
## 8364                    f        0            0   13734.545        13734.55
## 8379                    f        0            0   15872.788        15872.79
## 8391                    w        0            0    3154.390         3154.39
## 8392                    w        0            0     790.800          790.80
## 8396                    f        0            0    6102.309         6102.31
## 8437                    w        0            0   17017.825        17017.82
## 8459                    f        0            0   10418.161        10418.16
## 8462                    w        0            0    9795.507         9795.51
## 8477                    f        0            0    5208.475         5208.47
## 8482                    w        0            0   30019.716        30019.72
## 8490                    f        0            0    1794.180         1794.18
## 8491                    f        0            0    4368.938         4368.94
## 8496                    f        0            0    3993.020         3993.02
## 8498                    w        0            0   12175.083        12175.08
## 8516                    w        0            0   33097.973        33097.97
## 8518                    f        0            0    5039.611         5039.61
## 8522                    w        0            0    5135.036         5135.04
## 8526                    w        0            0   41032.179        41032.18
## 8529                    w        0            0    8232.953         8232.95
## 8537                    w        0            0    6177.185         6177.18
## 8552                    w        0            0    6011.650         6011.65
## 8585                    w        0            0    6119.034         6119.03
## 8602                    w        0            0    4441.230         4441.23
## 8627                    w        0            0    6305.220         6305.22
## 8647                    w        0            0    6009.648         6009.65
## 8674                    w        0            0   11183.726        11183.73
```

```
## 8709                w        0            0    6332.000         6332.00
## 8711                w        0            0    4605.588         4605.59
## 8712                w        0            0    5974.690         5974.69
## 8721                w        0            0    7016.570         7016.57
## 8735                w        0            0    2354.580         2354.58
## 8767                w        0            0   10618.845        10618.85
## 8783                w        0            0    3097.540         3097.54
## 8795                w        0            0   12447.650        12447.65
## 8804                w        0            0    3244.930         3244.93
## 8824                w        0            0     803.890          803.89
## 8835                w        0            0    7220.606         7220.61
## 8862                w        0            0   12861.015        12861.01
## 8864                w        0            0    2602.160         2602.16
## 8890                w        0            0   22119.719        22119.72
## 8895                w        0            0   16574.136        16574.14
## 8906                w        0            0    4904.250         4904.25
## 8944                f        0            0   15630.046        15630.05
## 8946                f        0            0   28460.578        28460.58
## 8953                w        0            0   17658.199        17658.20
## 8963                f        0            0    5946.080         5940.67
## 8966                f        0            0   12022.363        12022.36
## 8977                w        0            0   40864.942        40864.94
## 9042                f        0            0    3138.900         3138.90
## 9047                w        0            0   10382.801        10382.80
## 9048                w        0            0   10603.334        10603.33
## 9056                w        0            0   19047.762        19047.76
## 9057                w        0            0    5741.724         5741.72
## 9058                w        0            0   42020.467        42020.47
## 9083                w        0            0    6355.547         6355.55
## 9091                f        0            0   27411.702        27411.70
## 9096                w        0            0    6113.443         6113.44
## 9098                f        0            0   10581.679        10296.39
## 9101                w        0            0    1960.590         1960.59
## 9103                w        0            0    5143.774         5143.77
## 9140                f        0            0    7279.745         7279.74
## 9154                w        0            0   25847.219        25847.22
## 9160                f        0            0   21414.578        21387.81
## 9163                w        0            0   12003.055        12003.06
## 9202                w        0            0   10821.833        10821.83
## 9240                w        0            0    4001.153         4001.15
## 9243                w        0            0   25856.952        25856.95
## 9245                f        0            0    5024.522         5024.52
## 9254                f        0            0   13058.047        13058.05
## 9286                w        0            0    6181.660         6181.66
## 9294                w        0            0   12023.158        12023.16
## 9321                w        0            0   20241.307        20241.31
## 9336                w        0            0    2218.778         2218.78
## 9380                f        0            0   37272.940        37272.94
## 9383                w        0            0    2599.540         2599.54
## 9388                w        0            0    6402.832         6402.83
## 9413                w        0            0   10530.885        10530.88
## 9431                f        0            0    7165.859         7165.86
## 9432                w        0            0    5002.713         5002.71
## 9444                w        0            0    5737.657         5737.66
## 9459                w        0            0   25124.791        25124.79
## 9464                w        0            0   43694.426        43694.43
## 9474                w        0            0   10578.791        10578.79
## 9481                w        0            0   37700.143        37700.14
## 9497                f        0            0   21009.082        21009.08
## 9499                w        0            0   22086.775        22086.78
## 9503                w        0            0    7467.045         7467.04
## 9506                w        0            0   33114.281        33114.28
## 9509                w        0            0   40884.004        40884.00
## 9522                w        0            0   15018.347        15018.35
## 9546                w        0            0   42805.058        42805.06
## 9559                w        0            0   10968.715        10968.72
## 9573                f        0            0   12965.512        12965.51
## 9610                w        0            0   26961.601        26961.60
## 9614                f        0            0   10485.417        10223.28
## 9627                w        0            0    6396.513         6396.51
## 9628                f        0            0     697.620          697.62
## 9629                w        0            0   21203.931        21203.93
## 9652                f        0            0   15156.162        15156.16
## 9677                w        0            0   12269.061        12269.06
## 9681                w        0            0    3130.073         3130.07
## 9690                w        0            0    3798.120         3798.12
## 9697                w        0            0    2008.840         2008.84
## 9701                w        0            0   13002.462        13002.46
## 9705                w        0            0    1031.870         1031.87
## 9714                w        0            0   23763.368        23763.37
## 9718                w        0            0    3758.520         3758.52
## 9722                w        0            0    4733.930         4733.93
## 9748                w        0            0   21458.026        21458.03
## 9751                f        0            0   12030.544        12030.54
## 9753                w        0            0   10678.134        10678.13
## 9773                f        0            0       0.000            0.00
## 9783                w        0            0   22783.466        22783.47
## 9786                w        0            0    5204.477         5204.48
## 9796                w        0            0    1113.580         1113.58
## 9811                w        0            0    7935.567         7935.57
## 9816                w        0            0   23624.883        23624.88
## 9817                w        0            0    3029.630         3029.63
## 9820                w        0            0   25510.574        25510.57
## 9834                w        0            0    6126.878         6126.88
## 9843                w        0            0    4882.234         4882.23
## 9872                w        0            0   16444.439        16444.44
## 9882                w        0            0   10297.247        10297.25
## 9898                w        0            0   12256.200        12256.20
```

```
## 9904                    f         0             0    6517.410         6517.41
## 9924                    f         0             0     461.910          461.91
## 9943                    w         0             0   43616.448        43616.45
## 9945                    w         0             0   17220.974        17220.97
## 9983                    w         0             0     705.980          705.98
## 9988                    w         0             0   20329.055        20329.05
## 10024                   w         0             0   34938.558        34938.56
## 10033                   w         0             0    1256.780         1256.78
## 10058                   w         0             0     566.440          566.44
## 10062                   w         0             0    3696.153         3696.15
## 10078                   w         0             0    6337.314         6337.31
## 10088                   w         0             0   10431.958        10431.96
## 10096                   w         0             0    1103.118         1103.12
## 10110                   w         0             0   21918.683        21918.68
## 10166                   w         0             0    5729.665         5729.66
## 10167                   w         0             0   23227.765        23227.76
## 10192                   w         0             0    1843.470         1843.47
## 10195                   w         0             0    5348.688         5348.69
##       total_rec_prncp total_rec_int total_rec_late_fee recoveries
## 4             1000.00         22.65               0.00       0.00
## 7            29050.00        225.06               0.00       0.00
## 9            10000.00        148.87               0.00       0.00
## 14            5000.00         56.25               0.00       0.00
## 23            5000.00         20.71               0.00       0.00
## 34           13525.00         18.28               0.00       0.00
## 40            1000.00         10.40               0.00       0.00
## 49           32500.00         22.90               0.00       0.00
## 50           28000.00        442.04               0.00       0.00
## 51           30000.00         36.30               0.00       0.00
## 68            5575.00          9.60               0.00       0.00
## 82            7000.00         81.73               0.00       0.00
## 115           7200.00         43.39               0.00       0.00
## 140          30000.00         81.75               0.00       0.00
## 158          36000.00         88.65               0.00       0.00
## 162           3000.00         49.20               0.00       0.00
## 167          13000.00        264.03               0.00       0.00
## 182           1600.00         40.05               0.00       0.00
## 186          32000.00         83.05               0.00       0.00
## 200          12500.00        278.62               0.00       0.00
## 239          11000.00          7.54               0.00       0.00
## 249           7000.00        133.79               0.00       0.00
## 261           1000.00         29.67               0.00       0.00
## 273          15000.00        166.86               0.00       0.00
## 276           2000.00          1.08               0.00       0.00
## 345           3500.00        117.85               0.00       0.00
## 369          17500.00          6.78               0.00       0.00
## 379           7500.00         45.57               0.00       0.00
## 389          10000.00          7.16               0.00       0.00
## 395           7000.00         79.68               0.00       0.00
## 403           6175.00        352.57               0.00       0.00
## 408           1500.00         29.28               0.00       0.00
## 411          38400.00        804.06               0.00       0.00
## 426          30000.00       1334.49               0.00       0.00
## 438          10000.00         15.14               0.00       0.00
## 441           6300.00         86.18               0.00       0.00
## 443           7000.00        224.98               0.00       0.00
## 468           3500.00          2.27               0.00       0.00
## 469          26000.00        815.22               0.00       0.00
## 480           5000.00         67.91               0.00       0.00
## 482          10075.00          6.89               0.00       0.00
## 483          12000.00        507.81               0.00       0.00
## 513          10000.00        183.37               0.00       0.00
## 566          11000.00         34.83               0.00       0.00
## 569          11000.00        172.01               0.00       0.00
## 587          10000.00        127.60               0.00       0.00
## 597          10000.00        186.78               0.00       0.00
## 605          12000.00          9.05               0.00       0.00
## 627          18000.00        895.69               0.00       0.00
## 644           2400.00          1.12               0.00       0.00
## 677           2200.00        120.27               0.00       0.00
## 687           7500.00          0.00               0.00       0.00
## 708           2500.00         95.85               0.00       0.00
## 718           9600.00        205.68               0.00       0.00
## 721          10000.00        398.56               0.00       0.00
## 743          32000.00       1248.71               0.00       0.00
## 744          20000.00         13.06               0.00       0.00
## 745          17800.00        241.41               0.00       0.00
## 758           3500.00        249.01               0.00       0.00
## 777          20000.00        374.39               0.00       0.00
## 802          36000.00        992.07               0.00       0.00
## 818          10000.00        421.78               0.00       0.00
## 832          10000.00        184.57               0.00       0.00
## 856          12150.00         71.44               0.00       0.00
## 857          40000.00       1355.70               0.00       0.00
## 858           2000.00         56.81               0.00       0.00
## 882          20000.00        225.62               0.00       0.00
## 883           3000.00         62.58               0.00       0.00
## 889          30600.00         50.80               0.00       0.00
## 903          20000.00          9.20               0.00       0.00
## 907           6000.00        147.52               0.00       0.00
## 915           9000.00         39.84               0.00       0.00
## 920          10000.00        256.65               0.00       0.00
## 939           1600.00        116.31               0.00       0.00
## 954          26000.00       2433.18               0.00       0.00
## 969          12000.00        620.87               0.00       0.00
## 1002         28125.00        910.09               0.00       0.00
## 1015         27925.00        163.96               0.00       0.00
## 1024         25000.00        793.25               0.00       0.00
```

```
## 1029        5000.00        44.51             0.00       0.00
## 1031         107.13       131.53             0.00       0.00
## 1053       30000.00      1767.03             0.00       0.00
## 1057       15000.00       423.94             0.00       0.00
## 1080       28000.00       637.68             0.00       0.00
## 1108        8000.00       158.72             0.00       0.00
## 1109       20000.00       853.45             0.00       0.00
## 1110        8500.00       346.61             0.00       0.00
## 1112       16000.00      1042.42             0.00       0.00
## 1115        8850.00        95.75             0.00       0.00
## 1121       35000.00      1723.12             0.00       0.00
## 1122        5600.00        39.42             0.00       0.00
## 1139        1600.00        14.85             0.00       0.00
## 1163       18000.00         9.41             0.00       0.00
## 1181       25000.00       461.83             0.00       0.00
## 1187       15000.00        13.06             0.00       0.00
## 1194        2500.00       199.19             0.00       0.00
## 1197       25000.00       719.93             0.00       0.00
## 1209       30000.00       498.98             0.00       0.00
## 1224       10000.00       196.86             0.00       0.00
## 1257        8000.00       558.14             0.00       0.00
## 1262       10000.00         7.54             0.00       0.00
## 1275       18000.00       491.10             0.00       0.00
## 1336       32000.00      1039.42             0.00       0.00
## 1343       20000.00         4.49             0.00       0.00
## 1346       20000.00        11.35             0.00       0.00
## 1347        9000.00       391.79             0.00       0.00
## 1379       39125.00      1476.86             0.00       0.00
## 1418        4000.00        46.62             0.00       0.00
## 1425       30000.00       917.34             0.00       0.00
## 1450        7000.00       154.83             0.00       0.00
## 1451        3000.00        57.13             0.00       0.00
## 1452       30000.00       604.09             0.00       0.00
## 1465       40000.00      2246.95             0.00       0.00
## 1468       25000.00      1568.00             0.00       0.00
## 1478       25825.00      2857.49             0.00       0.00
## 1479       35000.00        28.24             0.00       0.00
## 1500        4000.00       185.38             0.00       0.00
## 1509           0.00         0.00             0.00       0.00
## 1524       16000.00       813.61             0.00       0.00
## 1533        5500.00       271.98             0.00       0.00
## 1534       26000.00       704.58             0.00       0.00
## 1537        6000.00       154.09             0.00       0.00
## 1548       10000.00       534.83             0.00       0.00
## 1566        8500.00       472.43             0.00       0.00
## 1575        4000.00       192.78             0.00       0.00
## 1620        5000.00        65.19             0.00       0.00
## 1632        1500.00       151.04             0.00       0.00
## 1661       24000.00      1726.64             0.00       0.00
## 1666       12000.00        23.56             0.00       0.00
## 1679        1975.00        75.17             0.00       0.00
## 1686       35000.00      1391.54             0.00       0.00
## 1688        3600.00       137.70             0.00       0.00
## 1726       10000.00        32.88             0.00       0.00
## 1738       11200.00       242.00             0.00       0.00
## 1744        3000.00       114.10             0.00       0.00
## 1750       10000.00        16.45             0.00       0.00
## 1754        5600.00       437.43             0.00       0.00
## 1762        3000.00       130.42             0.00       0.00
## 1809        4000.00         8.99             0.00       0.00
## 1811       10200.00       263.35             0.00       0.00
## 1819        5000.00        41.44             0.00       0.00
## 1880         236.39       371.84             0.00       0.00
## 1881       10000.00        16.80             0.00       0.00
## 1894        8400.00       270.44             0.00       0.00
## 1900        5000.00       196.07             0.00       0.00
## 1915       10000.00         6.49             0.00       0.00
## 1919        8500.00        50.96             0.00       0.00
## 1942        1000.00        38.34             0.00       0.00
## 1943       17500.00      1610.52             0.00       0.00
## 1958       10000.00       142.11             0.00       0.00
## 1991       15000.00        71.02             0.00       0.00
## 1994          85.45       143.83            15.00       0.00
## 1997        7000.00        48.19             0.00       0.00
## 2001       24000.00       575.16             0.00       0.00
## 2013       24000.00       453.60             0.00       0.00
## 2015        1400.00        78.91             0.00       0.00
## 2018       25000.00       147.00             0.00       0.00
## 2050        7000.00       123.47             0.00       0.00
## 2074       10000.00       422.10             0.00       0.00
## 2077        7000.00       143.16             0.00       0.00
## 2092         229.27       162.05             0.00       0.00
## 2161       15000.00      1447.54             0.00       0.00
## 2165           0.00         0.00             0.00       0.00
## 2170        4800.00       195.46             0.00       0.00
## 2171       13000.00       939.14             0.00       0.00
## 2172       14400.00       532.46             0.00       0.00
## 2192       35000.00       510.86             0.00       0.00
## 2194       30000.00        41.30             0.00       0.00
## 2196        1800.00        24.59             0.00       0.00
## 2248        5000.00       124.17             0.00       0.00
## 2253       20000.00      1265.52             0.00       0.00
## 2254       10650.00       105.80             0.00       0.00
## 2257       10000.00       423.07             0.00       0.00
## 2263        4000.00       292.22             0.00       0.00
## 2277        8000.00       326.51             0.00       0.00
## 2289        5000.00         5.40             0.00       0.00
## 2303       11000.00       564.66             0.00       0.00
```

```
## 2312        4000.00        76.45            0.00       0.00
## 2318       12000.00        11.35            0.00       0.00
## 2320       12000.00       155.93            0.00       0.00
## 2326        7000.00       198.68            0.00       0.00
## 2328        5000.00       187.74            0.00       0.00
## 2341        7000.00        17.42            0.00       0.00
## 2348        7500.00       141.23            0.00       0.00
## 2370        7000.00       147.54            0.00       0.00
## 2376       10000.00       337.91            0.00       0.00
## 2382        8000.00         2.91            0.00       0.00
## 2385        2800.00        33.88            0.00       0.00
## 2406       12000.00      1291.53            0.00       0.00
## 2409        4200.00       279.05            0.00       0.00
## 2421       13000.00      1025.23            0.00       0.00
## 2456        1500.00        45.92            0.00       0.00
## 2462       10000.00       789.77            0.00       0.00
## 2476       25000.00       279.11            0.00       0.00
## 2481        7550.00       277.84            0.00       0.00
## 2488       15000.00       690.22            0.00       0.00
## 2496        8500.00       387.74            0.00       0.00
## 2520       20000.00      1053.93            0.00       0.00
## 2531       15000.00       126.91            0.00       0.00
## 2541       17500.00         0.00            0.00       0.00
## 2544       11000.00       819.17            0.00       0.00
## 2563       16000.00       501.08            0.00       0.00
## 2568         430.83       262.54           17.80       0.00
## 2580       20000.00      1835.26            0.00       0.00
## 2599       13375.00       282.01            0.00       0.00
## 2600        1035.38       908.25           45.23       0.00
## 2602       24000.00      1823.48            0.00       0.00
## 2605       11200.00        94.70            0.00       0.00
## 2615        8000.00       384.57            0.00       0.00
## 2620       20000.00        13.38            0.00       0.00
## 2623       12000.00        70.56            0.00       0.00
## 2651         443.19       241.99           17.34       0.00
## 2655       10000.00       495.09            0.00       0.00
## 2659        7000.00       143.13            0.00       0.00
## 2660        1279.27       859.04            0.00       0.00
## 2663        5200.00       130.96            0.00       0.00
## 2667       20000.00       947.40            0.00       0.00
## 2672        4000.00       184.10            0.00       0.00
## 2677        5000.00       118.19            0.00       0.00
## 2690        5300.00       316.00            0.00       0.00
## 2695        3800.00        86.37            0.00       0.00
## 2702       10000.00       511.05            0.00       0.00
## 2710       20000.00       978.17            0.00       0.00
## 2738       16000.00       232.11            0.00       0.00
## 2742        6000.00       122.79            0.00       0.00
## 2745        7000.00       558.53            0.00       0.00
## 2773        9000.00       508.08            0.00       0.00
## 2787       35000.00        18.28            0.00       0.00
## 2792       15000.00       464.22            0.00       0.00
## 2803        9000.00       122.41            0.00       0.00
## 2813        8800.00       198.59            0.00       0.00
## 2817       20000.00       348.56            0.00       0.00
## 2819       16000.00       793.03            0.00       0.00
## 2832       10000.00        10.31            0.00       0.00
## 2857       10000.00       605.83            0.00       0.00
## 2860         239.19       191.79            0.00       0.00
## 2865       11200.00       480.51            0.00       0.00
## 2875         524.00       694.94            0.00       0.00
## 2880          29.18        19.15           15.00       0.00
## 2894       24000.00      2110.51            0.00       0.00
## 2899       10000.00       404.68            0.00       0.00
## 2912        2000.00       252.79            0.00       0.00
## 2927       12500.00        49.28            0.00       0.00
## 2933       36000.00        80.18            0.00       0.00
## 2947       24000.00        30.68            0.00       0.00
## 2951       16000.00      1421.41            0.00       0.00
## 2957       15000.00       402.94            0.00       0.00
## 2961       22000.00      1534.56            0.00       0.00
## 2968         236.68       144.68            0.00       0.00
## 2971       29000.00      1712.28            0.00       0.00
## 2995       19025.00       345.76            0.00       0.00
## 3032       20000.00       649.64            0.00       0.00
## 3036       24000.00       286.10            0.00       0.00
## 3040       27000.00      1661.05            0.00       0.00
## 3053        3000.00       294.25            0.00       0.00
## 3062        4000.00       283.21            0.00       0.00
## 3067       30000.00       775.71            0.00       0.00
## 3074        1000.00        59.17            0.00       0.00
## 3092       26000.00      2617.12            0.00       0.00
## 3102        1000.00        36.86            0.00       0.00
## 3119       40000.00       671.33            0.00       0.00
## 3123        5000.00        94.21            0.00       0.00
## 3134       12000.00        41.93            0.00       0.00
## 3141       17000.00      2269.90            0.00       0.00
## 3143       20000.00      1689.81            0.00       0.00
## 3173         179.81        62.43            0.00       0.00
## 3178       40000.00      1609.93            0.00       0.00
## 3186         216.68       128.03            0.00       0.00
## 3204        8000.00       635.15            0.00       0.00
## 3210       39900.00      1083.03            0.00       0.00
## 3211        3000.00       189.62            0.00       0.00
## 3218        2400.00       138.31            0.00       0.00
## 3230        5000.00         4.22            0.00       0.00
## 3251        4000.00        33.72            0.00       0.00
## 3262       10000.00       111.20            0.00       0.00
```

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## 3269        20000.00      1199.63            0.00       0.00
## 3271        29200.00      1402.18            0.00       0.00
## 3278        20000.00       581.09            0.00       0.00
## 3282         6500.00       298.89            0.00       0.00
## 3302        10200.00       521.15            0.00       0.00
## 3318         2000.00        46.23            0.00       0.00
## 3323        17175.00       685.08            0.00       0.00
## 3367          296.20       251.44            0.00       0.00
## 3376          620.58       932.51            0.00       0.00
## 3392        22225.00       729.73            0.00       0.00
## 3409        35000.00      2230.95            0.00       0.00
## 3416        13300.00      1314.21            0.00       0.00
## 3436        10000.00       456.56            0.00       0.00
## 3441         5000.00        80.46            0.00       0.00
## 3472        10000.00       188.15            0.00       0.00
## 3485         1167.88      2404.82          117.50       0.00
## 3492        10000.00       369.90            0.00       0.00
## 3494          715.18       346.83            0.00       0.00
## 3501         9000.00       711.38            0.00       0.00
## 3506        10000.00       253.07            0.00       0.00
## 3530        35000.00      1119.26            0.00       0.00
## 3565         1000.00        90.95            0.00       0.00
## 3577        18925.00       979.41            0.00       0.00
## 3613         2000.00       163.73            0.00       0.00
## 3617         8000.00       165.19            0.00       0.00
## 3639        40000.00      2389.15            0.00       0.00
## 3657        10000.00        39.55            0.00       0.00
## 3668        16000.00        11.22            0.00       0.00
## 3686         3000.00        17.56            0.00       0.00
## 3698        30000.00       445.55            0.00       0.00
## 3704        18000.00       582.18            0.00       0.00
## 3707        20000.00        12.62            0.00       0.00
## 3780        14000.00       702.06            0.00       0.00
## 3790        12000.00       319.61            0.00       0.00
## 3794        20000.00      1619.12           24.56       0.00
## 3796         3600.00        75.53            0.00       0.00
## 3822        40000.00      2181.20            0.00       0.00
## 3825        23500.00        55.88            0.00       0.00
## 3861        25000.00      1723.10            0.00       0.00
## 3887        20000.00       854.15           34.43       0.00
## 3921        24000.00        46.33            0.00       0.00
## 3922         3000.00        20.16            0.00       0.00
## 3926        25000.00      1475.55            0.00       0.00
## 3943         7000.00       415.37            0.00       0.00
## 3954        16000.00       989.02            0.00       0.00
## 3964         6000.00       144.50            0.00       0.00
## 3976        15275.00       547.89            0.00       0.00
## 3984        10000.00       804.03            0.00       0.00
## 4006          542.96       692.93            0.00       0.00
## 4010         6000.00       122.54            0.00       0.00
## 4028         6000.00       311.31            0.00       0.00
## 4043        40000.00        23.77            0.00       0.00
## 4045         7500.00        28.62            0.00       0.00
## 4053         3000.00        81.42            0.00       0.00
## 4055        20000.00      1770.03            0.00       0.00
## 4057          674.37       404.54            0.00       0.00
## 4098        26675.00      1988.77            0.00       0.00
## 4100         6000.00       525.11            0.00       0.00
## 4113        11500.00       374.16            0.00       0.00
## 4119        13000.00       713.22            0.00       0.00
## 4136         6000.00       215.05            0.00       0.00
## 4138        14000.00      1295.22            0.00       0.00
## 4150        16000.00      1054.21            0.00       0.00
## 4169        25000.00      1133.03            0.00       0.00
## 4173        19000.00       604.25            0.00       0.00
## 4193         8000.00       321.71            0.00       0.00
## 4198        20000.00      1016.04            0.00       0.00
## 4203        15000.00       577.93            0.00       0.00
## 4211        15000.00       966.57            0.00       0.00
## 4220         3000.00       133.85            0.00       0.00
## 4229        20000.00      2512.89            0.00       0.00
## 4247         2400.00       131.68            0.00       0.00
## 4273         7000.00       208.10            0.00       0.00
## 4274        35000.00       339.89            0.00       0.00
## 4284          301.13       560.53            0.00       0.00
## 4301        10000.00       236.27            0.00       0.00
## 4325         7500.00       569.22            0.00       0.00
## 4349         5275.00         1.20            0.00       0.00
## 4350        30000.00        11.97            0.00       0.00
## 4370         6000.00       207.62            0.00       0.00
## 4372        14000.00       885.18            0.00       0.00
## 4388        10900.00       754.16            0.00       0.00
## 4390        16000.00       795.61            0.00       0.00
## 4400         5500.00        77.47            0.00       0.00
## 4401        20000.00       929.07            0.00       0.00
## 4402          463.78      1334.79            0.00    4251.01
## 4418        20000.00       377.38            0.00       0.00
## 4421         6000.00        80.95            0.00       0.00
## 4431        10000.00       624.49            0.00       0.00
## 4440         5500.00        63.46            0.00       0.00
## 4458        10000.00       514.04            0.00       0.00
## 4461        10000.00      1017.19            0.00       0.00
## 4469         9500.00        47.24            0.00       0.00
## 4472         3500.00        13.39            0.00       0.00
## 4479        30000.00       355.98            0.00       0.00
## 4483         5000.00        68.54            0.00       0.00
## 4503        12000.00       192.20            0.00       0.00
## 4519        20000.00       730.35            0.00       0.00
```

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## 4522        10000.00         22.42              0.00       0.00
## 4525        15000.00        880.39              0.00       0.00
## 4528         1385.35        623.52              0.00       0.00
## 4538        20000.00        817.19              0.00       0.00
## 4548        35000.00       1790.20              0.00       0.00
## 4554        12000.00          7.02              0.00       0.00
## 4557        16000.00        560.88              0.00       0.00
## 4569         1000.00          8.62              0.00       0.00
## 4576        10000.00          5.48              0.00       0.00
## 4590         4000.00          4.56              0.00       0.00
## 4594        20000.00        670.48              0.00       0.00
## 4604        10000.00        820.63              0.00       0.00
## 4622          107.56        800.20             24.59       0.00
## 4626        10000.00        434.74              0.00       0.00
## 4629        10000.00        591.95              0.00       0.00
## 4633         4000.00        330.63              0.00       0.00
## 4646         2783.85       1593.53              0.00       0.00
## 4650        18000.00        263.67              0.00       0.00
## 4660        24000.00        663.37              0.00       0.00
## 4673          724.01        998.98              0.00       0.00
## 4684        10000.00        308.22              0.00       0.00
## 4699          240.89        184.70              0.00       0.00
## 4720         3025.00         27.79              0.00       0.00
## 4724        18000.00        658.27              0.00       0.00
## 4728         1300.00         67.26              0.00       0.00
## 4751          166.85         56.76              0.00       0.00
## 4778         6500.00        409.95              0.00       0.00
## 4812        35000.00          7.44              0.00       0.00
## 4820            0.00          0.00              0.00    2371.78
## 4835        20000.00       1417.49              0.00       0.00
## 4843        12000.00        399.48              0.00       0.00
## 4876          458.00        221.98              0.00       0.00
## 4882        25000.00        350.42              0.00       0.00
## 4895        35000.00       2405.15              0.00       0.00
## 4907          436.60        214.80              0.00       0.00
## 4912        10000.00        373.34              0.00       0.00
## 4941        30000.00        582.29              0.00       0.00
## 4952        20000.00        923.15              0.00       0.00
## 4954        15000.00         70.40              0.00       0.00
## 4956         4000.00         66.44              0.00       0.00
## 4957        24000.00        169.82              0.00       0.00
## 4959        18000.00        152.62              0.00       0.00
## 4960         2000.00         22.11              0.00       0.00
## 4987         9000.00        380.09              0.00       0.00
## 5022        12000.00       1907.81              0.00       0.00
## 5027        20000.00       2164.89              0.00       0.00
## 5029         7200.00         61.05              0.00       0.00
## 5053        18200.00        599.54              0.00       0.00
## 5054        10000.00        216.16              0.00       0.00
## 5055         3025.00         77.34              0.00       0.00
## 5066        40000.00         15.35              0.00       0.00
## 5069          239.31        209.11              0.00       0.00
## 5077        14000.00       1054.88             41.76       0.00
## 5091        15000.00        866.64              0.00       0.00
## 5110         4000.00        334.94              0.00       0.00
## 5114          712.51        287.86             16.38       0.00
## 5161        40000.00       3471.53              0.00       0.00
## 5215         1800.00         65.48              0.00       0.00
## 5216        25000.00          9.05              0.00       0.00
## 5219        20000.00       1590.43              0.00       0.00
## 5251        16000.00        585.17              0.00       0.00
## 5254        35000.00       3262.34              0.00       0.00
## 5258          508.82        591.50              0.00       0.00
## 5269        40000.00       2653.73              0.00       0.00
## 5277          194.45        125.65              0.00       0.00
## 5285         1155.97        484.34              0.00       0.00
## 5291         3093.29       1828.54              0.00       0.00
## 5292          667.62        362.35              0.00       0.00
## 5340         9500.00        367.33              0.00       0.00
## 5341        25000.00         15.12              0.00       0.00
## 5347         4550.00        487.60              0.00       0.00
## 5373         7200.00        131.37              0.00       0.00
## 5382        40000.00        621.10              0.00       0.00
## 5394         9000.00        642.99              0.00       0.00
## 5432         3000.00        107.45              0.00       0.00
## 5443        15000.00         85.09              0.00       0.00
## 5445        16000.00         23.26              0.00       0.00
## 5454        17500.00         93.14              0.00       0.00
## 5464        17600.00        334.27              0.00       0.00
## 5479        10000.00        450.28              0.00       0.00
## 5503        28000.00       2597.75              0.00       0.00
## 5514        10000.00        787.60              0.00       0.00
## 5517         4000.00        219.25              0.00       0.00
## 5545        25000.00        244.03              0.00       0.00
## 5549         1500.00         32.29              0.00       0.00
## 5558         5600.00        576.57              0.00       0.00
## 5569        10400.00        188.25              0.00       0.00
## 5590         6400.00        594.15              0.00       0.00
## 5592         5000.00        668.02              0.00       0.00
## 5608         5000.00        509.05              0.00       0.00
## 5609        20000.00        171.89              0.00       0.00
## 5611         3000.00        109.26              0.00       0.00
## 5624         3000.00        194.71              0.00       0.00
## 5651         2200.00         35.86              0.00       0.00
## 5673        22000.00        811.80              0.00       0.00
## 5692         8300.00        335.83              0.00       0.00
## 5694         3000.00         52.83              0.00       0.00
## 5716         8000.00        395.79              0.00       0.00
```

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## 5736        18000.00      1973.71            0.00       0.00
## 5745         4400.00        54.13            0.00       0.00
## 5777        14000.00      1672.35            0.00       0.00
## 5789        15550.00       354.71            0.00       0.00
## 5822        20000.00      1133.48            0.00       0.00
## 5831          168.20       399.70            0.00    1399.60
## 5843         4800.00       192.26            0.00       0.00
## 5863        20000.00       156.87            0.00       0.00
## 5865         1114.27       636.05            0.00       0.00
## 5868         3200.00       163.37            0.00       0.00
## 5870         2400.00       104.30            0.00       0.00
## 5882        10000.00        15.48            0.00       0.00
## 5883         5000.00       218.19            0.00       0.00
## 5888          649.83       455.18            0.00       0.00
## 5899         6200.00        42.14            0.00       0.00
## 5902        21000.00      2268.05            0.00       0.00
## 5903         1146.32      2121.34           82.60       0.00
## 5904        10800.00       823.74           18.47       0.00
## 5906         7000.00       184.34            0.00       0.00
## 5907        15000.00         3.36            0.00       0.00
## 5932         8000.00       420.88            0.00       0.00
## 5933          478.65       172.16            0.00       0.00
## 5940        19200.00       607.77            0.00       0.00
## 5942        17500.00       994.65            0.00       0.00
## 5946        15000.00      1180.96            0.00       0.00
## 5955        40000.00      1981.04            0.00       0.00
## 5967         5500.00       213.64            0.00       0.00
## 5973         1200.00        78.02            0.00       0.00
## 5989        10000.00       600.03            0.00       0.00
## 5999         5000.00       713.65            0.00       0.00
## 6004        15000.00       172.78            0.00       0.00
## 6024        20000.00       913.10            0.00       0.00
## 6037         2000.00       122.34            0.00       0.00
## 6038         1500.00        89.58            0.00       0.00
## 6041        13000.00      1696.95            0.00       0.00
## 6047         3600.00        97.34            0.00       0.00
## 6048         5000.00        31.82            0.00       0.00
## 6052         8000.00       230.49            0.00       0.00
## 6087        21000.00      1277.38            0.00       0.00
## 6102         1800.00        11.99            0.00       0.00
## 6132        15000.00       585.16            0.00       0.00
## 6139          697.24       293.96            0.00       0.00
## 6147        28975.00      1681.64            0.00       0.00
## 6154         2000.00        25.05            0.00       0.00
## 6155        30000.00      2511.29            0.00       0.00
## 6156        15000.00      1222.44            0.00       0.00
## 6181         1500.00        57.02            0.00       0.00
## 6186        15000.00        63.73            0.00       0.00
## 6214         4800.00       377.28            0.00       0.00
## 6217        12000.00       499.30            0.00       0.00
## 6228        14000.00       786.99            0.00       0.00
## 6232        22000.00      1422.75            0.00       0.00
## 6243        30000.00      3382.13            0.00       0.00
## 6248        26000.00       262.73            0.00       0.00
## 6270          310.02       231.09           15.00       0.00
## 6274        10000.00         9.62            0.00       0.00
## 6284        10000.00       688.47            0.00       0.00
## 6309        26400.00      1303.99            0.00       0.00
## 6310        18000.00      1185.93            0.00       0.00
## 6317         3000.00       263.94            0.00       0.00
## 6361         2500.00       109.66            0.00       0.00
## 6366         1500.00        83.07            0.00       0.00
## 6370          206.45       172.27            0.00       0.00
## 6393        25000.00       503.81            0.00       0.00
## 6429         6000.00       270.10            0.00       0.00
## 6448        12000.00       725.26            0.00       0.00
## 6469         1600.00       229.26            0.00       0.00
## 6481        16000.00      2295.80            0.00       0.00
## 6485         3157.54       959.08            0.00       0.00
## 6492         3275.00       274.17            0.00       0.00
## 6493        25200.00       276.61            0.00       0.00
## 6499         1000.38      3424.54          136.80       0.00
## 6500        11000.00       415.26            0.00       0.00
## 6510         5000.00        68.69            0.00       0.00
## 6522        17000.00         5.57            0.00       0.00
## 6528        35000.00      1903.40            0.00       0.00
## 6536         3500.00       238.10            0.00       0.00
## 6550        10000.00       547.40            0.00       0.00
## 6555         3000.00        33.42            0.00       0.00
## 6559        24000.00       103.29            0.00       0.00
## 6591        12000.00        80.05            0.00       0.00
## 6641         2893.41      2709.38            0.00       0.00
## 6644        21075.00      1384.37            0.00       0.00
## 6646         1923.31       672.66            0.00       0.00
## 6648        16000.00       843.47            0.00       0.00
## 6682         5000.00       196.34            0.00       0.00
## 6699         6000.00       667.60           15.00       0.00
## 6700         8000.00       365.96            0.00       0.00
## 6704        10000.00       761.60            0.00       0.00
## 6716        10000.00       940.83            0.00       0.00
## 6719        21000.00      1140.42            0.00       0.00
## 6724         4000.00         8.97            0.00       0.00
## 6737        10000.00       753.96            0.00       0.00
## 6795          541.72       280.69            0.00       0.00
## 6813        10000.00       832.56            0.00       0.00
## 6826        20000.00        50.74            0.00       0.00
## 6842         5000.00       447.37            0.00       0.00
## 6852        10000.00       443.22            0.00       0.00
```

```
## 6856        6600.00       257.28              0.00       0.00
## 6866       32000.00      1804.37              0.00       0.00
## 6875       15000.00       673.76              0.00       0.00
## 6901        6500.00         3.34              0.00       0.00
## 6944       40000.00      1652.43              0.00       0.00
## 6952         534.29       298.96              0.00       0.00
## 6968       10500.00       187.54              0.00       0.00
## 6980        9000.00      1240.21              0.00       0.00
## 6991       11200.00      1237.58              0.00       0.00
## 6992       12000.00       718.73              0.00       0.00
## 7041       30000.00      1116.06              0.00       0.00
## 7046        5500.00        20.50              0.00       0.00
## 7055       27000.00      1229.33              0.00       0.00
## 7070       20000.00       179.88              0.00       0.00
## 7078       10000.00       430.74              0.00       0.00
## 7083        1106.16       506.49              0.00       0.00
## 7092       12300.00      1142.05              0.00       0.00
## 7093       10000.00       672.21              0.00       0.00
## 7113        6400.00         4.07              0.00       0.00
## 7128       10000.00       416.17              0.00       0.00
## 7140         765.25       586.63              0.00       0.00
## 7154       40000.00      1513.52              0.00       0.00
## 7157       10000.00       594.85              0.00       0.00
## 7170        8650.00      1235.74              0.00       0.00
## 7175        4000.00         4.97              0.00       0.00
## 7181        5000.00       776.77              0.00       0.00
## 7194       10000.00       407.30              0.00       0.00
## 7200        8000.00       547.83              0.00       0.00
## 7205       10000.00       348.01              0.00       0.00
## 7209        2046.62       383.88              0.00       0.00
## 7210        9000.00       258.69              0.00       0.00
## 7211       29275.00      1365.20              0.00       0.00
## 7212        1869.06       797.45              0.00       0.00
## 7246       12000.00       578.87              0.00       0.00
## 7248        2000.00         0.00              0.00       0.00
## 7260       10000.00       936.47              0.00       0.00
## 7264        8000.00       154.85              0.00       0.00
## 7277        3800.00        38.75              0.00       0.00
## 7283       12000.00       241.74              0.00       0.00
## 7286         889.24       508.35              0.00       0.00
## 7300        7000.00       480.90              0.00       0.00
## 7332        5000.00       165.48              0.00       0.00
## 7348        2000.00       133.63              0.00       0.00
## 7350        5000.00       219.78              0.00       0.00
## 7356        3500.00        86.55              0.00       0.00
## 7367        2875.00       186.92              0.00       0.00
## 7368        3000.00        72.76              0.00       0.00
## 7369        7000.00       462.39              0.00       0.00
## 7370        1600.00        84.41              0.00       0.00
## 7376       11000.00       295.27              0.00       0.00
## 7379        9000.00       645.25              0.00       0.00
## 7388        8000.00       668.47              0.00       0.00
## 7395         214.85       134.32              0.00       0.00
## 7398       10000.00         9.67              0.00       0.00
## 7457         365.15       954.39              0.00     445.00
## 7471       35000.00      5423.84              0.00       0.00
## 7482        6000.00       231.02              0.00       0.00
## 7507        7000.00       529.40              0.00       0.00
## 7514        6000.00       318.40              0.00       0.00
## 7519         248.17       634.06              0.00       0.00
## 7525        6500.00       405.11              0.00       0.00
## 7527       10000.00       458.59              0.00       0.00
## 7537        5000.00         1.59              0.00       0.00
## 7542       25000.00         9.57              0.00       0.00
## 7561        5000.00       382.88              0.00       0.00
## 7569       35000.00       826.86              0.00       0.00
## 7576       11000.00       943.39              0.00       0.00
## 7639       20000.00       708.75              0.00       0.00
## 7640       30000.00      2476.87              0.00       0.00
## 7650       12000.00       861.07              0.00       0.00
## 7652       10000.00        95.29              0.00       0.00
## 7672        1000.00         2.06              0.00       0.00
## 7673        1504.14      1335.29              0.00       0.00
## 7674       14625.00       555.24              0.00       0.00
## 7681        4000.00       384.19              0.00       0.00
## 7683        5500.00       412.35              0.00       0.00
## 7685       27500.00        21.70              0.00       0.00
## 7702       10000.00      1178.00              0.00       0.00
## 7716        7800.00       686.93              0.00       0.00
## 7717       10000.00         2.50              0.00       0.00
## 7721        2000.00        40.04              0.00       0.00
## 7726       25000.00      2718.35              0.00       0.00
## 7760       20000.00      3169.45              0.00       0.00
## 7766       10000.00       306.24              0.00       0.00
## 7793       15000.00       739.60              0.00       0.00
## 7802        8000.00       507.58              0.00       0.00
## 7826       10000.00       382.89              0.00       0.00
## 7846       10000.00         3.01              0.00       0.00
## 7866       30000.00      3052.04              0.00       0.00
## 7883       10000.00       290.78              0.00       0.00
## 7885       13000.00       220.18              0.00       0.00
## 7911       15000.00       441.67              0.00       0.00
## 7917       16000.00      1850.25              0.00       0.00
## 7919         454.28       232.74              0.00       0.00
## 7922        3000.00       125.09              0.00       0.00
## 7928        2151.68       429.79              0.00       0.00
## 7939        3600.00       170.74              0.00       0.00
## 7941       10000.00        44.10              0.00       0.00
```

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## 7947          205.28        287.00              0.00    2813.69
## 7955         8000.00        440.52              0.00       0.00
## 7968         8800.00        343.22              0.00       0.00
## 7969         2923.54        929.56              0.00       0.00
## 7974        12000.00        225.35              0.00       0.00
## 7982         1499.80       1152.38              0.00       0.00
## 7995        10800.00       1287.03              0.00       0.00
## 8000         6000.00        911.82              0.00       0.00
## 8005        20000.00       3070.31              0.00       0.00
## 8007        13200.00        103.23              0.00       0.00
## 8019         8000.00         66.86              0.00       0.00
## 8021        10000.00        615.24              0.00       0.00
## 8039        24000.00         21.53              0.00       0.00
## 8055        10200.00        848.45              0.00       0.00
## 8061        21000.00        819.71              0.00       0.00
## 8066         8000.00        355.99              0.00       0.00
## 8093         8000.00        429.70              0.00       0.00
## 8095        30000.00        837.17              0.00       0.00
## 8100          982.49       1504.18              0.00       0.00
## 8142         3000.00        372.28              0.00       0.00
## 8149         6000.00        363.63              0.00       0.00
## 8152         7000.00        419.92              0.00       0.00
## 8156         5000.00        310.92              0.00       0.00
## 8165        15000.00       1381.53              0.00       0.00
## 8201        12000.00        924.89              0.00       0.00
## 8203         6000.00        491.17              0.00       0.00
## 8209         1500.00         79.56              0.00       0.00
## 8224         2355.21       1257.49              0.00       0.00
## 8246        38000.00       1637.31              0.00       0.00
## 8256         2500.00          5.30              0.00       0.00
## 8267           30.56         22.09              0.00     233.43
## 8272         6000.00        216.35              0.00       0.00
## 8284         1983.46        778.96              0.00       0.00
## 8295        14000.00        751.26              0.00       0.00
## 8316         1521.05       1366.83              0.00       0.00
## 8336         7500.00        411.58              0.00       0.00
## 8355         6400.00        227.18              0.00       0.00
## 8360        28000.00        593.29              0.00       0.00
## 8364        13500.00        234.55              0.00       0.00
## 8379        15500.00        372.79              0.00       0.00
## 8391         1861.11       1293.28              0.00       0.00
## 8392          413.71        302.09              0.00      75.00
## 8396         6000.00        102.31              0.00       0.00
## 8437        17000.00         17.82              0.00       0.00
## 8459        10400.00         18.16              0.00       0.00
## 8462         9300.00        495.51              0.00       0.00
## 8477         5200.00          8.47              0.00       0.00
## 8482        26500.00       3519.72              0.00       0.00
## 8490         1285.21        508.97              0.00       0.00
## 8491         4000.00        368.94              0.00       0.00
## 8496         2006.49       1986.53              0.00       0.00
## 8498        12000.00        175.08              0.00       0.00
## 8516        32000.00       1097.97              0.00       0.00
## 8518         5000.00         39.61              0.00       0.00
## 8522         5000.00        135.04              0.00       0.00
## 8526        40000.00       1032.18              0.00       0.00
## 8529         8000.00        232.95              0.00       0.00
## 8537         6000.00        177.18              0.00       0.00
## 8552         6000.00         11.65              0.00       0.00
## 8585         6000.00        119.03              0.00       0.00
## 8602         1378.98       3062.25              0.00       0.00
## 8627         6000.00        305.22              0.00       0.00
## 8647         5800.00        209.65              0.00       0.00
## 8674        11000.00        183.73              0.00       0.00
## 8709          773.85        866.53              0.00    4691.62
## 8711         4100.00        505.59              0.00       0.00
## 8712         3716.21       2258.48              0.00       0.00
## 8721         6500.00        516.57              0.00       0.00
## 8735         1103.29       1221.79             29.50       0.00
## 8767        10000.00        618.85              0.00       0.00
## 8783         1248.26       1849.28              0.00       0.00
## 8795        12000.00        447.65              0.00       0.00
## 8804         2404.10        840.83              0.00       0.00
## 8824            0.00          0.00              0.00     803.89
## 8835         7000.00        220.61              0.00       0.00
## 8862        12000.00        861.01              0.00       0.00
## 8864         1123.71       1478.45              0.00       0.00
## 8890        20000.00       2119.72              0.00       0.00
## 8895        16000.00        574.14              0.00       0.00
## 8906         4058.37        845.88              0.00       0.00
## 8944        15000.00        630.05              0.00       0.00
## 8946        25825.00       2635.58              0.00       0.00
## 8953        15000.00       2658.20              0.00       0.00
## 8963         3601.56       2344.52              0.00       0.00
## 8966        12000.00         22.36              0.00       0.00
## 8977        40000.00        864.94              0.00       0.00
## 9042         2127.76       1011.14              0.00       0.00
## 9047         9600.00        782.80              0.00       0.00
## 9048        10000.00        603.33              0.00       0.00
## 9056        19000.00         47.76              0.00       0.00
## 9057         5450.00        291.72              0.00       0.00
## 9058        40000.00       2020.47              0.00       0.00
## 9083         6000.00        355.55              0.00       0.00
## 9091        25000.00       2411.70              0.00       0.00
## 9096         6000.00        113.44              0.00       0.00
## 9098        10200.00        381.68              0.00       0.00
## 9101          690.00       1270.59              0.00       0.00
## 9103         5000.00        143.77              0.00       0.00
```

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## 9140          7000.00        279.74               0.00       0.00
## 9154         25000.00        847.22               0.00       0.00
## 9160         20000.00       1414.58               0.00       0.00
## 9163         12000.00          3.06               0.00       0.00
## 9202         10000.00        821.83               0.00       0.00
## 9240          4000.00          1.15               0.00       0.00
## 9243         25000.00        856.95               0.00       0.00
## 9245          5000.00         24.52               0.00       0.00
## 9254         12000.00       1058.05               0.00       0.00
## 9286          6000.00        181.66               0.00       0.00
## 9294         12000.00         23.16               0.00       0.00
## 9321         20000.00        241.31               0.00       0.00
## 9336          2150.00         68.78               0.00       0.00
## 9380         35000.00       2272.94               0.00       0.00
## 9383          1475.27       1124.27               0.00       0.00
## 9388          6000.00        402.83               0.00       0.00
## 9413         10000.00        530.88               0.00       0.00
## 9431          7000.00        165.86               0.00       0.00
## 9432          5000.00          2.71               0.00       0.00
## 9444          5000.00        737.66               0.00       0.00
## 9459         25000.00        124.79               0.00       0.00
## 9464         40000.00       3694.43               0.00       0.00
## 9474         10000.00        578.79               0.00       0.00
## 9481         35000.00       2700.14               0.00       0.00
## 9497         21000.00          9.08               0.00       0.00
## 9499         20000.00       2086.78               0.00       0.00
## 9503          7400.00         67.04               0.00       0.00
## 9506         30000.00       3114.28               0.00       0.00
## 9509         40000.00        884.00               0.00       0.00
## 9522         15000.00         18.35               0.00       0.00
## 9546         40000.00       2805.06               0.00       0.00
## 9559         10000.00        968.72               0.00       0.00
## 9573         12000.00        965.51               0.00       0.00
## 9610         25000.00       1961.60               0.00       0.00
## 9614         10000.00        485.42               0.00       0.00
## 9627          6000.00        396.51               0.00       0.00
## 9628           348.70        348.92               0.00       0.00
## 9629         20000.00       1203.93               0.00       0.00
## 9652         13000.00       2156.16               0.00       0.00
## 9677         11000.00       1269.06               0.00       0.00
## 9681          3025.00        105.07               0.00       0.00
## 9690          2919.86        878.26               0.00       0.00
## 9697          1112.99        895.85               0.00       0.00
## 9701         12000.00       1002.46               0.00       0.00
## 9705           521.67        495.20              15.00       0.00
## 9714         22400.00       1363.37               0.00       0.00
## 9718          2406.59       1351.93               0.00       0.00
## 9722          4500.00        233.93               0.00       0.00
## 9748         20000.00       1458.03               0.00       0.00
## 9751         10700.00       1330.54               0.00       0.00
## 9753         10000.00        678.13               0.00       0.00
## 9773             0.00          0.00               0.00       0.00
## 9783         20000.00       2783.47               0.00       0.00
## 9786          5000.00        204.48               0.00       0.00
## 9796           603.75        509.83               0.00       0.00
## 9811          7600.00        335.57               0.00       0.00
## 9816         22000.00       1624.88               0.00       0.00
## 9817          1651.44       1378.19               0.00       0.00
## 9820         25000.00        510.57               0.00       0.00
## 9834          6000.00        126.88               0.00       0.00
## 9843          4800.00         82.23               0.00       0.00
## 9872         16000.00        444.44               0.00       0.00
## 9882         10000.00        297.25               0.00       0.00
## 9898         11500.00        756.20               0.00       0.00
## 9904          3928.99       2588.42               0.00       0.00
## 9924           255.96        205.95               0.00       0.00
## 9943         40000.00       3616.45               0.00       0.00
## 9945         16000.00       1220.97               0.00       0.00
## 9983           126.03        164.95              15.00     400.00
## 9988         20000.00        329.05               0.00       0.00
## 10024        30000.00       4938.56               0.00       0.00
## 10033          163.66         86.72               0.00    1006.40
## 10058          348.79        217.65               0.00       0.00
## 10062         3600.00         96.15               0.00       0.00
## 10078         6000.00        337.31               0.00       0.00
## 10088        10000.00        431.96               0.00       0.00
## 10096         1000.00        103.12               0.00       0.00
## 10110        20000.00       1918.68               0.00       0.00
## 10166         5700.00         29.66               0.00       0.00
## 10167        22750.00        477.76               0.00       0.00
## 10192          723.28       1120.19               0.00       0.00
## 10195         5000.00        348.69               0.00       0.00
##       collection_recovery_fee last_pymnt_d last_pymnt_amnt next_pymnt_d
## 4                      0.0000     Feb-2019         1024.60
## 7                      0.0000     Feb-2019        29300.07
## 9                      0.0000     Jan-2019        10158.70
## 14                     0.0000     Feb-2019         4860.55
## 23                     0.0000     Jan-2019         5033.19
## 34                     0.0000     Jan-2019        13554.57
## 40                     0.0000     Jan-2019         1010.98
## 49                     0.0000     Dec-2018        32565.51
## 50                     0.0000     Jan-2019        28482.42
## 51                     0.0000     Dec-2018        30099.43
## 68                     0.0000     Dec-2018         5588.25
## 82                     0.0000     Jan-2019         7085.75
## 115                    0.0000     Jan-2019         7254.24
## 140                    0.0000     Dec-2018        30113.32
## 158                    0.0000     Dec-2018        36140.57
```

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## 162                    0.0000     Jan-2019         3055.19
## 167                    0.0000     Jan-2019        13294.20
## 182                    0.0000     Feb-2019         1588.10
## 186                    0.0000     Dec-2018        32122.78
## 200                    0.0000     Jan-2019        12789.05
## 239                    0.0000     Dec-2018        11020.64
## 249                    0.0000     Jan-2019         7139.42
## 261                    0.0000     Jan-2019         1030.97
## 273                    0.0000     Jan-2019        14712.77
## 276                    0.0000     Dec-2018         2002.75
## 345                    0.0000     Feb-2019         3382.73
## 369                    0.0000     Nov-2018        17527.62
## 379                    0.0000     Dec-2018         5550.66
## 389                    0.0000     Nov-2018        10028.20
## 395                    0.0000     Dec-2018         7084.82
## 403                    0.0000     Jan-2019         6292.46
## 408                    0.0000     Feb-2019         1435.68
## 411                    0.0000     Jan-2019        36685.69
## 426                    0.0000     Jan-2019        30254.00
## 438                    0.0000     Nov-2018        10022.35
## 441                    0.0000     Dec-2018         6392.81
## 443                    0.0000     Jan-2019         6984.67
## 468                    0.0000     Nov-2018         3511.01
## 469                    0.0000     Jan-2019        26199.46
## 480                    0.0000     Dec-2018         5079.65
## 482                    0.0000     Nov-2018        10108.39
## 483                    0.0000     Jan-2019        12056.38
## 513                    0.0000     Dec-2018        10193.89
## 566                    0.0000     Nov-2018        11051.49
## 569                    0.0000     Dec-2018        11179.07
## 587                    0.0000     Dec-2018        10133.20
## 597                    0.0000     Feb-2019         9565.88
## 605                    0.0000     Nov-2018        12022.98
## 627                    0.0000     Dec-2018        18241.95
## 644                    0.0000     Nov-2018         2403.38
## 677                    0.0000     Jan-2019         2161.42
## 687                    0.0000     Oct-2018         7509.31
## 708                    0.0000     Jan-2019         2427.89
## 718                    0.0000     Nov-2018         9814.70
## 721                    0.0000     Jan-2019         9702.99
## 743                    0.0000     Dec-2018        32515.09
## 744                    0.0000     Oct-2018        20057.33
## 745                    0.0000     Nov-2018        18098.21
## 758                    0.0000     Feb-2019           44.75
## 777                    0.0000     Nov-2018        20387.22
## 802                    0.0000     Dec-2018        36132.93
## 818                    0.0000     Feb-2019         9421.90
## 832                    0.0000     Dec-2018         9975.59
## 856                    0.0000     Nov-2018        12226.73
## 857                    0.0000     Feb-2019        38824.72
## 858                    0.0000     Feb-2019            2.38
## 882                    0.0000     Dec-2018           82.11
## 883                    0.0000     Feb-2019         2786.79
## 889                    0.0000     Oct-2018        30684.66
## 903                    0.0000     Oct-2018        20023.34
## 907                    0.0000     Dec-2018         5932.43
## 915                    0.0000     Oct-2018         9049.80
## 920                    0.0000     Nov-2018        10270.19
## 939                    0.0000     Jan-2019         1584.71
## 954                    0.0000     Feb-2019        25940.35
## 969                    0.0000     Dec-2018        12087.46
## 1002                   0.0000     Feb-2019           27.76
## 1015                   0.0000     Oct-2018        28133.52
## 1024                   0.0000     Jan-2019        24159.29
## 1029                   0.0000     Nov-2018         5047.58
## 1031                   0.0000     Nov-2018          248.05
## 1053                   0.0000     Jan-2019        30246.45
## 1057                   0.0000     Dec-2018        14519.08
## 1080                   0.0000     Jan-2019        26899.16
## 1108                   0.0000     Oct-2018         8166.71
## 1109                   0.0000     Jan-2019         7505.48
## 1110                   0.0000     Jan-2019         8016.24
## 1112                   0.0000     Jan-2019        15348.26
## 1115                   0.0000     Nov-2018         8497.10
## 1121                   0.0000     Jan-2019        33223.62
## 1122                   0.0000     Oct-2018         5642.05
## 1139                   0.0000     Oct-2018         1616.71
## 1163                   0.0000     Oct-2018        18038.35
## 1181                   0.0000     Nov-2018        24943.46
## 1187                   0.0000     Oct-2018        15026.13
## 1194                   0.0000     Jan-2019         2413.79
## 1197                   0.0000     Feb-2019          112.71
## 1209                   0.0000     Oct-2018        30524.01
## 1224                   0.0000     Dec-2018         9575.96
## 1257                   0.0000     Feb-2019         7637.02
## 1262                   0.0000     Sep-2018        10019.15
## 1275                   0.0000     Nov-2018        18096.75
## 1336                   0.0000     Dec-2018        31671.35
## 1343                   0.0000     Sep-2018        20020.51
## 1346                   0.0000     Sep-2018        20044.73
## 1347                   0.0000     Nov-2018         9019.53
## 1379                   0.0000     Jan-2019        38042.62
## 1418                   0.0000     Oct-2018         4050.21
## 1425                   0.0000     Nov-2018        29921.01
## 1450                   0.0000     Dec-2018         6716.42
## 1451                   0.0000     Nov-2018         2963.89
## 1452                   0.0000     Dec-2018        28757.71
## 1465                   0.0000     Jan-2019        39457.58
```

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## 1468                    0.0000     Jan-2019        24760.96
## 1478                    0.0000     Feb-2019        25538.95
## 1479                    0.0000     Sep-2018        35115.16
## 1500                    0.0000     Jan-2019         3785.43
## 1509                    0.0000                         0.00
## 1524                    0.0000     Dec-2018        16002.62
## 1533                    0.0000     Feb-2019         5049.51
## 1534                    0.0000     Feb-2019        23528.29
## 1537                    0.0000     Nov-2018           75.24
## 1548                    0.0000     Nov-2018        10263.62
## 1566                    0.0000     Jan-2019           47.63
## 1575                    0.0000     Dec-2018           60.21
## 1620                    0.0000     Oct-2018         5080.71
## 1632                    0.0000     Jan-2019         1472.34
## 1661                    0.0000     Feb-2019        23367.95
## 1666                    0.0000     Sep-2018        12034.83
## 1679                    0.0000     Jan-2019         1858.81
## 1686                    0.0000     Feb-2019        29363.50
## 1688                    0.0000     Nov-2018         3609.63
## 1726                    0.0000     Sep-2018        10042.27
## 1738                    0.0000     Oct-2018        11452.52
## 1744                    0.0000     Jan-2019         2803.43
## 1750                    0.0000     Sep-2018        10021.15
## 1754                    0.0000     Jan-2019         5239.13
## 1762                    0.0000     Jan-2019         2481.14
## 1809                    0.0000     Sep-2018         4011.82
## 1811                    0.0000     Nov-2018         9824.54
## 1819                    0.0000     Sep-2018         5048.97
## 1880                    0.0000     Sep-2018          634.79
## 1881                    0.0000     Aug-2018        10024.84
## 1894                    0.0000     Jan-2019         7613.50
## 1900                    0.0000     Feb-2019         4409.67
## 1915                    0.0000     Aug-2018        10016.47
## 1919                    0.0000     Sep-2018         8558.95
## 1942                    0.0000     Oct-2018          802.76
## 1943                    0.0000     Jan-2019        17210.92
## 1958                    0.0000     Sep-2018        10157.18
## 1991                    0.0000     Sep-2018        15102.59
## 1994                    0.0000     Jan-2019           50.00
## 1997                    0.0000     Nov-2018          116.61
## 2001                    0.0000     Oct-2018        23995.06
## 2013                    0.0000     Nov-2018        10910.25
## 2015                    0.0000     Dec-2018         1333.46
## 2018                    0.0000     Sep-2018        25168.78
## 2050                    0.0000     Oct-2018         6901.25
## 2074                    0.0000     Nov-2018           89.06
## 2077                    0.0000     Sep-2018         7151.85
## 2092                    0.0000     Sep-2018          402.89
## 2161                    0.0000     Feb-2019        13696.49
## 2165                    0.0000                         0.00
## 2170                    0.0000     Oct-2018         4826.79
## 2171                    0.0000     Jan-2019        12645.46
## 2172                    0.0000     Dec-2018        14036.72
## 2192                    0.0000     Feb-2019           70.35
## 2194                    0.0000     Aug-2018        30091.37
## 2196                    0.0000     Sep-2018         1829.06
## 2248                    0.0000     Sep-2018         5128.65
## 2253                    0.0000     Jan-2019         1003.13
## 2254                    0.0000     Sep-2018        10762.63
## 2257                    0.0000     Jan-2019           58.08
## 2263                    0.0000     Dec-2018           58.63
## 2277                    0.0000     Feb-2019         7068.27
## 2289                    0.0000     Aug-2018         5010.10
## 2303                    0.0000     Nov-2018        11029.29
## 2312                    0.0000     Oct-2018           31.44
## 2318                    0.0000     Aug-2018        12015.80
## 2320                    0.0000     Oct-2018           95.15
## 2326                    0.0000     Dec-2018         6539.42
## 2328                    0.0000     Feb-2019         4410.50
## 2341                    0.0000     Sep-2018          533.67
## 2348                    0.0000     Sep-2018         7657.01
## 2370                    0.0000     Oct-2018         6929.24
## 2376                    0.0000     Sep-2018        10362.74
## 2382                    0.0000     Aug-2018         8007.56
## 2385                    0.0000     Sep-2018         2839.77
## 2406                    0.0000     Jan-2019        11916.58
## 2409                    0.0000     Feb-2019         3768.91
## 2421                    0.0000     Jan-2019        12102.32
## 2456                    0.0000     Oct-2018         1494.97
## 2462                    0.0000     Jan-2019         9374.84
## 2476                    0.0000     Oct-2018        24525.80
## 2481                    0.0000     Nov-2018         7315.03
## 2488                    0.0000     Oct-2018        15229.75
## 2496                    0.0000     Feb-2019          319.50
## 2520                    0.0000     Nov-2018        19609.93
## 2531                    0.0000     Sep-2018        15133.44
## 2541                    0.0000     Aug-2018        17511.88
## 2544                    0.0000     Nov-2018        10580.22
## 2563                    0.0000     Jan-2019        14514.18
## 2568                    0.0000     Oct-2018          356.08
## 2580                    0.0000     Jan-2019        19392.39
## 2599                    0.0000     Oct-2018        13235.18
## 2600                    0.0000     Jan-2019          600.00
## 2602                    0.0000     Nov-2018        23972.23
## 2605                    0.0000     Aug-2018        11315.74
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## 2620                    0.0000     Aug-2018        20036.65
## 2623                    0.0000     Aug-2018        12084.00
```

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## 2651                    0.0000     Oct-2018          710.86
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## 2659                    0.0000     Aug-2018         7149.41
## 2660                    0.0000     Sep-2018         1084.13
## 2663                    0.0000     Sep-2018         5158.26
## 2667                    0.0000     Dec-2018        19552.70
## 2672                    0.0000     Nov-2018         3784.15
## 2677                    0.0000     Sep-2018         4953.90
## 2690                    0.0000     Jan-2019         4889.73
## 2695                    0.0000     Nov-2018           21.11
## 2702                    0.0000     Nov-2018         9499.63
## 2710                    0.0000     Nov-2018        19962.89
## 2738                    0.0000     Aug-2018        16250.68
## 2742                    0.0000     Jan-2019          179.11
## 2745                    0.0000     Jan-2019         6318.81
## 2773                    0.0000     Jan-2019          311.17
## 2787                    0.0000     Jul-2018        35046.42
## 2792                    0.0000     Dec-2018        13621.91
## 2803                    0.0000     Sep-2018           18.84
## 2813                    0.0000     Nov-2018         8200.08
## 2817                    0.0000     Aug-2018        20374.23
## 2819                    0.0000     Dec-2018        10586.44
## 2832                    0.0000     Jul-2018        10028.24
## 2857                    0.0000     Dec-2018         9245.63
## 2860                    0.0000     Sep-2018          215.64
## 2865                    0.0000     Jan-2019         9933.62
## 2875                    0.0000     Sep-2018          634.43
## 2880                    0.0000     Sep-2018           66.28
## 2894                    0.0000     Oct-2018        24592.76
## 2899                    0.0000     Oct-2018         9825.79
## 2912                    0.0000     Jan-2019         1851.11
## 2927                    0.0000     Aug-2018        12558.12
## 2933                    0.0000     Aug-2018        36094.60
## 2947                    0.0000     Jul-2018        24049.97
## 2951                    0.0000     Jan-2019        15484.31
## 2957                    0.0000     Sep-2018        15068.62
## 2961                    0.0000     Jan-2019          207.55
## 2968                    0.0000     Aug-2018          391.69
## 2971                    0.0000     Jan-2019        26839.35
## 2995                    0.0000     Sep-2018        18973.19
## 3032                    0.0000     Aug-2018        20679.94
## 3036                    0.0000     Dec-2018         1622.27
## 3040                    0.0000     Jan-2019        25705.97
## 3053                    0.0000     Jan-2019         2751.16
## 3062                    0.0000     Nov-2018         3634.32
## 3067                    0.0000     Nov-2018        27988.20
## 3074                    0.0000     Nov-2018          952.75
## 3092                    0.0000     Jan-2019        25168.57
## 3102                    0.0000     Aug-2018         1039.83
## 3119                    0.0000     Nov-2018        28968.89
## 3123                    0.0000     Aug-2018         5104.19
## 3134                    0.0000     Jul-2018        12065.89
## 3141                    0.0000     Feb-2019        16453.49
## 3143                    0.0000     Feb-2019        16284.36
## 3173                    0.0000     Oct-2018           81.23
## 3178                    0.0000     Feb-2019        36849.83
## 3186                    0.0000     Aug-2018          353.85
## 3204                    0.0000     Jan-2019         7254.78
## 3210                    0.0000     Oct-2018        35909.39
## 3211                    0.0000     Dec-2018         2774.11
## 3218                    0.0000     Jan-2019         2137.69
## 3230                    0.0000     Jul-2018         5010.73
## 3251                    0.0000     Aug-2018         4035.46
## 3262                    0.0000     Aug-2018        10116.80
## 3269                    0.0000     Dec-2018        19334.67
## 3271                    0.0000     Dec-2018          206.25
## 3278                    0.0000     Nov-2018        18690.63
## 3282                    0.0000     Dec-2018         5949.23
## 3302                    0.0000     Dec-2018         9361.66
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## 3376                    0.0000     Sep-2018          830.04
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## 3416                    0.0000     Nov-2018          338.94
## 3436                    0.0000     Dec-2018         9164.12
## 3441                    0.0000     Aug-2018         5086.28
## 3472                    0.0000     Sep-2018         9881.14
## 3485                    0.0000     Feb-2019         1150.00
## 3492                    0.0000     Oct-2018         9684.69
## 3494                    0.0000     Sep-2018          540.24
## 3501                    0.0000     Jan-2019         7884.36
## 3506                    0.0000     Sep-2018         9917.51
## 3530                    0.0000     Feb-2019        31548.66
## 3565                    0.0000     Nov-2018          942.60
## 3577                    0.0000     Nov-2018        17980.11
## 3613                    0.0000     Dec-2018         1870.93
## 3617                    0.0000     Oct-2018          796.31
## 3639                    0.0000     Jan-2019        34550.71
## 3657                    0.0000     Jul-2018        10042.99
## 3668                    0.0000     Jul-2018        16028.48
## 3686                    0.0000     Jul-2018         3019.16
## 3698                    0.0000     Jul-2018        30476.30
## 3704                    0.0000     Oct-2018         8157.58
## 3707                    0.0000     Jul-2018        20051.44
## 3780                    0.0000     Dec-2018          127.48
## 3790                    0.0000     Aug-2018        12068.05
```

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## 3794          0.0000     Jan-2019        19199.35
## 3796          0.0000     Oct-2018         3448.01
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## 3825          0.0000     Oct-2018          212.51
## 3861          0.0000     Nov-2018        24389.39
## 3887          0.0000     Nov-2018            3.76
## 3921          0.0000     Jun-2018        24075.46
## 3922          0.0000     Jul-2018         3021.51
## 3926          0.0000     Sep-2018        25219.21
## 3943          0.0000     Jan-2019         5953.16
## 3954          0.0000     Oct-2018        15848.48
## 3964          0.0000     Oct-2018         5592.38
## 3976          0.0000     Nov-2018        13912.83
## 3984          0.0000     Feb-2019         8450.68
## 4006          0.0000     Nov-2018          251.06
## 4010          0.0000     Nov-2018         1793.97
## 4028          0.0000     Dec-2018         5339.58
## 4043          0.0000     Jun-2018        40060.35
## 4045          0.0000     Jul-2018         7535.35
## 4053          0.0000     Aug-2018         2983.52
## 4055          0.0000     Dec-2018        19298.25
## 4057          0.0000     Sep-2018          344.52
## 4098          0.0000     Dec-2018        25545.79
## 4100          0.0000     Nov-2018         5646.70
## 4113          0.0000     Sep-2018        11132.69
## 4119          0.0000     Dec-2018        12306.30
## 4136          0.0000     Aug-2018         6008.23
## 4138          0.0000     Dec-2018        12763.07
## 4150          0.0000     Nov-2018        14863.52
## 4169          0.0000     Nov-2018        23555.37
## 4173          0.0000     Aug-2018        19145.67
## 4193          0.0000     Jan-2019         2286.55
## 4198          0.0000     Nov-2018        18407.32
## 4203          0.0000     Sep-2018        14905.29
## 4211          0.0000     Jan-2019        13460.71
## 4220          0.0000     Aug-2018         3027.79
## 4229          0.0000     Jan-2019        17963.61
## 4247          0.0000     Oct-2018         2285.37
## 4273          0.0000     Oct-2018         6552.38
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## 4284          0.0000     Aug-2018          440.54
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## 4325          0.0000     Jan-2019         6557.08
## 4349          0.0000     Jun-2018         5280.20
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## 4388          0.0000     Oct-2018        10880.05
## 4390          0.0000     Sep-2018        16023.27
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## 4401          0.0000     Dec-2018          116.77
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## 4418          0.0000     Jul-2018        20393.51
## 4421          0.0000     Aug-2018         5895.40
## 4431          0.0000     Oct-2018         9569.47
## 4440          0.0000     Jul-2018         5565.93
## 4458          0.0000     Oct-2018         9475.47
## 4461          0.0000     Jan-2019         8846.34
## 4469          0.0000     Jul-2018         9551.18
## 4472          0.0000     Oct-2018          174.88
## 4479          0.0000     Jul-2018        30371.95
## 4483          0.0000     Aug-2018         2244.83
## 4503          0.0000     Jul-2018        12200.29
## 4519          0.0000     Jul-2018        20764.41
## 4522          0.0000     Jun-2018        10036.93
## 4525          0.0000     Aug-2018        15394.84
## 4528          0.0000     Sep-2018          674.46
## 4538          0.0000     Sep-2018        19872.48
## 4548          0.0000     Sep-2018        35031.34
## 4554          0.0000     Jun-2018        12017.35
## 4557          0.0000     Sep-2018        15471.99
## 4569          0.0000     Jun-2018         1009.95
## 4576          0.0000     Jun-2018        10013.55
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## 4594          0.0000     Sep-2018          208.01
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## 4622          0.0000     Sep-2018          491.79
## 4626          0.0000     Sep-2018         4684.62
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## 4633          0.0000     Dec-2018         3630.25
## 4646          0.0000     Nov-2018          884.62
## 4650          0.0000     Aug-2018          120.02
## 4660          0.0000     Dec-2018         6452.71
## 4673          0.0000     Aug-2018          897.37
## 4684          0.0000     Aug-2018        10076.57
## 4699          0.0000     Sep-2018          144.79
## 4720          0.0000     Jul-2018         3055.09
## 4724          0.0000     Aug-2018        18256.38
## 4728          0.0000     Sep-2018         1275.32
## 4751          0.0000     Aug-2018          113.86
## 4778          0.0000     Oct-2018         6207.20
## 4812          0.0000     Jun-2018        35020.72
## 4820        213.4602                         0.00
## 4835          0.0000     Sep-2018        20302.37
## 4843          0.0000     Dec-2018          139.15
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## 4882          0.0000     Jul-2018        25363.73
## 4895          0.0000     Nov-2018        32483.32
```

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## 4907                0.0000     Sep-2018          165.27
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## 4956                0.0000     Jun-2018         4074.23
## 4957                0.0000     Jun-2018        24210.25
## 4959                0.0000     Jun-2018        18179.02
## 4960                0.0000     Jun-2018         2025.48
## 4987                0.0000     Oct-2018         8222.17
## 5022                0.0000     Dec-2018        11763.75
## 5027                0.0000     Jan-2019        17256.71
## 5029                0.0000     Jun-2018         7271.61
## 5053                0.0000     Aug-2018        17983.41
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## 5055                0.0000     Oct-2018         2735.78
## 5066                0.0000     Jun-2018        40076.74
## 5069                0.0000     Jul-2018          227.84
## 5077                0.0000     Sep-2018        14260.63
## 5091                0.0000     Oct-2018        13826.77
## 5110                0.0000     Nov-2018         3621.07
## 5114                0.0000     Dec-2018           40.00
## 5161                0.0000     Nov-2018        38595.46
## 5215                0.0000     Dec-2018         1536.58
## 5216                0.0000     May-2018        25024.40
## 5219                0.0000     Jan-2019        16883.72
## 5251                0.0000     Aug-2018        16199.00
## 5254                0.0000     Nov-2018        33724.48
## 5258                0.0000     Oct-2018          301.94
## 5269                0.0000     Feb-2019        36783.54
## 5277                0.0000     Sep-2018          107.67
## 5285                0.0000     Jul-2018          837.67
## 5291                0.0000     Oct-2018         1238.46
## 5292                0.0000     Sep-2018          349.06
## 5340                0.0000     Dec-2018         8378.81
## 5341                0.0000     May-2018        25059.59
## 5347                0.0000     Jan-2019         3910.59
## 5373                0.0000     Oct-2018         2236.94
## 5382                0.0000     Aug-2018        37435.86
## 5394                0.0000     Jan-2019         7589.95
## 5432                0.0000     Oct-2018         2729.75
## 5443                0.0000     Jun-2018        15096.47
## 5445                0.0000     May-2018        16037.89
## 5454                0.0000     Jun-2018        17602.45
## 5464                0.0000     Aug-2018        16849.09
## 5479                0.0000     Oct-2018         9163.83
## 5503                0.0000     Jan-2019        26079.10
## 5514                0.0000     Jan-2019         8469.91
## 5517                0.0000     Nov-2018         3473.45
## 5545                0.0000     Jul-2018        24469.15
## 5549                0.0000     Jun-2018         1533.99
## 5558                0.0000     Jan-2019         4794.57
## 5569                0.0000     Aug-2018         9957.25
## 5590                0.0000     Jan-2019         5456.79
## 5592                0.0000     Jan-2019         4261.81
## 5608                0.0000     Dec-2018         4422.77
## 5609                0.0000     Jun-2018        20184.17
## 5611                0.0000     Aug-2018         2903.65
## 5624                0.0000     Jan-2019         2518.02
## 5651                0.0000     Jul-2018         2237.01
## 5673                0.0000     Dec-2018        18754.61
## 5692                0.0000     Sep-2018         7825.14
## 5694                0.0000     Jul-2018         2908.21
## 5716                0.0000     Feb-2019         6412.74
## 5736                0.0000     Dec-2018        17297.19
## 5745                0.0000     Jun-2018         4460.51
## 5777                0.0000     Dec-2018        13458.72
## 5789                0.0000     Jul-2018        15408.22
## 5822                0.0000     Oct-2018        19286.35
## 5831              125.9640     Jul-2018          298.29
## 5843                0.0000     Jan-2019         3968.59
## 5863                0.0000     Jun-2018        20163.61
## 5865                0.0000     Sep-2018          440.33
## 5868                0.0000     Feb-2019         2565.10
## 5870                0.0000     Feb-2019          713.98
## 5882                0.0000     May-2018        10024.32
## 5883                0.0000     Feb-2019           16.30
## 5888                0.0000     Oct-2018          218.28
## 5899                0.0000     May-2018         6249.16
## 5902                0.0000     Jan-2019        19671.13
## 5903                0.0000     Oct-2018          867.32
## 5904                0.0000     Dec-2018         9803.20
## 5906                0.0000     Oct-2018         6326.07
## 5907                0.0000     May-2018        15008.95
## 5932                0.0000     Jul-2018         8067.41
## 5933                0.0000     Sep-2018          163.46
## 5940                0.0000     Jul-2018        19325.97
## 5942                0.0000     Oct-2018        16877.01
## 5946                0.0000     Sep-2018        14481.37
## 5955                0.0000     Dec-2018        34420.49
## 5967                0.0000     Dec-2018         3682.57
## 5973                0.0000     Aug-2018         1186.77
## 5989                0.0000     Oct-2018          122.63
## 5999                0.0000     Feb-2019         4216.60
## 6004                0.0000     Jun-2018        15183.29
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## 6037                0.0000     Dec-2018         1731.21
## 6038                0.0000     Feb-2019            7.84
```

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## 6041                    0.0000     Jan-2019        12280.93
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## 6139                    0.0000     Aug-2018          335.07
## 6147                    0.0000     Aug-2018        28578.20
## 6154                    0.0000     Sep-2018          232.07
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## 6232                    0.0000     Oct-2018        21321.92
## 6243                    0.0000     Dec-2018        26690.83
## 6248                    0.0000     Jul-2018        25495.20
## 6270                    0.0000     Aug-2018          201.25
## 6274                    0.0000     May-2018        10015.68
## 6284                    0.0000     Sep-2018         9929.55
## 6309                    0.0000     Sep-2018        25878.88
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## 6317                    0.0000     Feb-2019         2461.88
## 6361                    0.0000     Oct-2018         2288.72
## 6366                    0.0000     Aug-2018         1476.85
## 6370                    0.0000     Oct-2018           76.23
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## 6469                    0.0000     Feb-2019         1359.07
## 6481                    0.0000     Feb-2019        15030.36
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## 6492                    0.0000     Jan-2019         2732.68
## 6493                    0.0000     Jun-2018        25503.01
## 6499                    0.0000     Nov-2018          911.95
## 6500                    0.0000     Jan-2019         5390.16
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## 6528                    0.0000     Aug-2018        34461.72
## 6536                    0.0000     Aug-2018         3466.80
## 6550                    0.0000     Nov-2018         8880.42
## 6555                    0.0000     Jun-2018         3036.07
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## 6641                    0.0000     Jan-2019          699.14
## 6644                    0.0000     Jan-2019        17716.30
## 6646                    0.0000     Oct-2018          523.07
## 6648                    0.0000     Oct-2018        14721.45
## 6682                    0.0000     Sep-2018         4554.50
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## 6704                    0.0000     Nov-2018         8716.70
## 6716                    0.0000     Sep-2018         9969.36
## 6719                    0.0000     Jul-2018        21063.84
## 6724                    0.0000     May-2018         4010.60
## 6737                    0.0000     Oct-2018         9571.77
## 6795                    0.0000     Aug-2018          208.11
## 6813                    0.0000     Jan-2019           68.01
## 6826                    0.0000     May-2018        20075.02
## 6842                    0.0000     Dec-2018         4262.05
## 6852                    0.0000     Aug-2018         9440.41
## 6856                    0.0000     Jun-2018         6626.83
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## 6875                    0.0000     Oct-2018        13302.93
## 6901                    0.0000     May-2018         6508.24
## 6944                    0.0000     Feb-2019          192.59
## 6952                    0.0000     Aug-2018          210.98
## 6968                    0.0000     Jul-2018        10040.12
## 6980                    0.0000     Jan-2019         7586.87
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## 6992                    0.0000     Oct-2018        10742.40
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## 7046                    0.0000     May-2018         5524.60
## 7055                    0.0000     Aug-2018        26440.28
## 7070                    0.0000     May-2018        20186.62
## 7078                    0.0000     Sep-2018         9152.56
## 7083                    0.0000     Aug-2018          407.69
## 7092                    0.0000     Feb-2019        10997.01
## 7093                    0.0000     Sep-2018         9717.04
## 7113                    0.0000     Apr-2018         6417.88
## 7128                    0.0000     Sep-2018         9146.61
## 7140                    0.0000     Oct-2018          224.18
## 7154                    0.0000     Dec-2018        32999.96
## 7157                    0.0000     Dec-2018         8645.97
## 7170                    0.0000     Jan-2019         7343.71
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## 7194                    0.0000     Aug-2018         9432.60
## 7200                    0.0000     Aug-2018         7682.94
## 7205                    0.0000     Jun-2018         9994.47
## 7209                    0.0000     Sep-2018          609.08
## 7210                    0.0000     Jun-2018         8954.04
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## 7212                    0.0000     Aug-2018          670.13
## 7246                    0.0000     Sep-2018        11007.70
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## 7248          0.0000    Apr-2018     2001.67
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## 7395          0.0000    Jun-2018      179.44
## 7398          0.0000    Apr-2018    10039.41
## 7457         80.1000    Jul-2018      514.62
## 7471          0.0000    Feb-2019    32255.09
## 7482          0.0000    Oct-2018     5296.78
## 7507          0.0000    Nov-2018     6116.12
## 7514          0.0000    Aug-2018     5696.13
## 7519          0.0000    Jul-2018      303.99
## 7525          0.0000    Nov-2018     5637.98
## 7527          0.0000    Aug-2018     9114.72
## 7537          0.0000    Apr-2018     5007.10
## 7542          0.0000    Apr-2018    25042.85
## 7561          0.0000    Aug-2018     4833.75
## 7569          0.0000    Jun-2018    35061.99
## 7576          0.0000    Jan-2019     4947.03
## 7639          0.0000    Aug-2018    18799.20
## 7640          0.0000    Nov-2018    26283.70
## 7650          0.0000    Oct-2018    10590.00
## 7652          0.0000    May-2018    10099.37
## 7672          0.0000    May-2018     1002.36
## 7673          0.0000    Sep-2018      587.47
## 7674          0.0000    Oct-2018    12916.90
## 7681          0.0000    Jan-2019     3142.52
## 7683          0.0000    Oct-2018     4975.80
## 7685          0.0000    Apr-2018    27555.08
## 7702          0.0000    Jan-2019     8373.93
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## 7846          0.0000    Apr-2018    10013.49
## 7866          0.0000    Nov-2018    26565.38
## 7883          0.0000    Jul-2018     9653.13
## 7885          0.0000    Jul-2018    12427.71
## 7911          0.0000    Nov-2018     7685.77
## 7917          0.0000    Oct-2018    15686.39
## 7919          0.0000    Sep-2018      138.74
## 7922          0.0000    Oct-2018     2657.94
## 7928          0.0000    Jul-2018      855.75
## 7939          0.0000    Aug-2018     3413.89
## 7941          0.0000    May-2018    10050.00
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## 7968          0.0000    Oct-2018     7781.36
## 7969          0.0000    Sep-2018      785.47
## 7974          0.0000    Jun-2018    11826.03
## 7982          0.0000    Sep-2018      533.63
## 7995          0.0000    Dec-2018     9321.48
## 8000          0.0000    Feb-2019     4937.02
## 8005          0.0000    Feb-2019    16314.55
## 8007          0.0000    May-2018     2514.97
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## 8061          0.0000    Sep-2018    19123.96
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## 8165          0.0000    Dec-2018    13972.46
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## 8203          0.0000    Nov-2018     5264.24
## 8209          0.0000    Sep-2018        7.97
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## 8246          0.0000    Sep-2018    36365.99
## 8256          0.0000    Apr-2018     2508.33
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## 8295          0.0000    Oct-2018    12117.23
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## 8537          0.0000     Aug-2018         35.27
## 8552          0.0000     Apr-2018       6017.47
## 8585          0.0000     Jul-2018       5746.73
## 8602          0.0000     Oct-2018        746.07
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## 8721          0.0000     Oct-2018       5701.34
## 8735          0.0000     Sep-2018        589.90
## 8767          0.0000     Oct-2018       8682.76
## 8783          0.0000     Sep-2018        523.45
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## 8804          0.0000     Aug-2018        653.83
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## 8895          0.0000     May-2018      16172.64
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## 8946          0.0000     Oct-2018        689.46
## 8953          0.0000     Feb-2019      13668.39
## 8963          0.0000     Sep-2018       1000.41
## 8966          0.0000     Apr-2018      12031.31
## 8977          0.0000     Sep-2018      19505.83
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## 9047          0.0000     Sep-2018       7703.54
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## 9056          0.0000     Mar-2018      19066.20
## 9057          0.0000     Dec-2018       4390.90
## 9058          0.0000     Aug-2018      38489.57
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## 9096          0.0000     Jun-2018       5746.74
## 9098          0.0000     Aug-2018       9262.38
## 9101          0.0000     Jul-2018        495.61
## 9103          0.0000     May-2018       4985.21
## 9140          0.0000     Jul-2018       6815.54
## 9154          0.0000     May-2018      25272.83
## 9160          0.0000     Sep-2018      18087.18
## 9163          0.0000     Mar-2018      12012.85
## 9202          0.0000     Jan-2019       7911.91
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## 9459          0.0000     Mar-2018      25141.43
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## 9573          0.0000     Oct-2018      10488.24
## 9610          0.0000     Dec-2018      22653.32
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## 9614                  0.0000     Oct-2018         3549.33
## 9627                  0.0000     Dec-2018         4882.17
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## 9697                  0.0000     Sep-2018          338.31
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## 9773                  0.0000                         0.00
## 9783                  0.0000     Dec-2018        18785.92
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## 9796                  0.0000     Apr-2018         1150.00
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## 7               Jan-2019                         0           1
## 9               Feb-2019                         0           1
## 14              Feb-2019                         0           1
## 23              Jan-2019                         0           1
## 34              Feb-2019                         0           1
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## 49              Feb-2019                         0           1
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## 82              Jan-2019                         0           1
## 115             Dec-2018                         0           1
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## 158             Dec-2018                         0           1
## 162             Feb-2019                         0           1
## 167             Jan-2019                         0           1
## 182             Feb-2019                         0           1
## 186             Jan-2019                         0           1
## 200             Jan-2019                         0           1
## 239             Dec-2018                         0           1
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## 273             Jan-2019                         0           1
## 276             Feb-2019                         0           1
## 345             Feb-2019                         0           1
## 369             Feb-2019                         0           1
## 379             Jan-2019                         0           1
## 389             Nov-2018                         0           1
## 395             Jan-2019                         0           1
## 403             Feb-2019                         0           1
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## 411             Jan-2019                         0           1
## 426             Feb-2019                         0           1
## 438             Nov-2018                         0           1
## 441             Dec-2018                         1           1
## 443             Jan-2019                         0           1
## 468             Nov-2018                         0           1
## 469             Jan-2019                         0           1
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## 482             Jan-2019                         0           1
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## 566             Feb-2019                         0           1
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## 587             Dec-2018                         0           1
## 597             Jan-2019                         0           1
## 605             Oct-2018                         0           1
## 627             Jan-2019                         0           1
```

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## 644          Feb-2019                    0          1
## 677          Feb-2019                    0          1
## 687          Dec-2018                    0          1
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## 718          Feb-2019                    0          1
## 721          Jan-2019                    0          1
## 743          Feb-2019                    0          1
## 744          Dec-2018                    0          1
## 745          Nov-2018                    0          1
## 758          Feb-2019                    0          1
## 777          Dec-2018                    0          1
## 802          Dec-2018                    0          1
## 818          Feb-2019                    0          1
## 832          Feb-2019                    0          1
## 856          Feb-2019                    0          1
## 857          Feb-2019                    0          1
## 858          Feb-2019                    0          1
## 882          Dec-2018                    0          1
## 883          Feb-2019                    0          1
## 889          Nov-2018                    1          1
## 903          Oct-2018                    0          1
## 907          Jan-2019                    0          1
## 915          Feb-2019                    0          1
## 920          Feb-2019                    0          1
## 939          Feb-2019                    0          1
## 954          Feb-2019                    0          1
## 969          Feb-2019                    0          1
## 1002         Jan-2019                    0          1
## 1015         Feb-2019                    0          1
## 1024         Jan-2019                    0          1
## 1029         Oct-2018                    0          1
## 1031         Nov-2018                    0          1
## 1053         Jan-2019                    0          1
## 1057         Jan-2019                    0          1
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## 1109         Jan-2019                    0          1
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## 1139         Dec-2018                    0          1
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## 1187         Feb-2019                    0          1
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## 1209         Oct-2018                    0          1
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## 1275         Dec-2018                    0          1
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## 1347         Jan-2019                    0          1
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## 1418         Dec-2018                    0          1
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## 1479         Feb-2019                    0          1
## 1500         Jan-2019                    0          1
## 1509         Feb-2019                    0          1
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## 1533         Feb-2019                    0          1
## 1534         Feb-2019                    0          1
## 1537         Jan-2019                    0          1
## 1548         Nov-2018                    0          1
## 1566         Jan-2019                    0          1
## 1575         Dec-2018                    0          1
## 1620         Sep-2018                    0          1
## 1632         Jan-2019                    0          1
## 1661         Feb-2019                    0          1
## 1666         Feb-2019                    0          1
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## 1686         Feb-2019                    0          1
## 1688         Nov-2018                    2          1
## 1726         Aug-2018                    0          1
## 1738         Oct-2018                    0          1
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## 1750         Sep-2018                    0          1
## 1754         Feb-2019                    0          1
## 1762         Jan-2019                    1          1
## 1809         Aug-2018                    0          1
## 1811         Dec-2018                    0          1
## 1819         Sep-2018                    0          1
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## 1881         Aug-2018                    0          1
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## 1915         Aug-2018                    0          1
## 1919         Feb-2019                    0          1
```

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## 1943          Feb-2019                        0          1
## 1958          Feb-2019                        0          1
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## 2894          Nov-2018                        0          1
## 2899          Feb-2019                        0          1
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## 2927          Jul-2018                        0          1
## 2933          Feb-2019                        0          1
## 2947          Jul-2018                        0          1
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## 3657          Jun-2018                        0          1
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## 3922          Jun-2018                        0          1
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## 1379        Individual                                    0            0
## 1418        Individual                                    0           57
## 1425        Individual                                    0            0
## 1450        Individual                                    0            0
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## 1479        Individual                                    0            0
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## 1509        Individual                                    0            0
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## 1534        Individual                                    0            0
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## 1726        Individual                                    0         3044
## 1738        Individual                                    0          708
## 1744        Individual                                    0            0
## 1750        Individual                                    0            0
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## 1809        Individual                                    0            0
## 1811        Individual                                    0            0
## 1819        Individual                                    0          700
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## 1915        Individual                                    0            0
## 1919        Individual                                    0          114
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## 1943        Individual                                    0            0
## 1958        Individual                                    0            0
## 1991        Individual                                    0            0
## 1994        Individual                                    0            0
## 1997        Individual                                    0            0
## 2001        Individual                                    0            0
## 2013        Individual                                    0          751
## 2015        Individual                                    0            0
## 2018        Individual                                    0            0
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## 2074        Individual                                    0            0
## 2077        Individual                                    0          927
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## 2253        Individual                                    0          169
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## 2257        Individual                                    0         3431
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## 2289        Individual                                    0            0
## 2303        Individual                                    0            0
## 2312        Individual                                    0            0
## 2318        Individual                                    0            0
## 2320        Individual                                    0            0
## 2326        Individual                                    0            0
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## 2328        Individual                                    0            0
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## 2623        Individual                                    0            0
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## 2787        Individual                                    0            0
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## 2819        Individual                                    0            0
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## 2899        Individual                                    0          646
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## 2957        Individual                                    0            0
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## 3053        Individual                                    0            0
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## 3092        Individual                                    0          624
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## 3210        Individual                                    0            0
## 3211        Individual                                    0            0
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## 3230        Individual                                    0            0
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## 3278        Individual                                    0            0
## 3282        Individual                                    0          439
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## 3485        Individual                                    0            0
## 3492        Individual                                    0            0
## 3494        Individual                                    0            0
## 3501        Individual                                    0            0
## 3506        Individual                                    0            0
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## 3565        Individual                                    0            0
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## 3704        Individual                                    0            0
## 3707        Individual                                    0            0
## 3780        Individual                                    0            0
## 3790        Individual                                    0            0
## 3794        Individual                                    0           98
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## 3922        Individual                                    0            0
## 3926        Individual                                    0         4179
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## 4220        Individual                                    0            0
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## 4284        Individual                                    0            0
## 4301        Individual                                    0            0
## 4325        Individual                                    0          145
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## 4372        Individual                                    0         4490
## 4388        Individual                                    0           32
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## 4402        Individual                                    0            0
## 4418        Individual                                    0            0
## 4421        Individual                                    0            0
## 4431        Individual                                    0         1780
## 4440        Individual                                    0            0
## 4458        Individual                                    0         1482
## 4461        Individual                                    0           89
## 4469        Individual                                    0            0
## 4472        Individual                                    0            0
## 4479        Individual                                    0            0
## 4483        Individual                                    0            0
## 4503        Individual                                    0          721
## 4519        Individual                                    0            0
## 4522        Individual                                    0            0
## 4525        Individual                                    0            0
## 4528        Individual                                    0            0
## 4538        Individual                                    0            0
```

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## 4548        Individual                                    0            0
## 4554        Individual                                    0            0
## 4557        Individual                                    0            0
## 4569        Individual                                    0           88
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## 4633        Individual                                    0            0
## 4646        Individual                                    0            0
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## 4660        Individual                                    0            0
## 4673        Individual                                    0            0
## 4684        Individual                                    0            0
## 4699        Individual                                    0            0
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## 4724        Individual                                    0            0
## 4728        Individual                                    0            0
## 4751        Individual                                    0            0
## 4778        Individual                                    0            0
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## 4820        Individual                                    0            0
## 4835        Individual                                    0            0
## 4843        Individual                                    0            0
## 4876        Individual                                    0         1911
## 4882        Individual                                    0            0
## 4895        Individual                                    0            0
## 4907        Individual                                    0            0
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## 4954        Individual                                    0            0
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## 5029        Individual                                    0            0
## 5053        Individual                                    0         5530
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## 5069        Individual                                    0            0
## 5077        Individual                                    0         1882
## 5091        Individual                                    0         3739
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## 5219        Individual                                    0          777
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## 5517        Individual                                    0         1005
## 5545        Individual                                    0            0
## 5549        Individual                                    0          745
## 5558        Individual                                    0            0
## 5569        Individual                                    0            0
## 5590        Individual                                    0            0
## 5592        Individual                                    0            0
## 5608        Individual                                    0            0
## 5609        Individual                                    0            0
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## 5624        Individual                                    0            0
## 5651        Individual                                    0            0
## 5673        Individual                                    0            0
## 5692        Individual                                    0           91
## 5694        Individual                                    0            0
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## 5736        Individual                                    0            0
## 5745        Individual                                    0            0
## 5777        Individual                                    0            0
## 5789        Individual                                    0            0
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## 5822        Individual                                    0          349
## 5831        Individual                                    0         7853
## 5843        Individual                                    0            0
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## 5883        Individual                                    0         1092
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## 5906        Individual                                    0            0
## 5907        Individual                                    0            0
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## 5933        Individual                                    0            0
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## 6004        Individual                                    0            0
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## 6037        Individual                                    0         2969
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## 6052        Individual                                    0          925
## 6087        Individual                                    0          616
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## 6232        Individual                                    0            0
## 6243        Individual                                    0            0
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## 6270        Individual                                    0           76
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## 6317        Individual                                    0         3215
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## 6366        Individual                                    0            0
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## 6485        Individual                                    0            0
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## 6536        Individual                                    0            0
## 6550        Individual                                    0            0
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## 6559        Individual                                    0            0
## 6591        Individual                                    0            0
## 6641        Individual                                    0            0
## 6644        Individual                                    0            0
## 6646        Individual                                    0            0
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## 6682        Individual                                    0            0
## 6699        Individual                                    0            0
## 6700        Individual                                    0         4151
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## 6795        Individual                                    0            0
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## 6826        Individual                                    0            0
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## 6875        Individual                                    0            0
## 6901        Individual                                    0         1417
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## 6944        Individual                                    0          121
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## 6968        Individual                                    0            0
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## 7046        Individual                                    0            0
## 7055        Individual                                    0            0
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## 7078        Individual                                    0            0
## 7083        Individual                                    0            0
## 7092        Individual                                    0            0
## 7093        Individual                                    0           83
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## 7525        Individual                                    0          459
## 7527        Individual                                    0            0
## 7537        Individual                                    0            0
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## 7640        Individual                                    0         1411
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## 7760        Individual                                    0            0
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## 7968        Individual                                    0            0
## 7969        Individual                                    0            0
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## 7974        Individual                                    0            0
## 7982        Individual                                    0            0
## 7995        Individual                                    0            0
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## 8066        Individual                                    0          175
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## 8095        Individual                                    0         7101
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## 8529        Individual                                    0            0
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## 8895        Individual                                    0          722
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## 8966        Individual                                    0            0
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## 9058        Individual                                    0            0
## 9083        Individual                                    0            0
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## 9160        Individual                                    0            0
## 9163        Individual                                    0            0
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## 9243        Individual                                        0            0
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## 9321        Individual                                        0            0
## 9336        Individual                                        0          519
## 9380        Individual                                        0            0
## 9383        Individual                                        0            0
## 9388        Individual                                        0            0
## 9413        Individual                                        0         8672
## 9431        Individual                                        0            0
## 9432        Individual                                        0            0
## 9444        Individual                                        0         1149
## 9459        Individual                                        0            0
## 9464        Individual                                        0            0
## 9474        Individual                                        0            0
## 9481        Individual                                        0            0
## 9497        Individual                                        0            0
## 9499        Individual                                        0            0
## 9503        Individual                                        0            0
## 9506        Individual                                        0            0
## 9509        Individual                                        0            0
## 9522        Individual                                        0            0
## 9546        Individual                                        0            0
## 9559        Individual                                        0            0
## 9573        Individual                                        0            0
## 9610        Individual                                        0            0
## 9614        Individual                                        0            0
## 9627        Individual                                        0            0
## 9628        Individual                                        0            0
## 9629        Individual                                        0            0
## 9652        Individual                                        0            0
## 9677        Individual                                        0            0
## 9681        Individual                                        0            0
## 9690        Individual                                        0            0
## 9697        Individual                                        0            0
## 9701        Individual                                        0            0
## 9705        Individual                                        0            0
## 9714        Individual                                        0            0
## 9718        Individual                                        0            0
## 9722        Individual                                        0            0
## 9748        Individual                                        0            0
## 9751        Individual                                        0            0
## 9753        Individual                                        0            0
## 9773        Individual                                        0          198
## 9783        Individual                                        0            0
## 9786        Individual                                        0          138
## 9796        Individual                                        0            0
## 9811        Individual                                        0            0
## 9816        Individual                                        0            0
## 9817        Individual                                        0            0
## 9820        Individual                                        0            0
## 9834        Individual                                        0            0
## 9843        Individual                                        0            0
## 9872        Individual                                        0            0
## 9882        Individual                                        0            0
## 9898        Individual                                        0            0
## 9904        Individual                                        0            0
## 9924        Individual                                        0        10491
## 9943        Individual                                        0            0
## 9945        Individual                                        0          145
## 9983        Individual                                        0            0
## 9988        Individual                                        0            0
## 10024       Individual                                        0            0
## 10033       Individual                                        0            0
## 10058       Individual                                        0            0
## 10062       Individual                                        0           73
## 10078       Individual                                        0            0
## 10088       Individual                                        0          200
## 10096       Individual                                        0            0
## 10110       Individual                                        0            0
## 10166       Individual                                        0            0
## 10167       Individual                                        0            0
## 10192       Individual                                        0            0
## 10195       Individual                                        0          145
##       tot_cur_bal open_acc_6m open_act_il open_il_12m open_il_24m
## 4          167564           1           2           1           2
## 7          227183           3           3           0           1
## 9           23547           1           3           1           2
## 14          79249           2           3           0           3
## 23          67262           1           3           2           6
## 34          86023           1           4           1           3
## 40          12578           0           1           1           1
## 49          87752           1           3           1           4
## 50         105297           0           5           1           1
## 51          31792           0           2           0           1
## 68         100157           3           2           0           2
## 82          16607           0           2           0           1
## 115         15277           0           1           1           2
## 140         43599           0           2           1           1
## 158         92874           2           3           0           1
## 162          8199           2           1           3           3
## 167        134659           2           3           2           3
## 182         57588           1           1           0           2
## 186         29703           2           2           2           2
```

```
## 200       372701          0           2           1           2
## 239        68660          0           4           2           3
## 249        26730          2           2           1           1
## 261        50846          0           3           1           1
## 273        40185          1           7           0           1
## 276       137290          4           6           1           6
## 345       100420          0           5           3           6
## 369       350302          1           3           0           1
## 379       307136          0           4           0           2
## 389       286420          1           1           1           2
## 395       278423          3           3           1           3
## 403       246875          0           1           2           2
## 408       145914          4           3           1           2
## 411       264771          2           2           2           4
## 426       386380          0           1           0           1
## 438        24734          4           2           0           1
## 441       230321          0           6           3           6
## 443       211659          1           2           2           2
## 468        16137          1           1           0           0
## 469        38948          0           3           0           1
## 480        37707          0           4           1           2
## 482       274118          2           2           3           5
## 483       283362          2           1           1           1
## 513        17416          2           4           1           2
## 566       147332          3          21           2           7
## 569       214676          0           4           1           2
## 587       121100          3           4           3           4
## 597        80143          2           9           1           3
## 605       124769          2           1           0           0
## 627       482547          1           3           2           2
## 644        12716          0           1           0           1
## 677         8620          1           1           0           1
## 687        63678          4          14           3           5
## 708        34956          2           1           1           1
## 718       124369          3           3           2           4
## 721        41623          3           3           2           3
## 743        32301          0           1           0           1
## 744       387152          0           1           1           1
## 745       179453          1           2           2           4
## 758        97270          2           2           2           2
## 777       278054          5           6           2           4
## 802       689505          4           5           0           1
## 818        39896          1           7           1           3
## 832       320422          3          20           2           7
## 856       540013          0           1           1           1
## 857      1021033          0           4           0           2
## 858         9967          2           1           3           5
## 882        15142          0           1           1           1
## 883       148367          1           3           0           0
## 889        66425          0           3           1           3
## 903       360981          2           1           0           1
## 907        40322          0           4           0           3
## 915       503581          0           2           0           1
## 920       431050          1           2           2           3
## 939        12389          1           3           2           4
## 954        31331          0           3           3           5
## 969        52932          0           3           1           1
## 1002      121579          0           5           1           2
## 1015       23412          2           1           1           1
## 1024     1227300          0           7           0           1
## 1029      101787          1           3           1           1
## 1031       21597          1           1           0           2
## 1053      269457          1           6           0           2
## 1057       63129          0           4           2           3
## 1080      219963          1           2           1           3
## 1108      524578          2           2           1           1
## 1109       18545          0           2           0           0
## 1110       34368          2          12           2           2
## 1112       22164          1           2           0           1
## 1115      109745          1           2           1           1
## 1121      260867          3           3           3           4
## 1122      130099          1           1           0           1
## 1139      188383          2           3           0           0
## 1163      174479          0           4           1           2
## 1181       75877          5          11           0           2
## 1187      343646          0           2           0           0
## 1194       18180          5           1           1           1
## 1197       34786          1           1           0           1
## 1209      133618          2          20           2           3
## 1224       33159          4           4           1           2
## 1257      208207          1           3           0           0
## 1262       51636          4           4           2           3
## 1275       70140          0           3           1           4
## 1336      184583          0           2           0           0
## 1343      282466          2           1           1           1
## 1346       58626          2           2           2           2
## 1347       38862          0           2           2           2
## 1379      102528          2          23           3           4
## 1418      102766          3          17           2           5
## 1425      216475          0          11           4           7
## 1450       23304          0           1           0           1
## 1451      124013          2           4           1           3
## 1452      486645          2           3           3           3
## 1465       39240          3           2           2           4
## 1468       22211          1           3           1           4
## 1478      163121          1           2           1           2
## 1479       31684          0           1           0           0
## 1500      143899          1           7           0           3
```

```
## 1509      597113          1          4          1          1
## 1524       22981          0          2          1          2
## 1533      571466          3          1          2          3
## 1534     1228771          1          2          1          1
## 1537       33391          1          2          1          2
## 1548       30807          1          2          0          1
## 1566       56833          0          6          2          4
## 1575       15019          0          1          1          2
## 1620       26294          0          1          0          0
## 1632       10211          1          3          0          0
## 1661       50030          1          3          1          2
## 1666      429918          0          8          0          5
## 1679      163660          0          4          0          3
## 1686      371909          5          1          1          2
## 1688       27046          2          3          2          4
## 1726      142374          1          2          1          2
## 1738       29135          0          2          0          1
## 1744       10290          2          1          0          2
## 1750      102384          0          4          2          2
## 1754       19506          0          2          0          2
## 1762      360860          3          2          2          3
## 1809      105560          3          1          2          3
## 1811       13214          1          1          1          2
## 1819      114612          0         11          0          0
## 1880       32969          0          3          0          1
## 1881      269674          0          5          1          2
## 1894      382653          1          2          1          4
## 1900       18546          0          2          0          0
## 1915       53974          1          3          1          4
## 1919       42963          1          3          2          4
## 1942        6868          2          1          1          2
## 1943      262208          2          3          3          4
## 1958      208675          5          1          2          4
## 1991      168432          1          3          2          2
## 1994       92589          2          4          1          2
## 1997      533990          1          1          0          0
## 2001      196154          1          2          2          4
## 2013       40802          2          1          1          1
## 2015      198114          1          3          2          3
## 2018       23991          1          1          1          4
## 2050      150203          1          1          0          2
## 2074      151951          1          1          0          1
## 2077      115120          2          3          2          3
## 2092       18985          0          1          0          0
## 2161       25579          0          1          1          1
## 2165       54041          1          3          0          2
## 2170      215037          1          5          2          3
## 2171      160559          0          1          0          2
## 2172       70267          0          6          0          3
## 2192      424182          0          1          0          1
## 2194       79225          0          1          0          3
## 2196       88291          1         16          1          7
## 2248       14062          0          2          0          0
## 2253       64622          2          2          1          3
## 2254       69860          1          1          0          0
## 2257       10953          1          2          1          1
## 2263      231424          1          3          0          1
## 2277      115946          0         17          1          4
## 2289       17426          5          1          1          1
## 2303      134479          1          4          3          6
## 2312      258703          3          2          3          6
## 2318      155713          0          2          0          0
## 2320       11079          0          2          0          0
## 2326       43158          0         15          1          2
## 2328       38819          1          3          1          1
## 2341        5970          0          1          0          0
## 2348       80397          2          4          4          4
## 2370      220069          1          2          0          3
## 2376      486230          3          3          0          0
## 2382       33011          2          2          3          5
## 2385       52596          0          1          1          1
## 2406       56663          0          7          0          2
## 2409      218012          0          4          0          5
## 2421       69201          3          4          2          3
## 2456       89759          3         10          4          6
## 2462       14174          2          3          1          2
## 2476       67819          0          2          0          0
## 2481      139683          0          1          0          1
## 2488      232836          4          6          4          5
## 2496       45498          1          3          1          1
## 2520      339589          0          1          0          0
## 2531      227865          0          1          0          1
## 2541       18918          1          1          0          0
## 2544       25758          1          4          2          4
## 2563      394925          2          3          3          3
## 2568       35983          1          5          2         11
## 2580      135509          0          1          0          1
## 2599      367608          0          9          1          5
## 2600       37175          0          1          0          4
## 2602      453907          1          4          1          2
## 2605       84287          0          3          0          1
## 2615       53271          1          2          2          3
## 2620       94807          0          2          0          1
## 2623       11440          0          1          0          1
## 2651       97474          3         12          3          3
## 2655       83448          1          2          0          3
## 2659      279413          2          2          4          4
## 2660      144260          3          5          2          3
```

```
## 2663       19003          2          2          2          5
## 2667      347052          5          3          2          3
## 2672       74206          0         10          1          2
## 2677       18763          0          1          0          1
## 2690       38336          0          2          2          3
## 2695      151864          1          3          1          2
## 2702       94033          3          3          1          3
## 2710      413302          0          1          0          0
## 2738      119534          1          4          1          1
## 2742      180071          3          5          2          5
## 2745       66890          2          4          2          4
## 2773      224771          2          3          4          7
## 2787      355051          3          2          2          4
## 2792       54253          0          2          0          3
## 2803       35497          5          2          1          1
## 2813       62177          0          3          0          1
## 2817      207967          0          2          0          1
## 2819       58508          3          2          0          2
## 2832      179863          1          2          0          0
## 2857      169151          5          4          1          2
## 2860       12595          0          1          0          1
## 2865       12444          0          1          0          1
## 2875       11183          0          1          0          0
## 2880        7635          0          1          0          0
## 2894       85505          1          2          1          2
## 2899      163510          2          4          5          5
## 2912       24750          1          2          1          1
## 2927       71589          0          2          1          3
## 2933      642214          0          3          0          0
## 2947       24386          2          1          1          1
## 2951      580436          0          2          3          6
## 2957       18095          0          1          0          0
## 2961      257360          0          5          1          1
## 2968       30123          1          3          0          2
## 2971      260448          2          4          3          3
## 2995      201950          1          3          0          0
## 3032      123068          1          4          1          3
## 3036       14777          0          2          0          1
## 3040       26010          1          2          0          1
## 3053       15785          3          2          1          2
## 3062       16333          0          1          1          2
## 3067      247532          1          2          1          2
## 3074      289387          2          2          1          4
## 3092       12827          1          2          2          3
## 3102       10335          0          3          0          1
## 3119      235934          2          1          0          1
## 3123       11956          0          1          0          2
## 3134        7524          2          1          0          1
## 3141      167614          1          1          1          2
## 3143       61105          1          4          2          3
## 3173       71439          0          2          1          1
## 3178      584253          0          1          0          0
## 3186        5899          0          2          1          3
## 3204      587418          2          4          2          2
## 3210      232315          0          1          0          1
## 3211       38339          0          2          1          2
## 3218       85880          2         17          2          2
## 3230       87105          0         11          0          3
## 3251       16108          2          1          0          1
## 3262      398566          1          1          0          1
## 3269      262857          1          1          0          0
## 3271      329143          0          3          0          2
## 3278      429781          1          4          1          3
## 3282       15382          2          1          2          2
## 3302       13470          1          1          1          1
## 3318      306576          0         11          0          1
## 3323      409614          4          7          2          4
## 3367      149017          1          3          1          1
## 3376       34314          2          2          2          5
## 3392      346409          1          4          1          3
## 3409      322139          1          5          1          4
## 3416       24843          1          4          0          2
## 3436       76750          2          4          0          0
## 3441      182156          0          2          1          1
## 3472       25832          0          4          0          2
## 3485      154805          1          3          1          2
## 3492       52542          3          4          2          5
## 3494       30530          2          4          0          2
## 3501        8569          0          1          1          1
## 3506      216209          0          2          0          1
## 3530       32560          0          1          0          1
## 3565      316092          0          3          0          1
## 3577       31487          1          5          0          3
## 3613      114309          2          1          3          3
## 3617      252634          1          1          3          3
## 3639      245763          0          3          1          1
## 3657      153177          4          2          2          4
## 3668      395921          1          1          0          0
## 3686      274000          0          2          0          0
## 3698       31164          0          2          0          2
## 3704       21728          0          1          0          0
## 3707       10304          0          1          0          1
## 3780      344597          0          2          2          4
## 3790      469724          0          4          2          3
## 3794      738833          2          3          3          3
## 3796      200735          0          1          0          1
## 3822      459513          0          9          2          2
## 3825      335080          2          4          4          4
```

```
## 3861        9711          2          1          1          2
## 3887      207502          2          2          1          2
## 3921       29900          3          3          3          3
## 3922        8397          1          1          0          2
## 3926       51226          0          7          1          4
## 3943       23471          2          1          1          1
## 3954      197127          1          5          2          4
## 3964      102255          1          2          0          0
## 3976       35324          1          3          0          1
## 3984       56347          0          2          1          1
## 4006       80107          0          2          3          4
## 4010        8241          1          1          2          2
## 4028      198802          2          6          0          1
## 4043       13976          2          1          1          3
## 4045       28937          2          1          0          0
## 4053      203252          1          7          0          0
## 4055      208895          1          2          1          1
## 4057       11497          0          1          1          2
## 4098      333572          2          4          1          3
## 4100      178031          2          1          1          1
## 4113      486675          1          5          1          2
## 4119      122451          0          2          0          2
## 4136      263115          3          1          2          2
## 4138      104635          0         14          4          7
## 4150      369762          0          2          0          1
## 4169      377593          0          2          0          1
## 4173      197107          1          1          0          0
## 4193        7272          1          1          1          1
## 4198       19939          0          1          0          1
## 4203      108009          1          6          2          3
## 4211      541300          3          3          2          3
## 4220       23803          2          2          0          0
## 4229       79953          2          3          2          5
## 4247       11960          2          2          1          1
## 4273      340783          0         15          1          1
## 4274      192501          2          2          0          2
## 4284       60118          0          3          0          2
## 4301       36636          2          4          2          6
## 4325      370708          6          2          1          1
## 4349       62027          0          6          0          2
## 4350      310015          3          1          1          2
## 4370      186645          1          3          1          3
## 4372       79765          0          8          0          0
## 4388      100977          0          1          0          1
## 4390      411989          1          4          4          5
## 4400      160366          2          1          0          1
## 4401       33330          0          1          0          1
## 4402       54016          7          7          1          3
## 4418      697442          1          2          1          1
## 4421       55067          1          5          1          1
## 4431      125040          0          6          1          2
## 4440       18312          0          2          0          2
## 4458        7251          0          1          0          0
## 4461       48847          2          3          2          5
## 4469       12719          3          2          1          1
## 4472      121085          0          4          1          2
## 4479      507485          0          6          1          1
## 4483       33865          2          2          1          1
## 4503      437945          3          3          0          0
## 4519      284240          2          5          2          5
## 4522       10380          0          1          0          0
## 4525      160952          2          4          1          3
## 4528       94015          2          3          2          3
## 4538      338787          1          2          2          2
## 4548      383111          0          3          0          0
## 4554      283597          0          1          0          1
## 4557      151793          0          1          0          3
## 4569       40845          0          6          1          1
## 4576       14270          0          1          0          0
## 4590      272961          1          2          2          2
## 4594       61044          0          3          0          2
## 4604      239517          1          4          1          1
## 4622       23950          1          2          0          1
## 4626       15268          0          2          0          0
## 4629      114369          1          2          2          2
## 4633      401015          4          3          1          2
## 4646      116191          2          1          1          2
## 4650      190192          1          2          1          3
## 4660       30517          1          2          1          1
## 4673       30187          1          1          1          1
## 4684      333395          0          1          1          1
## 4699      261806          1          6          4          7
## 4720      298478          0          5          1          1
## 4724       16630          2          1          1          2
## 4728       15863          0          1          0          0
## 4751       21024          0          1          0          0
## 4778      351832          0          6          0          2
## 4812      496800          4          3          2          3
## 4820       15832          1          1          2          4
## 4835      159045          0          1          1          1
## 4843      179177          1          1          0          0
## 4876      261324          4          2          3          9
## 4882      400609          1          1          1          2
## 4895       53550          2          2          3          3
## 4907      118703          0          3          2          3
## 4912       79657          0          4          0          1
## 4941      328141          1          5          0          1
## 4952      369938          0          3          0          1
```

```
## 4954      188188          0          2          1          1
## 4956      127383          2          0          0          0
## 4957      123008          0          3          3          6
## 4959       51165          2          2          0          2
## 4960      397367          4          3          2          4
## 4987      106353          5         14          5          8
## 5022        5743          0          0          0          0
## 5027       17891          2          1          0          0
## 5029      287500          1          1          2          2
## 5053      181181          3          1          0          0
## 5054      346372          0          1          0          1
## 5055       10423          1          2          1          1
## 5066      496864          2          5          3          6
## 5069      376723          2          4          3          3
## 5077      141525          2          1          1          1
## 5091      293320          0          1          0          1
## 5110      173260          2          4          1          5
## 5114       11665          1          2          0          0
## 5161      233097          3         13          5          7
## 5215      166199          1          4          2          2
## 5216      359401          1          5          0          3
## 5219      399586          1          9          3          5
## 5251       86277          0          1          0          0
## 5254      498521          0          1          2          3
## 5258      471418          1          1          0          2
## 5269      175833          0          2          0          1
## 5277       61930          2          7          2          2
## 5285       47955          3          9          1          2
## 5291       96121          0          0          0          0
## 5292      230953          2          3          0          0
## 5340      129130          0          1          0          2
## 5341       14281          0          1          1          1
## 5347      270913          5          8          5          5
## 5373      577361          0          3          0          3
## 5382      437925          1          3          2          3
## 5394      389444          0          5          1          4
## 5432       19979          0          2          1          2
## 5443       23311          0          2          0          1
## 5445       20588          1          1          0          1
## 5454       39466          1          1          1          1
## 5464      156554          2          2          4          4
## 5479      374501          0          3          1          2
## 5503       69330          0          3          0          2
## 5514       41203          0          2          1          2
## 5517        6775          4          1          1          1
## 5545      495541          2          2          1          1
## 5549      242270          1          5          2          6
## 5558      391618          1          5          2          5
## 5569      207361          0          1          0          1
## 5590      220305          2          2          0          1
## 5592      371732          1          4          1          3
## 5608       42773          0          3          0          1
## 5609       73444          0          1          1          1
## 5611      463105          2          2          2          2
## 5624       12410          0          2          0          1
## 5651       80746          0          5          0          1
## 5673       63988          0         15          0          2
## 5692      108994          1          2          2          4
## 5694       37653          3          1          2          3
## 5716       29977          1          3          2          3
## 5736      222471          0          2          1          2
## 5745      177044          1          3          1          3
## 5777       13014          0          1          0          1
## 5789      447335          1          2          0          1
## 5822       95975          0          1          0          1
## 5831      177868          1          2          2          2
## 5843       72956          1          3          3          3
## 5863      458727          1          1          0          1
## 5865      128401          1          2          1          1
## 5868        8499          1          1          1          1
## 5870       29454          1          3          0          0
## 5882      230390          1          4          2          2
## 5883      217836          1          2          1          2
## 5888       63335          0          2          0          2
## 5899      223172          3          4          2          3
## 5902       32510          2          2          3          4
## 5903       58641          1          4          3          3
## 5904      538741          4          1          3          4
## 5906      324561          0          4          0          1
## 5907      116478          0          1          0          1
## 5932       32448          0          3          0          1
## 5933       24115          2          2          1          2
## 5940      209424          0          2          1          2
## 5942       34963          0          1          0          3
## 5946      121775          2          1          0          1
## 5955      335683          1          1          0          0
## 5967      664142          2         12          1          2
## 5973      192564          2          1          0          1
## 5989       16131          0          1          0          1
## 5999       14013          2          2          6          7
## 6004       36779          0          2          1          1
## 6024       87738          4          3          4          6
## 6037        5885          0          1          1          1
## 6038      119847          0          2          0          2
## 6041      202209          4          3          6          7
## 6047      102233          1          3          1          2
## 6048       22743          1          1          0          1
## 6052       14300          1          1          1          1
```

```
## 6087       95508          0          3          3          4
## 6102       42494          1          2          2          5
## 6132      333996          2          2          2          2
## 6139      147957          1          7          3          3
## 6147      145148          1          3          1          4
## 6154       11183          0          6          0          1
## 6155      333791          1          3          2          3
## 6156      113362          1          3          2          6
## 6181      421544          3          2          2          3
## 6186       15033          1          1          0          1
## 6214      103577          1          2          2          5
## 6217       21669          0          3          0          1
## 6228      316403          1          2          2          3
## 6232       55154          1          7          3          8
## 6243      541928          1          7          1          2
## 6248      206568          0          1          0          0
## 6270       45219          3         13          1          1
## 6274       16710          2          1          0          0
## 6284      191362          0          6          0          2
## 6309      714379          0          4          3          5
## 6310      244488          2          2          2          6
## 6317       88163          1          2          1          3
## 6361      259764          2          1          0          1
## 6366       18679          0          1          0          1
## 6370       31250          1          3          1          1
## 6393      337804          0          2          1          3
## 6429       19891          0          2          1          2
## 6448      143843          1          2          1          1
## 6469        4519          1          1          0          0
## 6481       34697          1          1          0          1
## 6485      214980          2         19          2          3
## 6492       21830          1          8          0          0
## 6493       55492          1          3          2          5
## 6499        8086          3          1          0          0
## 6500      128593          1          4          1          1
## 6510       55101          3          1          2          2
## 6522       15603          1          2          1          1
## 6528      404292          0          2          0          0
## 6536      292652          2          4          2          2
## 6550       13886          2          1          1          2
## 6555      211869          0          3          0          2
## 6559       36726          3          1          0          4
## 6591       12610          7          2          3          5
## 6641       91783          0          2          0          0
## 6644      124527          0          2          0          0
## 6646       80642          0          8          3          7
## 6648      661247          0          2          1          2
## 6682      178695          0          2          0          1
## 6699      192671          0          3          0          0
## 6700       69982          0          3          1          2
## 6704      137435          2          3          1          3
## 6716       70551          1          3          1          2
## 6719      111172          3          4          3          5
## 6724       90658          1          2          1          1
## 6737      148215          2          3          1          4
## 6795       64950          0          2          1          1
## 6813       56833          3          3          1          2
## 6826       65882          0          3          0          1
## 6842       42976          1          2          1          1
## 6852      117770          2          3          1          1
## 6856       15129          1          2          1          1
## 6866       27545          2          2          1          1
## 6875       58287          2          3          2          2
## 6901       25290          4          3          3          3
## 6944      308013          0          1          1          1
## 6952      152741          1          1          1          1
## 6968      285540          3          9          2          9
## 6980      184627          0          2          0          1
## 6991        7849          1          1          2          3
## 6992      103932          3          4          3          5
## 7041      448782          1          4          1          2
## 7046      284124          0          1          2          2
## 7055      253992          0          3          0          3
## 7070      388584          0          1          0          0
## 7078      204392          4          4          5          7
## 7083      150523          2          1          1          2
## 7092      344917          1          3          1          3
## 7093       93939          3          2          1          2
## 7113       57421          1          3          1          2
## 7128      232803          0          3          2          4
## 7140       45712          3          2          2          2
## 7154      112342          0          4          0          0
## 7157       84409          0          1          1          1
## 7170      365322          2          8          4          8
## 7175       28954          0          2          1          1
## 7181      649697          3          5          4          6
## 7194      311928          2          3          3          3
## 7200       82757          1         14          2          3
## 7205       91498          0          6          0          5
## 7209       66503          2          1          0          0
## 7210       35786          1          2          0          1
## 7211      186255          1          6          2          4
## 7212      421988          2          2          1          4
## 7246      246264          5          2          2          2
## 7248       12594          1          1          0          0
## 7260       20843          2          4          0          0
## 7264       27989          2          2          0          1
## 7277      129146          0          1          0          5
```

```
## 7283        29708          3           2           2           2
## 7286        14681          3           1           0           0
## 7300       226409          1           1           1           1
## 7332         9295          0           1           0           1
## 7348        18968          1           1           0           0
## 7350        87603          2           2           0           1
## 7356        18132          2           4           3           4
## 7367        62914          1           2           1           2
## 7368        11824          1           1           0           0
## 7369        18622          0           2           2           2
## 7370       274015          3           0           3           4
## 7376       141803          4           2           1           2
## 7379        13746          1           3           1           2
## 7388       256241          0           7           0           2
## 7395        12479          2           1           0           0
## 7398       226950          2           2           1           1
## 7457      1201558          2          13           1           5
## 7471       472052          1           2           1           3
## 7482       100934          0           5           3           7
## 7507        18164          0           1           1           2
## 7514        31603          1           2           0           2
## 7519       280866          3           2           2           3
## 7525       409389          2           2           2           4
## 7527         6027          0           2           0           1
## 7537        46177          4           3           2           5
## 7542       593001          1          17           1           3
## 7561        28472          0           2           1           1
## 7569       431139          0           4           1           3
## 7576        12955          1           1           1           3
## 7639        68029          0           5           3           5
## 7640       310305          0           3           0           1
## 7650        39016          0           1           0           1
## 7652        80953          2           1           1           1
## 7672       175758          1           5           0           0
## 7673       269334          0           3           2           6
## 7674       647240          8          10           1           4
## 7681         9696          0           1           1           1
## 7683        76042          0           1           0           1
## 7685        32210          1           1           1           4
## 7702        40517          1           4           0           1
## 7716        66853          0           8           0           1
## 7717       114376          1           1           1           1
## 7721       416778          0           2           0           2
## 7726       336247          0           0           1           1
## 7760        64813          2           7           1           1
## 7766       139435          0           1           0           1
## 7793        71966          0           4           0           1
## 7802        78864          1           8           1           2
## 7826       306485          3           3           1           3
## 7846       217807          1           4           0           0
## 7866        51851          0           2           0           1
## 7883       175930          0           3           0           2
## 7885       127731          0           2           1           2
## 7911       354045          0           3           0           1
## 7917       340918          3           2           2           3
## 7919       241881          2           6           0           2
## 7922       369647          3           1           1           1
## 7928       372157          3           3           0           2
## 7939         4080          1           1           1           3
## 7941       496135          1           3           2           5
## 7947       436636          2           3           2           2
## 7955        10520          1           1           0           1
## 7968        55888          1           7           1           2
## 7969        35074          1           3           0           0
## 7974       142702          2           2           1           2
## 7982        88410          0           2           1           2
## 7995        21127          2           3           2           3
## 8000        19684          1           2           1           4
## 8005       368271          1          11           5          10
## 8007       467146          1           2           2           5
## 8019       285902          0           2           1           1
## 8021        32753          0           3           1           1
## 8039        47416          0           2           0           2
## 8055       634437          0          13           0           1
## 8061       217437          0           5           0           4
## 8066         9920          0           1           0           0
## 8093        28254          3           1           0           1
## 8095       312509          0          10           0           1
## 8100       226569          4           2           2           4
## 8142       239436          1           2           0           2
## 8149       248469          4           1           1           1
## 8152       109577          0           5           1           1
## 8156        39432          0           6           2           3
## 8165       380592          0           3           2           3
## 8201       213801          1           4           1           2
## 8203        40278          0           2           2           3
## 8209        12914          1           1           1           2
## 8224       312542          4           5           2           5
## 8246        87413          0           2           2           4
## 8256        34009          1           1           1           2
## 8267        27381          2           3           1           4
## 8272       272906          0           1           0           1
## 8284        53871          0           7           3           6
## 8295       296233          1           3           1           4
## 8316        66641          0           2           0           3
## 8336        37697          0           3           0           2
## 8355        91033          1           2           1           1
## 8360       468795          1           4           2           3
```

```
## 8364      224472          0          2          0          0
## 8379       70133          0          7          1          3
## 8391       11937          2          1          1          2
## 8392      110126          0          8          0          1
## 8396       66381          7          2          3          4
## 8437      347429          0          2          0          1
## 8459        1653          3          1          1          2
## 8462       39199          0          3          1          2
## 8477       44829          2          4          3          6
## 8482      131470          1          1          1          1
## 8490      373671          2          4          2          4
## 8491      524412          1          5          0          4
## 8496      329490          3          1          1          2
## 8498      177892          0          3          1          3
## 8516      712465          1          7          1          4
## 8518      624491          3          2          1          1
## 8522       18595          1          1          1          1
## 8526      701625          1          1          1          1
## 8529       59236          3          4          2          3
## 8537       55379          2          5          1          1
## 8552      247745          2         19          1          1
## 8585      353958          1          8          1          2
## 8602      111864          1          3          1          3
## 8627      108164          3         21          4          7
## 8647       84930          2          2          1          2
## 8674       72868          0          1          1          1
## 8709      141405          2          2          1          4
## 8711      323059          2          4          2          2
## 8712       58910          1          3          1          5
## 8721      136980          5          2          0          0
## 8735      264012          1         10          3          6
## 8767       50072          3          3          3          3
## 8783       54945          0          2          1          2
## 8795      282017          0          2          3          4
## 8804      390734          2          3          0          1
## 8824       58090          1          5          1          1
## 8835       70649          3          7          3          5
## 8862      174227          1          2          0          2
## 8864      317130          3          2          0          2
## 8890      186029          3          2          3          4
## 8895      274943          0          9          0          1
## 8906      142866          0          1          1          2
## 8944        9159          0          1          1          1
## 8946       25381          2          1          0          2
## 8953      114554          0          2          1          1
## 8963       60566          4          7          6          6
## 8966       40806          2          1          1          1
## 8977      326510          1          2          1          2
## 9042       29868          1          2          1          2
## 9047      236468          1          2          1          1
## 9048      243645          1          3          1          2
## 9056      305747          0          3          1          2
## 9057       20679          1          2          0          3
## 9058      512264          0          3          2          2
## 9083       39322          2          2          2          3
## 9091      284221          2          3          1          1
## 9096       89795          0          5          2          5
## 9098       43095          2          2          3          3
## 9101      239596          2          5          3          6
## 9103       22608          1          1          2          4
## 9140      204338          3          4          1          3
## 9154      417874          2          1          1          1
## 9160       56476          0          2          0          0
## 9163       95986          0          8          0          1
## 9202      128150          1          2          1          1
## 9240      370316          0          1          1          1
## 9243      667371          2          1          1          1
## 9245        9619          0          1          0          3
## 9254       42595          1          3          1          2
## 9286       35560          0          3          1          1
## 9294        7034          0          1          1          1
## 9321       25423          1          2          0          1
## 9336       85334          1          2          3          4
## 9380      307493          0          4          1          1
## 9383       34634          0          2          0          1
## 9388       83217          3          5          4          8
## 9413      250536          2          2          1          3
## 9431       63812          0          3          3          4
## 9432      250946          0          3          0          0
## 9444       13358          1          2          1          2
## 9459      293968          1          3          1          1
## 9464      104314          0         14          0          1
## 9474      398091          2          1          0          1
## 9481      213688          1          2          0          1
## 9497       24742          1          0          1          2
## 9499       27250          1          2          2          2
## 9503      117657          0          2          0          1
## 9506       44663          0          4          1          3
## 9509       45388          1          1          0          0
## 9522      531109          4          7          4          5
## 9546      152975          0          4          0          0
## 9559       10659          2          1          1          1
## 9573      108755          1          4          4          8
## 9610      159308          0          5          0          3
## 9614      194417          1         11          2          6
## 9627       30964          0          2          0          1
## 9628      360956          4          4          3          4
## 9629      239423          2          2          1          1
```

```
## 9652       539043           3           2           2           2
## 9677        88244           0           0           1           1
## 9681        25940           1           2           0           1
## 9690       243967           1           7           0           2
## 9697       192060           0           1           0           1
## 9701        37719           0           2           0           2
## 9705         5401           2           1           1           1
## 9714       466029           3           5           3           5
## 9718       371828           0           3           1           1
## 9722       275062           1           2           1           2
## 9748        18485           0           2           1           3
## 9751       275670           3           3           2           4
## 9753       148977           0           1           0           2
## 9773       222874           2          13           1           1
## 9783        62917           0           2           1           2
## 9786        60650           0           2           0           1
## 9796       263199           0           5           1           3
## 9811        45701           0           3           1           1
## 9816        52939           1           2           1           1
## 9817        54259           1           2           1           1
## 9820       357805           1           3           1           1
## 9834       206334           0           1           1           1
## 9843       802539           2          10           2           7
## 9872       182905           1           2           0           0
## 9882        19012           0           2           0           1
## 9898       139909           5           2           2           3
## 9904       203417           2           4           1           3
## 9924       129876           0           6           0           0
## 9943       303997           2           2           1           3
## 9945       524002           2           2           1           2
## 9983       194637           1           3           1           5
## 9988        16357           4           3           1           1
## 10024      217869           0           3           0           4
## 10033      184773           1           1           2           2
## 10058      117078           3           2           2           2
## 10062      377082           4           2           1           2
## 10078     1666304           1           2           0           0
## 10088      255241           1           2           1           3
## 10096       26863           0           2           1           1
## 10110      241843           0           1           1           1
## 10166      168212           3          29           2           4
## 10167      324440           1           2           1           2
## 10192       24488           2           1           1           1
## 10195      223418           1           1           0           1
##       mths_since_rcnt_il total_bal_il il_util open_rv_12m open_rv_24m
## 4                      0       154238      97           0           0
## 7                     16        18531      39           4           5
## 9                     12        22318      48           1           2
## 14                    14        65340      63           2           3
## 23                     6        44361      89           4           8
## 34                    12        59004      58           2           2
## 40                    12         2838      71           0           2
## 49                     9        82224      72           1           2
## 50                     8        64800      66           1           2
## 51                    18        31492      75           1           3
## 68                    13        10315      66           5           6
## 82                    24        16539      55           1           3
## 115                   10        13678      91           0           0
## 140                   11        13770      42           0           0
## 158                   17        57142      54           3           7
## 162                    5         6500      93           1           2
## 167                    3       121368      84           4           5
## 182                   15        23708      83           1           3
## 186                    4        19305      85           1           1
## 200                    8        39848      81           0           0
## 239                   12        68660      83           1           1
## 249                    1        17888      51           3           3
## 261                   12        49927      58           1           1
## 273                   17        40152      64           1           1
## 276                    5       113709      80           5          10
## 345                    9        94604      76           0           1
## 369                   24        65821      64           4           9
## 379                   13        80933      90           1           4
## 389                   10        26983      85           4           5
## 395                    1        46563      72           2           2
## 403                   10        21192      88           0           0
## 408                   10        18853      56           6           6
## 411                    5        12338      88           4           7
## 426                   18        15941      80           2           7
## 438                   24         3078      22           5           5
## 441                    7        55529      86           0           3
## 443                   12        44157     112           3           3
## 468                   26        11999      74           2           2
## 469                   15        13808      60           1           2
## 480                    9        31848      70           2           7
## 482                    3        46036      99           0           0
## 483                    6        25718      95           0           0
## 513                    6        17416      81           2           3
## 566                    2       137501     101           1           1
## 569                    8        41258      61           0           0
## 587                    2       109284      98           1           1
## 597                    6        54821     101           4           9
## 605                   35         8190      48           2          11
## 627                    1        35114      94           0           0
## 644                   16         9506      79           3           4
## 677                   19         8333      71           1           1
## 687                    5        54125      96           1           4
## 708                    2        33055     100           2           7
```

```
## 718          4    110012    69     6     9
## 721          5     30843    60     2     3
## 743         15     15264    64     0     1
## 744          8     12320    99     0     5
## 745          6     36796    92     0     1
## 758          2     49771   126     1     1
## 777          2     77531   101     4     7
## 802         19    204291    52     8     9
## 818          0     39124    58     4    12
## 832          2    147655   112     0     2
## 856         10     18485    77     0     0
## 857         17     39954    33     0     3
## 858          5      6578   116     2     4
## 882         11      5052    25     0     5
## 883         25     14625    72     2     2
## 889         12     53464    82     1     1
## 903         14       352     2     3     5
## 907         14     30612    66     0     1
## 915         18     27771    68     3     8
## 920          6     71394   120     1     1
## 939          4     11854    74     0     4
## 954         11     24629    80     0     1
## 969         12     36846    52     0     0
## 1002         9     32943    44     0     1
## 1015         8     12436    83     3     4
## 1024        17    232503    67     0     1
## 1029        11     19488    46     2     6
## 1031        14     17910    88     2     4
## 1053        23    225583    82     1     1
## 1057         9     45661    57     0     2
## 1080         4     30714    81     1     2
## 1108         6     28935    58     1     2
## 1109        28      9230    68     1     2
## 1110         2     32247    60     4     5
## 1112        21      6356    35     1     2
## 1115        12     12623    63     2     3
## 1121         6     63152    84     3    11
## 1122        13      5188   101     1     1
## 1139        29     22715    60     0     1
## 1163        12     28083    64     0     3
## 1181        13     52281    68     8    11
## 1187        27     10101    39     1     6
## 1194         6     11395    95     4     4
## 1197        13     12554    70     2     5
## 1209         6     67458    92     0     1
## 1224         5     23519    58     3     5
## 1257        32      5894    17     1     2
## 1262         5     39406    91     3     4
## 1275        11     56438    83     0     4
## 1336        37     12085    29     1     1
## 1343        11     13795    83     2     4
## 1346         6     55708    92     6     7
## 1347         7     33686    95     0     1
## 1379         8     82629    42     2     5
## 1418         3     94357    90     3     4
## 1425         8     50459    81     3     4
## 1450        14     21784    91     0     0
## 1451        10     77330    90     2     6
## 1452         4     60571    50     0     4
## 1465         1     33814    71     1     2
## 1468         5     15290    60     0     0
## 1478         4     36020    88     1     3
## 1479        26     25681    80     0     2
## 1500        18     42102    66     0     0
## 1509         3     75872    75     0     0
## 1524        12     15034    86     0     0
## 1533         5     12792    89     2     4
## 1534         6     41907    13     0     0
## 1537         7      7439    37     1     1
## 1548        20     23478    78     1     2
## 1566         8     40216    67     0     1
## 1575        10      6064    83     1     4
## 1620        28      6662    37     1     2
## 1632       126      4582    42     1     1
## 1661         3     35690   101     1     3
## 1666        15     86520    92     1     7
## 1679        13     14786    74     0     1
## 1686         8     18657    80     6     9
## 1688         3     16901    76     1     1
## 1726        11     17846    91     3     3
## 1738        24     21226    75     1     4
## 1744        19      6176    81     3     7
## 1750         7     18402    67     2     4
## 1754        19     10409    67     0     1
## 1762         8     30446    83     1     1
## 1809         6       300    38     2     5
## 1811         6      3851    88     0     0
## 1819        35     68305    91     0     2
## 1880        24     22279    82     0     0
## 1881        12     29813    73     0     1
## 1894        10    171449    73     2     3
## 1900        29     15015    47     1     5
## 1915        12     48752    81     2     3
## 1919         6     36148    90     2     4
## 1942         4      5681    86     1     2
## 1943         2    109011    99     1     3
## 1958         4      1605    89    10    13
## 1991         6     31896    73     1     2
```

```
## 1994          4     27823    63     2     4
## 1997         32     16827    56     0     3
## 2001          5     43904    90     1     1
## 2013          4     27503    94     4     5
## 2015          5     39844    73     0     0
## 2018          8     22767    91     1     1
## 2050         13      4591    72     3     3
## 2074         14      3693    74     3     4
## 2077          3     28490    80     2    16
## 2092         28     11489    73     1     4
## 2161          9     15083    87     1     3
## 2165         17     45303    63     2     5
## 2170          4     31671    59     1     2
## 2171         16      8849    64     0     0
## 2172         15     58270    59     1     1
## 2192         19     20099    73     0     1
## 2194         14     11841    61     0     1
## 2196         10     55451    88     1     4
## 2248         28      6984    32     0     1
## 2253         10     26210   119     2     4
## 2254         30     13095    55     3     4
## 2257          1     10452    58     1     3
## 2263         22     12238    59     1     2
## 2277          9    105643   108     0     0
## 2289          5      4556    91     4     6
## 2303          3    128377    45     0     0
## 2312          9      5944    63     2     2
## 2318         36      7802    26     1     1
## 2320         27     10102    22     0     2
## 2326          8     42092    90     0     1
## 2328          9     35071    55     1     2
## 2341         37      4553    59     2     3
## 2348          4     68077    76     2     4
## 2370         21     50521    31     0     1
## 2376         43     40584   142     3     3
## 2382          8     22500    89     2     5
## 2385          9      9913    83     1     2
## 2406         13     42586    65     0     2
## 2409         13     67419    57     2     2
## 2421          3     58367    86     2     4
## 2456          1     88966   108     1     1
## 2462          2      5994    89     1     3
## 2476         34     58195    64     1     3
## 2481         19      7952    76     0     0
## 2488          1     65076    87     0     1
## 2496         11     34439    60     4     6
## 2520         59      7445    28     1     4
## 2531         18      6570    55     0     0
## 2541         50      5506    28     1     2
## 2544          4     20255    70     1     3
## 2563          3     93843    93     1     4
## 2568          2     26373    59     0     1
## 2580         17      5463    58     0     1
## 2599         12     64857    98     1     1
## 2600         20     18950    76     0     0
## 2602         10     72572    89     1     2
## 2605         14     65232    81     0     3
## 2615          6     45280    73     0     1
## 2620         16     17813    56     0     1
## 2623         18      3682    70     1     3
## 2651          1     95988   116     2     3
## 2655         17     78755    47     3     4
## 2659          2     42118    95     0     0
## 2660          2    134067    80     1     4
## 2663          1     15478    99     1     3
## 2667          2     93228    96     4     4
## 2672          7     73167    88     0     2
## 2677         17     12916    60     1     3
## 2690          9     37971    79     2     5
## 2695          7     15496    64     2     3
## 2702          7     87992    79     3     7
## 2710         42      7227    38     0     1
## 2738          4    112300    90     0     1
## 2742          3     89916    75     3     4
## 2745          8     59108    77     2     5
## 2773          3     41251    93     1     1
## 2787          2     37074    98     1     4
## 2792         14     45445    71     0     2
## 2803          6     27873    70     5    10
## 2813         16     53837    61     0     1
## 2817         20     41880    57     0     2
## 2819         17     48384   101     5     5
## 2832         45     30874    26     1     6
## 2857          2     77084    76     6     9
## 2860         16      4741    68     1     2
## 2865         22      4755    74     0     0
## 2875         34      6487    42     1     3
## 2880         43      7323    48     1     1
## 2894          6     54433    91     0     0
## 2899          2     24455    92     1     4
## 2912          8     11472    57     2     3
## 2927         10     43203   105     2     2
## 2933         26     12769    71     0     1
## 2947         12     23069    86     3     4
## 2951          8     63202    89     0     1
## 2957         29      8044    67     0     0
## 2961         12     13125    66     2     3
## 2968         14     13262    40     1     3
```

```
## 2971          4     47372    81     3     3
## 2995         27     34228    57     1     4
## 3032          1     71752    76     0     0
## 3036         22      6840    27     0     3
## 3040         14     17153    96     1     1
## 3053          4     10493    91     2     5
## 3062         10       504    39     0     0
## 3067          9     27747    77     1     4
## 3074          1     43105    69     1     2
## 3092          8     12044    39     1     1
## 3102         19      9667   104     0     2
## 3119         24     23609    74     0     1
## 3123         19       861    10     0     0
## 3134         24      1428    27     3     7
## 3141          4     19962    98     4     9
## 3143          1     50280    84     3     8
## 3173          9     65386    78     0     1
## 3178         26     26230    88     0     0
## 3186          8      5569    70     0     0
## 3204          5     92898   112     1     2
## 3210         16      6383    62     0     0
## 3211         12     30425    80     0     1
## 3218          3     81012   101     2     6
## 3230         19     79882   108     0     0
## 3251         21      6162    56     2     4
## 3262         17     18572    66     1     3
## 3269         34     22466    67     0     1
## 3271         15     79889    61     1     1
## 3278          1    124997    66     2     3
## 3282          6     12387    46     1     1
## 3302          5     10681    96     1     1
## 3318         16     35455    45     2     4
## 3323          3     55917    70     4    11
## 3367          6    146033   103     0     1
## 3376          6     30459    82     4     8
## 3392         11    127347    86     1     2
## 3409         11     70145    83     8    13
## 3416         18     14453   103     2     5
## 3436         33     63672    49     3     5
## 3441         12     28415    73     0     0
## 3472         16     12492    36     2     4
## 3485          6     46973   113     0     4
## 3492          8     40916    80     3     4
## 3494         23     25540    48     2     3
## 3501         10      3640    72     2     3
## 3506         22     27845    77     0     0
## 3530         19      4439    47     0     1
## 3565         21     17383    45     0     0
## 3577         13     19760    82     3     6
## 3613          3     13467    90     0     1
## 3617          2     21592    86     0     1
## 3639          7     60797    76     0     4
## 3657          8     65727    41     7    10
## 3668         28      1932    21     3     3
## 3686         31     18698    23     1     1
## 3698         16     10582    45     4     7
## 3704         27     16658    75     0     0
## 3707         23      3279    42     1     2
## 3780          7     22676    88     1     2
## 3790          8     89787    77     0     0
## 3794          3     95896    87     0     1
## 3796         13      6433    61     1     1
## 3822          7     46229    95     1     1
## 3825          4     57276    71     0     3
## 3861          3      2922    97     1     3
## 3887          7     31177    81     3     3
## 3921          3     27935    60     6     6
## 3922         22      3600    42     1     2
## 3926          7     42618    87     1     1
## 3943         10     18627   101     4     8
## 3954          3     63603    81     1     2
## 3964         40      9371    35     1     4
## 3976         17     20158    45     1     1
## 3984          8     54591    81     2     2
## 4006         11     69005    82     0     2
## 4010          5      6352    71     1     2
## 4028         13     38440   105     0     2
## 4043          8     11896    81     4     8
## 4045         28     19757    57     2     3
## 4053         27     51060    91     1     1
## 4055          8     27223    71     1     1
## 4057         10      8163    82     1     2
## 4098          5     93980    54     2     4
## 4100          4      1249    28     1     1
## 4113          8    149996    84     4     6
## 4119         20     44948    53     2     8
## 4136          2      5270   105     3     8
## 4138          7     92431    96     0     5
## 4150         20      4777    37     0     3
## 4169         14     49148    83     5     6
## 4173         34      6338    49     4    14
## 4193         11      3532    51     1     3
## 4198         17      9365    62     2     5
## 4203          8     48438    92     2     3
## 4211          2     44836    74     5     6
## 4220         25     14463    78     2     2
## 4229          4     73880   103     4     6
## 4247          2      5289    53     1     4
```

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## 4273          8     55327    99     1     1
## 4274         19     74654   103     5     8
## 4284         13     41094    87     0     4
## 4301          7     33209    94     2     6
## 4325          2      8630    62     5     8
## 4349         18     42046    71     0     2
## 4350         11     21281    90     3     9
## 4370          8     14263    61     1     1
## 4372        154     31608   128     2     3
## 4388         19      3691    16     0     1
## 4390          4     58912    92     0     3
## 4400         13     22106    86     3     7
## 4401         13     16012    61     0     2
## 4402          6     39355    72     7     9
## 4418          7     23621    43     1     1
## 4421          6     47191    59     0     0
## 4431          7     28415   107     0     0
## 4440         13     17479    73     0     4
## 4458         84      6637    58     2     2
## 4461          4     47502    94     4     5
## 4469          7     10816    93     5    13
## 4472         10    119632    77     1     1
## 4479          8    114912    60     1     5
## 4483          1     33336   101     1     1
## 4503         42     26361    31     3     4
## 4519          4     74708    69     1     1
## 4522         32      5849    39     2     5
## 4525          5     55853    60     2     4
## 4528          2     31308    80     2     2
## 4538          8     75186    78     3     5
## 4548         25     59436    59     1     3
## 4554         19      9821    53     1     5
## 4557         14     38523    83     0     2
## 4569         11     34794    84     1     3
## 4576         39     14261    52     0     1
## 4590          4      2178    91     0     3
## 4594         18     28749    35     0     1
## 4604          3     48141    70     0     0
## 4622         13     12344    43     1     3
## 4626         34     10305    34     1     2
## 4629          6     24439    90     0     0
## 4633          4    175674    56     9     9
## 4646          2     14847   100     2     2
## 4650          3     24242    87     0     1
## 4660         11     22638    54     2     3
## 4673          6     18993    96     0     1
## 4684         11     16356    88     0     3
## 4699          3     80368    75     1     2
## 4720          8     50992    69     1     2
## 4724         10      3154    63     4     5
## 4728         33     15482    57     0     4
## 4751         31     20973    65     0     0
## 4778         16     77068    42     0     2
## 4812          4    149793    95     2     3
## 4820          9      5966    61     5     7
## 4835          9      8139    50     1     1
## 4843         34      8954    35     1     1
## 4876          3     30978    73     1     3
## 4882          6      6912    69     1     2
## 4895          1     48167   100     1     2
## 4907          8     62743   138     0     3
## 4912         13     63614    66     0     1
## 4941         18     45146    44     3     6
## 4952         20     22368    58     0     1
## 4954         11     77210    88     0     2
## 4956         33     11726    65     3     4
## 4957         11     29141    79     0     1
## 4959         14     35637    71     4    18
## 4960          2     10172    27     3     4
## 4987          7     94794   104     7    11
## 5022         61      2003    23     3     3
## 5027         26     13739    73     2     6
## 5029          3     10726    98     1     1
## 5053         38      2809    24     3     6
## 5054         17     25948    81     2     2
## 5055          6      7734    48     1     3
## 5066          5    196370    70     0     1
## 5069          1     40712    58     1     1
## 5077          4     10391    95     2     4
## 5091         15      2977    66     0     0
## 5110          6     37060    89     1     5
## 5114         86      6810   129     1     3
## 5161          1    152895    80     0     0
## 5215         10     12891    65     0     0
## 5216         15     54378    48     4     5
## 5219          8     42468    76     5     9
## 5251         26      3725    26     0     0
## 5254         11     26817    99     1     4
## 5258         23      8236    29     1     2
## 5269         18     10180    32     0     0
## 5277          2     57101    86     0     2
## 5285         11     39216   108     3     3
## 5291         51       441    27     0     0
## 5292         30     13206    77     5     7
## 5340         23     24555    84     0     0
## 5341          8      9324    80     0     1
## 5347          2     26579    77     1     3
## 5373         17     25150    72     1     5
```

```
## 5382          3     55955    18     0     2
## 5394         12    105913    86     2     7
## 5432          9     19267    75     1     1
## 5443         23      5460    36     0     2
## 5445         19      6212    78     3     9
## 5454          7     22326    95     3     9
## 5464          2     18585    88     3     3
## 5479          7     45505    79     0     0
## 5503         21     58231    84     1     1
## 5514         11     26758    79     1     2
## 5517         10      3062    77     7     8
## 5545         11     53229    85     5     6
## 5549          5     20992    80     1     1
## 5558          6     54062    77     2     3
## 5569         22      3537    44     0     0
## 5590         16    139601    74     3     3
## 5592          5     54323    85     1     3
## 5608         18     21458    42     1     2
## 5609          7       256     4     4     5
## 5611          3     10227    93     2     3
## 5624         21      8262    39     1     2
## 5651         18     80296    61     1    10
## 5673         15     57943    78     0     1
## 5692         10     32715    87     1     1
## 5694          2     28236    83     0     2
## 5716          7     24789    73     1     1
## 5736          7     12161    84     1     2
## 5745          6     21943    73     0     0
## 5777         17      3585    60     1     5
## 5789         16     43891    77     1     1
## 5822         14     23263    87     0     0
## 5831          2     21523    86     0     0
## 5843          8     22496    71     3     5
## 5863         21      3536    71     4     8
## 5865          2     26812    83     0     0
## 5868         11      2378    79     1     4
## 5870         34     25527    52     1     2
## 5882          5     36724    54     0     0
## 5883          6     42097    88     2     4
## 5888         14     57043    71     1     3
## 5899          4     27343    66     4     8
## 5902          4     25483    89     1     2
## 5903          6     57907    90     0     4
## 5904          2     45947    70     1     2
## 5906         21     38178    29     1     1
## 5907         22      1956    44     1     2
## 5932         23     29332    76     0     1
## 5933          4     11903    88     2     3
## 5940         11     42803    84     1     4
## 5942         14      8480    83     0     1
## 5946         21      3541    70     3     4
## 5955         30      3656    19     1     2
## 5967          9    212604   106     2     3
## 5973         19     11852    51     3     5
## 5989         23      8635    57     1     1
## 5999          4     13924    57     1     2
## 6004         12     25069    68     0     1
## 6024          6     61323    92     6    10
## 6037         10      5274   101     1     2
## 6038         18      4781    50     1     1
## 6041          3     50887    81     1     3
## 6047          3      8892    36     0     0
## 6048         21     16801    77     7    15
## 6052         12      7356    75     2     4
## 6087          8     38068    80     1     3
## 6102          4     37091    93     0     6
## 6132          5     31827    83     0     1
## 6139          5    147652    73     0     2
## 6147         10     40419    77     1     2
## 6154         23     10620    41     0     2
## 6155         10     53900    61     5     7
## 6156          5     94955    92     1     7
## 6181          1     28350    84     2     4
## 6186         14     12408    84     1     3
## 6214          7     19797    47     1     2
## 6217         16     15642    35     0     0
## 6228          3     47821    95     3     5
## 6232          3     52884    72     0     0
## 6243          6     70809   116     1     1
## 6248         67      1218    31     0     2
## 6270         10     40886   106     4     4
## 6274         47      3449    17     2     3
## 6284         15     20503    57     0     0
## 6309          8    103702    65     0     0
## 6310          9     29624    82     1     4
## 6317         11     39457    50     2     5
## 6361         13      6042    85     4     7
## 6366         20     10066    30     0     0
## 6370         10     30854    95     1     3
## 6393          7     46270    84     1     1
## 6429         10      5831    60     1     4
## 6448          3     40453    77     4     5
## 6469         44      3301    44     3     6
## 6481         18     20373    78     3     5
## 6485          3    190080    80     0     1
## 6492         51     18456   101     1     1
## 6493          8     47876    84     6    10
## 6499         33      6894    51     3     5
```

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## 6500          5     14397    52     3     5
## 6510          6     51900    94     1     2
## 6522         11     13973    44     2     2
## 6528         25     27354    36     1     1
## 6536          5     69794    50     2     2
## 6550          9      3260    54     4     8
## 6555         15     21251    59     2     7
## 6559         15      4525    71     2     9
## 6591          2     12306   100     7    10
## 6641         29     39511    84     2     3
## 6644         25      6486    18     0     2
## 6646          7     75599    92     0     0
## 6648          8     27307    83     1     6
## 6682         13     17947    83     0     0
## 6699         47     30895    57     0     1
## 6700         10     63899    88     0     1
## 6704          4     28991    85     2     3
## 6716          4     67229    86     0     1
## 6719          5     96604    87     4    13
## 6724         11     12880    61     2     3
## 6737          5     26390    65     2     3
## 6795         12     13736    56     2     2
## 6813          1     38194    69     3     3
## 6826         13     65421    59     0     3
## 6842          9     38233    74     1     6
## 6852          6     39695    20     6     6
## 6856          4     13887    63     1     7
## 6866         10     22657    84     2     8
## 6875          7     43295    85     2     4
## 6901          5     22724    74     4    13
## 6944         10     17207    74     3     3
## 6952         12     39955    77     1     1
## 6968         10     73501    66     3     6
## 6980         18     84448    60     0     3
## 6991          6      6660    83     0     0
## 6992          3     85530    67     1     4
## 7041         10     70527    78     1     1
## 7046         10     26287    91     3     8
## 7055         13     20312    46     3     6
## 7070         25      6122    33     0     0
## 7078          4    107922    93     5    11
## 7083          5     80501    77     1     2
## 7092          5     47923    66     0     3
## 7093          6     33689    77     2     3
## 7113         12     54561    83     2     3
## 7128          8     49212    79     0     0
## 7140          4     37193    96     2     3
## 7154         34    109538    32     0     0
## 7157         12      8056    86     2     6
## 7170          4    197031    69     1     1
## 7175          8     27871    19     3     3
## 7181          3     52860    62     0     0
## 7194          5     28924    89     3     5
## 7200          6     75738    94     0     1
## 7205         15     85559    45     3     3
## 7209         27     19389   100    10    11
## 7210         20     26720    69     3    11
## 7211          7    158413    73     4     6
## 7212          6     40447    77     6    15
## 7246          4     38500    95     3    25
## 7248         28     12173    68     1     1
## 7260         92     12674    96     3     3
## 7264         14     11928    48     4     6
## 7277         13      4189   105     1     2
## 7283          6     21937    62     2     2
## 7286         57      1070     6     3     4
## 7300          4      3311    60     0     3
## 7332         17      5093    64     0     0
## 7348         26     15162    75     3     7
## 7350         16     86344    66     2     6
## 7356          2     14343    84     1     3
## 7367          4      5681    94     2     7
## 7368         25       355     6     2     3
## 7369          8     11135    76     0     0
## 7370          3     46710    75     1     4
## 7376         10      9982    57     5     6
## 7379          8     11755    59     1     2
## 7388         16     52049    88     1     6
## 7395         30     11749    67     3     3
## 7398          9      5301    47     4     5
## 7457          4    291320   121     0     0
## 7471          4     35043    67     0     1
## 7482          7     87454    66     1     1
## 7507          9     13994    78     0     2
## 7514         22     23476    86     2     8
## 7519          2     23517    68     0     0
## 7525          6     29700    88     2     4
## 7527         19      5697    30     0     0
## 7537          4     41577    67     3     3
## 7542         11     97681   102     1     2
## 7561          8     19388    65     0     3
## 7569         12    279372    68     0     4
## 7576         11     12805    87     1     3
## 7639          8     59903    91     1     1
## 7640         20    147957    38     1     3
## 7650         19     26107    76     1     2
## 7652         12     28056    85     3     5
## 7672         59     14276    30     1     1
```

```
## 7673          7     52259    79     1     1
## 7674          3    120023    66     8     9
## 7681         10      3391    85     2     5
## 7683         21     17813    81     0     0
## 7685         12     30819    77     3     5
## 7702         15     29900    66     2     3
## 7716         24     55050    50     0     0
## 7717          7     15261   102     4     5
## 7721         16      6612    52     1     2
## 7726         10     10186    86     5    13
## 7760          8     46248    81     5     6
## 7766         13     13047    82     5     9
## 7793         16     61304    57     2     6
## 7802          5     39969    97     1     4
## 7826          3     37043    77     1     2
## 7846         47     68076   109     2     4
## 7866         22     28702    50     0     0
## 7883         14     44196    66     0     2
## 7885         12    115804    60     1     4
## 7911         13    214907    74     2     2
## 7917          5     12243    93     2     4
## 7919         22     72691    75     2     5
## 7922          6     12571    96     3     3
## 7928         13     57164    73     3     4
## 7939          7      2624    88     1     3
## 7941          5     92312    77     0     0
## 7947          9     97005    54     4     5
## 7955         20      7532    75     2     3
## 7968          5     48109    69     0     2
## 7969         40     22015    38     1     2
## 7974          7     11506    70     2     4
## 7982         12     27264    81     1     3
## 7995          2     15069    59     5     6
## 8000         11     15043    75     1     2
## 8005          7     60076    87     1     1
## 8007          6     35559    88     1     1
## 8019         12     38123    77     0     1
## 8021         10     26229    66     0     0
## 8039         17     45107    53     1     2
## 8055         20    301459   165     1     6
## 8061         15     33403    46     1     3
## 8066         53      7427    28     1     4
## 8093         13     22071    87     6    10
## 8095         16     75377    78     0     2
## 8100          4     29592    88     5    10
## 8142         14     75777    13     6     7
## 8149         12     21639    91     3     3
## 8152         10     22059   100     0     1
## 8156         10     39268    93     0     2
## 8165          7     77890    60     1     3
## 8201         11     62370    55     1     7
## 8203          7     36282    85     1     6
## 8209         10     10251    89     3     6
## 8224          1     52132    95     3     5
## 8246          9     65549    66     0     1
## 8256          4     28644    84     1     2
## 8267          6     18136    80     1     1
## 8272         13      7404    74     0     2
## 8284          7     44594   102     2     3
## 8295          5     34225    72     0     0
## 8316         20     60477   120     0     0
## 8336         13     35558    61     0     5
## 8355          3     43426    96     0     1
## 8360         12    121885    71     1     1
## 8364         33      7068    51     2     2
## 8379          9     55431    93     2     2
## 8391         11      3026    74     2     4
## 8392         22    109962   119     0     0
## 8396          3     14509    80     5    10
## 8437         22     44010   106     0     1
## 8459          4       186    41     2     2
## 8462         11     33392    63     1     1
## 8477          7     40423    94     3     9
## 8482         11     16208    89     3     5
## 8490          1     70124    73     0     2
## 8491         16    249281    71     2     3
## 8496         10      5993    60     5     9
## 8498         10     57601    98     1     3
## 8516          1    148023   102     0     1
## 8518          8     44381    61     3     6
## 8522          2     12969    92     1     4
## 8526          6      7853    91     1     4
## 8529          4     58427    70     2     3
## 8537          5     51482    84     3     5
## 8552         12     69904   114     2     3
## 8585          9     60891   102     1     3
## 8602          9     15405    70     1     3
## 8627          4    102324   101     2     7
## 8647          8      4702    69     5    11
## 8674          7     13028    54     1     1
## 8709          6     18718    83     5     8
## 8711          3     41840    94     1     2
## 8712          1     58695    76     0     1
## 8721         43     17107    84     4     5
## 8735          5     63639   102     0     1
## 8767          6     46407    77     2     2
## 8783         12     54936    84     0     2
## 8795          7    102789    86     2     8
```

```
## 8804          17     49239    65     2     4
## 8824           8     19838    39     2     2
## 8835           2     68114   101     1     4
## 8862          13     25249    86     2     4
## 8864          21     16863    65     3     5
## 8890           2     22558    97     0     0
## 8895          15    197347   105     4     4
## 8906           8     23697    55     1     1
## 8944           7       210     2     2     2
## 8946          13     15073    75     2     4
## 8953          12      9499    48     0     1
## 8963           2     46471    74     3     5
## 8966           4     28166    98     1     2
## 8977          11     23729    56     4     7
## 9042           9     18415    90     3     9
## 9047           7     31786    86     1     2
## 9048           6     10725    34     1     2
## 9056          12     44301    81     3     6
## 9057          13     18965    81     1     1
## 9058          11     88072    16     0     0
## 9083           1     31410    98     0     4
## 9091          10     22079    55     4     4
## 9096           7     45478    79     0     3
## 9098           6     30647    86     1     2
## 9101           7     85546    90     3     5
## 9103           9     20498    83     6     7
## 9140          10     13114    51     3     3
## 9154           7     21852    87     3     8
## 9160          30     41742    75     1     2
## 9163          18     85574    86     0     0
## 9202           6     23145    71     1     4
## 9240           9      6669    78     1     3
## 9243           8     25251    93     2     3
## 9245          18      5450    50     0     2
## 9254           2     33690    76     1     2
## 9286          11     31538    50     0     0
## 9294           9      1129    75     0     0
## 9321          19     17490    45     1     1
## 9336           2     83943    99     0     1
## 9380          11     32123    79     2     2
## 9383          19     15204    39     1     1
## 9388           3     30050    46     2     4
## 9413           2     55698    86     1     4
## 9431           8     54853    88     0     0
## 9432          30     26458    72     2     2
## 9444           6      9263    81     0     1
## 9459           6     75613    35     0     0
## 9464          24     82994   121     0     1
## 9474          15      8449    39     2     4
## 9481          23     32583    68     1     2
## 9497           7     16839    94     3     5
## 9499           9     16173    81     2     4
## 9503          17     12841    48     0     1
## 9506           9     25319    56     0     5
## 9509          32      2458    11     2     2
## 9522           4    193912    93     1     2
## 9546          27     68480    36     0     0
## 9559           6      9822    85     1     2
## 9573           2     34285    78     0     0
## 9610          14     83483    64     1     2
## 9614           2    187095   125     1     3
## 9627          18     26072    66     0     4
## 9628           2     21002    52     3     3
## 9629           4     23477    61     1     2
## 9652           6     63635    70     2     3
## 9677           9      8452    94     0     2
## 9681          19     11764    40     1     1
## 9690          21    243322    74     3     3
## 9697          19      9925    76     0     0
## 9701          23     31573    66     1     2
## 9705           8       236    43     5     5
## 9714           3    285188    60     1     1
## 9718          11     57414    75     1     2
## 9722          11     19673    58     1     3
## 9748           9      9167    76     0     1
## 9751           9     99912    85     5     6
## 9753          13      4528    86     1     1
## 9773           5    148145   117     4     5
## 9783          11     23061    86     0     1
## 9786          20     23891    60     0     1
## 9796          10     99771   104     4     4
## 9811           8     41426    69     0     0
## 9816           3     19607    51     3     4
## 9817           6     23868    90     0     1
## 9820          11     15552    54     3     3
## 9834           9     22047    92     0     0
## 9843           6    164676    83     2     2
## 9872          26     24721    59     4     6
## 9882          19     11235    51     2     3
## 9898           3     44208    90     7    15
## 9904           6     59061    75     2     5
## 9924         114    122184   161     1     4
## 9943           3     40939    92     3     4
## 9945           6     48587    87     1     1
## 9983           1     37636    77     0     0
## 9988           2     12293    76     5     6
## 10024         13     29735    75     0     3
## 10033          8      5340    76     2     3
```

```
## 10058                 2        32389      95           3           6
## 10062                 3        61124      74           1           1
## 10078                26        32560      30           1           1
## 10088                 9        25480      80           2           3
## 10096                 9        22738      94           1           3
## 10110                10         6421      80           1           2
## 10166                 4       161472     114           3           7
## 10167                12        41391      76           1           1
## 10192                10        17031      92           6          11
## 10195                15         8321      83           0           2
##       max_bal_bc all_util total_rev_hi_lim inq_fi total_cu_tl inq_last_12m
## 4           7688       85            18300      0           3            1
## 7           1463       17            72600      1           0            2
## 9            963       44            45100      1           0            3
## 14          9326       65            20200      4           0            7
## 23          2116       67            50700      0          14            2
## 34         13200       41            97600      1           1            2
## 40          6793       27            42200      0           1            1
## 49          2684       40            38000      4           1            2
## 50          7000       53            41100      0           4            1
## 51           254       44            30800      4           0            5
## 68          2561       13           155700      0           0            4
## 82            15       33            19600      1           3            2
## 115         1599       73             5800      2           0            1
## 140        17415       52            52000      1           0            4
## 158        19332       42            98700      1           2            1
## 162         1622       84             2800      2           1            3
## 167         6299       64            24200      4           2            5
## 182          806       76             3600      2           8            6
## 186         6454       67            22000      0           0            5
## 200         6800       88            30400      0           5            2
## 239            0       56            14500      2           3            2
## 249         6270       55            13100      0           0            0
## 261          919       59             1000      3           2            4
## 273           33       44            29100      1           0            3
## 276         7515       63            62300      2           8            1
## 345         4884       67            12400      3           2            2
## 369         9198       34           111300      0           1            4
## 379         4459       64            59600      1           0            1
## 389         3055       83            12700      2           1            2
## 395         1459       36            31000      3           3            1
## 403         2734       57            21000      2           0            2
## 408         3635       28            86600      2           3            2
## 411            0       30            27200      7           9           10
## 426         5396       38           119900      0           6            1
## 438         5439       38            52100      1           3            2
## 441         3632       78            12000      4           3            0
## 443         2734       71            14500      1           1            4
## 468         4011       49            17000      0           1            0
## 469         8796       72            31500      1           3            0
## 480         2384       36            58200      2           1            3
## 482         2136       55            10100      7           0           19
## 483        10243       86            24900      1           1            3
## 513            0       68             4000      3           0            5
## 566         4974       90            26600      1           0            1
## 569         8224       42            32900      1           1            0
## 587         2910       40            41000      3           1            5
## 597         4022       77            49400      1           2            3
## 605         1618       34            21600      3           2            2
## 627        19975       96            49600      1           1            2
## 644         2397       41            18700      1           0            1
## 677          287       63             2000      0           4            1
## 687         3600       92            13000      8           0            8
## 708         1197       78            11700      0           1            3
## 718         3053       59            32100      3           5            5
## 721            0       68            14300      0           0            4
## 743        12080       67            24100      0           1            2
## 744         4391       68            20800      1           0            3
## 745         3803       87            17600      5           1            6
## 758           28      108            57200      2           1            3
## 777         6773       78            30200      2           0            2
## 802        20988       44           118100      3           1            3
## 818          377       28            75400      1           0            3
## 832         7681       93            36100      1           3            9
## 856         9230       74            13300      1           3            1
## 857        15245       42           248400      0           2            1
## 858         1444       18            48400      2          12            4
## 882         7608       18            64400      1           0            1
## 883          908       60             8900      1           0            3
## 889         3871       55            34000      2           4            1
## 903        11031       29            48500      1           0            7
## 907         1854       66            14600      1           1            0
## 915         5953       61           113000      2           3            5
## 920         6988      107            13500      0           4            1
## 939          377       54             6900      3           0            2
## 954         4729       63            18600      2          10            2
## 969        11906       56            24900      1           1            2
## 1002        3637       40            44800      1           0            2
## 1015        4765       32            58100      1           0            2
## 1024         844       64            48600      0           6            1
## 1029        1066       25            46100      2           3            4
## 1031        2102       80             6600      0           0            3
## 1053       19286       78            61800      0           2            2
## 1057        6250       48            47900      0          11            1
## 1080        7402       48            55100      2           0            1
## 1108       18232       78           178100      2          10            6
## 1109         228       49            24300      2           3            7
## 1110         503       43            22900      1           0            4
```

```
## 1112        7113       38            28800      1           0            2
## 1115        1334       33            23700      1           8            1
## 1121        3916       61            56200      3           0            4
## 1122        3811       25            45500      1           2            1
## 1139        6101       68            10700      0           0            3
## 1163        4900       61            23000      3           0            0
## 1181        7399       48            82300      2           0            1
## 1187        8559       38            49100      1           0            0
## 1194        3360       30            49300      0           0            3
## 1197       15909       41            65100      1           2            1
## 1209        5506       76            22400      2           2            5
## 1224        3649       53            20100      2           0            3
## 1257        2489       28            17900      0           4            2
## 1262        4065       51            58500      1           0            6
## 1275        7362       56            42300      4           2            1
## 1336        7041       33            96200      1           4            1
## 1343           0       47             9300      1           0            2
## 1346        2796       43            18600      3           1           12
## 1347         756       64            15600      1           1            3
## 1379        7226       28           155400      2           0            3
## 1418        2388       84            17100      0           8            2
## 1425        5131       65            43800      2           0            2
## 1450        1109       85             3300      1           0            0
## 1451        1153       73            12500      4           3            1
## 1452        1706       10           136500      0           0            5
## 1465        3171       37            57800      1           6            3
## 1468        4937       56            14500      2           4            2
## 1478        3774       60            26200      2           0            5
## 1479        1563       78             8600      1           1            2
## 1500           0       34            47100      8          11            6
## 1509        5407       79            16800      0           3            1
## 1524        3848       77            12100      1           0            1
## 1533        1126       30            39900      3           1            6
## 1534        2870       15            31700      1           0            2
## 1537       13416       34            77400      3           0            5
## 1548        2256       76            10100      1           1            1
## 1566        1816       61            14700      1           0            1
## 1575           0       54            20700      0           4            1
## 1620       14406       51            33800      0           0            1
## 1632        2974       58             6600      0           0            3
## 1661        7195       85            23800      1           0            0
## 1666        9890       57           130200      8           0            5
## 1679        1339       46            18000      1           1            0
## 1686       11342       63            58300      2           1            5
## 1688        5033       53            28900      2           4            1
## 1726        2329       78            11400      1           8            2
## 1738        2985       77             9600      0           0            2
## 1744        1454       27            30300      1           0            1
## 1750        3376       59            15700      1           0           11
## 1754        3556       64            14800      1           0            0
## 1762        2075       76             6500      1           2            4
## 1809        1590       39            26800      0           2            1
## 1811        4879       37            31700      1           1            0
## 1819        2115       66            40300      0           1            0
## 1880        8223       81            13700      3           0            1
## 1881         549       64             8200      0           0            1
## 1894        1204       40            12500      3           0            3
## 1900        1661       30            30900      0           0            0
## 1915        1904       68            18800      1           4            1
## 1919        2323       85            10400      7           1            7
## 1942         633       34            13400      0           0            0
## 1943        7615       56            42000      2           1            3
## 1958        2582       33            43100      9           0           18
## 1991        2227       60            29400      2           3            2
## 1994        2513       57            10600      7           1            9
## 1997        2224       23            54500      1           0            5
## 2001        3106       53            48000      2           0            7
## 2013        8468       41            71200      1           0            2
## 2015         986       68             7300      3           1            3
## 2018        1224       42            31600      3           1            4
## 2050        5844       33            37500      3           2            1
## 2074        3243       67             8700      1           0            4
## 2077        1938       52            32100      3           4            1
## 2092         529       58            17100      0           1            0
## 2161        8549       60            25200      0           1            3
## 2165        3792       66            11100      0           3            2
## 2170        1895       58            27000      1           0            1
## 2171        6249       65            14000      3          10            0
## 2172        5750       42            47800      1          12            1
## 2192       22049       75            47800      0           0            1
## 2194       11584       58            22600      3           0            0
## 2196         220       74            54600      2           4            0
## 2248        5575       28            27600      0           0            0
## 2253        3786       82            78300      2           4            1
## 2254        4057       27            56800      0           1            0
## 2257         175       26            26800      2           0            2
## 2263        1965       65             4300      0           0            4
## 2277        7619       85            39000      2           1            1
## 2289        5502       26            63300      0           0            2
## 2303        4390       35            29100      2           2            2
## 2312           0       32             9400      4           0            5
## 2318        2896       17            56800      0           0            3
## 2320         119       20             9000      2           1            3
## 2326         643       69            15500      2           0            1
## 2328        2376       43            27300      1           0            1
## 2341        1250       57             3300      0           0            1
## 2348        2328       60            45700      2           2            5
## 2370          28       13            29100      3           0            4
```

```
## 2376        9392       98            35300      0           0            2
## 2382        5670       55            32300      6           3            9
## 2385        4882       67            15700      1           0            1
## 2406        9971       53            40700      0           0            0
## 2409        5837       62            19500      1          22            2
## 2421        5796       77            21700      6           0            8
## 2456         746       89            12900      7           7            8
## 2462        4159       51            21200      1           2            2
## 2476        5832       40            40600      0           2            0
## 2481        7349       50            39200      0           0            0
## 2488       14326       78            59500      1           0            0
## 2496        5977       48            25500      2           5            3
## 2520        5733       50            15900      2           0            5
## 2531       13441       15            73000      1           0            0
## 2541       13412       46            21200      0           4            1
## 2544        1621       62            12600      2           1            2
## 2563        8134       71            42700      1           1            3
## 2568        2847       56            20000      2           8            1
## 2580       10776       73            18800      0           0            1
## 2599        3886       82            20100      0           1            2
## 2600       14829       74            25600      0           3            1
## 2602        5229       90            13000      1           3            2
## 2605        9310       58            49400      1           0            0
## 2615        7385       39            29200      4           2            5
## 2620           0       67            24100      1           1            0
## 2623        6526       30            32700      3           0            0
## 2651         944      107             7800      2           0            6
## 2655        1039       34            16200      0           1            2
## 2659        4045       79            14500      4           0            7
## 2660        3294       55            51200      1           0            1
## 2663        1449       52            21300      3           0            1
## 2667         866       74            12300      1           2            2
## 2672        1039       79             5300      1           2            3
## 2677        2775       39            27000      1           0            2
## 2690         349       25             5100      4           2           10
## 2695        4636       52            67300      3           1            2
## 2702        3791       63            19200      0           2            3
## 2710        9271       64            32000      0           0            1
## 2738        3921       71            22100      0           0            1
## 2742        7365       62            51300      2          10            2
## 2745        1782       75            12700      0           8            0
## 2773         266       76             1500      1          24            2
## 2787          33       64            35000      1           6            2
## 2792        8467       32            52000      2           3            0
## 2803        1310       45            38800      1           2            2
## 2813        2506       36            43100      1           0            0
## 2817       11963       49            45400      1           2            0
## 2819        6282       94            14400      0           3            1
## 2832        2534       17            44500      0           0            2
## 2857        5554       53            46700      0           0            2
## 2860        2353       71            10700      3           0            2
## 2865        7481       84             8400      1           7            2
## 2875        1265       42            11300      4           0            9
## 2880         312       49              500      0           0            1
## 2894       19759       84            39200      1           0            1
## 2899         438       78             6000      2           2            5
## 2912        6394       46            34100      1           0            3
## 2927        8072       54            92600      0           0            1
## 2933        4395       29            41200      0           0            0
## 2947         737       80             3500      1           0            5
## 2951        9253       82            29100      3           0            2
## 2957        5806       66            15600      0           0            1
## 2961       11559       53            46400      0           0            1
## 2968        4121       46            32500      1           8            2
## 2971       10279       67            42900      1           0            2
## 2995        6300       34            82700      1           1            8
## 3032        1562       73             8400      1           0            1
## 3036        3528       22            42400      0           0            1
## 3040        4671       63            23300      1           4            2
## 3053        3450       54            15500      2           2            2
## 3062        4515       79            19300      1           0            0
## 3067       11875       58            65300      2           0            1
## 3074        1120       52             7200      2           4            6
## 3092         583       34             6700      3           1            3
## 3102         668       56             9200      1           0            1
## 3119           0       35             6500      4           0            5
## 3123        2009       45            11700      1           0            2
## 3134        2928       41            12900      0           1            0
## 3141        2388       66            37200      1           2            3
## 3143        5763       75            21000      4           0           12
## 3173        1019       45            23100      2           1            5
## 3178       18775       89            34400      0           1            0
## 3186         330       52             3300      3           0            4
## 3204         203      109             1300      1           8            8
## 3210       14720       50            95100      0           0            3
## 3211        6197       69            17700      3           1            1
## 3218        1906       77            31500      0           0            0
## 3230        5004      103            10100      1           0            0
## 3251        6158       27            49500      3           0            7
## 3262       13495       56            42500      1           4            2
## 3269         918       64             3000      2           2            3
## 3271        5436       50            47600      0           4            2
## 3278        9950       33            71500      0           5            1
## 3282        1263       41            11000      1           0            3
## 3302        2719       62            10500      1           3            1
## 3318       12175       51            61000      1           0            1
## 3323        1855       51            36200      3           2            2
## 3367        1528       74             6200      1           0            5
```

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## 3376        205       39           50900      6           0           6
## 3392       1206       74           55500      1           0           3
## 3409       7079       66           62800      2           3           3
## 3416       9175       77           18300      0           1           0
## 3436       2479       40           35600      0           0           3
## 3441          0       31            6000      0           0           1
## 3472       1917       35           38700      2           1           2
## 3485       2074      105           31500      1           0           2
## 3492       5575       73           20600      3           0           2
## 3494       1315       45           14400      2           1           2
## 3501        981       75            4200      2           0           0
## 3506       2983       79            6800      0           5           2
## 3530      10504       25          119100      0           4           1
## 3565       7497       68           29900      2           0           1
## 3577       4823       66           23700      1           0           4
## 3613       2284       90            2600      4           0           4
## 3617       1148       65            9900      1           0           1
## 3639       9148       68           41600      0           1           0
## 3657       7045       39           91200      1          11           2
## 3668       4902       44           27800      0           0           2
## 3686       6242       53           28900      0           0           1
## 3698      12945       43           54800      0           4           4
## 3704       2059       79            5300      1           1           4
## 3707       6772       23           37100      0           0           1
## 3780       7257       79           92200      2           1           1
## 3790       4856       70           14300      3           0           2
## 3794       6683       82           13400     18           3          22
## 3796      22158       50           48300      0           2           2
## 3822       4971       75           23600      4           0           2
## 3825       6828       53           52300      2           0           3
## 3861         65       35           22600      0           7           0
## 3887       2321       70           15800      1           3           5
## 3921       1574       49           14400      1           5           4
## 3922       3946       20           32600      1           0           0
## 3926       5344       71           22900      8           1           3
## 3943       1481       50           29000      1           0           2
## 3954       1844       75           20800      0          15           3
## 3964       4195       31           48000      0           0           0
## 3976       2866       49           26800      2           1           2
## 3984        970       30           12700      3           0           8
## 4006       4606       72           17500      0           7           0
## 4010       1654       26           22700      2           0           4
## 4028       4542       90           11000      1           4           2
## 4043        575       21           51800      1           0           6
## 4045       5316       33           54400      0           2           2
## 4053        799       86           13400      0           0           1
## 4055       2586       66            9800      0           0           1
## 4057       3134       55           11000      2           1           1
## 4098      25059       45          133300      3           0           5
## 4100        687       38          181100      9           0           6
## 4113       1795       48           35100      0           1           6
## 4119       8717       22           53000      2           0           0
## 4136       5722       52           27900      3           1           6
## 4138       3068       87           24700      5           1           9
## 4150      10872       61           25600      1           0           0
## 4169       6960       69           33400      4           3           2
## 4173       9797       45           64000      0           9           2
## 4193       1598       34           14700      1           0           2
## 4198       6651       53           22900      1           0           0
## 4203       3235       71           32800      2           1           3
## 4211      13768       49           99100      2           0           5
## 4220       5881       69           15800      0           2           1
## 4229       4437       95           10300      1           2           0
## 4247       3944       46           16400      2           0           2
## 4273       2006       89            9100      0           0           0
## 4274       3149       50           43400      0           1           2
## 4284       6485       74           33900      2           0           3
## 4301       1380       84            8000     14           5          17
## 4325       2937       40           27400      0           2           5
## 4349      13477       48           70700      0           7           1
## 4350       8700       30           65500      3           6           5
## 4370       3655       46           24600      1           0           1
## 4372       5435       93           25400      1           1           2
## 4388       1062       14           10700      2           0           4
## 4390       1659       65           20900      1           6           1
## 4400       1877       70           13200      1           0           0
## 4401       4416       50           40300      1           0           2
## 4402       3364       63           31400      2           1           1
## 4418      23968       68          318900      1           0           1
## 4421       3856       26           48500      1           0           1
## 4431       1282      106            1500      1           4           0
## 4440        821       45           16700      4           3           1
## 4458        614       48            3500      0           1           1
## 4461       1135       82            8900      5           0          10
## 4469       1242       25           39200      1           0           3
## 4472       1453       74            3200      3           0           1
## 4479      18574       59           59900      2           2           7
## 4483        529       44           12500      0           3           3
## 4503       2174       29           22300      0           0           4
## 4519       5625       67           26500      2           5           2
## 4522       2037       42            9700      0           0           1
## 4525       2450       68           12500      3           4           5
## 4528       5529       76           68200      0           1           1
## 4538       4796       54           52400      1           4           3
## 4548       4667       52           31400      2           4           1
## 4554       3204       52           13600      0           0           1
## 4557       7360       63           35000      0           6           0
## 4569       4562       85            6300      1           0           2
```

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## 4576          8       43          5900      0          1          2
## 4590       5165       19         47300      4          0          4
## 4594       9843       52         35600      2          0          0
## 4604      18306       74         41400      2          0          1
## 4622       5894       48         20600      2          0          4
## 4626       2126       40          8400      0          0          2
## 4629        405       81         12000      5          1          9
## 4633       2633       43         23800      0          3          5
## 4646       2638       88          6800      2          1          5
## 4650       2053       71          9700      2          3          0
## 4660       4065       31         55900      1          0          1
## 4673       3000       86         15100      0          0          3
## 4684       5632       75         45600      1          0          1
## 4699       3800       66         26900      5          0          6
## 4720      10887       60         33000      1          0          1
## 4724       5320       38         39400      2          2          3
## 4728          0       51          4200      0          1          1
## 4751         51       64           500      0          0          4
## 4778      11303       58         30100      0          0          0
## 4812       6164       36         56900      3          2          2
## 4820       4519       60         16500      4          4          5
## 4835       2688       44         21300      2          5          3
## 4843       5381       25         38500      2          1          3
## 4876        282       30          3000      2          0          4
## 4882          0        8         71200      1          4          1
## 4895       3336       64         16100      3          0          9
## 4907       6085      105         18100      5          2          8
## 4912       6342       44         43000      1          0          0
## 4941       4200       43         38200      5          4          5
## 4952       4642       60         24300      3          0          5
## 4954       7127       50         41200      2          0          2
## 4956        677       64          6000      7          0          6
## 4957      12193       57         36600      2          2          3
## 4959       6161       46         37700      4          1          5
## 4960        705       15         37400      1         13          5
## 4987       4156       85         34000      0          0          2
## 5022          0       31          9700      0          0          3
## 5027       2967       55         13900      1          1          0
## 5029       4730       33         37300      1          7          2
## 5053       7047       38         63300      2          0          4
## 5054       7471       76         17200      2          0          3
## 5055       1988       28         21000      1          4          2
## 5066       4660       60         30200      3         10          5
## 5069        357       44         23300      5          1          3
## 5077       2356       34         27800      4          0          2
## 5091       8073       89         15000      1          0          0
## 5110       2570       71         20200      4          4          2
## 5114       3743       57         15200      0          0          2
## 5161       1356       78          6000      0          0          6
## 5215        208       41         12000      3          0          4
## 5216        513       46         19500      2          5          3
## 5219       4746       76         28700      2          4          3
## 5251       5836       31         21800      0          0          2
## 5254      14181       55        101600      7         13          3
## 5258       6468       39         27100      2          1          1
## 5269          0       25          8600      1          1          0
## 5277       1493       75         15700      0          0          4
## 5285       4670       95         14200      0          2          7
## 5291      44501       93        104000      0          0          0
## 5292        214       68          6400      3          0          6
## 5340       1768       75         21700      1         13          1
## 5341       2390       52         15900      2          0          3
## 5347       2584       52         24200      2          4          6
## 5373       6702       39         55400      1          7          0
## 5382      37410       14        254300      1          2          1
## 5394       7901       77         26200      4          2          1
## 5432        375       54         11600      1          0          3
## 5443       8465       32         56900      1          0          2
## 5445       4393       46         36700      0          0          1
## 5454       3890       61         41400      0          1          2
## 5464       1093       52         29300      2          0          2
## 5479       4538       69         21000      3          0          2
## 5503       6766       70         29900      0          2          1
## 5514       2515       60         34500      1          0          3
## 5517       1403       37         14300      2          0          4
## 5545       6583       34         89200      3          1          7
## 5549       9085       73         28200      2          1          1
## 5558       7708       62         45500      3          3          2
## 5569       9664       33         34600      1          0          1
## 5590      10615       71         23200      0          1          0
## 5592        875       78          7700      2          2          8
## 5608       6531       55         26500      1         11          1
## 5609       4473       49         31600      0          0          1
## 5611       2479       71         26200      1          4          2
## 5624       3655       29         21900      0          0          0
## 5651        436       13         44900      2          0          1
## 5673       5943       51         51900      1          1          0
## 5692       2604       60         28400      6          3          7
## 5694       2604       71         12000      4          4          4
## 5716       4116       43         36600      2          0          2
## 5736       1995       73         10500      2          0          1
## 5745        588       63          6100      2          0          2
## 5777       5231       46         22500      1          0          1
## 5789       7105       66         20500      3          0          1
## 5822       2414       79         11800      4          0          0
## 5831      10870       80         24600      2          0          2
## 5843        537       59          9800      1          9          1
## 5863       3479       18         70900      0          1          6
```

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## 5865          0       44          130000      0           2           1
## 5868       3143       34           22000      1           0           3
## 5870       2068       48           12400      0           6           1
## 5882      15986       64           23100      1           1           3
## 5883       1241       77           13400      2           1           5
## 5888       2768       61           15200      2           1           1
## 5899       5737       54           74500      2           4          11
## 5902       4961       51           35000      1           1           0
## 5903        499       83            6100      0           1           5
## 5904       9955       58           18500      2           0           2
## 5906       2856       24           62300      1           1           1
## 5907        418       28           37400      1           2           0
## 5932       3116       72            6100      0           4           2
## 5933       4867       47           37800      2           0           4
## 5940       1019       84           10800      3           5           2
## 5942       3635       63           14000      2           4           2
## 5946       3196       64            9000      1           0           1
## 5955       6825       16           48900      1           1           2
## 5967       8575       71          134300      4           0           8
## 5973       4081       53           26900      0           0           2
## 5989       6903       41           24500      1           0           0
## 5999         49       56             700      9           1           5
## 6004      10707       70           16000      0           0           0
## 6024       8002       64           57900      1           0           4
## 6037        432       86            1600      0           0           2
## 6038       3434       41           23600      2           0           1
## 6041       1337       35           33800      2           6           3
## 6047        581       34            7100      1           0           1
## 6048       1793       37           39300      3           0           2
## 6052       4078       39           27300      1           0           1
## 6087       2086       59           31800      3           2           6
## 6102       4956       80           13600      1           5           4
## 6132        260       65           15600      1           0           2
## 6139        305       59            7400      1           0           1
## 6147       2981       65           12300      2           0           1
## 6154        232       14           54400      1           0           1
## 6155      13114       70           41400      3           2           2
## 6156      15300       42           61800      2           1           2
## 6181       1714       66           16800      2           0           2
## 6186        255       64            8500      0           0           1
## 6214       5734       60           29100      3           1           2
## 6217       6027       30           26200      0           0           2
## 6228       4476       76           17800      1           0           4
## 6232       2026       54           23400      6           1           2
## 6243       6690      105           30400      0           0           2
## 6248       6720       78           64000      0           4           0
## 6270       1115       94            9300      2           0           3
## 6274       4129       25           45700      0           2           3
## 6284       4437       61           18000      1           0           0
## 6309      29540       71           89200      3           1           8
## 6310      16051       73           30000      3           0           7
## 6317        152       37            6500      3           1           5
## 6361        475       59            8300      2           1           2
## 6366       6710       42           10600      1           2           3
## 6370          0       88            2800      3           0           6
## 6393       5829       50           44900      1           1           3
## 6429       5404       43           35000      1           1           0
## 6448       4463       78           15700      0           9           3
## 6469        408       41            3400      0           0           2
## 6481       5498       69           24000      1           0           0
## 6485      24815       67           73000      1           0           2
## 6492       3242       85            7300      0           0           3
## 6493       1976       54           46700      3           3           7
## 6499        912       20           27900      2           2           0
## 6500       1908       26           39800      1           1           4
## 6510       2332       68           25800      2           5           4
## 6522        152       39            3600      1           1           1
## 6528      20195       73           41500      1           0           1
## 6536       8147       52           18500      1           2           4
## 6550       4298       44           25700      2           0           2
## 6555       3270       37           56900      1           2           0
## 6559         93       22           15100      6           0           4
## 6591        183       51           12300      1           0           1
## 6641      16662       75           74800      0           0           2
## 6644       8551       37           73400      0           0           2
## 6646       3863       79           12900      4           2           3
## 6648       5696       61           34500      2           2          13
## 6682       7335       85           39500      0           3           1
## 6699       6063       61           15300      0           0           0
## 6700       3690       84            8800      1           3           0
## 6704       1670       84            5300      1           1           2
## 6716       2488       70           16000      1           8           2
## 6719       1558       60           29800      2          12          10
## 6724       2016       44           23600      1           3           1
## 6737       5878       47          102500      2           8           3
## 6795       3273       57           15800      0           0           1
## 6813       3954       32          121100      0           0           4
## 6826        453       52            3000      2           0           1
## 6842       2149       70            9900      4           0           8
## 6852       3616       27           19200      0           0           1
## 6856       1222       52            6900      2           0           3
## 6866       2579       62           17000      7           0          16
## 6875       5128       57           51700      0           8           2
## 6901       1785       44           27000      3           1          11
## 6944        239       39           21200      0           0           3
## 6952       2979       70           11200      1           1           4
## 6968       5812       54           34100      0           0           2
## 6980      11535       51           67500      1           0           0
```

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## 6991        754       80            1800      4           1           5
## 6992       4361       44           75200      0           2           1
## 7041      15914       74           25700     12           0          15
## 7046       7617       49           49300      3           3           4
## 7055       9020       39           98400      2           1           0
## 7070      11413       56           28000      0           3           1
## 7078       3000       57           31500      2           3           7
## 7083       2944       83           24800      1           2           5
## 7092       1649       63            5900      2           0           2
## 7093       4009       75           16900      0           5           3
## 7113       1506       67            9400      2           2           4
## 7128       1869       72            9100      2           0           3
## 7140       4598       88           13500      2           0           4
## 7154       1866       21           54200      1           0           1
## 7157       3811       64           15600      1           0           4
## 7170       4776       54           35600      4           0           4
## 7175          0        9           21900      1           4           5
## 7181      24943       80           81800      2           3           3
## 7194       3477       84            9500      4           2           7
## 7200       5572       90           11100      4           0           3
## 7205        924       46           11500      4          13           1
## 7209       8971       56           71900      2           0           4
## 7210       3050       54           27500      0           0           5
## 7211       6700       54           83500      1           9           3
## 7212       1230       44           35700      2           8           5
## 7246       5582       57           58000      2           1           2
## 7248        406       61            2600      1           0           6
## 7260       5110       70           16700      0           0           4
## 7264       4740       45           37700      2           3           2
## 7277       4477       74           14800      1           0           1
## 7283       3161       62           12200      0           5           2
## 7286       4056       41           18800      0           0           1
## 7300          0       18           12500      1           0           1
## 7332       2066       43           13400      2           1           0
## 7348       1167       57           12800      0           4           3
## 7350        181       41           21600      0           6           0
## 7356       1335       67           10000      1          11           2
## 7367        119       67            5300      1           0           6
## 7368       2501       18           60100      0           0           1
## 7369       5177       56           18600      2           6           4
## 7370       1890       56           24500      3           6           2
## 7376       3178       29           51600      5           0           5
## 7379       1625       52            6300      2           0           2
## 7388      10558       58          119300      2           5           3
## 7395        379       66            1400      0           0           4
## 7398       4732       42           53300      1           0           4
## 7457      10132      119          141500      0           0           3
## 7471      21126       75           72800      3           0           1
## 7482       9849       54           43100      5          10           6
## 7507       1251       66            9500      4           0           4
## 7514       2336       70           18100      1           0           2
## 7519       2111       61           24000      1           6           2
## 7525        502       59           20400      4           0           1
## 7527        330       31             500      2           1           1
## 7537       1023       43           46100      3           1           2
## 7542       7345       96           18900      0           0           2
## 7561       2226       72           10000      1           2           3
## 7569      13011       69           41000      0           4           3
## 7576        150       48           12500      1           0           2
## 7639       4691       72           28600      2           4           4
## 7640       5801       44           34100      0           1           3
## 7650       4002       74           18600      4           0           1
## 7652        600       31           63000      0           0           4
## 7672       2592       22           29400      1           0           2
## 7673       9074       88           20400      4           1           5
## 7674       7008       50          171800      0           1           3
## 7681       1684       39           20600      1           0           2
## 7683       2198       80            3800      0           2           1
## 7685        553       48           27100      1           0           1
## 7702       4938       59           23500      1           0           0
## 7716       4938       55           11700      0           0           0
## 7717       1986       27           58000      0           0           4
## 7721       7899       73           41800      1           1           1
## 7726       5884       51           30000      6           0           8
## 7760       7174       71           34700      0           3           4
## 7766       2084       41           49800      1           0           4
## 7793       3080       51           26200      1           2           0
## 7802       8986       55          103200      1           2           3
## 7826       3598       58           27800      2           3           1
## 7846        369       50           22300      0           0           0
## 7866      12052       64           23900      0           0           1
## 7883       5080       59           29000      1           0           0
## 7885       9446       32           50300      1           1           2
## 7911      21943       75           33500      1           0           1
## 7917       4205       76           16000      1           0           1
## 7919       4476       71           26000      0           0           5
## 7922        425       64            9700      0           5           2
## 7928       6097       45           68100      2           0           0
## 7939        351       49            5300      3           0           4
## 7941          0       63           19900      4          15           3
## 7947       6252       45           50000      1           0           4
## 7955        988       55            9000      0           2           0
## 7968       4447       53           36000      0           1           1
## 7969       3714       37           37000      0           0           7
## 7974       1691       14           82400      0           0           1
## 7982       1495       55           18600      0           2           0
## 7995       2159       36           33600      0           5           4
## 8000       1690       70            8000      0           9           3
```

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## 8005       1555       74          15000     4          2          8
## 8007       7508       74          20600     1          4          6
## 8019       8055       76          18100     0          2          2
## 8021       6524       70           7500     0          0          1
## 8039          0       29          16800     8          1          6
## 8055       1459      135          26800     0          2          2
## 8061       6146       59          79600     3         15          2
## 8066       1515       22          19100     0          0          1
## 8093       1709       74          12500     5          3          7
## 8095       9733       66          54300     0          1          1
## 8100       1306       59          27000     3          2         10
## 8142        641       21           6700     0          0         14
## 8149       3451       71          14000     1          1          1
## 8152       2310       95          36700     1          2          1
## 8156        141       66          17200     0          0          2
## 8165       7292       40          82200     2          2          7
## 8201       6545       52          64400     6          1          7
## 8203       2025       71          14200     1          3          2
## 8209       1816       60          10100     6          1         14
## 8224       7799       50          69200     0          0          3
## 8246      10470       53          38500     6          4          1
## 8256       5365       74          12000     3          3          3
## 8267       5208       72          15200     0          1          0
## 8272       6262       54          15700     1          1          0
## 8284       7149       61          29800     0          0          1
## 8295       1291       73           7400     1         11          3
## 8316       2742       75          18000     2          2          2
## 8336       1180       39          37600     3          0          4
## 8355      19916       92          52900     4          0         10
## 8360      10303       44          86300     2          3          5
## 8364       4383       27          68200     1          7          8
## 8379       5473       74          35500     3          4          3
## 8391       4940       63          14800     1          0          2
## 8392         92       90          29100     0          0          1
## 8396        421       32          54200     5         11          5
## 8437       7158       87          24100     0          0          0
## 8459       1463       40           3700     1          0          1
## 8462       3980       50          17800     0          5          1
## 8477        945       84          10200     2          1          7
## 8482        270       73           8900     2          1          5
## 8490       9471       56          47000     3          2          5
## 8491       5787       69          37100     7          0          1
## 8496       9739       49          70900     3          1          5
## 8498       4713       80          24600     4          4          4
## 8516      19178       87          69600     1          4          0
## 8518        590       31          16800     0          1          2
## 8522       3996       39          33900     1          3          3
## 8526      22583       82          34100     5          0          3
## 8529        683       69           2400     1          0          2
## 8537       1621       71          16500     1          0          3
## 8552       3947       93          29600     3          0          5
## 8585       1393       78          20000     1          0          4
## 8602       4350       53          26400     2          0          1
## 8627       1304       87          16500     3         15         11
## 8647       3766       46          24000     3          2          6
## 8674       2847       39          17000     4          0         10
## 8709       1310       53          17000     4          2          8
## 8711       1074       81           9500     3          1          6
## 8712         35       49          13500     1          4          0
## 8721        797       60          21900     0          3          3
## 8735       1860      100          11100     0          4          0
## 8767       2151       56          29100     2          6          6
## 8783          9       74           4400     6          0          5
## 8795       3894       37          47700     7          1          8
## 8804       2761       58          44800     3          6          9
## 8824       6232       56          53200     2          4          6
## 8835       2145       67          38300     0          0          2
## 8862       3956       79          19600     5          5          1
## 8864       4567       65          16400     1          4          2
## 8890       7206       81          28100     3          0          2
## 8895        378       86          19500     1         15          3
## 8906      21605       38         101700     1          0          1
## 8944       7858       30          20800     1          0          2
## 8946       6306       26          78500     2          0          0
## 8953       2187       57          11200     1          1          1
## 8963       3617       60          38500     1          0          2
## 8966       3622       42          70700     0          1          2
## 8977       7192       29          92400     3          3          2
## 9042        996       51          38400     1          4          4
## 9047       6662       76          53100     2          0          3
## 9048       6638       50          24000     3          1          3
## 9056      12564       65          66300     3          3          4
## 9057       1451       29          49100     1          3          2
## 9058       7889       67          44700     0          5          1
## 9083       3068       67          25300     2          1          4
## 9091       9830       57          33900     0          3          6
## 9096       2219       44          60600     2          0          3
## 9098       6241       51          48400     6          4         10
## 9101      15795       69          73700     2          2          4
## 9103       1053       58          14300     8          0         22
## 9140       4378       55          12800     2          0          2
## 9154      12007       27         234000     1          0          1
## 9160      12856       58          41300     2          0          7
## 9163      10412       83          16300     1          0          3
## 9202       4032       64          11300     0          0          1
## 9240       8295       52          74000     2          3          2
## 9243       9000       58          47800     6          5          5
## 9245          0       43          11300     0          3          2
```

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## 9254        8013       75            12400      0           2            3
## 9286        1409       47            11800      1           0            2
## 9294        3993       51            12300      1           0            1
## 9321        5136       36            31500      1           1            0
## 9336         707       61             8000      6          17            4
## 9380       12765       66            59700      2           8            1
## 9383       14266       54            24700      1           0            0
## 9388        3053       37            31800      0           1            3
## 9413        6648       33            62000      1           1            2
## 9431        3517       77            20500      4           0            5
## 9432        6419       68            29900      0           1            1
## 9444        1730       61            10300      2           1            1
## 9459        1661       18            37000      1           2            4
## 9464        8599       98            38300      1           0            2
## 9474        3259       37            18800      5           0            2
## 9481        7156       69            15200      3           0            3
## 9497        2908       40            36100      2           0            2
## 9499        4881       41            46300      1           4            1
## 9503        8219       53            13200      1           0            0
## 9506        5832       65            23800      1           4            4
## 9509        8673       33            19100      0           1            1
## 9522        5547       67            61700      3           4            2
## 9546       24654       69            95000      0           8            3
## 9559          13       43            13000      1           2            5
## 9573        1155       81             8500      1          14            5
## 9610        6591       46            48500      1           0            0
## 9614        2367      112            13400      3          16            1
## 9627        3885       37            44700      1           1            0
## 9628        4810       60            14700      2           1            6
## 9629        1585       49            15100      2          11            8
## 9652       10616       51            99800      1           1            5
## 9677        5568       64            17500      1           1            1
## 9681        6962       37            41600      2           2            0
## 9690         598       31            66800      5           0            5
## 9697        5709       64            17300      1           0            0
## 9701        3402       69             7000      1           0            1
## 9705        4894       80             6200      0           0            4
## 9714       11137       48            45200      1           3            4
## 9718        9116       52            14400      0           5            0
## 9722        1407       58            17500      2           5            5
## 9748        1320       48            26700      2           1            2
## 9751        9686       78            29200      7           0           14
## 9753         595       53             4500      1           0            2
## 9773         748       94            25700      1           0            1
## 9783        2859       76            55700      2           2            1
## 9786        5332       35            48500      1           0            0
## 9796       10445       74            67000      0           6            2
## 9811        2329       53            26100      1           3            1
## 9816        8129       37           106200      1           2            4
## 9817       25110       84            36500      0           8            0
## 9820        1277       31            38800      0           0            2
## 9834        2055       47            28600      2           0            4
## 9843        5349       55           123000      1           5            2
## 9872        5823       48            47500      2           0            6
## 9882        2230       31            38100      4           1            5
## 9898        7930       33           147600      0           7            5
## 9904        1786       52            43100      1           3            5
## 9924        3817      131            15800      0           0            1
## 9943        4142       50            54300      0           5            2
## 9945       11259       84            42700      1           9            4
## 9983       15992       77            20700      2           5            0
## 9988        1333       49            17300      0           7            4
## 10024       3398       75             6700      3           1            1
## 10033       6754       39            43500      2           1            5
## 10058        758       73            13800      1           1            4
## 10062       2214       76             9600      2           1            6
## 10078      13713       39            34400      0           1            1
## 10088        411       35            67800      2           4            4
## 10096       1682       65            17000      1           0            2
## 10110       8304       82            43100      1           0            3
## 10166       1751      104            19900      4           4            8
## 10167       5687       80            34300      1           0            1
## 10192       1144       75            14200      3           0            8
## 10195       7174       41            32500      1           0            1
##       acc_open_past_24mths avg_cur_bal bc_open_to_buy bc_util
## 4                        2       41891           4974    72.8
## 7                        7       13364          68267     3.0
## 9                        4        2616          40871    30.0
## 14                       6        7925           3096    78.6
## 23                      14        3540          18520    23.5
## 34                       6        3740          64796    29.1
## 40                       3        2516          23932    24.0
## 49                       6        7977          15729    22.1
## 50                       3        8775          32463    21.0
## 51                       4        5299          30500     1.0
## 68                       8        4173         117808     9.3
## 82                       4        1510           9485     0.2
## 115                      2        5092            701    69.5
## 140                      1        4844          14720    66.8
## 158                      8        6192          51345    39.6
## 162                      5        2733            378    81.1
## 167                      8       13466           5306    66.2
## 182                      5       11518           2794    22.4
## 186                      3        5941          11602    47.3
## 200                      2       46588              0   100.2
## 239                      4        8583          13700     0.0
## 249                      4        3341           1993    80.7
## 261                      2       12712             81    91.9
```

```
## 273          2       4019       26667     0.1
## 276         16       5720       20869    47.2
## 345          7      11158        1416    77.5
## 369         11      10303       52751    25.9
## 379          7      15357       25641    33.2
## 389          7      26038           0   102.6
## 395          5      23202       24331    13.7
## 403          2      41146       15390    21.1
## 408          9       5837       26678    31.6
## 411         12      29419       17000     0.0
## 426          8      21466       38476    24.1
## 438          6       1302        8919    52.6
## 441         11      20938        2833    56.4
## 443          5      23518        4160    44.5
## 468          2       2690       11789    25.4
## 469          3       3895        5016    83.0
## 480          9       1508       18777    16.2
## 482          6      39160        7964    21.1
## 483          2      47227        5904    76.3
## 513          5       2903        4000     0.0
## 566          8       5893        9781    50.1
## 569          2      21468       11076    42.6
## 587          5      11009       25953    30.2
## 597         12       3816       20986    46.1
## 605         12       7798        9707    29.1
## 627          2      28385          63    99.8
## 644          5       1817        4103    36.9
## 677          2       4310        1713    14.4
## 687          9       3351        1447    86.8
## 708          8       2913        3603    24.9
## 718         13       7773       13927    34.3
## 721          6       5946         800     0.0
## 743          2       5384        2563    86.9
## 744          7      43017        1022    90.8
## 745          5      19939        1061    90.9
## 758          3      19454        5472     0.5
## 777         12      18537       11834    53.4
## 802         11      27580       50103    47.9
## 818         15       1478       55728     1.4
## 832         10      10336       20583    29.3
## 856          1     180004        4070    69.4
## 857          5      51052       38343    49.7
## 858         11        623       26666     5.8
## 882          6        891       37623    20.6
## 883          3      18546        1592    36.3
## 889          4       5110       14263    25.3
## 903          7      22561       21642    42.9
## 907          4       3102        3468    68.8
## 915         11      29622        4218    79.5
## 920          5      61579        1550    85.8
## 939          8       1549        4265    11.1
## 954          6       5222         871    84.4
## 969          1       7562        5954    70.2
## 1002         3       8105       19391    30.2
## 1015         5       1951       35224    23.8
## 1024         3     102275        2756    23.4
## 1029         8       5655       30109     6.5
## 1031         6       3600         398    84.1
## 1053         3      19247       15672    73.3
## 1057         5       4509       12693    55.6
## 1080         6      19997       21265    35.6
## 1108         3      43715        8288    90.0
## 1109         2       3709         272    45.6
## 1110         7       1494       11286     5.2
## 1112         3       2771        2992    78.3
## 1115         4      13718       17866     6.9
## 1121        17      13043       31079    35.3
## 1122         2      11827       37589    16.8
## 1139         3      20931         487    95.4
## 1163         5      14540         717    94.7
## 1181        13       2529       47204    33.3
## 1187         7      28637       18018    48.5
## 1194         5       2020       35546    14.3
## 1197         7       3479       14526    59.2
## 1209         5       5139       12958    31.4
## 1224         7       2369        6425    56.0
## 1257         3      12247         543    93.3
## 1262         7       3972       40470    23.2
## 1275         8       4676        4838    60.3
## 1336         1       8790       24875    42.0
## 1343         5      31385        2000     0.0
## 1346         9       5330       12497    18.3
## 1347         3       4318       11444     6.2
## 1379        10       3016      137584     9.8
## 1418         9       4282         615    90.5
## 1425        12       8659       10084    49.6
## 1450         1       7768        1780    46.1
## 1451        10       9539        3674    36.7
## 1452         7      21158      117202     3.1
## 1465         6       3924       38006     9.5
## 1468         4       2468        1563    76.0
## 1478         7      14829       17226    18.0
## 1479         2       7921        1021    67.1
## 1500         4       9593       43600     0.0
## 1509         1      54283         708    93.4
## 1524         2       3830         553    93.5
## 1533         8      57147       31008     7.4
## 1534         1     136530       13071    28.2
```

```
## 1537          3       3710       35723   40.9
## 1548          3       3081        2400   73.6
## 1566          5       4372         571   89.8
## 1575          6       2146        1000    0.0
## 1620          2       2922        9863   66.1
## 1632          1       2042         971   85.3
## 1661          6       5559        4782   73.7
## 1666         13      13435       71480   35.5
## 1679          4      16366       11948   17.6
## 1686         12      23244       16221   67.5
## 1688          5       3005       17755   36.4
## 1726          5      14237         391   87.0
## 1738          5       2649        1091   87.9
## 1744          9       1029       26186   13.6
## 1750          6       8532        4643   60.0
## 1754          3       3251        5203   63.6
## 1762          9      51551        3806   36.6
## 1809          8       8797        2610   37.9
## 1811          2       4405       22337   29.5
## 1819          2       6032       24575   21.5
## 1880          1       4710        3010   78.0
## 1881          3      22473        4439   11.2
## 1894          8      29435        2296   34.4
## 1900          5       1325       23622    8.1
## 1915          7       5397        2677   56.1
## 1919          8       3580        1816   69.2
## 1942          4       1717        8913   11.8
## 1943          7      37458       29276   30.3
## 1958         18       5491       10518   42.2
## 1991          4      12956       15260   38.2
## 1994          6       9259        4633   42.8
## 1997          4      59332       50176    4.2
## 2001          5      16346       36195   16.0
## 2013          6       5100       56401   19.1
## 2015          3      24764        1414   41.1
## 2018          7       4798       21776    5.3
## 2050          6      13655       13456   30.3
## 2074          5      25325        3158   63.7
## 2077         19       4264       11665   34.1
## 2092          4       2373        7871   18.9
## 2161          4       5116       14704   41.7
## 2165          7       4503         819   90.3
## 2170          5      16541         134   95.5
## 2171          3      22937         828   90.9
## 2172          4       5405       28550   16.8
## 2192          2      53023        6138   81.8
## 2194          4       8803        4152   73.9
## 2196         11       3045        3280    6.3
## 2248          1       2009       15422   31.5
## 2253          7       5385        7458   45.2
## 2254          4       4657       35519   18.9
## 2257          5       1217        9945    4.3
## 2263          4      28928         320   92.6
## 2277          4       5270       28697   26.4
## 2289          7       1340       49030   20.8
## 2303          6      14942       14898   29.1
## 2312         12      36958        2000    0.0
## 2318          1      12976       46735    6.0
## 2320          2       1847        6881    1.7
## 2326          3       2398       14434    6.9
## 2328          3       3529       21752   14.7
## 2341          3       1194         583   70.8
## 2348          8       4467       21460   34.8
## 2370          5      13754       11772    0.2
## 2376          4      30389         572   97.9
## 2382         10       1834        9301   30.3
## 2385          3       5260         983   86.0
## 2406          4       3541       25840   34.4
## 2409          7      21801        2760   80.3
## 2421          7       6920        2838   75.7
## 2456          7       5610        8907    8.2
## 2462          5       1090        2844   73.4
## 2476          3       8477       29768   16.4
## 2481          2       7760        8965   61.9
## 2488          6      12935        8846   80.1
## 2496          7       3792        4547   68.4
## 2520          6      37732        1822   87.3
## 2531          1      37978       58782    2.2
## 2541          2       4730        4588   74.5
## 2544          7       1981        4699   46.6
## 2563          8      39493       23946   43.9
## 2568         12       2570         943   85.5
## 2580          2      19358        3557   81.1
## 2599          6      22976        7453   49.0
## 2600          4       4647        5575   76.6
## 2602          5      50434         137   98.9
## 2605          4       7024       27550   40.9
## 2615          4       6659       21209   27.4
## 2620          2      13544         500    0.0
## 2623          4       1907       23842   24.6
## 2651          6       5415        4044   19.1
## 2655          7       6954        7552   18.8
## 2659          5      25401        2325   66.8
## 2660          8       9016       18498   33.2
## 2663          9       2375       15327   13.9
## 2667          8      26696        6866   15.2
## 2672          4       6184        3461   23.1
## 2677          4       2345       19326   23.0
```

```
## 2690                 8        4792          4135     8.1
## 2695                 5       13806         12401    46.8
## 2702                10        6717          6488    39.9
## 2710                 1       45922          6552    79.5
## 2738                 2       17076         13952    33.6
## 2742                 9       15006         27695    35.6
## 2745                 9        5574           680    82.6
## 2773                 8       44954          1234    17.7
## 2787                10       27312         21454     0.2
## 2792                 5        4932         41692    17.4
## 2803                11        1868         21419    17.3
## 2813                 2        6909         27383    17.8
## 2817                 4       18906          5862    86.4
## 2819                 7        6501          1916    77.5
## 2832                 7       14989         17321    13.0
## 2857                11        7048         13937    29.3
## 2860                 3        1260          1765    76.5
## 2865                 1        3111            19    99.7
## 2875                 3        1118          5837    33.7
## 2880                 1        3818           188    62.4
## 2894                 3       14251          3517    89.8
## 2899                 9       16351          3680    18.2
## 2912                 4        2250         18539    40.4
## 2927                 5        6508         57409    29.9
## 2933                 2       49401         36801    10.7
## 2947                 5        4877           263    73.7
## 2951                 7       82919          4560    82.5
## 2957                 0        3619          5549    64.4
## 2961                 5       18383         12707    61.3
## 2968                 5        2510         13739    55.1
## 2971                 7       20034         19719    49.4
## 2995                 4       11879         57634    19.1
## 3032                 4       10256          3266    38.4
## 3036                 4         985         22241    25.4
## 3040                 2        3251         12043    42.4
## 3053                 8        1435          5888    46.5
## 3062                 2        1485          3471    82.0
## 3067                 6       16502         21197    55.9
## 3074                 7       41341           880    56.0
## 3092                 4        2565          5567    10.2
## 3102                 3        1292          7232     8.5
## 3119                 4       39322          6500     0.0
## 3123                 2        1495          1939    71.5
## 3134                 8        1075          2692    66.3
## 3141                12        8822          4605    58.1
## 3143                11        4074          5417    65.9
## 3173                 2        7938          5508    20.2
## 3178                 1       97376          3557    89.7
## 3186                 3        1966          2970    10.0
## 3204                 5       73427          1032    20.6
## 3210                 1       17870         47847    48.9
## 3211                 3        4792          7286    52.1
## 3218                 8        3435         17770    11.2
## 3230                 3        5807          2706    69.9
## 3251                 5        1790         34436    21.9
## 3262                 5       36233         16510    52.6
## 3269                 2       87619          2082    30.6
## 3271                 4       29922         22088    21.4
## 3278                 7       33060         47657    23.1
## 3282                 3        2197          2359    37.9
## 3302                 2        3368          2756    49.9
## 3318                 5       13329         18053    62.8
## 3323                15       17067         10693    32.3
## 3367                 3       21288          2195    53.3
## 3376                13        2640         40387     1.3
## 3392                 5       38490          4422    26.3
## 3409                17       14643         25185    45.6
## 3416                 7        2484          5010    67.5
## 3436                 5        3655         13864    47.9
## 3441                 2       45539          6000     0.0
## 3472                 6        1230          8348    34.8
## 3485                 6       14073           244    94.3
## 3492                 9        3091           537    94.8
## 3494                 5        1908          5112    30.0
## 3501                 4        1224           475    76.3
## 3506                 2       36035           435    93.1
## 3530                 2        3618         70355    22.8
## 3565                 1       39512          2816    83.1
## 3577                 9        1968         10970    47.0
## 3613                 5       38103           316    87.8
## 3617                 6       63159          8752    11.6
## 3639                 5       24576         10846    66.6
## 3657                14        8510         24148    32.9
## 3668                 4       39592         11932    44.5
## 3686                 1       21077          3586    82.5
## 3698                 9        2397         17118    47.7
## 3704                 0        7243            41    98.0
## 3707                 3        1288         13728    33.0
## 3780                 6       21537          2157    88.5
## 3790                 4       52192          8573    40.0
## 3794                 6       67167          3948    69.2
## 3796                 2       40147         25184    47.9
## 3822                 5       27030         13268    37.1
## 3825                 7       20943         38934    25.6
## 3861                 5        1619          9535     0.7
## 3887                 6       15962          1266    82.2
## 3921                 9        2990         12035    14.0
## 3922                 4         933         13948    25.4
```

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## 3926                5        5123         13192    39.5
## 3943                9        1956         19340    12.1
## 3954                6       15164          3696    57.0
## 3964                4        7866         21151    35.9
## 3976                2        1962          4696    67.4
## 3984                3        9391          7344    19.3
## 4006                6        8901          1683    80.7
## 4010                4        1648         20811     8.3
## 4028                5       19880          5558    45.0
## 4043               11         822         20165     4.0
## 4045                3        2631         35895    20.1
## 4053                1       12703          1067    67.7
## 4055                2       26112             0   103.4
## 4057                4        2299          5366    36.9
## 4098                7       23827         70791    42.4
## 4100                2       29672          1913    26.4
## 4113                9       27038          5265    46.8
## 4119               10        7653         23043    28.7
## 4136               13       10525          3324    73.6
## 4138               12        4024          5545    63.8
## 4150                5       41085          5198    74.0
## 4169                8       34327         12254    61.1
## 4173               15       10374         16336    58.5
## 4193                4         559          6778    31.5
## 4198                6        1994          5225    62.1
## 4203                6        5685          7312    50.3
## 4211                9       23535         42519    43.2
## 4220                2        3967          4959    64.6
## 4229               11       11422          4128    58.7
## 4247                5        1196          8929    42.8
## 4273                3       17936          6594    23.3
## 4274               10       10132         20266    17.3
## 4284                6        3006         12054    60.6
## 4301               12        2818           896    71.1
## 4325               10       21806          6153    46.5
## 4349                4        5169         22493    47.0
## 4350               11       15501         33937    21.3
## 4370                5       18665          8689    45.0
## 4372                3        4985          7667    62.4
## 4388                3       20195          6238    14.5
## 4390                9       31691         12109    31.6
## 4400                8       14579          6110    31.3
## 4401                3        3333         18290    47.4
## 4402               12        2572           933    89.5
## 4418                2       87180          7700    88.8
## 4421                1        6119         33200    17.6
## 4431                2       15630           218    85.5
## 4440                6        2289          7779     9.5
## 4458                2        1813          2386    20.5
## 4461               10        5427          1565    42.0
## 4469               14         795         31682     4.9
## 4472                3       17298           547    72.7
## 4479                8       33832         21387    61.7
## 4483                2        8466         11971     4.2
## 4503                4       36495          9984    24.4
## 4519                7       21865          9427    63.0
## 4522                5        1483          3763    35.1
## 4525                8       16095          2263    67.7
## 4528                5        6715          1491    86.9
## 4538               10       24199          7204    40.0
## 4548                3       38311         16921    34.2
## 4554                6       28360            96    97.1
## 4557                5       21685          2681    82.1
## 4569                4        4538           249    96.0
## 4576                1        2854          2191     0.4
## 4590                6       27296         31494    16.0
## 4594                3        6783          2085    93.2
## 4604                1       21774          7229    81.7
## 4622                4        3421          7296    51.0
## 4626                2        2545          3474    54.3
## 4629                2       11437            95    81.0
## 4633               11       30847          8962    27.7
## 4646                5       19365           507    86.7
## 4650                5       38038          6147    25.0
## 4660                4        3052         45657    14.7
## 4673                2        6037          1840    75.5
## 4684                5       30309          1368    80.5
## 4699               10       17454         13443    37.2
## 4720                3       22960          2113    83.7
## 4724                8        1386         17024    44.2
## 4728                4        3173          2000     0.0
## 4751                0       10512           449    10.2
## 4778                4       27064           227    98.9
## 4812                9       41400         37385    15.2
## 4820               11        1439          4434    69.0
## 4835                3       19881         10362    26.0
## 4843                2       29863         21619    19.9
## 4876               13       32666          1202    29.3
## 4882                5       40061         52600     0.0
## 4895                5        6694          5664    37.1
## 4907                6       11870          1271    86.2
## 4912                2        6638         22457    41.7
## 4941                7       17271          9196    62.0
## 4952                3       28457          2517    83.3
## 4954                5       15682         20163    38.2
## 4956                5       18198           123    84.6
## 4957                7       12301         19818    39.6
## 4959               20        2436         13778    48.6
```

```
## 4960          10      22076        22095     3.1
## 4987          20       2874        13063    41.9
## 5022           3        718         4900     0.0
## 5027           6       1789         9748    29.9
## 5029           6      26136        27258    15.6
## 5053           7       8628        29625    37.6
## 5054           4      57729         6097    64.6
## 5055           4       1737        15311    14.9
## 5066           8      33124        22923    17.2
## 5069           5      31394        10788     4.5
## 5077           6       7449        10033    19.7
## 5091           1      73330          630    95.8
## 5110          10      17326        13626    32.5
## 5114           3       1666         9845    33.0
## 5161           7      14569         3444    28.3
## 5215           3      23743         7292     2.8
## 5216           9      22463         4234     0.0
## 5219          14      14799         3035    81.3
## 5251           0      14380        12933    37.2
## 5254           8      29325        51224    40.6
## 5258           4      52380         7777    58.0
## 5269           2      43958         8600     0.0
## 5277           4       5161         4873    30.4
## 5285           5       3689         4103    63.4
## 5291           0      24030         8320    94.8
## 5292           8      19246         1995    16.9
## 5340           2      14348          232    88.4
## 5341           2        893         5387    44.5
## 5347           9      15936        16686    19.4
## 5373           9      57736        43017    18.8
## 5382           5      27370        89145    14.6
## 5394          12      19472           99    98.8
## 5432           3       3996         6625     5.4
## 5443           3       2119        37249    32.4
## 5445          10        735         4841    67.7
## 5454          10       3036        17396    48.5
## 5464           8       8240        12214    16.3
## 5479           4      31208         9999    46.2
## 5503           4      11555        18801    37.1
## 5514           4       3746         3985    38.7
## 5517           9        565         5297    31.2
## 5545           8      33036        67295    24.6
## 5549           8      16151         3568    81.5
## 5558           9      30124         5292    59.3
## 5569           1      29623        16936    36.3
## 5590           4      24478         2900    83.7
## 5592           6      37173          481    76.0
## 5608           4       3888         3720    80.0
## 5609           7       7344         1158    91.2
## 5611           7      30874         2361    74.6
## 5624           3       1551         9135    29.2
## 5651          11       5768        35750     1.2
## 5673           3       2666        31955    15.9
## 5692           5      10899         4303    58.2
## 5694           6       9413         9396    21.7
## 5716           4       3331        28108    13.5
## 5736           6      24719         2066    70.5
## 5745           4      29507          612    49.0
## 5777           6       1446         8086    49.8
## 5789           2      55917         3895    64.6
## 5822           1      13711         4705    60.1
## 5831           2      22234         5615    75.0
## 5843           9       6632          263    67.1
## 5863           9      35287        59903    14.3
## 5865           1      21400         4000     0.0
## 5868           5        944        12733    29.3
## 5870           3       3273         7378    32.9
## 5882           2      25599         1916    91.7
## 5883           6      18153         4125    42.7
## 5888           5       7037         2852    65.6
## 5899          11       6763         6704    66.6
## 5902           6       5418        13600    33.7
## 5903           7       4887         2812    17.3
## 5904           8     107748         8545    53.8
## 5906           3      18031        12575    31.7
## 5907           3      16640        18682     2.2
## 5932           2       3605         1384    69.2
## 5933           5       1608        16097    36.1
## 5940           6      34904          781    56.6
## 5942           7       6993         7268    48.1
## 5946           5      12178         2043    68.6
## 5955           3      37298        40311    15.0
## 5967           6      20126        70241    25.0
## 5973           6      14813         7669    55.5
## 5989           2       1792         9404    44.4
## 5999           9       3503          611    12.7
## 6004           2       7356         4290    73.2
## 6024          17       4387        27152    30.6
## 6037           3       1962          368    54.0
## 6038           3      14981         2016    80.4
## 6041          11      13481        18963    12.2
## 6047           2      10223         1913    23.5
## 6048          16       1264        15805    22.9
## 6052           5       1589        15226    21.9
## 6087           7       7347        22752    28.5
## 6102          11       8499         1844    72.9
## 6132           4      41750         1540    14.4
## 6139           5      16440         7095     4.1
```

```
## 6147          6      16128       8480   26.3
## 6154          3        932      48837    1.1
## 6155         11      20862       1788   92.9
## 6156         13       8097      32007   36.0
## 6181          7      35129       3386   33.6
## 6186          4       3007       2745    8.5
## 6214          7       6093        978   93.7
## 6217          1       2167      11873   33.7
## 6228          9      22600        860   91.9
## 6232          8       3677      18530   10.5
## 6243          4      45161       2244   81.9
## 6248          2      17214        944   93.5
## 6270          5       1966        996   64.4
## 6274          3       1393      25293   33.1
## 6284          3      14720       4914   71.6
## 6309          7      44649      15874   77.1
## 6310         11      24449       8885   67.7
## 6317          8      12595       1748    8.0
## 6361         11      23615        983   53.2
## 6366          1       3736        887   90.7
## 6370          4       5208        800    0.0
## 6393          5      21113      25970   39.0
## 6429          6       1658      20940   40.2
## 6448          6      17980         37   99.2
## 6469          6        753         92   81.6
## 6481          6       3154       1022   93.0
## 6485          4       6718      37354   39.9
## 6492          1       2183         58   98.2
## 6493         15       3264      23901   19.0
## 6499          5        622      14508    7.6
## 6500          7       9185      32268    7.5
## 6510          4       7872      16324   15.9
## 6522          3       2601        848   15.2
## 6528          1      57756        707   98.2
## 6536          4      29265       6349   57.7
## 6550         10        868      10906   42.9
## 6555         11      11151      27412   28.8
## 6559         14       2825       8947    2.8
## 6591         15        970       5916    3.0
## 6641          3       8344      13665   78.3
## 6644          2       5930      27030   54.7
## 6646          7       6720       5557   47.6
## 6648         11      44083      16784   33.1
## 6682          1      25528       3688   67.9
## 6699          1      24084          2  100.0
## 6700          3      11664       1045   84.6
## 6704          8      17179        335   91.4
## 6716          3      10079       2512   49.8
## 6719         18       6176       8461   31.8
## 6724          6       9066       8948   43.0
## 6737          8       8234      50385   21.4
## 6795          3       8119        427   88.5
## 6813          5       3343     102461   15.4
## 6826          4      10980       2539   15.4
## 6842          7       3907       4222   47.9
## 6852          7      11777       7987   45.3
## 6856          8       1681       3558   25.9
## 6866          9       2295       4624   49.2
## 6875          6       4163      32108   31.8
## 6901         16       1265      14135   13.8
## 6944          4      38502      20261    1.2
## 6952          3      16971       5414   39.8
## 6968         15      15863      20131   39.5
## 6980          4      10860       4552   86.4
## 6991          3       1962        111   91.5
## 6992          9       7424      53234   19.6
## 7041          3      37399       7786   67.1
## 7046         12      17758      13057   40.6
## 7055          9      11043      27047   48.4
## 7070          0      97146       6587   63.4
## 7078         19       7861      12963   36.1
## 7083          4      18815       1182   87.6
## 7092          6      49274       2512   55.1
## 7093          5       9394       1357   83.7
## 7113          5       6380       4540   38.6
## 7128          4      33258       2731   40.6
## 7140          5       4571       1281   86.9
## 7154          0      11234      51396    5.2
## 7157          7       9379       5664   58.4
## 7170          9      22833      22977   17.6
## 7175          4       3217       7000    0.0
## 7181          6      32485       5610   92.5
## 7194         11      34659       2063   75.7
## 7200          4       4868       4081   63.2
## 7205          8       7625         76   92.4
## 7209         11       3695      26198   45.0
## 7210         12       2556      11799   35.5
## 7211         10       7450      41181   35.1
## 7212         20      20095       6095   27.4
## 7246         27       7036      19286   39.2
## 7248          1       3149       1879   18.3
## 7260          3       2316       7401   51.3
## 7264          7       1333       9333   42.7
## 7277          8      16143          3  100.0
## 7283          4       4951        917   85.9
## 7286          4       1468        160   98.7
## 7300          5      25157       1000    0.0
## 7332          1       1033       4810   43.4
```

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## 7348          7      1897       4734   35.2
## 7350          7      5840       3119    5.5
## 7356          7      1511       1043   75.2
## 7367          9     10486       1181    9.2
## 7368          3       845      42084   18.8
## 7369          2      2660       1162   84.7
## 7370          9     24910      14310   11.7
## 7376         10      9454      24053   27.6
## 7379          4      1964       2309   46.3
## 7388          8      6101      29280   51.4
## 7395          3      3120        470   60.8
## 7398          7     11945      19592   41.9
## 7457          6     60078        510   96.9
## 7471          4     42914       6754   89.8
## 7482          8      7764      25420   34.7
## 7507          4      1651        801   72.4
## 7514         10      2431       3054   66.8
## 7519          5     31207       8561   34.6
## 7525          9     45488       9090    6.3
## 7527          1      2009        170   66.0
## 7537          8      3552      19670    6.3
## 7542          8     25783       2655   73.5
## 7561          4      4745        216   94.6
## 7569          7     30796       4140   85.3
## 7576          6      2591       9850    1.5
## 7639          6      5669      10893   40.1
## 7640          4     22165      15487   48.9
## 7650          3      5574        791   94.2
## 7652          6      6227      51825    2.6
## 7672          2     19529      26792    8.9
## 7673          7     22445        330   98.4
## 7674         15     22319     101375   18.2
## 7681          6       970       5208   24.5
## 7683          1     19011        896   76.4
## 7685          9      2301      15289    4.4
## 7702          4      5065       8883   54.4
## 7716          1      5571          0  100.9
## 7717          6      5446      26453   14.1
## 7721          4     27785       1780   91.9
## 7726         15     19779       5805   60.5
## 7760          7      3411       6089   73.6
## 7766         10      7339      23864   23.8
## 7793          7      5536       3813   68.2
## 7802          6      3033      55115   41.1
## 7826          7     34054       5468   52.5
## 7846          5     27226      15631    2.3
## 7866          1      8642        540   97.4
## 7883          4     21991       8350   54.1
## 7885          7     11612      24073   33.1
## 7911          3     44256       2956   89.6
## 7917          8     28410        868   88.4
## 7919          8     15118       5387   71.6
## 7922          7     52807       3775   10.1
## 7928          7     20675      35092   25.0
## 7939          6       583        149   70.2
## 7941          5     38164       3100    0.0
## 7947          8     22981      27359   30.9
## 7955          4      1503       2033   41.9
## 7968          4      3105      16910   30.7
## 7969          2      3507      16965   35.5
## 7974          6      7928      47490    3.9
## 7982          6     14735       1505   49.8
## 7995          9      2113      21177   19.5
## 8000          6      2461       2792   50.1
## 8005         13     19383       8322   17.6
## 8007          7     77858      10987   46.7
## 8019          2     40843       2382   83.6
## 8021          1      8188        976   87.0
## 8039          4      6774      11600    0.0
## 8055          7     24401      14784   26.8
## 8061          7     10872       1853   93.9
## 8066          4       992       9463   19.8
## 8093         11      2569       4187   59.0
## 8095          4     17362      25133   49.2
## 8100         15     12587      13331   20.2
## 8142         10     23944        398   79.1
## 8149          7     35496       6001   40.0
## 8152          2      9962        190   92.4
## 8156          5      4381       9836    1.6
## 8165          6     21144      37035   32.7
## 8201          9      9296      25542   41.1
## 8203          9      4028       3464   39.2
## 8209          8      1435       2889   47.5
## 8224         11     17363      36583   28.1
## 8246          5      7947       3249   66.1
## 8256          4     11336       6635   44.7
## 8267          5      3912       1333   82.7
## 8272          3     38987       3614   63.9
## 8284          9      3848      18523   33.4
## 8295          5     49372       1109   53.8
## 8316          3      9520       6858   28.6
## 8336          7      1984      28561    7.0
## 8355          2      7003       4024   90.6
## 8360          5     31253      64143   25.4
## 8364          3     12471      40918   13.2
## 8379          5      4676       6996   52.4
## 8391          6      1194       2989   74.9
## 8392          1     10011      28936    0.6
```

```
## 8396          16       5106       24927     2.2
## 8437           4      34743        7769    67.8
## 8459           4        413        1837    44.3
## 8462           3       4900        7393    44.0
## 8477          15       3202         434    75.9
## 8482           7      14608         730    27.0
## 8490           8      33970       34603    23.1
## 8491           9      22801        3463    78.8
## 8496          12      16475       26423    56.1
## 8498           7      11859       13015    40.8
## 8516           5      37498       19522    62.4
## 8518           8      52041       13631     8.5
## 8522           5       2066       15871    25.5
## 8526           6     100232           0   107.5
## 8529           6       9873         817    45.5
## 8537           6       4260        4569    36.5
## 8552           5       7507        4968    48.3
## 8585           7      25283       13107     9.6
## 8602           7       8605        6286    58.4
## 8627          14       3605        6221    35.9
## 8647          14       4996        8517    48.1
## 8674           2      12145       14153    16.7
## 8709          12       9427       10625    17.6
## 8711           4      40382        7430    21.8
## 8712           6       5891        8156     0.5
## 8721           6      12453        7892    12.3
## 8735           8      15530          40    97.9
## 8767           5       5564       22435    14.0
## 8783           4      13736         391     2.3
## 8795          13      21694       24858    19.6
## 8804           7      32561       18273    17.3
## 8824           3       2640        9252    67.9
## 8835           9       4710       24006     9.4
## 8862           6      17423        3613    69.4
## 8864           8      39641        4911    61.3
## 8890           5      20670        9150    67.4
## 8895           5      13747         270    73.0
## 8906           3      12988       61604    34.3
## 8944           3       1527        8414    51.4
## 8946           6       1586       35734    20.9
## 8953           2      10414         551    92.1
## 8963          11       3188       14201    43.0
## 8966           3       3710       52208    19.3
## 8977           9      14841       51776    22.0
## 9042          11       2298        2979    25.5
## 9047           3      19706        5803    64.2
## 9048           5      18742        3776    79.6
## 9056          10      20383       23060    44.2
## 9057           4       1292       27131     5.5
## 9058           3      42689         965    96.2
## 9083           8       3575       17563    29.2
## 9091           7      21863       10567    63.4
## 9096           8       4726       50360    10.7
## 9098           5       3078       13252    48.4
## 9101          11      14975       29587    51.3
## 9103          12       3230       10909    14.1
## 9140           6      14596         420    94.9
## 9154          10      13929       92926    29.7
## 9160           2       7060       26566    35.7
## 9163           1      10665        5888    63.9
## 9202           5      14239        4168    49.2
## 9240           4      20573       32801    51.8
## 9243           7      74152       12164    48.9
## 9245           5       1374        2000     0.0
## 9254           4       7099        3195    73.6
## 9286           1       3556        4295    37.8
## 9294           1       1407           7    99.8
## 9321           2       2825       18003    28.3
## 9336           5       8533         466    70.9
## 9380           5      17083       12157    63.8
## 9383           2       5772         285    98.5
## 9388          12       5201       11284    26.7
## 9413           8      20878       42374    16.9
## 9431           4      10635       11541    43.7
## 9432           2      19304        2939    81.5
## 9444           3       1336         505    89.0
## 9459           1      29397       24035     6.8
## 9464           2       4967       10783    64.6
## 9474           6      33174        6247    48.4
## 9481           3      26711        1118    89.3
## 9497           9       2749       14042    24.5
## 9499           6       3406       20426    33.0
## 9503           2      16808         281    96.7
## 9506           8       2627        1971    89.2
## 9509           2       5674        6006    64.9
## 9522           7      31242       45556    19.4
## 9546           0       8499        3673    93.8
## 9559           3       3553        7987     0.2
## 9573           8      12084         345    77.0
## 9610           5      10621       35376    27.1
## 9614           9       9721        2888    62.0
## 9627           5       2815       26815    12.7
## 9628           8      32814         513    92.3
## 9629           4      21766        3895    41.0
## 9652           7      35936       54605    38.3
## 9677           3      17649        8973    48.7
## 9681           2       3243       19512    41.9
## 9690           5      14351       60855     1.0
```

```
## 9697                    1       24008          5237    63.6
## 9701                    4        9430           854    87.8
## 9705                    6         900          1035    83.3
## 9714                    7       33288         19692    36.5
## 9718                    3       46479           384    96.0
## 9722                    6       27506           193    87.9
## 9748                    4        1232         15470    13.6
## 9751                   11       15315          4218    79.5
## 9753                    4       37244          2405    19.8
## 9773                    6        8915         11354    10.6
## 9783                    3        5243         13318    31.4
## 9786                    2        4665         17710    23.3
## 9796                    8       16450         24773    52.7
## 9811                    1        7617         18530    16.2
## 9816                    5        2941         59297    34.3
## 9817                    2       10852           109    99.6
## 9820                    4       25558         21536    13.2
## 9834                    3       34389         26059     8.9
## 9843                   11       40127        102562    13.5
## 9872                    6       11432         15476    53.0
## 9882                    4        2112         16271    22.9
## 9898                   19        3587         93670    16.9
## 9904                    8        9246         15960    27.5
## 9924                    4        9990          2883    57.0
## 9943                    8       30400         20927    28.6
## 9945                    7       58222          8028    71.5
## 9983                    5       32440           208    98.7
## 9988                    7        1817          9361    23.9
## 10024                   7       24208           279    93.0
## 10033                   5       16798         14883    47.6
## 10058                   9       10643          6769    24.8
## 10062                   5       37708           786    89.8
## 10078                   1      208288         18513    43.7
## 10088                   7       21270         34589     1.2
## 10096                   4        3838          4292    34.0
## 10110                   3       12729          3149    91.5
## 10166                  11        4103          5632    39.5
## 10167                   4       32444           406    95.9
## 10192                  12        2041          4667    56.0
## 10195                   4       24824         21422    29.3
##       chargeoff_within_12_mths delinq_amnt mo_sin_old_il_acct
## 4                            0           0                135
## 7                            0           0                114
## 9                            1           0                 75
## 14                           0           0                151
## 23                           0           0                151
## 34                           0           0                 57
## 40                           0           0                170
## 49                           0           0                142
## 50                           0           0                155
## 51                           0           0                 33
## 68                           0           0                135
## 82                           0           0                 77
## 115                          0           0                147
## 140                          0           0                163
## 158                          0           0                168
## 162                          0           0                136
## 167                          0           0                143
## 182                          0           0                137
## 186                          0           0                123
## 200                          0           0                133
## 239                          0           0                122
## 249                          0           0                238
## 261                          0           0                 68
## 273                          0           0                171
## 276                          0           0                158
## 345                          0           0                158
## 369                          0           0                122
## 379                          0           0                139
## 389                          0           0                 75
## 395                          0           0                145
## 403                          0           0                 66
## 408                          0           0                111
## 411                          0           0                135
## 426                          0           0                160
## 438                          0           0                182
## 441                          1         388                 60
## 443                          0           0                156
## 468                          0           0                 26
## 469                          0           0                187
## 480                          0           0                160
## 482                          0           0                158
## 483                          0           0                129
## 513                          0           0                142
## 566                          0           0                193
## 569                          0           0                139
## 587                          0           0                310
## 597                          0           0                157
## 605                          0           0                228
## 627                          0           0                100
## 644                          0           0                 76
## 677                          0           0                 83
## 687                          0           0                118
## 708                          0           0                124
## 718                          0           0                162
## 721                          0           0                151
## 743                          0           0                111
## 744                          0           0                111
```

```
## 745                    0          0                67
## 758                    0          0               126
## 777                    0          0               179
## 802                    0          0                84
## 818                    0          0               146
## 832                    0          0               107
## 856                    0          0               153
## 857                    0          0               166
## 858                    0          0               204
## 882                    0          0               188
## 883                    0          0               145
## 889                    0          0                90
## 903                    0          0               143
## 907                    0          0                56
## 915                    0          0               135
## 920                    0          0               259
## 939                    0          0               128
## 954                    0          0                92
## 969                    0          0               171
## 1002                   0          0               107
## 1015                   0          0                 8
## 1024                   0          0               141
## 1029                   0          0               156
## 1031                   0          0               153
## 1053                   0          0               133
## 1057                   0          0               147
## 1080                   0          0               150
## 1108                   0          0               141
## 1109                   0          0               131
## 1110                   0          0               192
## 1112                   0          0               135
## 1115                   0          0               156
## 1121                   0          0               121
## 1122                   0          0               121
## 1139                   0          0               161
## 1163                   0          0               177
## 1181                   0          0               176
## 1187                   0          0               121
## 1194                   0          0                27
## 1197                   0          0               112
## 1209                   0          0               151
## 1224                   0          0               144
## 1257                   0          0                86
## 1262                   0          0                95
## 1275                   0          0               107
## 1336                   0          0               126
## 1343                   0          0               202
## 1346                   0          0               156
## 1347                   0          0               107
## 1379                   0          0               224
## 1418                   0          0                98
## 1425                   0          0               146
## 1450                   0          0                80
## 1451                   0          0               191
## 1452                   0          0               125
## 1465                   0          0               129
## 1468                   0          0               254
## 1478                   0          0               151
## 1479                   0          0               144
## 1500                   0          0               139
## 1509                   0          0               142
## 1524                   0          0               132
## 1533                   0          0               138
## 1534                   0          0               111
## 1537                   0          0               169
## 1548                   0          0               140
## 1566                   0          0               127
## 1575                   0          0                66
## 1620                   0          0               153
## 1632                   0          0               155
## 1661                   0          0               166
## 1666                   0          0               141
## 1679                   0          0                87
## 1686                   0          0               146
## 1688                   0          0                99
## 1726                   0          0               124
## 1738                   0          0               146
## 1744                   0          0                24
## 1750                   0          0                79
## 1754                   0          0               132
## 1762                   0          0               321
## 1809                   0          0               133
## 1811                   0          0               123
## 1819                   0          0               137
## 1880                   0          0                94
## 1881                   0          0               156
## 1894                   0          0                85
## 1900                   0          0                43
## 1915                   0          0               166
## 1919                   0          0               163
## 1942                   0          0               120
## 1943                   0          0               152
## 1958                   0          0               175
## 1991                   0          0               141
## 1994                   0          0               143
## 1997                   0          0               126
## 2001                   0          0               109
## 2013                   0          0               141
```

```
## 2015                    0          0              134
## 2018                    0          0              179
## 2050                    0          0              130
## 2074                    0          0              147
## 2077                    0          0              143
## 2092                    0          0               37
## 2161                    0          0                9
## 2165                    0          0              126
## 2170                    0          0              135
## 2171                    0          0              162
## 2172                    0          0              154
## 2192                    0          0              127
## 2194                    0          0              104
## 2196                    0          0              166
## 2248                    0          0              177
## 2253                    0          0              165
## 2254                    0          0              169
## 2257                    0          0              178
## 2263                    0          0              127
## 2277                    0          0              110
## 2289                    0          0              101
## 2303                    0          0              124
## 2312                    0          0              141
## 2318                    0          0              163
## 2320                    1          0               65
## 2326                    0          0               71
## 2328                    0          0               77
## 2341                    0          0               37
## 2348                    0          0              254
## 2370                    0          0              118
## 2376                    0          0              104
## 2382                    0          0              121
## 2385                    0          0              108
## 2406                    0          0              158
## 2409                    0          0              127
## 2421                    0          0              147
## 2456                    0          0              145
## 2462                    0          0              136
## 2476                    0          0              199
## 2481                    0          0              150
## 2488                    0          0              147
## 2496                    0          0              296
## 2520                    0          0               99
## 2531                    0          0              157
## 2541                    0          0              178
## 2544                    0          0              120
## 2563                    0          0                7
## 2568                    0          0              121
## 2580                    0          0              178
## 2599                    0          0              120
## 2600                    0          0              144
## 2602                    0          0              169
## 2605                    0          0              138
## 2615                    0          0              106
## 2620                    0          0               68
## 2623                    0          0               18
## 2651                    0          0              147
## 2655                    0          0              155
## 2659                    0          0               36
## 2660                    0          0              128
## 2663                    0          0              112
## 2667                    0          0              123
## 2672                    0          0              184
## 2677                    0          0              126
## 2690                    0          0               87
## 2695                    0          0              134
## 2702                    0          0              121
## 2710                    0          0               42
## 2738                    0          0              140
## 2742                    0          0              126
## 2745                    0          0              197
## 2773                    0          0              135
## 2787                    0          0              113
## 2792                    0          0              168
## 2803                    0          0              112
## 2813                    0          0              174
## 2817                    0          0              116
## 2819                    0          0              132
## 2832                    0          0              129
## 2857                    0          0              154
## 2860                    0          0              166
## 2865                    0          0              127
## 2875                    0          0               60
## 2880                    0          0               93
## 2894                    0          0              156
## 2899                    0          0              163
## 2912                    0          0              139
## 2927                    0          0              113
## 2933                    0          0               56
## 2947                    0          0              137
## 2951                    0          0              178
## 2957                    0          0               29
## 2961                    0          0              156
## 2968                    0          0              126
## 2971                    0          0              149
## 2995                    0          0              157
## 3032                    0          0              136
## 3036                    0          0              150
```

```
## 3040                    0          0              105
## 3053                    1          0              154
## 3062                    0          0               87
## 3067                    0          0              128
## 3074                    0          0              131
## 3092                    0          0              104
## 3102                    0          0               77
## 3119                    0          0              159
## 3123                    0          0              148
## 3134                    0          0              139
## 3141                    0          0              143
## 3143                    0          0              148
## 3173                    0          0              154
## 3178                    0          0              143
## 3186                    0          0              116
## 3204                    0          0              131
## 3210                    0          0              153
## 3211                    0          0              130
## 3218                    0          0              191
## 3230                    0          0               57
## 3251                    0          0              112
## 3262                    0          0              145
## 3269                    0          0               89
## 3271                    0          0              121
## 3278                    0          0              173
## 3282                    0          0              168
## 3302                    0          0              130
## 3318                    0          0              179
## 3323                    0          0              150
## 3367                    0          0              197
## 3376                    0          0               57
## 3392                    0          0              143
## 3409                    0          0              222
## 3416                    0          0              149
## 3436                    0          0              106
## 3441                    0          0              176
## 3472                    0          0              118
## 3485                    0          0              138
## 3492                    0          0              128
## 3494                    0          0              124
## 3501                    0          0              131
## 3506                    0          0               93
## 3530                    0          0              159
## 3565                    0          0              144
## 3577                    0          0              105
## 3613                    0          0              147
## 3617                    0          0              130
## 3639                    0          0              159
## 3657                    0          0              240
## 3668                    0          0              125
## 3686                    0          0              191
## 3698                    0          0              179
## 3704                    0          0               85
## 3707                    0          0              154
## 3780                    0          0               86
## 3790                    0          0              154
## 3794                    0          0              151
## 3796                    0          0              154
## 3822                    0          0              129
## 3825                    0          0              112
## 3861                    0          0              188
## 3887                    0          0               20
## 3921                    0          0              126
## 3922                    0          0              149
## 3926                    0          0              190
## 3943                    0          0              129
## 3954                    0          0              155
## 3964                    0          0              163
## 3976                    0          0              173
## 3984                    0          0              134
## 4006                    0          0              119
## 4010                    0          0               72
## 4028                    0          0              140
## 4043                    0          0               26
## 4045                    0          0               32
## 4053                    0          0              286
## 4055                    0          0              147
## 4057                    0          0              164
## 4098                    0          0               94
## 4100                    0          0              136
## 4113                    0          0              142
## 4119                    0          0               71
## 4136                    0          0               62
## 4138                    0          0               95
## 4150                    0          0               34
## 4169                    0          0              118
## 4173                    1          0              168
## 4193                    0          0              151
## 4198                    0          0              129
## 4203                    0          0               79
## 4211                    0          0              159
## 4220                    0          0              101
## 4229                    0          0              134
## 4247                    0          0               47
## 4273                    0          0              149
## 4274                    0          0              139
## 4284                    0          0               32
## 4301                    0          0              121
```

```
## 4325                    0          0              125
## 4349                    0          0              183
## 4350                    0          0              155
## 4370                    0          0              130
## 4372                    0          0              187
## 4388                    0          0               76
## 4390                    0          0              248
## 4400                    0          0              131
## 4401                    0          0              119
## 4402                    0          0              151
## 4418                    0          0              129
## 4421                    0          0              172
## 4431                    0          0               74
## 4440                    0          0              130
## 4458                    0          0               89
## 4461                    0          0              116
## 4469                    0          0              148
## 4472                    0          0              163
## 4479                    0          0               81
## 4483                    0          0              143
## 4503                    0          0              168
## 4519                    0          0               89
## 4522                    0          0              122
## 4525                    0          0              184
## 4528                    0          0              161
## 4538                    0          0              146
## 4548                    0          0              191
## 4554                    0          0               19
## 4557                    0          0              122
## 4569                    0          0              104
## 4576                    0          0              155
## 4590                    0          0              159
## 4594                    0          0               59
## 4604                    0          0              124
## 4622                    0          0              159
## 4626                    0          0              113
## 4629                    0          0              176
## 4633                    0          0              149
## 4646                    0          0              133
## 4650                    0          0              113
## 4660                    0          0              161
## 4673                    0          0                6
## 4684                    0          0               62
## 4699                    0          0               78
## 4720                    0          0              178
## 4724                    0          0              146
## 4728                    0          0               64
## 4751                    0          0              156
## 4778                    0          0              189
## 4812                    0          0              175
## 4820                    0          0              107
## 4835                    0          0              120
## 4843                    0          0              214
## 4876                    0          0               32
## 4882                    0          0              144
## 4895                    0          0               12
## 4907                    0          0              151
## 4912                    0          0              228
## 4941                    0          0              176
## 4952                    0          0              156
## 4954                    0          0              115
## 4956                    0          0              115
## 4957                    0          0              164
## 4959                    0          0              145
## 4960                    1          0              199
## 4987                    0          0              166
## 5022                    0          0               61
## 5027                    0          0              130
## 5029                    0          0              115
## 5053                    0          0              144
## 5054                    0          0              152
## 5055                    0          0              140
## 5066                    0          0              128
## 5069                    0          0               77
## 5077                    0          0               93
## 5091                    0          0               15
## 5110                    0          0              221
## 5114                    0          0               86
## 5161                    0          0              144
## 5215                    0          0              248
## 5216                    0          0              126
## 5219                    0          0              157
## 5251                    0          0               58
## 5254                    0          0              157
## 5258                    1          0               88
## 5269                    0          0              138
## 5277                    0          0               92
## 5285                    0          0              121
## 5291                    0        148              220
## 5292                    0          0              122
## 5340                    0          0              138
## 5341                    0          0              127
## 5347                    0          0              117
## 5373                    0          0              220
## 5382                    0          0              121
## 5394                    0          0              161
## 5432                    0          0               70
## 5443                    0          0               75
```

```
## 5445                    0          0              147
## 5454                    0          0              149
## 5464                    0          0               12
## 5479                    0          0               71
## 5503                    0          0              137
## 5514                    0          0              152
## 5517                    0          0              106
## 5545                    0          0              183
## 5549                    0          0              130
## 5558                    0          0               89
## 5569                    0          0              142
## 5590                    0          0              169
## 5592                    0          0              107
## 5608                    0          0              187
## 5609                    0          0              138
## 5611                    0          0              169
## 5624                    0          0              113
## 5651                    0          0              205
## 5673                    0          0              212
## 5692                    0          0               73
## 5694                    0          0              116
## 5716                    0          0              141
## 5736                    0          0               72
## 5745                    0          0              129
## 5777                    0          0              132
## 5789                    0          0              130
## 5822                    0          0              172
## 5831                    0          0              174
## 5843                    0          0              162
## 5863                    0          0              202
## 5865                    0          0              122
## 5868                    0          0              129
## 5870                    0          0               61
## 5882                    0          0              189
## 5883                    0          0              146
## 5888                    0          0               39
## 5899                    0          0              145
## 5902                    0          0               16
## 5903                    0          0               88
## 5904                    0          0               44
## 5906                    0          0              163
## 5907                    0          0              211
## 5932                    0          0              153
## 5933                    0          0               80
## 5940                    0          0               71
## 5942                    0          0              122
## 5946                    0          0               72
## 5955                    0          0              127
## 5967                    0          0              132
## 5973                    0          0              140
## 5989                    0          0               50
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## 6004                    0          0              157
## 6024                    0          0               96
## 6037                    0          0              148
## 6038                    0          0              177
## 6041                    0          0              155
## 6047                    0          0              104
## 6048                    0          0               90
## 6052                    0          0               12
## 6087                    0          0              106
## 6102                    0          0              162
## 6132                    0          0              283
## 6139                    0          0              226
## 6147                    0          0               54
## 6154                    0          0              152
## 6155                    1          0               97
## 6156                    0          0               92
## 6181                    0          0              137
## 6186                    0          0               58
## 6214                    0          0              101
## 6217                    0          0              167
## 6228                    0          0              133
## 6232                    0          0              292
## 6243                    0          0              141
## 6248                    0          0              146
## 6270                    0          0              116
## 6274                    0          0              126
## 6284                    0          0              132
## 6309                    0          0              130
## 6310                    0          0               79
## 6317                    0          0              163
## 6361                    0          0              170
## 6366                    0          0              136
## 6370                    0          0              116
## 6393                    0          0              106
## 6429                    0          0               45
## 6448                    0          0              118
## 6469                    0          0               44
## 6481                    0          0              137
## 6485                    0          0              299
## 6492                    0          0               82
## 6493                    0          0              156
## 6499                    0          0               43
## 6500                    0          0              200
## 6510                    0          0              145
## 6522                    0          0              162
## 6528                    0          0              173
```

```
## 6536                    0          0              164
## 6550                    0          0              169
## 6555                    0          0              127
## 6559                    0          0              157
## 6591                    0          0              127
## 6641                    0          0              167
## 6644                    0          0              130
## 6646                    0          0               45
## 6648                    0          0              137
## 6682                    0          0               93
## 6699                    0          0              272
## 6700                    0          0              156
## 6704                    0          0              140
## 6716                    0          0               80
## 6719                    0          0              120
## 6724                    0          0              117
## 6737                    0          0              157
## 6795                    0          0               55
## 6813                    0          0               44
## 6826                    1          0              297
## 6842                    0          0              219
## 6852                    0          0              181
## 6856                    0          0              238
## 6866                    0          0               44
## 6875                    0          0              218
## 6901                    0          0              138
## 6944                    0          0              110
## 6952                    0          0              146
## 6968                    0          0              143
## 6980                    0          0              130
## 6991                    0          0              121
## 6992                    0          0              248
## 7041                    0          0              201
## 7046                    0          0              155
## 7055                    0          0               37
## 7070                    0          0               89
## 7078                    0          0              132
## 7083                    0          0              141
## 7092                    0          0               15
## 7093                    0          0              194
## 7113                    0          0              166
## 7128                    0          0               73
## 7140                    0          0              136
## 7154                    0          0              275
## 7157                    0          0               12
## 7170                    0          0              143
## 7175                    0          0               50
## 7181                    1          0              148
## 7194                    0          0               73
## 7200                    0          0              105
## 7205                    0          0              168
## 7209                    0          0              108
## 7210                    1          0              149
## 7211                    0          0              182
## 7212                    0          0              115
## 7246                    0          0              128
## 7248                    0          0               72
## 7260                    0          0              206
## 7264                    0          0              158
## 7277                    0          0               79
## 7283                    0          0              164
## 7286                    0          0               63
## 7300                    0          0               81
## 7332                    0          0              122
## 7348                    0          0              129
## 7350                    0          0              128
## 7356                    0          0              122
## 7367                    0          0               32
## 7368                    0          0               45
## 7369                    0          0              125
## 7370                    0          0               95
## 7376                    0          0              141
## 7379                    0          0              137
## 7388                    0          0              152
## 7395                    0          0               73
## 7398                    0          0               85
## 7457                    0          0              192
## 7471                    0          0              152
## 7482                    0          0              146
## 7507                    0          0              139
## 7514                    0          0               91
## 7519                    0          0               14
## 7525                    0          0               73
## 7527                    0          0              175
## 7537                    0          0              119
## 7542                    0          0              155
## 7561                    0          0              164
## 7569                    0          0              208
## 7576                    0          0              181
## 7639                    0          0               54
## 7640                    0          0              167
## 7650                    0          0              212
## 7652                    0          0              179
## 7672                    0          0              114
## 7673                    0          0              130
## 7674                    0          0              169
## 7681                    0          0              119
## 7683                    0          0              207
```

```
## 7685                    0          0              150
## 7702                    0          0              199
## 7716                    0          0              176
## 7717                    0          0              120
## 7721                    0          0              130
## 7726                    0          0              139
## 7760                    0          0              231
## 7766                    0          0              118
## 7793                    0          0              141
## 7802                    0          0              123
## 7826                    0          0              145
## 7846                    0          0              129
## 7866                    0          0              128
## 7883                    0          0              140
## 7885                    0          0              142
## 7911                    0          0              155
## 7917                    0          0               77
## 7919                    0          0              138
## 7922                    0          0              113
## 7928                    0          0               59
## 7939                    0          0              124
## 7941                    0          0              129
## 7947                    0          0              153
## 7955                    0          0               61
## 7968                    0          0               64
## 7969                    0          0              162
## 7974                    0          0              151
## 7982                    0          0              137
## 7995                    0          0              166
## 8000                    0          0              109
## 8005                    0          0              128
## 8007                    0          0              256
## 8019                    0          0              198
## 8021                    0          0              187
## 8039                    0          0               71
## 8055                    0          0              234
## 8061                    0          0              141
## 8066                    0          0              183
## 8093                    0          0               63
## 8095                    0          0              169
## 8100                    0          0               46
## 8142                    0          0              125
## 8149                    0          0               32
## 8152                    0          0              151
## 8156                    0          0              130
## 8165                    0          0              168
## 8201                    0          0               91
## 8203                    0          0               94
## 8209                    0          0              144
## 8224                    0          0               84
## 8246                    0          0              157
## 8256                    0          0              114
## 8267                    0          0              173
## 8272                    0          0              215
## 8284                    0          0               33
## 8295                    0          0              135
## 8316                    0          0               70
## 8336                    0          0              193
## 8355                    0          0              224
## 8360                    0          0              132
## 8364                    0          0              141
## 8379                    0          0              139
## 8391                    0          0              176
## 8392                    0          0               66
## 8396                    0          0              125
## 8437                    0          0              174
## 8459                    0          0              117
## 8462                    0          0              132
## 8477                    0          0               75
## 8482                    0          0              137
## 8490                    0          0               60
## 8491                    0          0              154
## 8496                    0          0               48
## 8498                    0          0              164
## 8516                    0          0              173
## 8518                    0          0              229
## 8522                    0          0              161
## 8526                    0          0                6
## 8529                    0          0              162
## 8537                    0          0              183
## 8552                    0          0              222
## 8585                    0          0              169
## 8602                    0          0              142
## 8627                    0          0              207
## 8647                    0          0              138
## 8674                    0          0               98
## 8709                    0          0               84
## 8711                    0          0              146
## 8712                    0          0              119
## 8721                    0          0              215
## 8735                    0          0              124
## 8767                    0          0              170
## 8783                    0          0              141
## 8795                    0          0              162
## 8804                    0          0              142
## 8824                    0          0               79
## 8835                    0          0               88
## 8862                    0          0              153
```

```
## 8864                    0          0              219
## 8890                    0          0              118
## 8895                    0          0              167
## 8906                    0          0              158
## 8944                    0          0              137
## 8946                    0          0               14
## 8953                    0          0               67
## 8963                    0          0              184
## 8966                    0          0              137
## 8977                    0          0              127
## 9042                    0          0               27
## 9047                    0          0              136
## 9048                    0          0              141
## 9056                    0          0               91
## 9057                    0          0               45
## 9058                    0          0              140
## 9083                    0          0              140
## 9091                    0          0              166
## 9096                    0          0              133
## 9098                    0          0              111
## 9101                    0          0              294
## 9103                    0          0              255
## 9140                    1          0              152
## 9154                    0          0              153
## 9160                    0          0               63
## 9163                    0          0              153
## 9202                    0          0              187
## 9240                    0          0              129
## 9243                    0          0              151
## 9245                    0          0              125
## 9254                    0          0              119
## 9286                    0          0              149
## 9294                    0          0              169
## 9321                    0          0               77
## 9336                    0          0              124
## 9380                    0          0              177
## 9383                    0          0              159
## 9388                    0          0              120
## 9413                    0          0              144
## 9431                    0          0              134
## 9432                    0          0              144
## 9444                    0          0              129
## 9459                    0          0              155
## 9464                    0          0              184
## 9474                    0          0              156
## 9481                    0          0              144
## 9497                    0          0              161
## 9499                    0          0              171
## 9503                    0          0              127
## 9506                    0          0              160
## 9509                    0          0               63
## 9522                    0          0              159
## 9546                    0          0              142
## 9559                    0          0               36
## 9573                    0          0              116
## 9610                    0          0              147
## 9614                    0          0              158
## 9627                    0          0              119
## 9628                    0          0              133
## 9629                    0          0              142
## 9652                    0          0              107
## 9677                    0          0              177
## 9681                    0          0               88
## 9690                    0          0              162
## 9697                    0          0               19
## 9701                    0          0              113
## 9705                    0          0              168
## 9714                    0          0              142
## 9718                    0          0              146
## 9722                    0          0               51
## 9748                    0          0               95
## 9751                    0          0              165
## 9753                    0          0              131
## 9773                    0          0              145
## 9783                    0          0              138
## 9786                    0          0              176
## 9796                    0          0              127
## 9811                    0          0               83
## 9816                    0          0               81
## 9817                    0          0              174
## 9820                    0          0              136
## 9834                    0          0              128
## 9843                    0          0              207
## 9872                    0          0              143
## 9882                    0          0              161
## 9898                    0          0               40
## 9904                    0          0              126
## 9924                    0          0              177
## 9943                    0          0              147
## 9945                    0          0              158
## 9983                    0          0              139
## 9988                    0          0              179
## 10024                   0          0              116
## 10033                   0          0              138
## 10058                   0          0               63
## 10062                   0          0              171
## 10078                   0          0              123
## 10088                   0          0              107
```

```
## 10096                       0           0               138
## 10110                       0           0                10
## 10166                       0           0               115
## 10167                       0           0               125
## 10192                       0           0               113
## 10195                       0           0                15
##       mo_sin_old_rev_tl_op mo_sin_rcnt_rev_tl_op mo_sin_rcnt_tl mort_acc
## 4                      131                    61              0        0
## 7                      119                     3              1        2
## 9                      438                     0              0        0
## 14                     348                     5              5        0
## 23                     188                     7              6        1
## 34                      87                     6              6        0
## 40                     122                    13             12        0
## 49                     364                     2              2        0
## 50                     340                    10              8        3
## 51                      42                     9              9        0
## 68                     294                     1              1        7
## 82                     278                     8              8        2
## 115                    136                    37             10        0
## 140                    151                    31             11        0
## 158                    173                     2              2        4
## 162                    210                     5              5        3
## 167                    104                     3              3        1
## 182                    194                     3              3        4
## 186                    199                     5              4        0
## 200                    205                    94              8        6
## 239                    135                     8              8        0
## 249                    109                     6              1        0
## 261                     40                     7              7        0
## 273                    158                     5              5        0
## 276                     50                     1              1        2
## 345                    126                    19              9        1
## 369                    188                     6              6        3
## 379                    131                    11             11        2
## 389                    121                     6              6        2
## 395                    167                     3              1        1
## 403                     55                    25             10        1
## 408                    449                     1              1        5
## 411                    104                     1              1        1
## 426                    430                     8              8        2
## 438                    352                     1              1        2
## 441                     78                    13              7        1
## 443                    228                     4              4        2
## 468                     93                     4              4        0
## 469                    238                     7              7        3
## 480                     78                     7              7        0
## 482                    187                    25              3        3
## 483                    212                    25              5        4
## 513                    199                     3              3        0
## 566                    144                     5              2        0
## 569                    154                    37              8        2
## 587                    251                     3              2        2
## 597                    136                     6              6        0
## 605                    236                     0              0        2
## 627                    268                    33              1        5
## 644                     67                     9              9        1
## 677                     86                     6              6        2
## 687                    123                     2              2        0
## 708                    151                     2              2        0
## 718                    252                     1              1        0
## 721                    192                     3              3        0
## 743                    289                    18             15        0
## 744                    166                    16              8        2
## 745                    108                    22              6        2
## 758                    217                     3              2        0
## 777                     45                     4              2        4
## 802                    370                     3              3        5
## 818                    130                     7              0        0
## 832                    106                    13              2        2
## 856                    159                    76             10        2
## 857                    264                    13             13        1
## 858                    201                     4              4        3
## 882                    227                    15             11        0
## 883                    135                     9              2        1
## 889                     89                    11             11        0
## 903                    166                     2              2        2
## 907                    135                    22             14        0
## 915                     81                    11             11        4
## 920                     85                    10              6        2
## 939                    147                    18              4        0
## 954                    132                    15             11        0
## 969                    162                    40             12        3
## 1002                   151                    21              9        2
## 1015                   160                     4              4        0
## 1024                   372                    23             17        1
## 1029                    95                     5              5        1
## 1031                   310                     4              4        3
## 1053                   188                     5              5        0
## 1057                   175                    16              9        0
## 1080                   178                    11              4        7
## 1108                   166                     3              3        7
## 1109                   121                     7              7        0
## 1110                   262                     1              1        0
## 1112                   140                     4              4        1
## 1115                   231                     5              5        4
## 1121                   151                     3              3        2
## 1122                   153                     3              3        1
```

```
## 1139          101          23          4        2
## 1163          232          14         12        2
## 1181          157           0          0        0
## 1187          253          11         11        4
## 1194           75           1          1        0
## 1197          336           3          3        1
## 1209          181          13          5        4
## 1224          200           2          2        4
## 1257          189          12          3        1
## 1262           92           1          1        0
## 1275          146          13         11        0
## 1336          225           9          9        5
## 1343          295           1          1        5
## 1346          169           5          5        2
## 1347           97          21          7        2
## 1379          205           3          3        2
## 1418          115           4          3        0
## 1425          159           8          8        2
## 1450           64          37         14        0
## 1451          336           3          3        3
## 1452          209          14          4        3
## 1465          136           1          1        4
## 1468          186          32          5        0
## 1478          165           9          4        3
## 1479          133          16         16        1
## 1500          548          29          3        3
## 1509          133          46          3        6
## 1524          215          70         12        0
## 1533          125           5          5        3
## 1534          228          26          6        6
## 1537          238           4          4        2
## 1548          152           6          6        0
## 1566          182          18          8        2
## 1575           55          10         10        0
## 1620          216           8          8        0
## 1632          178           4          4        0
## 1661           97           7          3        0
## 1666          278           9          9        3
## 1679           80          22         13        1
## 1686           51           2          2        2
## 1688          269           2          2        2
## 1726          212           1          1        2
## 1738          189          10         10        5
## 1744          263           2          2        0
## 1750          284           7          7        1
## 1754          146          17         17        0
## 1762          136           2          2        7
## 1809          268           1          1        3
## 1811          161          58          6        4
## 1819          230          21         21        2
## 1880           58          25         24        0
## 1881          196          14         12        5
## 1894          111           8          3        3
## 1900          103           8          8        0
## 1915          209           1          1        0
## 1919          144           9          6        0
## 1942          120           5          4        0
## 1943          148           3          2        3
## 1958           81           1          1        1
## 1991          143           9          6        1
## 1994          225           1          1        1
## 1997          140          15          6        4
## 2001          312          10          5        2
## 2013          278           0          0        2
## 2015          249          33          5        2
## 2018          157           6          6        4
## 2050          345           5          5        4
## 2074          244           3          3        3
## 2077          158           8          3        2
## 2092           34          12         12        0
## 2161          137          12          9        0
## 2165          141           6          6        0
## 2170           51           9          4        3
## 2171           86          49         16        3
## 2172          140           7          7        3
## 2192          430          14         14        3
## 2194          274          23         14        3
## 2196          271           2          2        0
## 2248          286          14         14        2
## 2253          264           3          3        2
## 2254          202           1          1        2
## 2257           46           7          1        0
## 2263           39           5          5        1
## 2277          162          25          9        0
## 2289           66           2          2        0
## 2303          275          27          3        1
## 2312          155           2          2        5
## 2318          286           7          7        3
## 2320           68          13         13        0
## 2326           67          21          8        0
## 2328          166           2          2        1
## 2341           87          10         10        0
## 2348          288           4          4        0
## 2370          189          17          3        1
## 2376          130           4          4        2
## 2382          279           1          1        3
## 2385          175           9          9        2
## 2406          248          16         13        0
```

```
## 2409          143          8          8        5
## 2421          194          0          0        3
## 2456           83          2          1        0
## 2462          142          6          2        0
## 2476          197          7          7        1
## 2481          235         30         15        4
## 2488          163         16          1        2
## 2496          376          2          2        2
## 2520           75          8          8        2
## 2531          141         59         18        2
## 2541          263          6          6        0
## 2544          250         11          4        1
## 2563          211          9          3        3
## 2568          281         22          2        0
## 2580          243         16         16        2
## 2599           67          7          7        3
## 2600          202         28         20        3
## 2602          195          4          4        6
## 2605          145         16         14        0
## 2615          215         19          6        1
## 2620          345         14         14        4
## 2623          277         12         12        1
## 2651          149          4          1        0
## 2655           79          6          6        0
## 2659           78         26          2        2
## 2660          288          1          1        5
## 2663          317          8          1        3
## 2667           52          0          0        1
## 2672          167         16          7        0
## 2677          430         11         11        0
## 2690           62          8          8        0
## 2695          187          5          5        2
## 2702          119          2          2        0
## 2710          158         23         23        7
## 2738          135         13          4        0
## 2742          211          4          3        2
## 2745           86          0          0        0
## 2773          131         10          3        1
## 2787          328          2          2        6
## 2792          397         15         14        1
## 2803          174          1          1        1
## 2813          204         13         13        0
## 2817          131         14         14        2
## 2819          146          4          4        0
## 2832           62          5          5        1
## 2857          149          2          2        1
## 2860          133          9          9        0
## 2865          186         30         22        1
## 2875           76          7          7        0
## 2880          164         11         11        0
## 2894          220         25          6        5
## 2899          190         12          2        2
## 2912          103          4          4        0
## 2927          110         10         10        0
## 2933          102         13         13        3
## 2947          170          2          2        0
## 2951          271         19          8        3
## 2957          232         45         29        0
## 2961          284         12         12        5
## 2968          160          1          1        1
## 2971           61          3          3        4
## 2995          170          2          2        3
## 3032          105         35          1        2
## 3036          454         13         13        0
## 3040          163          2          2        1
## 3053          319          3          3        1
## 3062          171         64         10        0
## 3067          189          5          5        3
## 3074          242          1          1        4
## 3092          285          5          5        1
## 3102          144         24         19        0
## 3119          213         23          1        3
## 3123          227         26         19        2
## 3134          230          6          6        0
## 3141          104          7          4        3
## 3143          191          7          1        0
## 3173          146         24          9        0
## 3178          161         52         18        7
## 3186          105         83          8        0
## 3204          149          2          2        3
## 3210          510         26         16        5
## 3211          254         18         12        2
## 3218           59          6          3        0
## 3230           85         36         19        0
## 3251          197          1          1        3
## 3262          172          3          3        5
## 3269           44         22          4        5
## 3271          152          7          7        5
## 3278          132          7          1        5
## 3282          188          4          4        2
## 3302          253         10          5        3
## 3318          113         11         11        1
## 3323          337          1          1        2
## 3367          180         24          6        1
## 3376          162          3          3        0
## 3392          256          6          6        1
## 3409          126          2          2        2
## 3416          110          3          3        0
```

```
## 3436          58          3          3        0
## 3441          73         40         12        5
## 3472         122         10         10        0
## 3485         168         18          6        1
## 3492          91          0          0        0
## 3494         142          4          4        0
## 3501         141         10         10        0
## 3506         100         27          8        2
## 3530         244         15         15        0
## 3565         224         48         21        3
## 3577         113          1          1        0
## 3613         128         24          3        2
## 3617         153         16          2        2
## 3639         134         14          7        3
## 3657         327          2          2        5
## 3668         109          5          5        3
## 3686         170          8          8        3
## 3698         261          2          2        3
## 3704         201         55         27        0
## 3707         246         12         12        0
## 3780         395         10          7        4
## 3790         152         60          8        2
## 3794         145         14          3        4
## 3796         179         12         12        3
## 3822         122         12          7        2
## 3825         109         19          4        2
## 3861         218          4          3        0
## 3887         516          4          4        3
## 3921         121          3          3        0
## 3922         152          2          2        1
## 3926         126          9          7        0
## 3943         234          2          2        3
## 3954         174          7          3        3
## 3964         330          1          1        3
## 3976         220          1          1        2
## 3984         119         10          8        0
## 4006         144         17         11        2
## 4010          98         11          5        0
## 4028         167         18          6        4
## 4043         248          1          1        1
## 4045          64          3          3        0
## 4053         103          2          2        1
## 4055         161          6          6        2
## 4057         179         12         10        0
## 4098         204          5          5        5
## 4100         168          4          4        0
## 4113         183          6          6        3
## 4119         283          7          7        4
## 4136         442          3          2        7
## 4138         125         13          7        0
## 4150          63         13         13        1
## 4169         188         10         10        1
## 4173         323          6          6        3
## 4193         129          5          5        0
## 4198         195          7          7        0
## 4203         212          2          2        3
## 4211         505          1          1        5
## 4220         169          3          3        0
## 4229          34          6          4        0
## 4247         146          5          2        0
## 4273         153          7          7        1
## 4274         152          2          2        2
## 4284          79         13         13        0
## 4301         123          6          6        0
## 4325         362          1          1        9
## 4349         204         13         13        5
## 4350         167          4          4        1
## 4370         291          1          1        5
## 4372         246          8          8        1
## 4388         245         20         19        3
## 4390          50         20          4        2
## 4400         129          2          2        3
## 4401         181         13         13        0
## 4402         258          4          4        0
## 4418         245          3          3        1
## 4421         290         46          6        0
## 4431          69         34          7        1
## 4440         248         18         13        3
## 4458         102          8          8        0
## 4461          29          4          4        0
## 4469          32          5          5        0
## 4472         139          9          9        0
## 4479         282         12          8        3
## 4483         162          5          1        0
## 4503         295          2          2        3
## 4519         190          3          3        1
## 4522         236          7          7        0
## 4525          89          0          0        3
## 4528         218          6          2        0
## 4538         139          9          6        5
## 4548         130          7          7        1
## 4554          31         12         12        2
## 4557         284         20         14        2
## 4569         132         11         11        0
## 4576         155         14         14        0
## 4590         252         20          4        4
## 4594         303         18         18        0
## 4604         219         59          3        1
```

```
## 4622          194          6          6        0
## 4626           62          7          7        0
## 4629          281         33          6        1
## 4633          153          1          1        1
## 4646          100          5          2        1
## 4650          140         14          3        3
## 4660          160          6          6        0
## 4673          181         14          6        0
## 4684          201         18         11        6
## 4699          177          7          3        3
## 4720          152         10          8        2
## 4724          233          1          1        6
## 4728           24         17         17        0
## 4751          174         31         31        0
## 4778          164         23         16        3
## 4812          200          2          2        5
## 4820          147          3          3        0
## 4835          120         12          9        2
## 4843          501          2          2        5
## 4876          155          4          3        1
## 4882          520          9          6        2
## 4895           46          4          1        0
## 4907          150         13          8        2
## 4912          133         21         13        0
## 4941           85          4          4        1
## 4952          122         17         17        3
## 4954          149         13         11        4
## 4956          178          2          2        1
## 4957          148         20         11        5
## 4959           45          1          1        0
## 4960          196          2          2        3
## 4987          172          0          0        0
## 5022          141         10         10        2
## 5027           36          1          1        0
## 5029          120         12          3        4
## 5053          221          1          1        3
## 5054          140         10         10        4
## 5055          204         12          6        3
## 5066          322         23          5        4
## 5069          265          6          1        3
## 5077          146          3          3        2
## 5091          399         31         15        4
## 5110          111          1          1        1
## 5114           45          4          4        0
## 5161          161         81          1        4
## 5215          128         26          1        2
## 5216          274          3          3        2
## 5219          212          6          6        5
## 5251          145         37         26        2
## 5254          270          8          8        4
## 5258          251          6          6        6
## 5269          173        109          7        1
## 5277           52         16          2        0
## 5285           74          5          5        0
## 5291          243         45         39        5
## 5292           40          5          5        1
## 5340          172         28         23        4
## 5341          229         24          8        0
## 5347           89          6          2        3
## 5373          239         11         11        4
## 5382          367         13          3        4
## 5394          106          7          7        2
## 5432           74         12          9        0
## 5443          216         22         22        2
## 5445          157          5          5        1
## 5454          126          2          2        2
## 5464          162          2          2        4
## 5479          385         28          7        3
## 5503          137          8          8        2
## 5514          286          7          7        4
## 5517           69          3          3        0
## 5545          175          1          1        1
## 5549          329          9          5        2
## 5558          126         11          6        1
## 5569          486         29         22        2
## 5590          157          2          2        2
## 5592          256          9          5        3
## 5608          282          8          8        6
## 5609          175          8          7        4
## 5611          157          2          2        2
## 5624          112          8          8        0
## 5651           89          9          9        1
## 5673          252         24         15        0
## 5692          117          3          3        1
## 5694          226         13          1        0
## 5716          163          4          4        1
## 5736           39         12          7        2
## 5745          291         41          6        4
## 5777          132          7          7        2
## 5789          438          2          2        4
## 5822          133         27         14        3
## 5831          305         31          2        3
## 5843          457          3          3        2
## 5863          228          3          3        3
## 5865          476         30          2        1
## 5868          122          3          3        0
## 5870           54          4          4        0
## 5882          293         60          5        4
```

```
## 5883          148          12          6        1
## 5888           41          12         12        0
## 5899           93           2          2        6
## 5902          212           4          4        0
## 5903           83          18          6        0
## 5904          224           6          2        5
## 5906          368          10         10        3
## 5907          214          11         11        1
## 5932           63          18         18        0
## 5933          144           1          1        0
## 5940          142          12         11        1
## 5942          131          20         10        7
## 5946          126           2          2        4
## 5955          257           2          2        5
## 5967          293           5          5        6
## 5973          116           2          2        1
## 5989          154          10         10        0
## 5999           19           8          4        0
## 6004          165          23         12        3
## 6024          151           4          4        0
## 6037          115           9          9        0
## 6038          158          12         12        1
## 6041          264           6          3        1
## 6047          198          50          3        2
## 6048           72           6          6        0
## 6052          209           2          2        0
## 6087           96           9          8        2
## 6102           40          19          4        0
## 6132          247          16          5        2
## 6139           31          18          5        0
## 6147          313           1          1        2
## 6154          153          18         18        0
## 6155          178           5          5        3
## 6156          172           9          5        3
## 6181          261           1          1        4
## 6186           57           5          5        0
## 6214          189           6          6        3
## 6217          175          25         16        0
## 6228          139           8          3        2
## 6232           68          30          3        0
## 6243          139           9          6        2
## 6248          349          20         20        3
## 6270          109           2          2        0
## 6274          218           3          3        1
## 6284          147          26         11        3
## 6309          194          32          7        4
## 6310          126           3          3        1
## 6317          125           6          6        2
## 6361          129           3          1        3
## 6366          134          27         20        1
## 6370           62           1          1        0
## 6393          256           8          7        1
## 6429          179           9          9        0
## 6448          125           7          3        2
## 6469           77           6          6        0
## 6481          386           4          4        0
## 6485          430          15          3        0
## 6492           99           4          4        0
## 6493          183           5          5        3
## 6499          120           0          0        1
## 6500          143           7          5        4
## 6510          135           0          0        1
## 6522          153           5          5        0
## 6528          335          11         11        4
## 6536          219           5          5        1
## 6550          178           2          2        0
## 6555          158           7          7        4
## 6559          303           0          0        2
## 6591          127           2          2        0
## 6641          221           9          9        3
## 6644          346          23         23        2
## 6646           82          27          7        0
## 6648           80          10          8        6
## 6682          119          39         13        1
## 6699          201          19         19        1
## 6700          292          22         10        1
## 6704          139           3          3        3
## 6716           47          14          4        0
## 6719          124           1          1        2
## 6724           55           2          2        2
## 6737          268           5          5        2
## 6795          341          10         10        1
## 6813          211           3          1        2
## 6826          166          17         13        0
## 6842          252           6          6        2
## 6852          145           2          2        1
## 6856          125           7          4        0
## 6866           64           1          1        0
## 6875          305           5          5        0
## 6901           39           2          2        0
## 6944          158          11         10        2
## 6952           85          10          2        2
## 6968          174           6          6        3
## 6980          168          14         14        1
## 6991          150          54          6        0
## 6992          129           4          3        0
## 7041          121           2          2        6
## 7046          203           7          7        6
```

```
## 7055          235          7          7        1
## 7070          217         32         25        4
## 7078          157          4          4        2
## 7083          146          2          2        1
## 7092          267         21          5        3
## 7093          183          4          4        2
## 7113          171          5          5        0
## 7128          234         31          8        3
## 7140          241          3          3        1
## 7154          257         61         34        0
## 7157           72          8          8        2
## 7170           52          7          4        2
## 7175           66          9          8        0
## 7181          332         27          3        7
## 7194          259          1          1        6
## 7200          195         14          6        0
## 7205          201          7          7        1
## 7209          338          3          3        1
## 7210          150          4          4        0
## 7211          177          1          1        3
## 7212           40          5          5        2
## 7246          126          2          2        1
## 7248           44          3          3        0
## 7260          211          1          1        3
## 7264          283          1          1        0
## 7277          119         10         10        1
## 7283          212          1          1        0
## 7286          123          2          2        0
## 7300          259         18          4        2
## 7332          353         87         17        3
## 7348          271          5          5        1
## 7350          188          1          1        0
## 7356          219         12          2        5
## 7367           24          8          4        3
## 7368          427          5          5        0
## 7369          224         28          8        0
## 7370          134          3          3        1
## 7376          112          3          3        3
## 7379          312          6          6        0
## 7388          265         12         12        3
## 7395          361          1          1        0
## 7398          189          2          2        2
## 7457          126         53          4        2
## 7471          362         18          4        4
## 7482          165          9          7        0
## 7507          191         14          9        0
## 7514           36          6          6        0
## 7519          145         46          2        5
## 7525          102          5          5        1
## 7527          166         57         19        0
## 7537          218          1          1        0
## 7542          217          6          6        4
## 7561          186         18          8        0
## 7569          176         15         12        2
## 7576          234          3          3        0
## 7639          255         11          8        1
## 7640          121         10         10        3
## 7650          122         12         12        0
## 7652          120          3          3        2
## 7672          165          2          2        4
## 7673          298         10          7        2
## 7674          330          2          2        7
## 7681          130          7          7        3
## 7683          117         87         21        1
## 7685          221          6          6        0
## 7702          159          2          2        0
## 7716          163         32         24        0
## 7717          239          5          5        2
## 7721          164         11         11        6
## 7726          259          7          7        2
## 7760          130          1          1        2
## 7766           49          7          7        2
## 7793          209          7          7        3
## 7802          129         12          5        2
## 7826          628          2          2        2
## 7846           61          3          3        1
## 7866          330        111         22        1
## 7883          210         15         14        2
## 7885          124         12         12        4
## 7911          425         10         10        2
## 7917          130          5          5        6
## 7919           65          3          3        1
## 7922          242          2          2        7
## 7928          165          5          5        1
## 7939           73          2          2        2
## 7941          103         29          5        2
## 7947          134          2          2        1
## 7955           76          4          4        0
## 7968           92         13          5        0
## 7969          173          3          3        0
## 7974          352          4          4        2
## 7982          176         12         12        4
## 7995          178          6          2        1
## 8000          122          5          5        0
## 8005          197          6          6        4
## 8007          179          8          6        3
## 8019          290         15         12        1
## 8021          142        100         10        2
```

```
## 8039          56          11          11        0
## 8055          74          11          11        1
## 8061         237          10          10        2
## 8066         137           9           9        1
## 8093         122           2           2        0
## 8095         210          18          16        2
## 8100         114           1           1        3
## 8142          39           6           6        1
## 8149         110           2           2        4
## 8152         179          22          10        1
## 8156         125          14          10        0
## 8165         168          10           7        7
## 8201         163           5           5        2
## 8203          77          10           7        0
## 8209         124           3           3        0
## 8224         391           0           0        2
## 8246         156          22           9        5
## 8256         224          11           4        0
## 8267         145           3           3        0
## 8272         252          21          13        4
## 8284          69           7           7        0
## 8295         132         103           5        1
## 8316         157          35          20        0
## 8336         159          16          13        0
## 8355         158          17           3        1
## 8360         149           1           1        1
## 8364         151          10          10        3
## 8379         185          11           9        1
## 8391         176           4           4        0
## 8392          60          25          22        0
## 8396         128           0           0        2
## 8437          83          22          17        1
## 8459         234           3           3        0
## 8462         137          10          10        0
## 8477         190           4           4        0
## 8482         141           3           3        2
## 8490         129          14           1        2
## 8491         111           5           5        3
## 8496         275           2           2        2
## 8498         248          12          10        2
## 8516         424          22           1        6
## 8518          62           2           2        1
## 8522         168          10           2        0
## 8526         172           9           6        9
## 8529         139           5           4        0
## 8537         167           3           3        1
## 8552         109           1           1        3
## 8585          91          11           5        2
## 8602         221           4           4        6
## 8627         180           2           2        0
## 8647         204           5           5        4
## 8674         150           9           7        2
## 8709          81           4           4        1
## 8711         164           5           3        2
## 8712         129          15           1        0
## 8721          48           4           4        1
## 8735         165          21           5        4
## 8767         312           2           2        1
## 8783         135          16          12        0
## 8795         126           9           7        3
## 8804         266           3           3        1
## 8824         122           5           5        0
## 8835         271           6           2        0
## 8862         246           5           5        1
## 8864         356           3           3        3
## 8890         161          38           2        2
## 8895         143           9           9        5
## 8906         240           7           7        2
## 8944         121          11           7        0
## 8946         442           5           5        0
## 8953          59          18          12        1
## 8963         200           7           2        0
## 8966         130           3           3        0
## 8977         468           6           6        4
## 9042          38           6           6        0
## 9047         204           4           4        3
## 9048         311          12           6        4
## 9056         105           7           7        2
## 9057         191           3           3        0
## 9058         269          29          11        2
## 9083         255          18           1        0
## 9091         198           5           5        3
## 9096         249          15           7        2
## 9098         395           1           1        1
## 9101         134           2           2        1
## 9103          67           4           4        1
## 9140         404           1           1        3
## 9154         452           4           4        4
## 9160          88          11          11        0
## 9163         230          73          18        2
## 9202         214           9           6        3
## 9240         135          10           9        3
## 9243          85           2           2        8
## 9245         199          15          15        0
## 9254          35           7           2        2
## 9286         109          37          11        0
## 9294         143          47           9        0
## 9321         291           5           5        1
```

```
## 9336                143                15              2        1
## 9380                209                10             10        4
## 9383                166                 9              9        2
## 9388                117                 5              3        6
## 9413                170                 3              2        3
## 9431                186                28              8        1
## 9432                430                10             10        2
## 9444                 89                14              6        0
## 9459                170                40              6        3
## 9464                162                15             15        0
## 9474                287                 3              3        2
## 9481                236                 5              5        6
## 9497                171                 6              6        0
## 9499                385                 3              3        3
## 9503                 82                17             17        2
## 9506                205                14              9        2
## 9509                214                 4              4        1
## 9522                337                 4              4        1
## 9546                221                43             27        1
## 9559                 18                 6              6        0
## 9573                133                29              2        2
## 9610                484                10             10        2
## 9614                223                11              2        0
## 9627                122                17             17        0
## 9628                332                 3              2        4
## 9629                142                10              4        1
## 9652                210                 2              2        8
## 9677                178                18              9        1
## 9681                206                 5              5        0
## 9690                 79                 2              2        1
## 9697                237                29             19        3
## 9701                137                12             12        1
## 9705                130                 5              5        4
## 9714                217                 6              3        6
## 9718                216                 7              7        3
## 9722                126                 3              3        2
## 9748                151                16              9        0
## 9751                180                 3              3        3
## 9753                111                 7              7        1
## 9773                143                 4              4        3
## 9783                256                14             11        0
## 9786                302                16             16        2
## 9796                198                 8              8        5
## 9811                141                31              8        0
## 9816                151                 7              3        1
## 9817                419                15              6        2
## 9820                249                 2              2        4
## 9834                186                37              9        5
## 9843                282                 1              1        5
## 9872                133                 3              3        6
## 9882                163                 8              8        2
## 9898                178                 4              3        4
## 9904                143                 4              4        2
## 9924                367                 9              9        0
## 9943                164                 3              3        3
## 9945                331                 7              3        7
## 9983                245                39              1        1
## 9988                181                 2              2        2
## 10024               162                18             13        3
## 10033               202                 3              3        2
## 10058                94                 1              1        1
## 10062                82                 4              3        6
## 10078               268                 0              0        3
## 10088               116                 6              6        4
## 10096                47                10              9        0
## 10110               142                 7              7        1
## 10166                90                 2              2        0
## 10167               205                 6              6        8
## 10192               147                 4              4        0
## 10195               227                13              3        4
##       mths_since_recent_bc mths_since_recent_inq num_accts_ever_120_pd
## 4                       62                     0                     1
## 7                        3                     3                     0
## 9                        0                     0                     7
## 14                       5                     0                     0
## 23                       7                     9                     1
## 34                       9                     6                     0
## 40                      13                     3                     0
## 49                       2                     9                     1
## 50                      10                    10                     2
## 51                       9                     4                     1
## 68                       2                     6                     0
## 82                      48                     0                     1
## 115                    123                    10                     2
## 140                     31                     7                     0
## 158                      6                     5                     0
## 162                     53                     1                     2
## 167                      8                     1                     2
## 182                      3                     3                     2
## 186                      5                     4                     0
## 200                    156                     1                     4
## 239                     42                     5                     0
## 249                      6                    23                     3
## 261                      7                     6                     0
## 273                      5                     2                     1
## 276                      1                     3                     0
## 345                     87                     9                     0
## 369                      6                     4                     0
```

```
## 379                 11                 12                  1
## 389                 13                  7                  1
## 395                  3                  1                  1
## 403                 25                 10                  0
## 408                  4                 10                  0
## 411                  1                  3                  5
## 426                  9                  8                  1
## 438                  4                  2                  4
## 441                 23                 14                  1
## 443                 10                  4                  0
## 468                  9                 13                  0
## 469                  7                 15                  2
## 480                  7                  8                  1
## 482                 25                  1                  0
## 483                 25                  5                  0
## 513                  8                  2                  1
## 566                  5                  2                  0
## 569                 44                 19                  1
## 587                101                  0                  1
## 597                  6                  6                  7
## 605                  0                  0                  0
## 627                 33                  1                  1
## 644                  9                 10                  0
## 677                  6                 10                  1
## 687                 21                  5                  1
## 708                 25                  2                  0
## 718                  1                  2                  1
## 721                  3                  3                  3
## 743                 18                  2                  0
## 744                 16                  6                  0
## 745                 22                  6                  1
## 758                  3                  2                  0
## 777                  4                  2                  2
## 802                  3                  3                  0
## 818                  7                  0                  0
## 832                 13                  1                  0
## 856                 76                 10                  3
## 857                 13                  5                  0
## 858                  7                  5                  2
## 882                 15                 11                  0
## 883                 27                  4                  1
## 889                 44                 11                  1
## 903                  2                  2                  0
## 907                 22                 19                  2
## 915                 11                  1                  0
## 920                 10                  9                  3
## 939                 20                  4                  1
## 954                 73                 11                  0
## 969                 88                 12                  0
## 1002                21                  9                  0
## 1015                 4                  1                  0
## 1024               104                  1                  0
## 1029                 7                  4                  1
## 1031                47                  8                  1
## 1053                 5                  5                  0
## 1057                16                  6                  0
## 1080                11                  4                  0
## 1108                 3                  5                  0
## 1109                31                  2                  0
## 1110                 7                  1                  3
## 1112                 4                  4                  0
## 1115                15                 12                  0
## 1121                 3                  6                  1
## 1122                 3                  3                  0
## 1139                23                  6                  1
## 1163                14                 14                  4
## 1181                 0                  7                  2
## 1187                16                 13                  0
## 1194                 1                  4                  0
## 1197                 7                  5                  4
## 1209                13                  6                  3
## 1224                 2                  2                  1
## 1257                20                  4                  0
## 1262                 1                  1                  1
## 1275                83                 11                  0
## 1336                 9                  0                  0
## 1343                18                 11                  1
## 1346                 5                  6                  3
## 1347                54                  7                  2
## 1379                 3                  0                  0
## 1418                15                  4                  1
## 1425                 9                  8                  0
## 1450                51                 14                  0
## 1451                 3                 10                  3
## 1452                14                  1                  2
## 1465                 1                  1                  1
## 1468                75                  1                  0
## 1478                 9                  4                  0
## 1479                90                  2                  0
## 1500                29                  3                  1
## 1509                46                  0                  0
## 1524               160                 12                  0
## 1533                 5                  2                  1
## 1534                26                  6                  0
## 1537                 4                  0                  0
## 1548                18                  5                  3
## 1566                18                  7                  0
## 1575                38                 10                  0
```

```
## 1620          13          8          0
## 1632           4          1          1
## 1661           7         13          0
## 1666           9          0          0
## 1679          22         13          0
## 1686           2          2          0
## 1688           2          2          1
## 1726          99         11          4
## 1738          10          9          3
## 1744           2         11          0
## 1750           7          9          0
## 1754          17         24          1
## 1762           2          7          0
## 1809          23          1          0
## 1811          74         22          2
## 1819          21         21         10
## 1880          25          2          0
## 1881          14          0          8
## 1894           9          4          0
## 1900          13         20          0
## 1915          52         12          0
## 1919           9          1          0
## 1942           5         18          0
## 1943          18          2          0
## 1958           3          4          1
## 1991          17          6          0
## 1994           1          0          1
## 1997          15          5          3
## 2001          10          2          0
## 2013           0          4          3
## 2015          43          2          1
## 2018          43          2          0
## 2050          58          8          0
## 2074           3          6          2
## 2077           8          6          2
## 2092          18         14          0
## 2161          12          5          1
## 2165          21          4          1
## 2170          19          1          1
## 2171          49         16          0
## 2172          25          5          0
## 2192          14          6          0
## 2194         119         14          0
## 2196          20         14          1
## 2248          84         14          0
## 2253           4         10          0
## 2254           8         15          0
## 2257           7          1          1
## 2263           5          5          2
## 2277          25          9          2
## 2289           2          5          0
## 2303          27          2          0
## 2312           5          0          5
## 2318          38          0          0
## 2320          13          1          1
## 2326          21          8          1
## 2328           2          9          0
## 2341          10         10          2
## 2348          10          4          0
## 2370          17          4          4
## 2376           4          4          0
## 2382          14          1          1
## 2385          24          9          3
## 2406          16         13          3
## 2409           8          0          0
## 2421           7          0          4
## 2456          28          1          1
## 2462           6          0          1
## 2476           7         18          0
## 2481          31         16          0
## 2488          16         13          0
## 2496           2          7          0
## 2520           8          6          0
## 2531          59         18          0
## 2541          20          6          0
## 2544          19          4          0
## 2563           9          3          2
## 2568          22          3          0
## 2580          16          5          0
## 2599          38          4          0
## 2600          37         12          0
## 2602           4          4          0
## 2605          16         14          0
## 2615          19          6          2
## 2620          93         16          0
## 2623          16         18          1
## 2651           4          3         11
## 2655           6          7          0
## 2659          26          3          1
## 2660          20          3          0
## 2663          28          1          1
## 2667           7         10          0
## 2672          16          0          1
## 2677          11          5          1
## 2690          10          5          3
## 2695          11          7          1
## 2702           2          6          0
## 2710          23          7          0
```

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## 2738          13          6          4
## 2742           8          4          0
## 2745           3         17          2
## 2773          10          4          1
## 2787          14          2          0
## 2792          15         14          5
## 2803           1          3          0
## 2813          13         16          0
## 2817          18         17          1
## 2819           4          4          0
## 2832          21          0          0
## 2857           2          1          0
## 2860          34          2          1
## 2865          59          4          0
## 2875           7          2          1
## 2880          87          6          1
## 2894          25          6          0
## 2899          12          2          3
## 2912          21          1          0
## 2927          10         12          0
## 2933          13         14          0
## 2947         170          2          1
## 2951          19         10          1
## 2957          45          5          0
## 2961          12          1          1
## 2968           1          0          0
## 2971           9          4          1
## 2995           2          0          0
## 3032          38          1          1
## 3036          13          6          2
## 3040           2         10          1
## 3053           3          4          2
## 3062          64         18          1
## 3067           5          9          0
## 3074          23          1          1
## 3092           5          1          2
## 3102          24          0          3
## 3119          23          1          0
## 3123          39          2          1
## 3134           6         19          5
## 3141          12          4          1
## 3143          10          1          1
## 3173         126          2          1
## 3178          52         14          2
## 3186          83          0          0
## 3204           2          3          4
## 3210          37          4          0
## 3211          35         12          1
## 3218          13         13          0
## 3230          36         19          1
## 3251          24          1          2
## 3262           3          1          4
## 3269          44          6          0
## 3271           7          0          0
## 3278           7          1          0
## 3282         152          2          0
## 3302          88          5          2
## 3318          11          5          0
## 3323          12          3          5
## 3367          24          3          1
## 3376          11          1          3
## 3392           6          6          5
## 3409          10         10          0
## 3416           3         15          0
## 3436           3          1          1
## 3441          73         12          0
## 3472          31          9          0
## 3485          21          6          2
## 3492           0          1          1
## 3494           4          1          0
## 3501          10         16          2
## 3506          59          9          0
## 3530          15          4          0
## 3565          48          6          0
## 3577           1          1          1
## 3613          70          3          0
## 3617          16          9          5
## 3639          14         20          3
## 3657           8          8          4
## 3668           5          0          0
## 3686          58          7          0
## 3698           7          1          0
## 3704         201          6          1
## 3707          12         12          0
## 3780         120         12          0
## 3790          60          8          3
## 3794          14          1          4
## 3796          12          1          0
## 3822          12          8          1
## 3825          19          6          0
## 3861          14         14          3
## 3887           6          0         16
## 3921           3          9          4
## 3922           2         22          0
## 3926           9          1          0
## 3943           2          0          6
## 3954           7          3          0
## 3964          15         24          0
```

```
## 3976                1                1                1
## 3984               10                1                2
## 4006               17               17                0
## 4010               11                6                1
## 4028               19                7                5
## 4043                1                0                0
## 4045                3                4                0
## 4053               33                2                1
## 4055               50                6                1
## 4057               12               10                2
## 4098                5                5                1
## 4100               25                0                1
## 4113                6                1                0
## 4119               13               20                0
## 4136                8                2                0
## 4138               13                5                2
## 4150               14               14                0
## 4169               10                1                6
## 4173                9                8                5
## 4193                5                3                3
## 4198               10               16                0
## 4203                2                7                0
## 4211                1                4                1
## 4220                3                6                0
## 4229                6               15                5
## 4247               17                2                0
## 4273                7               14                0
## 4274                2                0                1
## 4284               13                2                0
## 4301               22                1                1
## 4325                1                1                0
## 4349               13                3                0
## 4350                4                1                1
## 4370               25                8                0
## 4372                8                2                8
## 4388               20                6                0
## 4390               20                4                0
## 4400                2               13                1
## 4401               13                3                0
## 4402                6                6                1
## 4418                3                6                0
## 4421               46                6                0
## 4431               34               18                4
## 4440               19               11                1
## 4458               10                8                0
## 4461                8                1                0
## 4469                6                7                1
## 4472               32               10                0
## 4479               13                4                0
## 4483                5                1                0
## 4503                2                3                0
## 4519                3                3                0
## 4522                7                7                3
## 4525               11                0                1
## 4528                7                8                0
## 4538               10                7                1
## 4548               23                7                0
## 4554               31                7                2
## 4557               20               23                2
## 4569               18                4                1
## 4576               14                1                2
## 4590               20                1                0
## 4594               18               18                0
## 4604               59                3                0
## 4622                6                3                0
## 4626                7                0                1
## 4629               57                0                1
## 4633                7                7                0
## 4646               37                2                1
## 4650               14               14                0
## 4660                6               11                2
## 4673               14                3                2
## 4684               87               11                0
## 4699                7                1                0
## 4720               25                1                0
## 4724                1                4                0
## 4728               18                8                1
## 4751               31                1                1
## 4778               24               17                0
## 4812                2                5                0
## 4820                3                0                0
## 4835               28                0                0
## 4843                2                1                3
## 4876               20                3                2
## 4882               24                6                1
## 4895                4                1                0
## 4907               15                8                2
## 4912               21               13                0
## 4941                4                8                1
## 4952               29                0                0
## 4954               17               11                0
## 4956               47                0                2
## 4957               46                6                0
## 4959                6                2                0
## 4960                2                2                2
## 4987                5                0                3
## 5022               11                0                1
## 5027                1               17                1
```

```
## 5029          12          2          1
## 5053           1          0          6
## 5054          10          3          0
## 5055          24          6          0
## 5066          23          0          0
## 5069          47          1          0
## 5077           9          4          0
## 5091          31         15          0
## 5110           1          4          3
## 5114           4          2          1
## 5161          81          1          0
## 5215          39          2          1
## 5216          22          9          2
## 5219           7          7          8
## 5251          37          0          0
## 5254           8         10          0
## 5258          17          6          3
## 5269         159         18          0
## 5277          17          2          1
## 5285           5          3          1
## 5291          45         13          1
## 5292          10          1          2
## 5340          28          5          2
## 5341          24          1          1
## 5347           6          0          0
## 5373          23         16          0
## 5382          53          3          0
## 5394          49          9          0
## 5432          51          1          1
## 5443          22          1          0
## 5445          20          5          1
## 5454          11          6          0
## 5464           2          1          0
## 5479          53          7          0
## 5503           8         11          4
## 5514           7          8          1
## 5517           3          3          0
## 5545           1          0          3
## 5549           9          5          0
## 5558         113          9          0
## 5569          48         12          0
## 5590           2         16          0
## 5592           9          2          1
## 5608          27          9          0
## 5609           8         11          0
## 5611           2          0          0
## 5624           8         18          0
## 5651           9         10          1
## 5673          35         16          0
## 5692           3          3          0
## 5694          21          2          3
## 5716           4          4          1
## 5736          12         11          0
## 5745          46          6          0
## 5777           7         11          0
## 5789          27          2          2
## 5822          27         14          2
## 5831          31          2          2
## 5843          30         11          4
## 5863           3          0          1
## 5865         476          2          1
## 5868           3         10          0
## 5870           4          4          0
## 5882          60          5          0
## 5883          12          3          4
## 5888          12          1          0
## 5899           8          0          0
## 5902         137         16          1
## 5903          18          4          0
## 5904           6          5          0
## 5906          53         10          3
## 5907          11         16          2
## 5932          38          7          0
## 5933           1          1          1
## 5940          12         11          1
## 5942          20          0          0
## 5946           2          2          1
## 5955           2          6          1
## 5967           5          9          0
## 5973           7          2          5
## 5989          10         23          0
## 5999           8          2          2
## 6004          23         23          3
## 6024           4          4          1
## 6037           9          4          0
## 6038          68         12          1
## 6041          17          9          1
## 6047          72          3          4
## 6048           7          7          0
## 6052           2         12          0
## 6087           9          8          0
## 6102          38          7          5
## 6132          16          6          4
## 6139          18         10         14
## 6147           1          2          2
## 6154          18          0          6
## 6155           5         10          4
## 6156          18          5          2
```

```
## 6181                1                1                0
## 6186                5                5                1
## 6214               25                3                2
## 6217               25                3                0
## 6228                8                3                1
## 6232               30                7                0
## 6243               84                8                0
## 6248               23               23                6
## 6270                2                2                0
## 6274                5                3                1
## 6284               26               14                0
## 6309               56                7                0
## 6310                3                1                2
## 6317                6                1                2
## 6361                3                2                1
## 6366               27                2                0
## 6370                1                0                2
## 6393                8               10                2
## 6429                9               17                1
## 6448               10                7                1
## 6469               15                0                1
## 6481               10               18                2
## 6485               60                0                0
## 6492               27                9                0
## 6493                7                5                4
## 6499                6               14                0
## 6500                7                5                1
## 6510               49                0                1
## 6522               36               11                1
## 6528               26                7                0
## 6536               12                0                0
## 6550                6                9                3
## 6555               11               14                0
## 6559                0                0                0
## 6591                9                3                1
## 6641               42                0                0
## 6644               24                9                0
## 6646               32                0                1
## 6648               18                6                0
## 6682               91                3                0
## 6699               19               19                1
## 6700               47               18                3
## 6704               10                5                2
## 6716               14                3                0
## 6719                1                1                2
## 6724                2               11                0
## 6737               23                5                0
## 6795              151               10                1
## 6813                3                1                0
## 6826               17                2                6
## 6842               17                0                2
## 6852                2                6                1
## 6856                7                4                3
## 6866                1                1                0
## 6875                5                5                0
## 6901                2                2                4
## 6944               11                6                1
## 6952               39                4                0
## 6968                6                3                1
## 6980               14               17                0
## 6991               54                6                3
## 6992                4                3                0
## 7041               32                1                0
## 7046                9                6                0
## 7055                7               13                0
## 7070               32                0                0
## 7078                5                5                1
## 7083                2                5                2
## 7092               21                5                2
## 7093                6                6                1
## 7113                5                5                2
## 7128               31               10                1
## 7140               13                4                0
## 7154               61                0                0
## 7157                8               12                1
## 7170                7                4                0
## 7175                9                1                0
## 7181               27                9                2
## 7194                1                4                6
## 7200               14                0                0
## 7205              104                3                4
## 7209                3                3                3
## 7210               13                2                1
## 7211                1                1                0
## 7212               15                3                1
## 7246                4                6                1
## 7248               43                0                0
## 7260                2                0                3
## 7264                7                7                4
## 7277               15               12                0
## 7283                7                1                4
## 7286                4                4                2
## 7300               24                4                0
## 7332              114               13                1
## 7348                5                5                2
## 7350                4               14               12
## 7356               23                2                1
## 7367                8                4                0
```

```
## 7368          5          9          1
## 7369         42          8          1
## 7370          3          3          0
## 7376          3          4          2
## 7379         18          8          0
## 7388         14          6          0
## 7395          4          1          1
## 7398          6          0          0
## 7457         72          0          0
## 7471         18          4          0
## 7482          9          7          0
## 7507         18          1          0
## 7514          6          7          3
## 7519         46          4          0
## 7525          5          6          0
## 7527         57          3          7
## 7537          7          4          0
## 7542         15          6          3
## 7561         23          3          0
## 7569         15         12          6
## 7576          3          3          1
## 7639         33          8          0
## 7640         15          6          1
## 7650         12         11          0
## 7652          3          4          0
## 7672          2          4          0
## 7673         10          7          1
## 7674          2          5          1
## 7681          7         10          1
## 7683         87         10          2
## 7685          6          7          2
## 7702          2         15          1
## 7716         32         19          2
## 7717          5          9          1
## 7721         15          7          0
## 7726         19          0          0
## 7760          1          5          8
## 7766          7          1          0
## 7793          7         16          0
## 7802         12          5          1
## 7826         17          6          4
## 7846         14         21          0
## 7866        111          7          0
## 7883         15         14          1
## 7885         12         12          0
## 7911         12         10          8
## 7917         17          7          3
## 7919          4          2          0
## 7922          8          8          3
## 7928          6         13          0
## 7939         34          2          0
## 7941         29          3          0
## 7947          2          6          1
## 7955         20         20          0
## 7968         13          4          0
## 7969          3          4          0
## 7974          5          7          1
## 7982         12         13          0
## 7995          6         10          0
## 8000          5          1          1
## 8005         26          1          5
## 8007          8          0          1
## 8019         15          1          0
## 8021        142         10          0
## 8039         11          2          0
## 8055         11          2          8
## 8061         10          9          1
## 8066          9          6          0
## 8093          5          0          1
## 8095         33          3          3
## 8100          1          0          4
## 8142          8          0          3
## 8149          4          2          2
## 8152         47         10          0
## 8156         14          9          0
## 8165         22          7          1
## 8201          5          8          4
## 8203         24          7          0
## 8209          3          2          1
## 8224          0          0          0
## 8246         22          8          2
## 8256         19          0          3
## 8267         52         23          1
## 8272         21         13          1
## 8284          7          7          0
## 8295        129          9          0
## 8316         38          1          0
## 8336         16          0          0
## 8355         17          3          0
## 8360          1         11          1
## 8364         10          0          0
## 8379         12          9          5
## 8391          4          0          0
## 8392         25          7          3
## 8396          0          1          1
## 8437         22         19          2
## 8459          3          3          0
## 8462         29          6          0
```

```
## 8477          17          0          5
## 8482          41          8          6
## 8490          14          3          1
## 8491          20         10          0
## 8496           3          2          1
## 8498          12          0          2
## 8516          22         18          0
## 8518           2          2          2
## 8522          40          2          0
## 8526          18          6          1
## 8529           5          5          3
## 8537          15          5          6
## 8552           1          1          1
## 8585          11          6          0
## 8602           4          9          0
## 8627           2          2          0
## 8647           7          4          6
## 8674           9          7          0
## 8709           4          4          2
## 8711           5          3          1
## 8712          28         15          0
## 8721           4          8          1
## 8735         155         22          1
## 8767          10          0          0
## 8783          16          0          1
## 8795           9          1          0
## 8804           3          1          0
## 8824          26          8          0
## 8835           6          3          0
## 8862           5          7          0
## 8864           3         10          1
## 8890          38          4          0
## 8895          12          1          0
## 8906           7          0          0
## 8944          12          7          1
## 8946          14         13          0
## 8953          18         12          0
## 8963           7          2          1
## 8966          18          3          0
## 8977           8          4          1
## 9042           6          6          0
## 9047          29          3          2
## 9048          12          2          0
## 9056           7          2          3
## 9057           3          0          0
## 9058          77         11          0
## 9083          18          2          1
## 9091           5          4          2
## 9096          17          0          0
## 9098           1          1          1
## 9101           2          9          1
## 9103           8          0          1
## 9140           5          0          7
## 9154          11          7          0
## 9160          11          5          0
## 9163         230          2          1
## 9202           9          6          4
## 9240          10          9          0
## 9243           2          4          0
## 9245          16          9          0
## 9254           7          5          0
## 9286          42          2          2
## 9294          47          9          0
## 9321           5         17          1
## 9336          59          2          0
## 9380          55         10          3
## 9383           9         19          0
## 9388          16          3          0
## 9413           3          3          5
## 9431          28          3          1
## 9432          10          7          1
## 9444          14          6          2
## 9459          47          0          4
## 9464          33          2          0
## 9474           4          8          0
## 9481          35          3          6
## 9497           8          7          2
## 9499          11          9          1
## 9503          46         17          0
## 9506          14         10          6
## 9509           8          8          0
## 9522           4          4          1
## 9546          43          2          1
## 9559          18          1          1
## 9573          38          3          0
## 9610          10         15          0
## 9614          11          3          2
## 9627          17         17          0
## 9628           6          2          1
## 9629          10          4          3
## 9652           2          2          0
## 9677          18         10          1
## 9681           5         19          1
## 9690           2          0          2
## 9697          39         19          1
## 9701          12         12          2
## 9705           5          5          6
## 9714           6          1          0
```

```
## 9718                  129                   16                    0
## 9722                   56                    1                    0
## 9748                   16                    6                    0
## 9751                    6                    5                    0
## 9753                    7                    3                    3
## 9773                    8                    4                    0
## 9783                   14                    2                    1
## 9786                   81                   16                    1
## 9796                    8                    0                    0
## 9811                   53                    8                    0
## 9816                   11                    2                    0
## 9817                   15                   15                    0
## 9820                   12                    8                    4
## 9834                   37                    9                    1
## 9843                    1                    9                    0
## 9872                    7                    1                    1
## 9882                    8                    1                    1
## 9898                    4                    4                    0
## 9904                    4                    1                    1
## 9924                   31                    8                    0
## 9943                    3                    3                    0
## 9945                   41                    6                    0
## 9983                  245                   18                    1
## 9988                    2                    0                    5
## 10024                  18                    4                    5
## 10033                   3                    2                    3
## 10058                   1                    1                    1
## 10062                   4                    2                    1
## 10078                  32                    0                    5
## 10088                  10                    1                    0
## 10096                  10                    0                    0
## 10110                  62                    6                    0
## 10166                   9                    0                    3
## 10167                 113                    6                    0
## 10192                   4                    2                    2
## 10195                  16                    4                    0
##       num_actv_bc_tl num_actv_rev_tl num_bc_sats num_bc_tl num_il_tl
## 4                  2               2           2         7        28
## 7                  3               4          10        17         8
## 9                  2               2           5        11         4
## 14                 2               3           3         9         8
## 23                 6              14           7        13        11
## 34                 4               5          14        15        10
## 40                 2               4           2         2         3
## 49                 2               3           3         5        16
## 50                 2               2           6        10        12
## 51                 2               2           4         4         3
## 68                14              14          15        26         4
## 82                 1               2           4         9         5
## 115                1               1           1         3         9
## 140                5               6           6         7         3
## 158                6               8           8        15        24
## 162                1               2           1        10         8
## 167                3               5           3         3         8
## 182                1               1           5        11        19
## 186                2               2           5         8         3
## 200                2               4           2         3         8
## 239                0               0           3         4        17
## 249                2               4           2         7         8
## 261                1               1           1         1         6
## 273                1               1           2         5        14
## 276                5               9           8         8        46
## 345                1               3           2         2        23
## 369                7              15          14        17         5
## 379                7              10           9        12        10
## 389                3               8           3         4         3
## 395                4               4           6        11        12
## 403                2               3           3         3         4
## 408                5              11           8        17         8
## 411                0               1           4         5        16
## 426                7              12           9        12         5
## 438                4               9           5        12         8
## 441                2               3           2         3        14
## 443                2               4           3         5         9
## 468                1               2           4         4         1
## 469                6               7           6        12        11
## 480                3               7           7         7         7
## 482                1               1           3         6        19
## 483                4               4           4         5        10
## 513                0               0           2         3         5
## 566                2               3           2         9        27
## 569                1               1           2         3        12
## 587                5               6           5         9        12
## 597                9              11          10        10        18
## 605                7               9           7         7        10
## 627                8              11           9        12         7
## 644                1               2           2         3         3
## 677                1               1           1         1         4
## 687                3               3           3         7        16
## 708                1               7           2         8        21
## 718                5               8           7        22        20
## 721                0               1           2         4        30
## 743                4               4           4         4         4
## 744                3               4           3         5         4
## 745                5               6           5         6        10
## 758                1               3           1         4         7
## 777                5               5           5         5         9
## 802                8              11          10        14        10
```

```
## 818          4          4         12         26         13
## 832          3          3          6         15         32
## 856          1          1          1          4          6
## 857          7         13          9         10         11
## 858          3          4          7         11         22
## 882          6          8         11         16          3
## 883          1          3          1          2          7
## 889          2          5          6          7          8
## 903          4          6          9         11          4
## 907          7          9          7          9          6
## 915          6          9          6          7          5
## 920          2          3          3          3         14
## 939          2          2          2          3         11
## 954          1          2          1          4         14
## 969          2          4          2          7         12
## 1002         4          6          5          7         11
## 1015         5          5          9         16          1
## 1024         1          2          3         10         20
## 1029         3          4          6         10          9
## 1031         1          3          1          8          7
## 1053         4          5          7         10         28
## 1057         4          7          4          5         17
## 1080         2          5          5          7          8
## 1108         5          6          5          8          9
## 1109         1          3          1          4          6
## 1110         2          5          6          9         23
## 1112         5          5          6         10          8
## 1115         1          3          2          9          9
## 1121         8         10         10         13          6
## 1122         2          2          8         12          8
## 1139         3          3          4          6          5
## 1163         5          6          6         10          7
## 1181         6          6         17         20         25
## 1187         5          7          5          9          7
## 1194         4          5          6          7          2
## 1197         3          5          4         13          6
## 1209         2          2          4          9         25
## 1224         5          7          6         14         14
## 1257         6         10          6          9          9
## 1262         4          4          8          9          6
## 1275         1          8          2          2         12
## 1336         4         12          7         13          8
## 1343         0          0          2         12          6
## 1346         2          3          4          6          6
## 1347         1          1          3          4         10
## 1379         7          7          9         14         60
## 1418         3          6          3          5         20
## 1425         4          8          7          8         16
## 1450         2          2          2          2          3
## 1451         3          5          4          5         19
## 1452         6          7         14         17         16
## 1465         2          3          6         10         18
## 1468         1          5          1         10         14
## 1478         1          2          4          7          5
## 1479         2          3          2          4         11
## 1500         0          1          5         15         21
## 1509         2          5          2          4          9
## 1524         3          3          3          5          5
## 1533         4          5          6          7          9
## 1534         2          2          3          7          8
## 1537         4          5          6         10          6
## 1548         6          8          6          8          9
## 1566         4          5          4          6         17
## 1575         0          3          2          2          3
## 1620         2          4          4          5          4
## 1632         2          2          2          3          6
## 1661         4          6          4          6         18
## 1666        15         18         19         33         16
## 1679         3          3          4          4          8
## 1686         6          6          9          9          4
## 1688         4          4          4          7          8
## 1726         2          5          2          9         12
## 1738         7          7          7          8         13
## 1744         6          6          9         11          2
## 1750         4          5          4          5          6
## 1754         3          3          3          8          6
## 1762         2          3          3          6         13
## 1809         1          6          2          8          6
## 1811         2          2          2          4          3
## 1819         5          6          5         10         16
## 1880         4          4          7          7          3
## 1881         3          5          4          7          7
## 1894         1          1          2          3         11
## 1900         2          3          5          6          3
## 1915         2          5          2          6         14
## 1919         5          8          5          6         13
## 1942         2          2          2          2          8
## 1943         2          2          3          8         13
## 1958        10         15         19         20         14
## 1991         7          8          7          9         12
## 1994         2          2          2          6         11
## 1997         1          1          5          6         11
## 2001         5          6          5          5          6
## 2013         4          4          8         13          3
## 2015         1          2          2          8         15
## 2018         1          1          2          7         15
## 2050         1          2          3          4          4
## 2074         4          4          4         17          4
```

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## 2165          5          8          5          6          7
## 2170          2          6          2          2         10
## 2171          2          3          2          2         12
## 2172          1          2          5         18         25
## 2192          5          5          5          6          8
## 2194          2          4          2          3         13
## 2196          1          6          2          6         42
## 2248          2          2          3          5          4
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## 2277          3          3          5          8         55
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## 2303          2          2          2         14         14
## 2312          0          0          1          6         23
## 2318          2          5          6          8          3
## 2320          1          2          3          5          4
## 2326          3          3          3          4         17
## 2328          6          6          6          6          6
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## 2370          1          4          4          7         16
## 2376          8         10          8          8          6
## 2382          2          6          4         14         12
## 2385          2          6          2          6          3
## 2406          5          6          7          8         23
## 2409          2          4          3          5         33
## 2421          2          4          3          6         13
## 2456          2          2          2          3         37
## 2462          5          6          6         11          8
## 2476          1          2          5         10         11
## 2481          7         10          7          8          7
## 2488          6          9          6          6         21
## 2496          4          8          4          9         17
## 2520          6          7          6          6          4
## 2531          2          2          3          4          2
## 2541          1          1          2          9          4
## 2544          5          6          6          9          7
## 2563          5          5          5          8          3
## 2568          2          6          2          3         40
## 2580          2          2          4         10          2
## 2599          3          5          3          3         13
## 2600          3          3          6         12         50
## 2602          3          3          4          5          8
## 2605          4          5          7         11          4
## 2615          3          3          6          8          6
## 2620          0          1          1          3          4
## 2623          2          2          4          6          1
## 2651          2          3          4          6         29
## 2655          2          4          5          5         15
## 2659          2          2          2          4          7
## 2660          5          7          6          8         14
## 2663          3          5          3         12         10
## 2667          5          7          5          5         25
## 2672          1          1          1          6         12
## 2677          5          6          5          6          7
## 2690          3          3          4          5         11
## 2695          4          7          4          9          6
## 2702          3          6          5          9          8
## 2710          3          3          4          5          1
## 2738          2          3          3          5          9
## 2742          4          4          5          9         20
## 2745          2          5          3          5         16
## 2773          1          1          1          3         35
## 2787          2          4          5          6          9
## 2792          6          6          6         10          5
## 2803          7         12          8         10         16
## 2813          5          6          5          7          7
## 2817          3          4          4          4          6
## 2819          2          4          3          4         20
## 2832          2          5          3          3          5
## 2857          3         11          4          5         13
## 2860          5          7          6         10          3
## 2865          1          2          1         12         12
## 2875          5          7          7         10          4
## 2880          1          1          2          2          2
## 2894          2          3          4          7          7
## 2899          3          3          4          5          6
## 2912          7          8          8          9          4
## 2927          6          7          7          8         10
## 2933          2          2          9          9          7
## 2947          1          4          1          3          3
## 2951          3          3          4          8         10
## 2957          3          3          4          9          1
## 2961          3          6          8          9         17
## 2968          7          7          7         12          9
## 2971          3          5          5          6          6
## 2995          4          5          7         15          8
## 3032          3          6          3          5         11
## 3036          5          7          6         16          4
## 3040          5          5          5          8          4
## 3053          4          7          4         12          8
## 3062         10         10         10         10          8
## 3067          6          9          8         10          6
```

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## 3119          0          0          1          1          3
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## 3134          2          5          2         11          4
## 3141          5         14          6          8         10
## 3143          4          6          4          9         12
## 3173          2          4          2          5          6
## 3178          3          3          3          6          4
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## 3210          8          8         10         13          6
## 3211          3          3          4          5          6
## 3218          2          5          4          4         30
## 3230          3          4          3          3         11
## 3251          3          5          4          8          3
## 3262          3          6          4          6          3
## 3269          1          1          1          3          4
## 3271          3          4          7          8          8
## 3278          5          5          6         10         22
## 3282          2          6          2          2          5
## 3302          2          3          2          5          8
## 3318          8          9          9         10         24
## 3323          6         10          7         13         12
## 3367          3          4          3          5         13
## 3376          4          5          9         12          6
## 3392          2          3          2          4         11
## 3409          5          8          9         12         35
## 3416          3          3          3          3          5
## 3436         10         12         10         14          7
## 3441          0          0          1          4         10
## 3472          3          8          7          9         10
## 3485          2          6          2          5          5
## 3492          4         11          4          4         11
## 3494          3          7          5         12         29
## 3501          2          4          2          4         11
## 3506          2          2          2          3          5
## 3530          4          5          7         10          7
## 3565          2          4          2          4          8
## 3577          8         10          8         10          8
## 3613          1          1          2          8         10
## 3617          1          1          2          8          9
## 3639          4          5          4          5          8
## 3657          4          9          5         11         15
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## 3686          6          9          6          6         12
## 3698          3          4          5          6          9
## 3704          1          2          1          2          2
## 3707          1          3          3          8          5
## 3780          6         11          6          6          8
## 3790          2          2          3          5          9
## 3794          4          4          5         11         12
## 3796          2          2          3          5         19
## 3822          2          2          4          6         15
## 3825          7          7         10         11          6
## 3861          1          2          2          9         13
## 3887          5          8          5         23          2
## 3921          3          3          6         11         11
## 3922          3          4          3          4         14
## 3926          2          2          2          4         17
## 3943          5          8          6         13          2
## 3954          4          6          5         10         20
## 3964          4          5          6          7          6
## 3976          7         12          7          8          6
## 3984          2          2          3          3         18
## 4006          2          4          4          5          9
## 4010          2          2          4          4          5
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## 4045          4          5          6          9          2
## 4053          3          6          3          3         29
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## 4057          1          2          2          4         10
## 4098          5          6          7         11          8
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## 4113          5         10          5          6         36
## 4119          2          3          3         12          6
## 4136          5         10          5         19          3
## 4138          6          8          7         11         23
## 4150          2          4          2          4          2
## 4169          6          6          6         13          8
## 4173          8         16          8         11          7
## 4193          5          6          7          9          5
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## 4203          5          8          6          6          8
## 4211          6          7         14         24         17
## 4220          3          4          3          8          4
## 4229          2          3          3          6         20
## 4247          4          4          7         10          3
## 4273          1          1          2         11         29
## 4274          3          4         15         18         28
## 4284          8          9         13         13          3
## 4301          3          4          3         13         16
## 4325          5         11          6         22         16
## 4349          2          3          3          8         18
## 4350          4          4         10         17          8
## 4370          3          6          3          5          7
```

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## 4372          4          5          5          6         17
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## 4390          6          6          6          8          9
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## 4401          7          8          7         10         11
## 4402          4         11          5         10         22
## 4418          4          5          4          6          5
## 4421          2          3          2          5         12
## 4431          1          1          1          1          6
## 4440          1          2          4          7         11
## 4458          1          1          2          3          2
## 4461          1          2          2          3         19
## 4469          2          4          8          9          5
## 4472          1          1          1          7          9
## 4479          4          4          5          6          9
## 4483          1          1          2          3          6
## 4503          3          5          5         10          4
## 4519          6          6          6          7         10
## 4522          1          3          3          6          3
## 4525          2          5          2          4          9
## 4528          5          9          5         22         10
## 4538          1          7          2          4         17
## 4548          3          5          4         12         20
## 4554          1          4          1          1          1
## 4557          3          4          3          7         13
## 4569          3          3          4          5         21
## 4576          2          2          3          6          4
## 4590          2          3          3          7          4
## 4594          5          6          5          6          4
## 4604          2          2          4          4         15
## 4622          4          5          4          6          3
## 4626          3          4          3          4          8
## 4629          1          5          1          5          6
## 4633          2          7          3         12         18
## 4646          2          3          2          3          6
## 4650          1          2          1          9         13
## 4660          3          5          6         10          8
## 4673          3          4          3          6          1
## 4684          1          4          1         11          4
## 4699          3          4          3          4         14
## 4720          1          2          1          4         13
## 4724          5          5          7         10          8
## 4728          0          1          1          1          2
## 4751          1          1          1          2          4
## 4778          3          6          3          3         13
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## 4820          4          4          5         10         22
## 4835          2          3          3          9         11
## 4843          1          3          2         14         12
## 4876          3          3          3          5         10
## 4882          0          1          3          5          6
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## 4907          3          6          3          3          9
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## 4941          5          6          7          9          9
## 4952          6          9          6          6         10
## 4954          4          6          6          7         15
## 4956          1          5          1          4          3
## 4957          2          2          4          8         16
## 4959          9         13         11         11          6
## 4960          1          1          7         11         22
## 4987          5         10          9         13         15
## 5022          0          2          3          5          1
## 5027          4          4          9         10          3
## 5029          2          4          7          9          5
## 5053          6         10          9         14          8
## 5054          4          4          4         10          4
## 5055          3          3          3         11          9
## 5066          2          2          6         15         45
## 5069          4          5          8          9          9
## 5077          3          7          5          6          5
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## 5110          5          5          5          6         12
## 5114          4          4          4          4          2
## 5161          1          2          1          3         29
## 5215          1          1          1          2          7
## 5216          2          4          3          5          8
## 5219          8         16          9         18         15
## 5251          2          2          3          4          2
## 5254          7         12         10         12         17
## 5258          2          3          3          7          7
## 5269          0          0          1          5          6
## 5277          2          3          3          3          9
## 5285          2          3          3          4         12
## 5291          3          3          3          5         13
## 5292          2          4          5          6         10
## 5340          1          4          1          4         18
## 5341          3          4          9         14          3
## 5347          3          3          6          6         14
## 5373          3          3          4         19         14
## 5382          4          6         10         19         21
## 5394          1          2          2          2         34
## 5432          1          2          1          1          3
## 5443          6          6          8         13          6
## 5445          6         16          8          9          2
## 5454          6          7          8          9          5
## 5464          3          5         10         11          4
## 5479          4          4          5          6          4
```

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## 5503          3          3          3          3         10
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## 5517          3          4          5          7          2
## 5545          9          9         11         12          4
## 5549          4          5          6          8         12
## 5558          1          4          1          3          9
## 5569          1          2          3          8          3
## 5590          2          2          3          4         19
## 5592          2          2          2          2         10
## 5608          4          7          5          9         11
## 5609          4          8          4         11          7
## 5611          6         10          6          7          9
## 5624          3          4          4          4          5
## 5651          2          2          4          6          5
## 5673          2          2          4          6         18
## 5692          3          5          4          4          5
## 5694          1          1          2         15          7
## 5716          3          4          3          5         13
## 5736          5          6          5          5          3
## 5745          1          1          1          2          7
## 5777          4          7          4          5          2
## 5789          1          2          2          2          7
## 5822          5          5          5          5          4
## 5831          2          3          2          6          5
## 5843          1          4          1         10          8
## 5863          6          6         10         13          5
## 5865          0          2          1          5          8
## 5868          4          6          4          7          5
## 5870          3          4          5          5          6
## 5882          3          3          3          5          9
## 5883          4          7          4          5          4
## 5888          4          5          4          4          4
## 5899          7         17         10         10         29
## 5902          2          3          2          3          4
## 5903          2          3          3          3          6
## 5904          1          1          2          3          6
## 5906          5         12          6         13          7
## 5907          1          2          3         11         11
## 5932          1          1          3          3         10
## 5933          7         10          9         14          4
## 5940          1          3          1          2          5
## 5942          2          2          4          5         20
## 5946          3          5          5          5          2
## 5955          3          4          6         11          6
## 5967          7         13          9         15         18
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## 6004          2          2          3          3          5
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## 6038          3          4          3          3         14
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## 6048          3          5          3          4          2
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## 6155          6         11          6         14          9
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## 6217          1          1          3          8          7
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## 6232          4          6          6          6         24
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## 6248          3          9          3         15          3
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## 6284          5          5          5          9         12
## 6309          4          8          6         10         14
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## 6317          1          1          2          4         11
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## 6366          2          2          2          2          5
## 6370          0          1          1          2          6
## 6393          6          8          8         15         10
## 6429          5          5          9         11          4
## 6448          1          4          1         11         11
## 6469          1          4          1          1          1
## 6481          4         10          4          6          3
## 6485          4          6         10         12         37
## 6492          1          2          1          2          9
## 6493          3          6          7         12         11
## 6499          3          3          6          7          2
## 6500          3          4          5          6          4
## 6510          2          3          3          5         14
## 6522          1          2          1          3          5
## 6528          3          3          3          5          5
## 6536          4          5          4          4         10
## 6550          7         12          8         14         11
## 6555          5          7          9         15         12
## 6559          4          5          5          8          6
```

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## 6719          4          9          8         11         13
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## 6737          6          9          8          8         15
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## 6856          2          2          4         14          4
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## 6875          5          5          7         10         17
## 6901          5          6         13         13          9
## 6944          1          1          4          8          2
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## 6968          6          6          7         12         26
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## 6992          5          7          8          9         13
## 7041          1          1          3          5         10
## 7046          2          6          4          9          5
## 7055          8         16          8         14          5
## 7070          1          2          1          1          2
## 7078         10         12         13         23         15
## 7083          3          4          3          8          8
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## 7093          2          6          3          3          7
## 7113          3          3          4          4          7
## 7128          1          1          2          7          5
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## 7154          4          4          6         12         15
## 7157          5          6          5          5          1
## 7170          3          3          4          4         23
## 7175          0          0          2          3          3
## 7181         10         13         10         14         30
## 7194          3          3          4         19          4
## 7200          3          3          5          8         16
## 7205          1          5          2          6         23
## 7209         10         11         12         14          4
## 7210          4          9          5          6          5
## 7211         10         13         14         15         16
## 7212          3          9          6          8         11
## 7246          7         15         11         13          3
## 7248          2          2          2          2          4
## 7260          3          4          3          3          6
## 7264          4          9          6         12          7
## 7277          3          4          3          4         29
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## 7286          4          8          4          7          2
## 7300          0          0          1          1          5
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## 7348          4          6          5          6          8
## 7350          1          5          2          3         18
## 7356          4          6          5         11         12
## 7367          1          2          2          6          3
## 7368          7         11          8         10          3
## 7369          2          4          2          3          6
## 7370          1          1          4         14         14
## 7376          6          8          6          6          5
## 7379          2          2          3          4          8
## 7388         13         21         15         27         23
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## 7507          4          7          4          8          7
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## 7519          3          6          3          4          3
## 7525          2          4          4         12          9
## 7527          1          1          1          8         22
## 7537          2          4          2         15         12
## 7542          1          4          1          8         21
## 7561          2          4          2          9          8
## 7569          5          8          6         13         31
## 7576          1          1          1          5         11
## 7639          4          5          4          5          8
## 7640          3          4          5          6         21
## 7650          4          4          5          5          9
## 7652          5          5         10         13          6
## 7672          2          2          3          5          6
## 7673          7          8          7         11         11
## 7674         12         15         15         18         21
## 7681          2          5          4          5          6
## 7683          2          2          2          3          6
## 7685          2          5          5          5         21
## 7702          3          3          3          4          9
## 7716          4          4          4          6          8
## 7717          5          8         10         11          2
```

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## 7721          5          9          5          5          6
## 7726          4          9          4          4         10
## 7760          5          8          7          8         19
## 7766          6         12          6          8          5
## 7793          3          6          3          6          8
## 7802         11         13         14         16         16
## 7826          2          3          2          5         13
## 7846          1          1          2          4         13
## 7866          3          4          5          5         10
## 7883          2          3          2          6         12
## 7885          3          3          5          7         19
## 7911          2          2          2          9          6
## 7917          6          8          6         10         10
## 7919          6          8          6          6         13
## 7922          1          3          3          7          4
## 7928          5          7          6         10          8
## 7939          1          3          1          1         13
## 7941          0          3          2          4         14
## 7947         10         14         11         12          6
## 7955          2          5          2          2          2
## 7968          5          8          6          7          8
## 7969          4          6          5          8          7
## 7974          3          5          8         20         11
## 7982          1          1          1          2         10
## 7995          3          5          5         13          8
## 8000          4          5          5         10         10
## 8005          2          2          3          3         22
## 8007          2          2          3         11         17
## 8019          2          4          2          5          5
## 8021          1          1          1          3          7
## 8039          0          2          3          3         10
## 8055          6         10          7          8         31
## 8061          6         13          6         10         23
## 8066          4          6          6         12          3
## 8093          6          8          7         21          5
## 8095          3          3          3          7         29
## 8100          7         10          8         10          9
## 8142          4          7          4          5         13
## 8149          2          4          2          2          2
## 8152          1          5          1          6         10
## 8156          2          2          2          7         16
## 8165          5          8          8         11          8
## 8201         10         15         10         15          8
## 8203          2          3          3          5         13
## 8209          3          4          3          4          4
## 8224          2          2          6         16          8
## 8246          3          6          4          7         12
## 8256          1          1          2         15          6
## 8267          2          3          2          4         11
## 8272          2          2          2          3          3
## 8284          4          4          6          7          7
## 8295          1          2          1          5         11
## 8316          1          3          2          2          6
## 8336          4          4         10         14         12
## 8355          8         10          9         10         12
## 8360          7          7          9         10         14
## 8364          8         12         10         17         18
## 8379          2          3          4          4         16
## 8391          4          4          4          4          9
## 8392          2          2          3          5          8
## 8396          2          5          4          8         14
## 8437          4          4          6          8         11
## 8459          1          2          3          3         10
## 8462          2          2          3          4          9
## 8477          2          8          2          4          8
## 8482          1          5          1          3          7
## 8490          2          2          5          8          8
## 8491          6         13          7          9         16
## 8496          7          8         14         23          7
## 8498          4          4          8         17         11
## 8516          2          5          4          7         21
## 8518          3          3          5          6          7
## 8522          2          4          2         10         11
## 8526          1          4          1          3          1
## 8529          1          2          1         11          7
## 8537          3          4          3          9         11
## 8552          2          5          6          7         67
## 8585          1          1          3          5         23
## 8602          4          8          4          9         11
## 8627          6          9          6          8         37
## 8647          5          7          8         15          5
## 8674          1          1          3          5          4
## 8709          7          7          9         12         12
## 8711          2          2          3          6         10
## 8712          2          3          4         14         25
## 8721          2          7          2          2          6
## 8735          1          6          1          1         13
## 8767          3          3          5         10         10
## 8783          1          1          1          3          7
## 8795          2          3          6         12         21
## 8804          3          5          6         10         11
## 8824         12         14         12         15         10
## 8835          2          3          4         11         12
## 8862          3          5          3          3         10
## 8864          3          4          4          6          7
## 8890          6          6          7         10         11
## 8895          2          4          2          4         41
## 8906          4          4          7         10          4
```

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## 8944          2          3          2          3         12
## 8946          4          5          8         15          2
## 8953          4          7          4          4          4
## 8963          6          9          7          7         12
## 8966          7          8          8          9          5
## 8977          6          8         10         13          8
## 9042          3          7          5          5          3
## 9047          3          6          4         14         11
## 9048          4          6          4         11         15
## 9056          6          9          6         13          6
## 9057          2          3          7         13          4
## 9058          5          8          5          5         14
## 9083          7          7          7          8          6
## 9091          3          5          5          9         12
## 9096          7          8          8         10         11
## 9098          2          2          7         11          8
## 9101          8          8          8          9         26
## 9103          5          6          5          9         19
## 9140          4          5          4         10          5
## 9154          7         13         15         31          3
## 9160          4          4          6          9          4
## 9163          1          1          1          3         14
## 9202          1          4          3         11         10
## 9240          8          9         13         18          9
## 9243          5          6          5          7          9
## 9245          0          3          1          5          9
## 9254          2          2          2          2         11
## 9286          2          5          3          5          9
## 9294          1          3          1          2          8
## 9321          5          6          5          7          2
## 9336          2          3          2         10         31
## 9380          2          6          5         11         19
## 9383          2          3          2          4          5
## 9388          2          5          4          6         20
## 9413          4          4          6         12          9
## 9431          3          3          3          6          7
## 9432          3          9          3          3         12
## 9444          3          3          3          4         15
## 9459          2          2          4          8         14
## 9464          4          5          5          8         18
## 9474          4          7          4          8          5
## 9481          2          4          2          7          6
## 9497          3          4          3          7         14
## 9499          4          5          4         11          9
## 9503          1          3          1          2         10
## 9506          8         13          8         17          9
## 9509          4          4          5          5          2
## 9522          4          5          7         15         15
## 9546          8         12          9         13         10
## 9559          1          2          1          1          2
## 9573          1          3          1          2         14
## 9610          6          6          9         13         20
## 9614          4          7          5         21         49
## 9627          1          2          8         14          3
## 9628          4          6          4         10         10
## 9629          3          3          4         15         12
## 9652          6          7          7         15         10
## 9677          2          2          3          5          3
## 9681          4          5          5          8          5
## 9690          5          5          8         10         30
## 9697          2          3          3          8          1
## 9701          2          2          2          3          9
## 9705          3          3          5         10          5
## 9714          2          4          4         11         24
## 9718          1          2          1          6          8
## 9722          1          6          1          1          5
## 9748          7         10         10         12          7
## 9751          7         13          7          7         11
## 9753          1          1          1          1          4
## 9773          3          6          4          9         25
## 9783          4          8          5          6          5
## 9786          2          4          3          7          5
## 9796          7          9          7         11         14
## 9811          2          3          2          4          9
## 9816          8         11         11         16          5
## 9817          2          2          2         17          8
## 9820          3          6          3          3          9
## 9834          2          2          4          4          5
## 9843          5          5          8         16         26
## 9872          5          6          5          7          4
## 9882          4          5          4          5         11
## 9898          9         10         26         35          5
## 9904          6         13          8          9          8
## 9924          1          6          2          2          8
## 9943          5          6          5         10          9
## 9945          2          4          2          3         16
## 9983          1          1          1          2         12
## 9988          4          5          5          9         10
## 10024         2          4          3          8          5
## 10033         3          6          5         15          4
## 10058         6          7          6          6         14
## 10062         5          6          5          5          8
## 10078         2          3          4         11         10
## 10088         1          3          5          6          6
## 10096         2          4          2          2          6
## 10110        11         15         11         16          1
## 10166         8         12          8          9         36
## 10167         2          6          2          2          9
```

```
## 10192              7              10           9        11         2
## 10195              3               4           5         8         1
##       num_op_rev_tl num_rev_accts num_rev_tl_bal_gt_0 num_sats num_tl_120dpd_2m
## 4                 2            10                   2        4                0
## 7                12            25                   4       17                0
## 9                 7            16                   2       10                0
## 14                7            19                   3       10                0
## 23               17            26                  14       19                0
## 34               18            20                   5       23                0
## 40                4             6                   4        5                0
## 49                8            10                   3       12                0
## 50                6            12                   2       12                0
## 51                4             4                   2        6                0
## 68               22            41                  14       25                0
## 82                9            21                   2       11                0
## 115               2             7                   1        3                0
## 140               7            10                   6        9                0
## 158              13            23                   8       16                0
## 162               2            13                   2        3                0
## 167               7             8                   5       10                0
## 182               5            16                   1        7                0
## 186               5             8                   2        7                0
## 200               4            11                   4        8                0
## 239               5             6                   0        9                0
## 249               6            16                   4        8                0
## 261               1             3                   1        4                0
## 273               3             7                   1       10                0
## 276              18            19                   9       24                0
## 345               5             5                   3       10                0
## 369              31            39                  15       35                0
## 379              16            22                  10       21                0
## 389               9            10                   8       11                0
## 395               8            15                   4       12                0
## 403               4             4                   3        6                0
## 408              21            35                  11       25                0
## 411               6            10                   1        9                0
## 426              16            25                  12       19                0
## 438              17            35                   9       19                0
## 441               3             7                   3       10                0
## 443               6             8                   4        9                0
## 468               5             5                   2        6                0
## 469               7            20                   7       10                0
## 480              21            23                   7       25                0
## 482               3             7                   1        7                0
## 483               5             8                   4        7                0
## 513               2             4                   0        6                0
## 566               4            13                   3       25                0
## 569               5             9                   1       10                0
## 587               6            21                   6       11                0
## 597              12            15                  11       21                0
## 605              14            16                   9       16                0
## 627              14            23                  11       19                0
## 644               6             7                   2        7                0
## 677               1             3                   1        2                0
## 687               5             9                   3       19                0
## 708              11            25                   7       12                0
## 718              14            33                   8       17                0
## 721               4            16                   1        7                0
## 743               5             9                   4        6                0
## 744               8            15                   4       10                0
## 745               6             7                   6        9                0
## 758               3            14                   3        5                0
## 777               8             8                   5       15                0
## 802              20            27                  11       26                0
## 818              20            46                   4       27                0
## 832              10            21                   3       31                0
## 856               1             5                   1        3                0
## 857              15            17                  13       20                0
## 858              15            23                   4       16                0
## 882              16            24                   8       17                0
## 883               4             5                   3        8                0
## 889              10            13                   5       13                0
## 903              17            27                   6       19                0
## 907               9            12                   9       13                0
## 915              14            15                   9       17                0
## 920               4             4                   3        7                0
## 939               5             6                   2        8                0
## 954               3            14                   2        6                0
## 969               4            10                   4        7                0
## 1002              9            19                   6       15                0
## 1015             11            23                   5       12                0
## 1024              4            16                   2       13                0
## 1029             13            20                   4       18                0
## 1031              5            23                   3        6                0
## 1053              8            14                   5       14                0
## 1057             10            15                   7       14                0
## 1080             10            14                   5       13                0
## 1108              6            10                   6       12                0
## 1109              3             8                   3        5                0
## 1110             11            17                   5       23                0
## 1112              7            14                   5        9                0
## 1115              5            15                   3        8                0
## 1121             16            20                  10       21                0
## 1122              9            15                   2       11                0
## 1139              4             7                   3        9                0
## 1163              7            13                   6       12                0
## 1181             20            24                   6       31                0
## 1187              9            17                   7       12                0
```

```
## 1194          8          9          5         9          0
## 1197          8         21          5        10          0
## 1209          5         11          2        26          0
## 1224          8         22          7        14          0
## 1257         13         20         10        18          0
## 1262          9         12          4        13          0
## 1275         14         19          8        17          0
## 1336         18         32         12        21          0
## 1343          7         19          0        11          0
## 1346          9         18          3        11          0
## 1347          6          9          1         9          0
## 1379         10         21          7        34          0
## 1418          7         11          6        24          0
## 1425         13         15          8        25          0
## 1450          2         10          2         3          0
## 1451          9         15          5        14          0
## 1452         19         27          7        23          0
## 1465          8         19          3        10          0
## 1468          6         19          5         9          0
## 1478          8         15          2        11          0
## 1479          3         12          3         4          0
## 1500          9         20          1        16          0
## 1509          5          7          5        11          0
## 1524          4          8          3         6          0
## 1533          8         11          5        10          0
## 1534          5         12          2        10          0
## 1537          7         15          5         9          0
## 1548          8         10          8        10          0
## 1566          6          9          5        12          0
## 1575          6          7          3         7          0
## 1620          9         13          4        10          0
## 1632          2          3          2         5          0
## 1661          6          8          6         9          0
## 1666         24         45         18        33          0
## 1679          6          6          3        11          0
## 1686         13         13          6        16          0
## 1688          7         11          4        10          0
## 1726          8         17          5        11          0
## 1738         10         16          7        12          0
## 1744          9         13          6        10          0
## 1750          7          9          5        12          0
## 1754          4         11          3         6          0
## 1762          4          8          3         7          0
## 1809          9         19          6        12          0
## 1811          2          6          2         3          0
## 1819          7         17          6        19          0
## 1880          7          8          4        10          0
## 1881          6         10          5        12          0
## 1894         10         14          1        13          0
## 1900         13         17          3        15          0
## 1915          8         17          5        11          0
## 1919          9         12          8        12          0
## 1942          3          3          2         4          0
## 1943          3         26          2         7          0
## 1958         36         46         15        38          0
## 1991          9         15          8        13          0
## 1994          5         13          2        10          0
## 1997          7         12          1         9          0
## 2001         10         16          6        13          0
## 2013          9         15          4        10          0
## 2015          4         14          2         8          0
## 2018          4         17          1         5          0
## 2050         10         15          2        12          0
## 2074          5         27          4         7          0
## 2077         23         32          9        27          0
## 2092          7          7          6         8          0
## 2161          4          5          3         5          0
## 2165          9         11          8        12          0
## 2170          6          9          6        13          0
## 2171          5          5          3         7          0
## 2172          8         23          2        14          0
## 2192          5         10          5         8          0
## 2194          7         12          4         9          0
## 2196         13         32          6        29          0
## 2248          5         11          2         7          0
## 2253         10         17          8        12          0
## 2254         14         21          6        16          0
## 2257          6          6          3         9          0
## 2263          4          4          4         8          0
## 2277          5          9          3        22          0
## 2289         12         12          8        13          0
## 2303          5         20          2         9          0
## 2312          5         10          0         8          0
## 2318         10         14          5        13          0
## 2320          4          7          2         6          0
## 2326          3          4          3        18          0
## 2328          9         10          6        12          0
## 2341          5          7          2         6          0
## 2348         14         23         11        18          0
## 2370         12         21          4        16          0
## 2376         12         15         10        16          0
## 2382         18         38          6        20          0
## 2385          8         15          6        10          0
## 2406          9         10          6        16          0
## 2409          5         16          4        10          0
## 2421          6         12          4        10          0
## 2456          6          7          2        16          0
## 2462         10         19          6        13          0
```

```
## 2476          8          16           2       10           0
## 2481         15          22          10       18           0
## 2488         11          15           9       18           0
## 2496          9          23           8       12           0
## 2520          7           7           7        9           0
## 2531          3           4           2        6           0
## 2541          3          18           1        3           0
## 2544         10          16           6       14           0
## 2563          5          10           5       10           0
## 2568          9          16           6       14           0
## 2580          4          10           2        7           0
## 2599          6           6           5       16           0
## 2600          9          19           3       10           0
## 2602          5           7           3       10           0
## 2605          9          19           5       12           0
## 2615          6          12           3        8           0
## 2620          4           8           1        7           0
## 2623          5          12           2        6           0
## 2651          6           9           3       18           0
## 2655         11          14           4       13           0
## 2659          8          12           2       11           0
## 2660         11          15           7       16           0
## 2663          6          22           5        8           0
## 2667          9           9           7       13           0
## 2672          2          14           1       12           0
## 2677          7          10           6       10           0
## 2690          6           8           3        8           0
## 2695          8          15           7       12           0
## 2702         11          17           6       14           0
## 2710          5           9           3       10           0
## 2738          4           8           3        8           0
## 2742          6          23           4       12           0
## 2745          8          13           5       12           0
## 2773          1           3           1        4           0
## 2787         10          14           4       14           0
## 2792          9          17           6       11           0
## 2803         17          21          12       19           0
## 2813          6           8           6        9           0
## 2817          8          12           4       11           0
## 2819          7          10           4        9           0
## 2832          9           9           5       12           0
## 2857         19          25          11       24           0
## 2860          9          14           7       10           0
## 2865          4          37           2        5           0
## 2875          9          14           7       10           0
## 2880          2           4           1        3           0
## 2894          6          13           3        8           0
## 2899          5           7           3       10           0
## 2912          9          11           8       11           0
## 2927          9          11           7       11           0
## 2933          9           9           2       13           0
## 2947          4           8           4        5           0
## 2951          5          11           3        8           0
## 2957          4          10           3        5           0
## 2961         12          16           6       18           0
## 2968          9          17           7       12           0
## 2971          8           9           5       14           0
## 2995         13          24           5       18           0
## 3032          7           9           6       13           0
## 3036         14          34           7       16           0
## 3040          6          13           5        8           0
## 3053          8          25           7       12           0
## 3062         10          11          10       11           0
## 3067         12          15           9       16           0
## 3074          3           9           3        7           0
## 3092          3          10           3        5           0
## 3102          5           8           1        8           0
## 3119          1           4           0        6           0
## 3123          6          14           6        8           0
## 3134          6          20           5        7           0
## 3141         17          24          14       19           0
## 3143         12          20           6       16           0
## 3173          7          13           4        9           0
## 3178          3           6           3        6           0
## 3186          2           3           1        4           0
## 3204          3           9           2        8           0
## 3210         11          23           8       13           0
## 3211          6           7           3        8           0
## 3218         10          10           5       27           0
## 3230          4           9           4       15           0
## 3251          8          22           5        9           0
## 3262         10          17           6       13           0
## 3269          1           4           1        3           0
## 3271          9          10           4       13           0
## 3278          8          16           5       13           0
## 3282          6           7           6        7           0
## 3302          3          11           3        4           0
## 3318         11          17           9       23           0
## 3323         17          31          10       25           0
## 3367          4           8           4        7           0
## 3376         11          15           5       13           0
## 3392          4           6           3        9           0
## 3409         17          33           8       23           0
## 3416          8           8           3       12           0
## 3436         17          23          12       22           0
## 3441          1           7           0        4           0
## 3472         17          21           8       21           0
## 3485          8          18           6       11           0
```

```
## 3492          13          14          11          17           0
## 3494          11          26           7          16           0
## 3501           4           6           4           7           0
## 3506           3           6           2           6           0
## 3530           9          16           5          10           0
## 3565           4           7           4           8           0
## 3577          11          13          10          16           0
## 3613           2           9           1           4           0
## 3617           2          12           1           4           0
## 3639           6           7           5          10           0
## 3657          16          23           9          18           0
## 3668           7          11           7          10           0
## 3686           9          10           9          13           0
## 3698          11          18           4          13           0
## 3704           2           3           2           3           0
## 3707           9          18           3          10           0
## 3780          12          17          11          16           0
## 3790           3           9           2           9           0
## 3794           7          17           4          11           0
## 3796           3           5           2           5           0
## 3822           7          11           2          17           0
## 3825          10          11           7          16           0
## 3861           4          13           2           6           0
## 3887          11          47           8          14           0
## 3921           7          14           3          10           0
## 3922           8          13           4           9           0
## 3926           3           5           2          10           0
## 3943          13          26           8          13           0
## 3954           7          15           6          13           0
## 3964          10          17           5          13           0
## 3976          15          18          12          18           0
## 3984           4           5           2           6           0
## 4006           8          10           4          10           0
## 4010           4           5           2           5           0
## 4028           3          13           1          10           0
## 4043          16          24           5          17           0
## 4045          10          15           5          11           0
## 4053           8          10           6          16           0
## 4055           6           9           4          10           0
## 4057           4          10           2           5           0
## 4098           9          16           6          14           0
## 4100           6           8           3           7           0
## 4113          12          14          10          18           0
## 4119          13          26           3          16           0
## 4136          22          48          10          24           0
## 4138          12          18           8          26           0
## 4150           5           8           4           9           0
## 4169           8          16           6          11           0
## 4173          17          26          16          19           0
## 4193          12          15           6          13           0
## 4198           9          17           6          10           0
## 4203          12          15           8          19           0
## 4211          18          28           7          23           0
## 4220           4          11           4           6           0
## 4229           4           8           3           7           0
## 4247           8          12           4          10           0
## 4273           3          19           1          19           0
## 4274          17          24           4          20           0
## 4284          17          18           9          20           0
## 4301           9          22           4          13           0
## 4325          14          37          11          17           0
## 4349           6          12           3          12           0
## 4350          17          27           4          20           0
## 4370           6          12           6          10           0
## 4372           7           9           5          16           0
## 4388           3           8           1           5           0
## 4390           8          11           6          13           0
## 4400           9          10           5          11           0
## 4401          11          19           8          12           0
## 4402          16          23          11          21           0
## 4418           5           7           5           8           0
## 4421           4           9           3           9           0
## 4431           2           3           1           9           0
## 4440           6          13           2           8           0
## 4458           3           5           1           4           0
## 4461           6           7           2           9           0
## 4469          14          15           4          16           0
## 4472           4          13           1           8           0
## 4479           8          11           4          15           0
## 4483           2           7           1           4           0
## 4503           9          17           5          13           0
## 4519           7           9           6          13           0
## 4522           6          10           3           7           0
## 4525           5           7           5          10           0
## 4528          14          39           9          17           0
## 4538          10          14           7          14           0
## 4548           6          25           5           8           0
## 4554           8           8           4          10           0
## 4557           5          13           4           8           0
## 4569           4           6           3          10           0
## 4576           4           8           2           5           0
## 4590           7          20           3          10           0
## 4594           7           8           6          10           0
## 4604           6           9           2          11           0
## 4622           6           9           5           8           0
## 4626           4           5           4           6           0
## 4629           7          14           5          10           0
## 4633           9          21           7          13           0
```

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## 4646          4          5                3       6              0
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## 4724         11         16                5      12              0
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## 4820         10         17                4      11              0
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## 4843          4         21                3       6              0
## 4876          5          7                3       8              0
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## 4895          6          7                3       8              0
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## 4954         10         11                6      13              0
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## 4959         19         20               13      21              0
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## 4987         22         30               10      37              0
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## 5055          5         18                3       7              0
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## 5077         17         23                7      19              0
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## 5341         16         28                4      17              0
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## 5445         27         31               16      28              0
## 5454         12         13                7      13              0
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## 5545         11         12                9      16              0
## 5549          9         13                5      15              0
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## 5569          5         13                2       7              0
## 5590          6          9                2      10              0
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## 5716          6          9                4       9              0
## 5736          6          6                6       9              0
## 5745          2          5                1       6              0
## 5777          8         10                7       9              0
## 5789          4          9                2       8              0
## 5822          5          6                5       7              0
## 5831          4         11                3       8              0
## 5843          7         24                4      11              0
## 5863         11         15                6      13              0
## 5865          3          7                2       6              0
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## 5870          6          8                4       9              0
## 5882          3          8                3       9              0
## 5883          9         15                7      12              0
## 5888          7          7                5       9              0
## 5899         28         32               17      33              0
## 5902          4          9                3       6              0
```

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## 5933         13         18         10         15          0
## 5940          3          7          3          6          0
## 5942          4          7          2          6          0
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## 5955          7         15          4          9          0
## 5967         20         35         13         34          0
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## 6004          4          5          2          6          0
## 6024         16         19          4         20          0
## 6037          2          3          2          3          0
## 6038          5          7          4          8          0
## 6041         11         20          6         15          0
## 6047          6         38          4         10          0
## 6048         17         19          5         18          0
## 6052          8         10          6          9          0
## 6087          7          8          7         13          0
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## 6132          6         17          4          9          0
## 6139          2          3          1          9          0
## 6147          4         15          3          9          0
## 6154          6         11          4         12          0
## 6155         12         26         11         16          0
## 6156         11         14          5         14          0
## 6181          9         14          4         12          0
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## 6214         14         18         14         17          0
## 6217          8         17          1         11          0
## 6228         11         16          8         14          0
## 6232          8          9          6         15          0
## 6243          4          7          4         12          0
## 6248         12         31          9         14          0
## 6270         10         17          5         23          0
## 6274         12         21          6         13          0
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## 6317          4         11          1          7          0
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## 6469          5          7          4          6          0
## 6481         11         21         10         12          0
## 6485         12         17          6         32          0
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## 6493         14         23          6         17          0
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## 6528          4          8          3          7          0
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## 6550         15         28         12         16          0
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## 6644         19         36         12         22          0
## 6646          4          8          3         12          0
## 6648         12         12         11         15          0
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## 6716          4          4          2          7          0
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## 6724          7          7          5         10          0
## 6737         19         31          9         23          0
## 6795          5         14          4          8          0
## 6813         14         21         10         17          0
## 6826          4          9          2          7          0
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## 6856          7         23          2          9          0
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## 6875         12         17          5         15          0
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## 6968          8         15          6         18          0
## 6980         14         27         11         17          0
## 6991          3         15          2          4          0
## 6992         10         11          7         14          0
## 7041          4          8          1         12          0
## 7046         14         23          6         16          0
## 7055         18         31         16         23          0
## 7070          2          3          2          4          0
## 7078         21         38         12         26          0
## 7083          6         15          4          9          0
```

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## 7092          6          14           2       10           0
## 7093          7           7           6       10           0
## 7113          6           6           3        9           0
## 7128          3          14           1        7           0
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## 7154          6          17           4       10           0
## 7157          7           9           6        9           0
## 7170          7           9           3       16           0
## 7175          7          10           1        9           0
## 7181         14          21          13       20           0
## 7194          5          31           3        9           0
## 7200          6          11           3       20           0
## 7205          7          13           5       13           0
## 7209         17          22          11       19           0
## 7210         12          13           9       14           0
## 7211         20          24          13       26           0
## 7212         18          24           9       21           0
## 7246         32          34          15       35           0
## 7248          3           3           2        4           0
## 7260          5           5           4        9           0
## 7264         20          34           9       22           0
## 7277          6           8           4        8           0
## 7283          4          23           3        6           0
## 7286          9          13           8       10           0
## 7300          6          10           0        9           0
## 7332          9          11           5       10           0
## 7348         11          16           7       12           0
## 7350         13          26           5       15           0
## 7356          8          22           6       12           0
## 7367          3           7           2        6           0
## 7368         13          17          11       14           0
## 7369          5           9           4        7           0
## 7370          7          25           1       11           0
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## 7388         39          58          21       47           0
## 7395          3           5           2        4           0
## 7398         16          19           8       19           0
## 7457          5           7           5       20           0
## 7471          7          11           5       10           0
## 7482          9          15           4       15           0
## 7507         12          29           7       13           0
## 7514         11          11           6       13           0
## 7519          6          12           6        9           0
## 7525          7          16           4       10           0
## 7527          1          12           1        3           0
## 7537         14          43           4       17           0
## 7542          4          17           4       23           0
## 7561          4          22           4        6           0
## 7569          9          24           8       14           0
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## 7640         10          12           4       14           0
## 7650          7           7           4        8           0
## 7652         11          16           5       13           0
## 7672          4           6           2       10           0
## 7673          8          14           8       12           0
## 7674         18          26          15       29           0
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## 7683          2           3           2        4           0
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## 7716          4           9           4       12           0
## 7717         20          32           8       22           0
## 7721         10          12           9       15           0
## 7726         15          18           9       17           0
## 7760         13          15           8       20           0
## 7766         18          22          12       19           0
## 7793          9          16           7       13           0
## 7802         18          22          13       26           0
## 7826          5          16           3        9           0
## 7846          3           7           1        8           0
## 7866          6           6           4        8           0
## 7883          4           8           3        8           0
## 7885         10          19           3       12           0
## 7911          5          14           2        9           0
## 7917          9          14           8       12           0
## 7919          9          10           8       16           0
## 7922          5          13           3        7           0
## 7928         13          26           7       18           0
## 7939          6           7           3        7           0
## 7941          7          15           3       13           0
## 7947         15          16          14       19           0
## 7955          6           6           5        7           0
## 7968         12          13           8       19           0
## 7969          7          10           6       10           0
## 7974         18          41           5       22           0
## 7982          3           8           1        6           0
## 7995          8          26           5       11           0
## 8000          7          12           5        9           0
## 8005          7          12           2       19           0
## 8007          3          17           2        6           0
## 8019          4           9           4        7           0
## 8021          1           3           1        4           0
## 8039          6           8           2        8           0
## 8055         12          15          10       26           0
## 8061         15          22          13       21           0
## 8066         10          21           6       11           0
```

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## 8093          10          29           8       11           0
## 8095           7          14           3       18           0
## 8100          15          21          10       18           0
## 8142           7           8           7       10           0
## 8149           4           4           4        7           0
## 8152           5          12           5       10           0
## 8156           4          18           2        9           0
## 8165          15          22           8       19           0
## 8201          18          29          15       23           0
## 8203           8          11           3       10           0
## 8209           7          10           4        9           0
## 8224          12          31           2       19           0
## 8246           9          14           6       11           0
## 8256           2          26           1        3           0
## 8267           4          11           3        7           0
## 8272           5           6           2        7           0
## 8284           7          13           4       14           0
## 8295           2           6           2        6           0
## 8316           5           7           3        7           0
## 8336          16          23           4       19           0
## 8355          11          14          10       13           0
## 8360          10          12           7       15           0
## 8364          16          25          12       19           0
## 8379           9          17           3       16           0
## 8391          11          14           4       12           0
## 8392           3           5           2       11           0
## 8396          10          35           5       13           0
## 8437           6           9           4       10           0
## 8459           4           5           2        5           0
## 8462           5           6           2        8           0
## 8477          10          21           8       14           0
## 8482           7          16           5        9           0
## 8490           6           9           2       11           0
## 8491          18          21          13       24           0
## 8496          20          30           8       22           0
## 8498          11          28           4       16           0
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## 8518           9          10           3       12           0
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## 8526           5          11           4        7           0
## 8529           2          13           2        6           0
## 8537           9          20           4       14           0
## 8552          13          17           5       33           0
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## 8721           8           9           7       11           0
## 8735           6           8           6       17           0
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## 8783           2           4           1        4           0
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## 8824          17          23          14       22           0
## 8835           8          20           3       15           0
## 8862           7           8           5       10           0
## 8864           5          10           4        8           0
## 8890           7          11           6       10           0
## 8895          10          20           4       20           0
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## 8944           5           6           3        6           0
## 8946          15          27           5       16           0
## 8953           8           8           7       11           0
## 8963          12          16           9       19           0
## 8966          10          13           8       11           0
## 8977          18          24           8       22           0
## 9042          11          12           7       13           0
## 9047          11          27           6       14           0
## 9048           9          23           6       13           0
## 9056           9          17           9       15           0
## 9057          14          26           3       16           0
## 9058           8          13           8       12           0
## 9083           8          13           7       11           0
## 9091           9          18           5       13           0
## 9096          13          20           8       18           0
## 9098          15          25           2       17           0
## 9101          10          13           8       16           0
## 9103           6          14           6        7           0
## 9140           9          20           5       14           0
## 9154          30          62          13       33           0
## 9160           6          10           4        8           0
## 9163           1           5           1        9           0
## 9202           6          16           4        9           0
## 9240          15          22           9       18           0
## 9243           7          11           7        9           0
## 9245           6          14           3        7           0
## 9254           3           3           2        6           0
## 9286           9          14           5       12           0
## 9294           4           6           3        5           0
## 9321           7          11           6        9           0
## 9336           8          20           3       18           0
## 9380          11          21           6       18           0
## 9383           4          10           3        7           0
## 9388          10          14           5       16           0
```

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## 9413          8          18                4      12              0
## 9431          4           9                3       7              0
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## 9444          8          10                3      10              0
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## 9464          9          16                5      23              0
## 9474         10          18                7      13              0
## 9481          5          17                4       8              0
## 9497          7          13                4       9              0
## 9499          6          14                5       8              0
## 9503          4           5                3       7              0
## 9506         13          26               13      17              0
## 9509          6           7                4       8              0
## 9522          8          19                5      17              0
## 9546         14          20               12      18              0
## 9559          2           2                2       3              0
## 9573          3           4                3       9              0
## 9610         11          19                6      17              0
## 9614         10          36                7      21              0
## 9627          9          20                2      11              0
## 9628          6          13                6      11              0
## 9629         10          33                3      13              0
## 9652          9          20                7      15              0
## 9677          3           5                2       5              0
## 9681          6          10                5       8              0
## 9690          9          12                5      17              0
## 9697          5          13                3       8              0
## 9701          2           3                2       4              0
## 9705          5          10                3       6              0
## 9714          9          18                4      16              0
## 9718          3          18                2       8              0
## 9722          7          12                6      10              0
## 9748         13          17               10      15              0
## 9751         15          17               13      19              0
## 9753          2           4                1       4              0
## 9773         11          19                6      25              0
## 9783         10          12                8      12              0
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## 9811          4           6                3       7              0
## 9816         16          24               11      18              0
## 9817          3          22                2       5              0
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## 9834          4           6                2       6              0
## 9843          9          24                5      21              0
## 9872         11          17                6      16              0
## 9882          7          10                5       9              0
## 9898         36          50               10      40              0
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## 9924          7           9                6      13              0
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## 10062         7           7                6      10              0
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## 10088         9          14                3      12              0
## 10096         4           4                4       7              0
## 10110        18          27               15      20              0
## 10166        12          17               12      41              0
## 10167         6           8                6      10              0
## 10192        12          20               10      13              0
## 10195         8          17                4      10              0
##       num_tl_30dpd num_tl_90g_dpd_24m num_tl_op_past_12m pct_tl_nvr_dlq
## 4                0                  0                  1          97.3
## 7                0                  0                  5          97.1
## 9                0                  1                  2          61.9
## 14               0                  0                  2          96.3
## 23               0                  0                  6          93.9
## 34               0                  0                  4          96.8
## 40               0                  0                  1          88.9
## 49               0                  0                  2          88.9
## 50               0                  0                  2          88.5
## 51               0                  1                  1          85.7
## 68               0                  0                  5          96.2
## 82               0                  0                  1          96.6
## 115              0                  0                  1          75.0
## 140              0                  0                  1          84.6
## 158              0                  0                  3          98.0
## 162              0                  0                  4          75.0
## 167              0                  0                  6          87.5
## 182              0                  2                  1          94.7
## 186              0                  0                  3          90.9
## 200              0                  0                  1          84.0
## 239              0                  0                  3          86.4
## 249              0                  0                  4          70.8
## 261              0                  0                  2         100.0
## 273              0                  0                  1         100.0
## 276              0                  0                  6          98.2
## 345              0                  0                  3          93.1
## 369              0                  0                  4          97.9
## 379              0                  0                  1          97.1
## 389              0                  0                  5          86.7
## 395              0                  0                  3          85.7
## 403              0                  0                  2          88.9
```

```
## 408          0              0              7          95.9
## 411          0              0              7          81.5
## 426          0              0              2          93.1
## 438          0              0              5          86.7
## 441          0              1              3          91.3
## 443          0              0              5          78.9
## 468          0              0              2          50.0
## 469          0              0              1          94.1
## 480          0              0              3          96.7
## 482          0              0              4          93.5
## 483          0              0              2          95.5
## 513          0              1              3          88.9
## 566          0              0              3          97.4
## 569          0              0              1          95.7
## 587          0              0              4          97.1
## 597          0              0              5          75.9
## 605          0              0              2          85.7
## 627          0              0              2          94.3
## 644          0              0              3          90.9
## 677          0              1              1          77.8
## 687          0              0              4          95.8
## 708          0              0              3          88.9
## 718          0              0              8          97.8
## 721          0              0              4          82.9
## 743          0              0              0          84.6
## 744          0              0              1          90.5
## 745          0              0              2          94.7
## 758          0              0              3          95.2
## 777          0              0              6          81.0
## 802          0              0              9          97.6
## 818          0              0              5          96.7
## 832          0              0              3          96.4
## 856          0              0              1          71.4
## 857          0              0              0          93.1
## 858          0              1              6          83.7
## 882          0              0              1          96.2
## 883          0              0              3          92.9
## 889          0              1              2          90.0
## 903          0              0              4         100.0
## 907          0              0              0          88.9
## 915          0              0              3          95.7
## 920          0              0              3          83.3
## 939          0              0              2          94.1
## 954          0              0              3          96.6
## 969          0              0              1          83.3
## 1002         0              0              1          96.8
## 1015         0              0              4          95.8
## 1024         0              0              0          92.1
## 1029         0              0              4          90.6
## 1031         0              1              2          78.1
## 1053         0              0              1          91.7
## 1057         0              0              2          96.7
## 1080         0              0              2          96.6
## 1108         0              0              2          96.8
## 1109         0              0              1          72.7
## 1110         0              0              6          89.2
## 1112         0              1              1          81.8
## 1115         0              0              3          92.9
## 1121         0              0              7          89.7
## 1122         0              0              1          95.8
## 1139         0              0              2          92.9
## 1163         0              0              1          72.7
## 1181         0              0              8          95.9
## 1187         0              0              2          96.4
## 1194         0              0              5          90.9
## 1197         0              0              2          86.7
## 1209         0              0              3          92.5
## 1224         0              1              4          85.0
## 1257         0              0              2          90.3
## 1262         0              0              5          89.5
## 1275         0              0              1          96.8
## 1336         0              0              1          97.8
## 1343         0              0              3          97.0
## 1346         0              0              8          84.6
## 1347         0              1              2          81.8
## 1379         0              0              5          98.8
## 1418         0              0              5          96.8
## 1425         0              0              7          97.0
## 1450         0              0              0          84.6
## 1451         0              0              3          88.6
## 1452         0              0              3          95.7
## 1465         0              1              3          95.0
## 1468         0              0              1          93.9
## 1478         0              0              3          95.7
## 1479         0              0              0          83.3
## 1500         0              1              1          97.7
## 1509         0              0              1          81.8
## 1524         0              0              1          92.3
## 1533         0              0              5          91.3
## 1534         0              0              1          96.3
## 1537         0              0              2          87.0
## 1548         0              0              1          78.9
## 1566         0              0              2          96.3
## 1575         0              0              2          80.0
## 1620         0              0              1          94.1
## 1632         0              0              1          55.6
## 1661         0              0              2          92.6
## 1666         0              0              1          95.3
```

```
## 1679          0                0                0         93.3
## 1686          0                0                8         95.0
## 1688          0                1                3         90.9
## 1726          0                0                4         87.1
## 1738          0                0                1         78.8
## 1744          0                0                3        100.0
## 1750          0                0                4         93.8
## 1754          0                0                0         88.9
## 1762          0                0                5         86.2
## 1809          0                0                4         96.4
## 1811          0                0                1         91.7
## 1819          0               10                0         68.6
## 1880          0                2                0         80.0
## 1881          0                0                1         50.0
## 1894          0                0                4         82.1
## 1900          0                0                1         95.0
## 1915          0                0                3         96.8
## 1919          0                0                4         96.0
## 1942          0                0                2         90.9
## 1943          0                0                4         96.6
## 1958          0                0               13         98.4
## 1991          0                0                3         89.3
## 1994          0                1                3         68.0
## 1997          0                0                1        100.0
## 2001          0                0                3         87.5
## 2013          0                0                5         84.2
## 2015          0                1                2         96.7
## 2018          0                0                2         97.2
## 2050          0                0                3         95.7
## 2074          0                2                3         55.9
## 2077          0                0                4         93.2
## 2092          0                0                1         88.9
## 2161          0                0                2         83.3
## 2165          0                0                2        100.0
## 2170          0                1                3         95.5
## 2171          0                0                0         95.0
## 2172          0                0                1         96.1
## 2192          0                0                0         95.0
## 2194          0                0                0         92.9
## 2196          0                0                2         98.6
## 2248          0                0                0         76.5
## 2253          0                0                3         81.5
## 2254          0                0                3         93.1
## 2257          0                0                3        100.0
## 2263          0                0                1         80.0
## 2277          0                0                1         94.9
## 2289          0                0                5         93.3
## 2303          0                0                3         91.4
## 2312          0                1                6         81.6
## 2318          0                0                1         95.0
## 2320          0                1                0         91.7
## 2326          0                0                1         95.2
## 2328          0                0                2         94.1
## 2341          0                0                2        100.0
## 2348          0                0                6         97.1
## 2370          0                0                1         70.3
## 2376          0                0                4         90.5
## 2382          0                1                5         92.6
## 2385          0                0                2         85.0
## 2406          0                0                0         81.3
## 2409          0                0                2         98.1
## 2421          0                0                4         85.7
## 2456          0                0                5         97.7
## 2462          0                1                2         92.6
## 2476          0                0                1         89.3
## 2481          0                0                0         87.9
## 2488          0                0                4         97.4
## 2496          0                0                5         97.2
## 2520          0                0                1         92.3
## 2531          0                0                0         77.8
## 2541          0                0                1         95.5
## 2544          0                0                3         83.3
## 2563          0                0                4         86.7
## 2568          0                0                2         94.6
## 2580          0                0                0         85.7
## 2599          0                0                2         95.5
## 2600          0                0                0         97.2
## 2602          0                0                3         90.5
## 2605          0                0                0         87.0
## 2615          0                0                2         89.5
## 2620          0                0                0         87.5
## 2623          0                0                1         85.7
## 2651          0                0                5         69.4
## 2655          0                0                3         84.0
## 2659          0                0                4         85.7
## 2660          0                0                3         94.1
## 2663          0                0                3         96.8
## 2667          0                0                7         97.0
## 2672          0                0                1         42.3
## 2677          0                0                1         84.2
## 2690          0                0                4         82.4
## 2695          0                0                3         82.6
## 2702          0                0                4         96.0
## 2710          0                0                0         70.6
## 2738          0                1                1         72.2
## 2742          0                0                5         95.6
## 2745          0                0                4         93.1
## 2773          0                1                5         97.4
```

```
## 2787          0                0                4          72.4
## 2792          0                0                0          78.3
## 2803          0                0                6         100.0
## 2813          0                0                0          93.3
## 2817          0                0                0          94.7
## 2819          0                0                5          86.7
## 2832          0                0                1          93.3
## 2857          0                0                7          94.9
## 2860          0                0                1          94.1
## 2865          0                0                0          98.0
## 2875          0                0                1         100.0
## 2880          0                0                1          83.3
## 2894          0                0                1          96.0
## 2899          0                0                6          73.3
## 2912          0                0                3          93.3
## 2927          0                0                3          95.0
## 2933          0                0                0          95.0
## 2947          0                0                4          90.9
## 2951          0                0                3          95.8
## 2957          0                0                0          88.9
## 2961          0                0                3          91.9
## 2968          0                0                1          96.2
## 2971          0                0                7          94.7
## 2995          0                0                1          97.1
## 3032          0                0                1          86.4
## 3036          0                1                0          86.8
## 3040          0                1                1          83.3
## 3053          0                1                4          97.1
## 3062          0                0                1          89.5
## 3067          0                0                2          95.8
## 3074          0                0                2          95.0
## 3092          0                0                3          73.7
## 3102          0                0                0          69.2
## 3119          0                0                2          83.3
## 3123          0                0                0          86.2
## 3134          0                0                3          73.9
## 3141          0                0                6          88.9
## 3143          0                0                5          96.9
## 3173          0                0                1          95.0
## 3178          0                0                0          88.2
## 3186          0                0                1          88.9
## 3204          0                0                4          83.3
## 3210          0                0                0          96.9
## 3211          0                0                1          86.7
## 3218          0                0                4          66.7
## 3230          0                1                0          90.5
## 3251          0                0                2          78.6
## 3262          0                0                1          83.3
## 3269          0                0                1          84.6
## 3271          0                0                1          95.7
## 3278          0                0                3          97.7
## 3282          0                0                3          85.7
## 3302          0                0                2          95.2
## 3318          0                0                2          95.2
## 3323          0                0                6          84.4
## 3367          0                0                1          71.4
## 3376          0                0                6          94.4
## 3392          0                0                2          52.6
## 3409          0                0                9          98.5
## 3416          0                0                2          92.3
## 3436          0                1                3          96.8
## 3441          0                0                1          90.9
## 3472          0                0                2          96.8
## 3485          0                0                1          54.2
## 3492          0                0                5          92.3
## 3494          0                0                2          76.4
## 3501          0                0                3          78.9
## 3506          0                0                1          92.3
## 3530          0                0                0          91.3
## 3565          0                0                0          77.8
## 3577          0                0                3          85.7
## 3613          0                0                3          95.2
## 3617          0                0                3          73.9
## 3639          0                0                1          77.8
## 3657          0                0                9          88.4
## 3668          0                0                3          88.2
## 3686          0                0                1          92.0
## 3698          0                0                4          96.6
## 3704          0                0                0          83.3
## 3707          0                0                1          91.3
## 3780          0                0                3          93.1
## 3790          0                0                3          85.0
## 3794          0                1                5          83.9
## 3796          0                0                1          96.3
## 3822          0                0                3          96.6
## 3825          0                0                4          90.0
## 3861          0                0                2          85.2
## 3887          0                0                5          67.3
## 3921          0                0                9          68.0
## 3922          0                0                1          88.9
## 3926          0                0                2          95.5
## 3943          0                1                5          76.7
## 3954          0                0                3          84.2
## 3964          0                0                1          92.3
## 3976          0                0                1          92.3
## 3984          0                0                3          91.3
## 4006          0                0                3          81.0
## 4010          0                0                3          90.9
```

```
## 4028          0                0                2          86.5
## 4043          0                0                5          96.4
## 4045          0                0                2          94.1
## 4053          0                0                1          97.5
## 4055          0                0                2          90.5
## 4057          0                0                2          90.0
## 4098          0                0                3          96.6
## 4100          0                0                2          78.6
## 4113          0                0                5          98.1
## 4119          0                0                2          97.2
## 4136          0                0                6          98.2
## 4138          0                0                4          95.1
## 4150          0                0                0          91.7
## 4169          0                0                5          60.0
## 4173          0                0                5          80.6
## 4193          0                0                2          80.0
## 4198          0                0                2          95.0
## 4203          0                0                4          96.2
## 4211          0                0                7          98.0
## 4220          0                0                2          93.3
## 4229          0                0                6          76.7
## 4247          0                0                2          93.3
## 4273          0                1                3          91.7
## 4274          0                0                5          88.9
## 4284          0                0                0          85.7
## 4301          0                0                4          97.3
## 4325          0                0                6          90.3
## 4349          0                0                0          97.1
## 4350          0                0                4          97.2
## 4370          0                0                2          95.8
## 4372          0                0                2          38.5
## 4388          0                0                0          83.3
## 4390          0                0                4          95.2
## 4400          0                0                3          88.2
## 4401          0                0                0          96.7
## 4402          0                1                8         100.0
## 4418          0                0                2          76.9
## 4421          0                0                1          90.0
## 4431          0                0                1          50.0
## 4440          0                0                0          92.6
## 4458          0                0                2          42.9
## 4461          0                0                6          96.2
## 4469          0                0                6          94.7
## 4472          0                0                2          90.9
## 4479          0                0                2          87.0
## 4483          0                1                2          84.6
## 4503          0                0                3          70.8
## 4519          0                0                4          90.0
## 4522          0                0                2          76.9
## 4525          0                0                4          94.7
## 4528          0                0                4          95.9
## 4538          0                0                6          97.3
## 4548          0                0                1          95.7
## 4554          0                0                1          90.0
## 4557          0                0                0          72.4
## 4569          0                0                2          96.2
## 4576          0                1                0          60.0
## 4590          0                0                2          89.3
## 4594          0                0                0          84.6
## 4604          0                0                1          96.2
## 4622          0                0                1          83.3
## 4626          0                0                1          92.3
## 4629          0                0                2          81.0
## 4633          0                0               10          96.3
## 4646          0                0                4          84.6
## 4650          0                0                1          93.8
## 4660          0                0                3          71.4
## 4673          0                0                1          81.8
## 4684          0                0                1          94.6
## 4699          0                0                6         100.0
## 4720          0                0                2          96.4
## 4724          0                0                6          96.7
## 4728          0                0                0          71.4
## 4751          0                0                0          83.3
## 4778          0                0                0          86.4
## 4812          0                0                5          85.2
## 4820          0                0                7          97.1
## 4835          0                0                2          96.6
## 4843          0                3                2          92.1
## 4876          0                0                5          88.9
## 4882          0                0                2          83.3
## 4895          0                0                4          90.0
## 4907          0                0                2          77.8
## 4912          0                0                0          95.0
## 4941          0                0                3          84.6
## 4952          0                0                0          91.7
## 4954          0                0                1          96.6
## 4956          0                0                4          84.6
## 4957          0                0                3          96.9
## 4959          0                0                4          96.2
## 4960          0                1                6          83.3
## 4987          0                0               13          87.0
## 5022          0                0                3          94.4
## 5027          0                1                2          81.3
## 5029          0                0                3          85.2
## 5053          0                0                3          84.8
## 5054          0                0                3          63.2
## 5055          0                0                2          96.7
```

```
## 5066          0                0                3          98.7
## 5069          0                0                4          95.7
## 5077          0                0                3          92.9
## 5091          0                0                0          87.5
## 5110          0                0                2          86.4
## 5114          0                0                1          62.5
## 5161          0                0                5          83.8
## 5215          0                0                3          83.3
## 5216          0                0                4          91.3
## 5219          0                0                8          83.3
## 5251          0                0                0          90.0
## 5254          0                0                4          97.4
## 5258          0                3                1          87.5
## 5269          0                0                1          84.6
## 5277          0                0                2          92.9
## 5285          0                0                4          94.1
## 5291          0                1                0          95.8
## 5292          0                1                6         100.0
## 5340          0                0                0          86.8
## 5341          0                1                1          90.6
## 5347          0                0                7          91.7
## 5373          0                0                1          97.9
## 5382          0                0                2          98.0
## 5394          0                0                3          89.6
## 5432          0                0                2          88.9
## 5443          0                0                0          92.9
## 5445          0                0                3          90.9
## 5454          0                0                4          95.0
## 5464          0                0                8          96.3
## 5479          0                0                2          94.4
## 5503          0                1                1          76.5
## 5514          0                0                2          93.8
## 5517          0                0                8          93.3
## 5545          0                0                7          78.9
## 5549          0                0                3          88.9
## 5558          0                0                4          95.5
## 5569          0                0                0          94.4
## 5590          0                0                3          92.9
## 5592          0                0                2          88.2
## 5608          0                0                1          97.0
## 5609          0                0                5          96.6
## 5611          0                0                4          91.7
## 5624          0                0                1          91.7
## 5651          0                0                1          94.1
## 5673          0                0                0          90.3
## 5692          0                0                3          92.9
## 5694          0                0                3          91.2
## 5716          0                0                3          95.7
## 5736          0                0                4         100.0
## 5745          0                0                2          93.8
## 5777          0                0                1          78.6
## 5789          0                0                1          80.0
## 5822          0                0                0          61.5
## 5831          0                0                2          77.8
## 5843          0                0                6          76.5
## 5863          0                0                4          90.9
## 5865          0                0                1          75.0
## 5868          0                0                2          94.1
## 5870          0                0                1          86.7
## 5882          0                0                2          90.5
## 5883          0                0                3          57.9
## 5888          0                0                1          90.9
## 5899          0                0                6          95.5
## 5902          0                0                4          92.3
## 5903          0                0                3          83.3
## 5904          0                0                5          95.0
## 5906          0                0                2          94.7
## 5907          0                0                1          79.2
## 5932          0                1                0          88.2
## 5933          0                1                3          90.9
## 5940          0                0                2         100.0
## 5942          0                0                1          97.1
## 5946          0                0                3          73.3
## 5955          0                0                1          96.2
## 5967          0                0                4          98.3
## 5973          0                0                3          71.4
## 5989          0                0                1          92.3
## 5999          0                1                7          87.5
## 6004          0                0                1          76.9
## 6024          0                0               11          93.3
## 6037          0                0                2          93.3
## 6038          0                0                1          78.3
## 6041          0                0                7          92.7
## 6047          0                0                1          89.6
## 6048          0                0                7          90.5
## 6052          0                0                3          90.9
## 6087          0                0                4          94.7
## 6102          0                2                2          76.9
## 6132          0                0                3          84.0
## 6139          0               12                3          41.7
## 6147          0                0                2          83.3
## 6154          0                0                0          76.0
## 6155          0                0                7          89.5
## 6156          0                0                3          93.3
## 6181          0                0                4          89.3
## 6186          0                0                1          85.7
## 6214          0                0                3          86.8
## 6217          0                0                0          95.5
```

```
## 6228          0                0                5          95.7
## 6232          0                0                3          90.9
## 6243          0                0                2          95.0
## 6248          0                0                0          80.6
## 6270          0                0                5          95.7
## 6274          0                0                2          92.0
## 6284          0                0                1          92.3
## 6309          0                0                4          97.3
## 6310          0                1                4          91.7
## 6317          0                0                3          87.5
## 6361          0                0                6          69.6
## 6366          0                0                0          91.7
## 6370          0                0                2          80.0
## 6393          0                1                3          81.1
## 6429          0                0                2          94.4
## 6448          0                2                5          86.1
## 6469          0                0                3          87.5
## 6481          0                0                3          70.8
## 6485          0                0                2          96.2
## 6492          0                0                1          35.7
## 6493          0                0                8          75.0
## 6499          0                0                3          82.4
## 6500          0                0                4          87.5
## 6510          0                0                3          95.7
## 6522          0                0                3          70.6
## 6528          0                0                1          94.1
## 6536          0                0                4          87.5
## 6550          0                0                5          82.1
## 6555          0                0                2          97.5
## 6559          0                0                3          87.0
## 6591          0                0               10          95.0
## 6641          0                0                2          96.0
## 6644          0                0                0          95.5
## 6646          0                0                3          94.4
## 6648          0                0                3         100.0
## 6682          0                0                0          93.8
## 6699          0                0                0          76.9
## 6700          0                0                1          82.8
## 6704          0                0                3          83.3
## 6716          0                1                1         100.0
## 6719          0                0                7          91.2
## 6724          0                0                3          93.3
## 6737          0                0                4          98.0
## 6795          0                0                3          78.9
## 6813          0                0                4          92.6
## 6826          0                1                0          71.4
## 6842          0                0                2          86.4
## 6852          0                1                7          88.0
## 6856          0                0                2          82.1
## 6866          0                0                3          94.4
## 6875          0                0                4          91.2
## 6901          0                0                7          87.1
## 6944          0                0                4          63.2
## 6952          0                0                3          94.1
## 6968          0                0                5          97.7
## 6980          0                0                0          97.1
## 6991          0                0                2          85.0
## 6992          0                0                4          95.8
## 7041          0                0                2          95.7
## 7046          0                0                5          96.7
## 7055          0                0                3          97.4
## 7070          0                0                0          66.7
## 7078          0                0               11          92.5
## 7083          0                0                2          91.7
## 7092          0                0                1          90.0
## 7093          0                0                3          81.3
## 7113          0                0                3          58.3
## 7128          0                0                2          86.4
## 7140          0                0                4          91.7
## 7154          0                0                0          96.8
## 7157          0                0                3          91.7
## 7170          0                0                5          93.9
## 7175          0                0                4          85.7
## 7181          0                1                4          89.1
## 7194          0                0                7          82.9
## 7200          0                0                2          92.6
## 7205          0                0                3          81.1
## 7209          0                0               10          81.5
## 7210          0                1                3         100.0
## 7211          0                0                6          97.7
## 7212          0                0                7          97.2
## 7246          0                0                5          92.1
## 7248          0                0                1          83.3
## 7260          0                2                3          60.0
## 7264          0                2                4          87.8
## 7277          0                0                2          97.4
## 7283          0                0                4          78.1
## 7286          0                0                3          93.8
## 7300          0                0                1          94.1
## 7332          0                1                0          94.1
## 7348          0                0                3          87.0
## 7350          0               12                2          72.7
## 7356          0                0                4          94.9
## 7367          0                0                3          92.3
## 7368          0                0                2          95.0
## 7369          0                0                2          93.3
## 7370          0                0                4          95.0
## 7376          0                0                8          94.4
```

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## 7379          0                0                2          78.6
## 7388          0                0                1          98.8
## 7395          0                0                3          85.7
## 7398          0                0                6          96.3
## 7457          0                0                2          94.4
## 7471          0                0                1          90.0
## 7482          0                0                4          97.7
## 7507          0                0                1          91.4
## 7514          0                0                2          81.3
## 7519          0                0                3          95.0
## 7525          0                0                4          92.3
## 7527          0                1                0          84.4
## 7537          0                0                5          91.1
## 7542          0                0                3          91.4
## 7561          0                0                1          90.0
## 7569          0                0                1          89.5
## 7576          0                0                2          90.5
## 7639          0                0                4         100.0
## 7640          0                0                1          86.1
## 7650          0                0                1         100.0
## 7652          0                0                4          95.7
## 7672          0                0                2          93.8
## 7673          0                0                3          92.3
## 7674          0                0               10          98.1
## 7681          0                0                3          72.2
## 7683          0                0                0          70.0
## 7685          0                0                4          88.2
## 7702          0                0                2          61.5
## 7716          0                0                0          82.4
## 7717          0                0                5          97.1
## 7721          0                0                1          95.8
## 7726          0                0                7          96.6
## 7760          0                0                6          76.5
## 7766          0                0                5          96.6
## 7793          0                0                2          85.2
## 7802          0                1                2         100.0
## 7826          0                0                3          87.1
## 7846          0                0                2          95.2
## 7866          0                0                0          93.8
## 7883          0                0                0          95.5
## 7885          0                0                2          95.2
## 7911          0                0                2          59.1
## 7917          0                0                5          86.7
## 7919          0                0                3          95.8
## 7922          0                0                5          83.3
## 7928          0                0                3          97.3
## 7939          0                0                2          95.7
## 7941          0                0                2         100.0
## 7947          0                0                6          82.6
## 7955          0                0                2          87.5
## 7968          0                0                1          95.2
## 7969          0                0                1          94.1
## 7974          0                0                3          98.2
## 7982          0                0                2          95.5
## 7995          0                0                7          89.3
## 8000          0                0                2          77.3
## 8005          0                0                7          80.0
## 8007          0                0                4          97.3
## 8019          0                0                1          73.3
## 8021          0                0                1          83.3
## 8039          0                0                1          94.4
## 8055          0                0                1          73.3
## 8061          0                0                1          97.9
## 8066          0                0                1          96.0
## 8093          0                0                6          63.9
## 8095          0                0                0          85.7
## 8100          0                0                8          87.9
## 8142          0                0                7          81.0
## 8149          0                0                5          81.8
## 8152          0                0                1          69.6
## 8156          0                0                2          96.8
## 8165          0                0                3          97.3
## 8201          0                0                2          91.9
## 8203          0                0                3          95.8
## 8209          0                0                4          88.9
## 8224          0                0                5          95.1
## 8246          0                0                2          96.6
## 8256          0                0                2          90.6
## 8267          0                0                2          81.8
## 8272          0                0                0          84.6
## 8284          0                0                5          90.0
## 8295          0                0                2          88.9
## 8316          0                0                0          83.3
## 8336          0                0                0          97.0
## 8355          0                0                1          96.3
## 8360          0                0                4          96.7
## 8364          0                0                3          97.6
## 8379          0                0                3          73.5
## 8391          0                0                3          82.6
## 8392          0                1                0          69.2
## 8396          0                0               10          96.1
## 8437          0                0                0          86.4
## 8459          0                0                3          93.3
## 8462          0                0                2          92.3
## 8477          0                0                6          82.8
## 8482          0                0                5          68.0
## 8490          0                0                4          95.0
## 8491          0                0                2          90.0
```

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## 8496          0                0                6          97.4
## 8498          0                0                2          95.1
## 8516          0                0                1          97.6
## 8518          0                0                4          88.2
## 8522          0                0                2          96.7
## 8526          0                0                3          95.0
## 8529          0                0                4          85.0
## 8537          0                0                4          81.3
## 8552          0                0                4          95.3
## 8585          0                0                4          96.6
## 8602          0                0                2          90.6
## 8627          0                0                6          97.8
## 8647          0                0                7          80.6
## 8674          0                0                2          66.7
## 8709          0                0                6          90.6
## 8711          0                1                3          70.8
## 8712          0                0                1          80.4
## 8721          0                0                5          93.3
## 8735          0                0                3          92.0
## 8767          0                0                5          82.6
## 8783          0                0                1         100.0
## 8795          0                0                5          97.7
## 8804          0                0                3          97.3
## 8824          0                0                3          90.9
## 8835          0                0                4          96.9
## 8862          0                0                2          94.7
## 8864          0                0                4          85.0
## 8890          0                0                3          95.7
## 8895          0                0                4          96.6
## 8906          0                0                2          82.4
## 8944          0                1                3          43.8
## 8946          0                0                2          96.6
## 8953          0                0                1          92.3
## 8963          0                0                9          93.1
## 8966          0                0                2         100.0
## 8977          0                0                5          97.1
## 9042          0                0                4          93.3
## 9047          0                2                2          95.0
## 9048          0                0                3          80.5
## 9056          0                0                6          88.5
## 9057          0                0                1          86.2
## 9058          0                0                2          93.1
## 9083          0                0                2          95.5
## 9091          0                0                5          90.3
## 9096          0                0                2          97.0
## 9098          0                0                4          94.1
## 9101          0                0                6          97.5
## 9103          0                0                9          97.1
## 9140          0                0                4          64.3
## 9154          0                0                5          98.6
## 9160          0                0                1          92.9
## 9163          0                0                0          90.9
## 9202          0                0                2          85.7
## 9240          0                0                2          97.1
## 9243          0                0                5          96.4
## 9245          0                0                0          82.6
## 9254          0                0                2          93.8
## 9286          0                1                1          86.4
## 9294          0                0                1          78.6
## 9321          0                0                1          85.7
## 9336          0                0                3          94.2
## 9380          0                3                3          88.9
## 9383          0                0                1          83.3
## 9388          0                0                6          82.5
## 9413          0                0                2          83.3
## 9431          0                0                3          93.8
## 9432          0                0                2          76.0
## 9444          0                0                1          92.3
## 9459          0                2                1          81.8
## 9464          0                0                0          82.4
## 9474          0                0                3          96.0
## 9481          0                0                1          78.6
## 9497          0                0                6          95.7
## 9499          0                0                4          89.5
## 9503          0                0                0          94.1
## 9506          0                0                1          70.3
## 9509          0                0                2          90.0
## 9522          0                0                5          94.4
## 9546          0                0                0          96.8
## 9559          0                0                2          80.0
## 9573          0                0                4          90.0
## 9610          0                0                1          97.5
## 9614          0                0                3          90.1
## 9627          0                0                0          91.3
## 9628          0                0                6          88.9
## 9629          0                0                3          93.3
## 9652          0                0                5          94.7
## 9677          0                0                1          88.9
## 9681          0                0                1          93.3
## 9690          0                2                3          92.1
## 9697          0                0                0          88.2
## 9701          0                0                1          84.6
## 9705          0                1                6          83.3
## 9714          0                0                5          98.0
## 9718          0                0                2          72.4
## 9722          0                0                2          89.5
## 9748          0                0                1          95.7
## 9751          0                0                8          96.7
```

```
## 9753            0                 0                 1          80.0
## 9773            0                 0                 5          95.6
## 9783            0                 0                 1          94.1
## 9786            0                 0                 0          84.0
## 9796            0                 0                 5          97.2
## 9811            0                 0                 1          80.0
## 9816            0                 0                 4          96.7
## 9817            0                 0                 1          96.9
## 9820            0                 0                 4          79.2
## 9834            0                 0                 1          81.3
## 9843            0                 0                 5          94.6
## 9872            0                 0                 4          81.5
## 9882            0                 0                 2          82.6
## 9898            0                 0                 9          98.4
## 9904            0                 0                 3          93.8
## 9924            0                 0                 1          68.8
## 9943            0                 0                 5          91.4
## 9945            0                 0                 4          96.7
## 9983            0                 0                 1          93.8
## 9988            0                 2                 6          86.4
## 10024           0                 0                 0          73.9
## 10033           0                 0                 4          78.6
## 10058           0                 0                 5          95.5
## 10062           0                 0                 4          85.7
## 10078           0                 1                 1          70.0
## 10088           0                 0                 3          92.3
## 10096           0                 0                 2          90.0
## 10110           0                 0                 2          96.4
## 10166           0                 0                 5          94.1
## 10167           0                 0                 2          83.3
## 10192           0                 0                 7          87.0
## 10195           0                 0                 1          95.5
##       percent_bc_gt_75 pub_rec_bankruptcies tax_liens tot_hi_cred_lim
## 4                50.0                    0         0          156105
## 7                 0.0                    0         0          326611
## 9                 0.0                    0         0           91319
## 14               33.3                    0         0          110364
## 23                0.0                    1         0          100790
## 34                7.1                    0         0          207797
## 40               50.0                    0         0           46200
## 49                0.0                    0         0          169008
## 50               16.7                    0         0          271024
## 51                0.0                    0         0           73094
## 68                0.0                    0         0          257866
## 82                0.0                    0         0           49685
## 115               0.0                    0         0           20856
## 140              33.3                    0         0           84618
## 158              25.0                    0         0          184740
## 162             100.0                    0         0            9800
## 167               0.0                    0         0          147612
## 182               0.0                    0         0           71348
## 186              33.3                    0         0           44650
## 200             100.0                    0         0          420193
## 239               0.0                    0         0           78360
## 249              50.0                    0         0           48523
## 261             100.0                    0         0           63996
## 273               0.0                    0         0           92350
## 276              25.0                    0         0          187471
## 345             100.0                    0         0          124278
## 369               7.1                    0         0          473361
## 379               0.0                    0         0          368316
## 389             100.0                    0         0          416299
## 395               0.0                    0         0          358621
## 403               0.0                    0         0          279175
## 408               0.0                    0         0          241526
## 411               0.0                    0         0          296480
## 426              12.5                    0         0          480280
## 438              20.0                    0         0           66009
## 441               0.0                    0         0          250589
## 443               0.0                    0         0          244282
## 468               0.0                    0         0           33219
## 469              83.3                    0         0           54500
## 480               0.0                    0         0          103755
## 482               0.0                    0         0          286701
## 483              50.0                    0         0          291100
## 513               0.0                    0         0           25499
## 566               0.0                    0         0          163190
## 569              50.0                    0         0          269681
## 587               0.0                    0         0          220602
## 597              10.0                    0         0          103639
## 605               0.0                    0         0          153589
## 627             100.0                    0         0          500400
## 644               0.0                    0         0           30700
## 677               0.0                    0         0           13677
## 687             100.0                    0         0           69430
## 708              50.0                    1         0           44719
## 718              14.3                    1         0          156247
## 721               0.0                    0         0           63112
## 743              50.0                    0         0           48100
## 744             100.0                    1         0          409467
## 745              80.0                    0         0          198095
## 758               0.0                    0         0           96727
## 777              20.0                    0         0          311799
## 802              20.0                    0         0          801027
## 818               0.0                    0         0          142554
## 832               0.0                    0         0          334759
## 856               0.0                    0         0          616300
## 857               0.0                    0         0         1256046
```

```
## 858          14.3                0        0        54083
## 882           0.0                1        0        84400
## 883           0.0                1        0       160142
## 889           0.0                0        0        94903
## 903          14.3                0        0       414500
## 907          42.9                0        0        60938
## 915          66.7                0        0       543987
## 920          66.7                1        0       436545
## 939           0.0                0        0        22860
## 954         100.0                0        0        49532
## 969          50.0                0        0        95428
## 1002          0.0                0        0       211819
## 1015          0.0                0        0        73100
## 1024         50.0                0        0      1392053
## 1029          0.0                0        0       185989
## 1031        100.0                0        0        26925
## 1053         42.9                0        0       262861
## 1057         25.0                0        0       143283
## 1080          0.0                0        0       274520
## 1108        100.0                0        0       668242
## 1109          0.0                0        0        37854
## 1110          0.0                0        0        82087
## 1112         80.0                1        0        47200
## 1115          0.0                0        0       226769
## 1121          0.0                0        0       353643
## 1122         25.0                0        0       175652
## 1139         75.0                0        0       204601
## 1163         83.3                0        0       222399
## 1181         12.5                0        0       158898
## 1187         20.0                0        0       394854
## 1194         16.7                0        0        61300
## 1197         25.0                0        0        84180
## 1209          0.0                0        0       156642
## 1224         16.7                0        0        62228
## 1257        100.0                0        0       250447
## 1262          0.0                0        0       101810
## 1275         50.0                1        0       119644
## 1336         14.3                0        0       293042
## 1343          0.0                0        0       315480
## 1346          0.0                1        0        81844
## 1347          0.0                0        0        60861
## 1379          0.0                0        0       395029
## 1418        100.0                0        0       122421
## 1425         14.3                0        0       287730
## 1450          0.0                0        0        27323
## 1451          0.0                0        0       148356
## 1452          0.0                0        0       754354
## 1465          0.0                0        0       105356
## 1468        100.0                0        0        39875
## 1478          0.0                0        0       190999
## 1479          0.0                0        0        40814
## 1500          0.0                0        0       246882
## 1509        100.0                0        0       703378
## 1524        100.0                0        0        29686
## 1533          0.0                0        0       611270
## 1534          0.0                0        0      1380312
## 1537         16.7                0        0        97584
## 1548         50.0                0        0        40335
## 1566         75.0                1        0       112862
## 1575          0.0                0        0        28017
## 1620         50.0                0        0        51947
## 1632         50.0                0        0        17600
## 1661         50.0                0        0        59123
## 1666          5.6                0        0       548598
## 1679          0.0                0        0       192056
## 1686         33.3                0        0       447542
## 1688         25.0                0        0        51177
## 1726         50.0                0        0       168853
## 1738         71.4                0        0        37820
## 1744          0.0                0        0        37931
## 1750         25.0                0        0       130017
## 1754         33.3                0        0        30400
## 1762          0.0                0        0       371850
## 1809          0.0                0        0       152068
## 1811          0.0                0        0        36100
## 1819         20.0                0        0       167814
## 1880         50.0                0        0        40770
## 1881          0.0                0        0       272243
## 1894          0.0                0        0       386680
## 1900          0.0                1        0        62580
## 1915          0.0                0        0        79074
## 1919         40.0                0        0        50523
## 1942          0.0                0        0        19975
## 1943         33.3                0        0       335418
## 1958         10.5                0        0       239751
## 1991         14.3                0        0       213479
## 1994         50.0                1        0       133146
## 1997          0.0                0        0       602332
## 2001          0.0                0        0       250763
## 2013         16.7                0        0       100490
## 2015         50.0                0        0       234353
## 2018          0.0                0        0        56600
## 2050         33.3                0        0       188520
## 2074         50.0                0        0       170703
## 2077          0.0                0        0       175605
## 2092          0.0                1        0        32794
## 2161         25.0                1        0        42587
## 2165         80.0                0        0        82549
```

```
## 2170          100.0                0        0        255353
## 2171          100.0                1        0        174337
## 2172            0.0                0        0        134029
## 2192           80.0                0        0        481308
## 2194           50.0                0        0        105798
## 2196            0.0                0        0        147998
## 2248            0.0                0        0         49456
## 2253            0.0                0        0        100381
## 2254            0.0                0        0        148514
## 2257            0.0                0        0         45029
## 2263           75.0                0        0        245979
## 2277            0.0                0        0        136576
## 2289            0.0                0        0         68300
## 2303           50.0                0        0        182294
## 2312            0.0                0        0        272927
## 2318            0.0                0        0        242310
## 2320            0.0                0        0         55171
## 2326            0.0                0        0         62381
## 2328            0.0                0        0         90699
## 2341           50.0                0        0         11042
## 2348           10.0                0        0        135059
## 2370            0.0                0        0        251219
## 2376          100.0                0        0        507910
## 2382            0.0                0        0         57508
## 2385           50.0                0        0         72150
## 2406           28.6                0        0        106595
## 2409           66.7                0        0        266596
## 2421           66.7                0        0         89813
## 2456            0.0                0        0        101657
## 2462           50.0                0        0         27950
## 2476           20.0                0        0        102567
## 2481           14.3                0        0        179119
## 2488           66.7                0        0        281413
## 2496           75.0                1        0         74222
## 2520           83.3                1        0        366014
## 2531            0.0                0        0        362572
## 2541           50.0                0        0         41232
## 2544           50.0                0        0         41493
## 2563           20.0                0        0        472528
## 2568          100.0                0        0         64439
## 2580           50.0                0        0        205936
## 2599           66.7                0        0        400490
## 2600           25.0                0        0         50600
## 2602          100.0                0        0        483054
## 2605            0.0                0        0        137258
## 2615            0.0                0        0         79568
## 2620            0.0                0        0        116753
## 2623           25.0                0        0         37975
## 2651            0.0                0        0         90736
## 2655            0.0                0        0         94005
## 2659           50.0                0        0        296016
## 2660           16.7                0        0        209373
## 2663            0.0                1        0         36891
## 2667            0.0                0        0        357824
## 2672            0.0                0        0         69744
## 2677            0.0                0        0         48714
## 2690            0.0                2        0         46383
## 2695           25.0                0        0        202265
## 2702           20.0                1        0        112185
## 2710           50.0                0        0        534357
## 2738            0.0                0        0        137032
## 2742            0.0                0        0        282441
## 2745           66.7                0        0         89260
## 2773            0.0                0        0        238444
## 2787            0.0                0        0        384646
## 2792            0.0                0        0        108905
## 2803            0.0                1        0         78760
## 2813            0.0                1        0        104190
## 2817           50.0                0        0        253769
## 2819           33.3                0        0         62264
## 2832            0.0                0        0        263537
## 2857            0.0                1        0        218771
## 2860           50.0                0        0         17700
## 2865          100.0                0        0         14822
## 2875            0.0                0        0         26593
## 2880            0.0                0        0         15670
## 2894          100.0                0        0        106818
## 2899            0.0                0        0        180573
## 2912           75.0                1        0         54100
## 2927           14.3                0        0        133600
## 2933            0.0                0        0        695137
## 2947            0.0                0        0         30495
## 2951          100.0                0        0        691536
## 2957            0.0                1        0         27600
## 2961           50.0                0        0        292234
## 2968           42.9                1        0         65547
## 2971           20.0                0        0        304204
## 2995           28.6                0        0        339279
## 3032           33.3                0        0        153777
## 3036           16.7                0        0         68113
## 3040           60.0                0        0         41100
## 3053           50.0                0        0         29282
## 3062           70.0                0        0         20600
## 3067           14.3                0        0        321128
## 3074            0.0                0        0        301848
## 3092            0.0                0        0         37245
## 3102            0.0                0        0         18511
## 3119            0.0                0        0        303198
```

```
## 3123          33.3                0        0        26585
## 3134          50.0                0        0        18297
## 3141          50.0                0        0       188597
## 3143          25.0                1        0        81096
## 3173           0.0                0        0        81490
## 3178         100.0                0        0       645680
## 3186           0.0                0        0        11300
## 3204           0.0                1        0       595567
## 3210           0.0                0        0       291136
## 3211          50.0                0        0        55759
## 3218          25.0                0        0       112137
## 3230          33.3                0        0        84243
## 3251           0.0                0        0        60516
## 3262          33.3                0        0       670750
## 3269           0.0                0        0       276458
## 3271           0.0                0        0       407210
## 3278          16.7                0        0       531714
## 3282           0.0                0        0        37700
## 3302          50.0                0        0        21632
## 3318          55.6                0        0       394924
## 3323          42.9                0        0       546988
## 3367           0.0                0        0       102564
## 3376           0.0                1        0        88257
## 3392           0.0                0        0       357760
## 3409          37.5                0        0       382598
## 3416          33.3                0        0        32330
## 3436          40.0                0        0        98123
## 3441           0.0                0        0       210524
## 3472          28.6                0        0        73700
## 3485         100.0                0        0       179343
## 3492          75.0                1        0        71702
## 3494          20.0                0        0        67326
## 3501          50.0                0        0        11506
## 3506         100.0                1        0       226865
## 3530           0.0                0        0       128523
## 3565          50.0                0        0       353210
## 3577          37.5                0        0        47791
## 3613         100.0                0        0       117600
## 3617           0.0                0        0       292800
## 3639           0.0                0        0       361060
## 3657          20.0                0        0       236325
## 3668          66.7                0        0       428223
## 3686          50.0                0        0       410214
## 3698          20.0                0        0        78381
## 3704         100.0                0        0        27478
## 3707           0.0                0        0        44951
## 3780          83.3                0        0       385233
## 3790           0.0                0        0       523585
## 3794          40.0                0        0       752297
## 3796          33.3                0        0       249944
## 3822          25.0                0        0       484673
## 3825          10.0                0        0       416564
## 3861           0.0                0        0        28132
## 3887         100.0                0        0       226603
## 3921           0.0                0        0        61245
## 3922           0.0                0        0        41240
## 3926          50.0                0        0        71775
## 3943           0.0                1        0        47462
## 3954          20.0                0        0       255343
## 3964          16.7                0        0       180338
## 3976          42.9                0        0        71624
## 3984           0.0                1        0        66334
## 4006          66.7                0        0        95868
## 4010           0.0                0        0        31700
## 4028           0.0                0        0       205133
## 4043           0.0                0        0        66577
## 4045          16.7                0        0        88919
## 4053          66.7                0        0       223375
## 4055         100.0                0        0       310746
## 4057           0.0                0        0        21000
## 4098          14.3                0        0       520497
## 4100           0.0                0        0       185612
## 4113          60.0                0        0       544309
## 4119           0.0                0        0       183388
## 4136          40.0                1        0       285848
## 4138          14.3                0        0       120815
## 4150          50.0                0        0       394322
## 4169           0.0                0        0       439254
## 4173          37.5                0        0       241028
## 4193          14.3                0        0        21700
## 4198          33.3                1        0        37900
## 4203          16.7                0        0       162872
## 4211          28.6                0        0       682060
## 4220          33.3                0        0        34400
## 4229          33.3                0        0        94384
## 4247          28.6                0        0        26300
## 4273           0.0                0        0       351808
## 4274           7.1                0        0       235141
## 4284          46.2                0        0        81009
## 4301          66.7                1        0        43400
## 4325          16.7                0        0       401407
## 4349          33.3                0        0       129669
## 4350          10.0                0        0       394500
## 4370          33.3                0        0       216531
## 4372          20.0                0        0        92187
## 4388           0.0                0        0       133133
## 4390          16.7                1        0       447032
## 4400          16.7                0        0       199951
```

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## 4401          28.6                0        0        66506
## 4402          80.0                1        0        86043
## 4418          75.0                0        0       859116
## 4421           0.0                0        0       109296
## 4431         100.0                0        0       158717
## 4440           0.0                0        0        40788
## 4458           0.0                0        0        15000
## 4461           0.0                0        0        59731
## 4469           0.0                0        0        50890
## 4472           0.0                0        0       123676
## 4479          40.0                0        0       578480
## 4483           0.0                0        0        61168
## 4503          20.0                0        0       548659
## 4519           0.0                0        0       323008
## 4522          33.3                0        0        24679
## 4525          50.0                0        0       173831
## 4528          60.0                0        0       107436
## 4538          50.0                0        0       390657
## 4548          25.0                0        0       431085
## 4554         100.0                0        0       292209
## 4557         100.0                0        0       190594
## 4569          66.7                0        0        47937
## 4576           0.0                0        0        33141
## 4590           0.0                0        0       321700
## 4594         100.0                0        0       117609
## 4604          50.0                0        0       298962
## 4622           0.0                0        0        49560
## 4626          33.3                0        0        38323
## 4629         100.0                0        0       159114
## 4633          33.3                1        0       424638
## 4646         100.0                0        0       119835
## 4650           0.0                0        0       206328
## 4660           0.0                0        0        98215
## 4673          66.7                0        0        34998
## 4684         100.0                0        0       358481
## 4699           0.0                1        0       354053
## 4720         100.0                0        0       387796
## 4724          14.3                0        0        44400
## 4728           0.0                0        0        31363
## 4751           0.0                0        0        32650
## 4778         100.0                0        0       406719
## 4812          25.0                0        0       590525
## 4820          40.0                1        0        26291
## 4835           0.0                0        0       184698
## 4843           0.0                0        0       228719
## 4876           0.0                0        0       273398
## 4882           0.0                0        0       502672
## 4895           0.0                0        0        66635
## 4907          66.7                0        0       146103
## 4912           0.0                0        0       105812
## 4941          28.6                0        0       382395
## 4952          50.0                1        0       405571
## 4954          40.0                0        0       222312
## 4956         100.0                0        0       137095
## 4957          25.0                0        0       163437
## 4959           9.1                0        0        83894
## 4960           0.0                0        0       464072
## 4987          11.1                0        0       125632
## 5022           0.0                0        0        18425
## 5027          11.1                0        0        32824
## 5029           0.0                0        0       330189
## 5053          11.1                0        0       251943
## 5054          50.0                0        0       362387
## 5055           0.0                0        0        37000
## 5066           0.0                0        0       576014
## 5069           0.0                1        0       441767
## 5077          20.0                0        0       170057
## 5091         100.0                0        0       311525
## 5110           0.0                0        0       200368
## 5114           0.0                0        0        20464
## 5161           0.0                0        0       343165
## 5215           0.0                0        0       184876
## 5216          33.3                0        0       426876
## 5219          62.5                0        0       465136
## 5251           0.0                0        0       123010
## 5254          40.0                0        0       560662
## 5258          66.7                0        0       535845
## 5269           0.0                0        0       208353
## 5277           0.0                0        0        82178
## 5285          66.7                0        0        50625
## 5291         100.0                0        0       105629
## 5292           0.0                0        0       239580
## 5340         100.0                0        0       158087
## 5341          22.2                0        0        27500
## 5347          33.3                0        0       313001
## 5373          25.0                0        0       650490
## 5382          30.0                0        0       644953
## 5394         100.0                0        0       430354
## 5432           0.0                0        0        37300
## 5443          14.3                1        0        71900
## 5445          37.5                1        0        44700
## 5454           0.0                0        0        64901
## 5464           0.0                0        0       182498
## 5479          20.0                1        0       402500
## 5503          33.3                0        0        99485
## 5514          33.3                0        0        68399
## 5517           0.0                0        0        18300
## 5545           0.0                0        0       594549
```

```
## 5549          50.0                0        0        262316
## 5558           0.0                0        0        443675
## 5569           0.0                0        0        259200
## 5590          66.7                0        0        248381
## 5592          50.0                0        0        419433
## 5608          80.0                0        0         78044
## 5609         100.0                0        0        103875
## 5611          83.3                0        0        487200
## 5624           0.0                0        0         43033
## 5651           0.0                1        0        124890
## 5673          25.0                0        0        126117
## 5692          25.0                0        0        139552
## 5694           0.0                0        0         53050
## 5716           0.0                1        0         70552
## 5736          40.0                0        0        231950
## 5745           0.0                0        0        192448
## 5777          25.0                0        0         28500
## 5789          50.0                0        0        569378
## 5822           0.0                0        0        144109
## 5831          50.0                0        0        224200
## 5843           0.0                0        0        101350
## 5863          10.0                0        0        530950
## 5865           0.0                0        0        292499
## 5868           0.0                0        0         25000
## 5870           0.0                0        0         61113
## 5882         100.0                0        0        350194
## 5883           0.0                0        0        256818
## 5888          25.0                0        0         88094
## 5899          50.0                1        0        283196
## 5902           0.0                0        0         63749
## 5903           0.0                0        0         70494
## 5904           0.0                0        0        550561
## 5906          16.7                0        0        410598
## 5907           0.0                0        0        152361
## 5932          33.3                0        0         44927
## 5933          22.2                0        0         51400
## 5940           0.0                0        0        224422
## 5942           0.0                0        0         44191
## 5946          40.0                0        0        147838
## 5955           0.0                0        0        399205
## 5967          22.2                0        0        766319
## 5973          14.3                0        0        223138
## 5989          25.0                0        0         39655
## 5999           0.0                0        0         25231
## 6004          33.3                0        0         52723
## 6024           0.0                0        0        137710
## 6037           0.0                0        0          6850
## 6038          66.7                0        0        147804
## 6041           0.0                0        0        243394
## 6047           0.0                0        0        173563
## 6048           0.0                0        0         61095
## 6052           0.0                0        0         37100
## 6087           0.0                0        0        149442
## 6102           0.0                0        0         53309
## 6132           0.0                0        0        353897
## 6139           0.0                0        0        160981
## 6147          33.3                0        0        243086
## 6154           0.0                0        0         80484
## 6155          66.7                0        0        368928
## 6156          20.0                0        0        169502
## 6181           0.0                0        0        472380
## 6186           0.0                0        0         23343
## 6214          83.3                0        0        141718
## 6217           0.0                1        0         71453
## 6228         100.0                0        0        333605
## 6232           0.0                1        0        117664
## 6243         100.0                1        0        549344
## 6248         100.0                0        0        300300
## 6270           0.0                0        0         47931
## 6274           0.0                0        0         66131
## 6284          40.0                0        0        214134
## 6309          66.7                0        0        766739
## 6310          33.3                0        0        263710
## 6317           0.0                0        0        118635
## 6361           0.0                0        0        266149
## 6366         100.0                0        0         44142
## 6370           0.0                0        0         35462
## 6393           0.0                0        0        372740
## 6429          22.2                0        0         46599
## 6448         100.0                0        0        164487
## 6469         100.0                0        0         10940
## 6481          75.0                0        0         50039
## 6485          10.0                0        0        301100
## 6492         100.0                0        0         25586
## 6493          28.6                0        0        103403
## 6499           0.0                0        0         41499
## 6500           0.0                0        0        192204
## 6510           0.0                0        0         80775
## 6522           0.0                0        0         40334
## 6528         100.0                0        0        474351
## 6536          25.0                0        0        362584
## 6550          12.5                0        0         31700
## 6555          11.1                0        0        275733
## 6559           0.0                0        0         56174
## 6591           0.0                0        0         24640
## 6641          66.7                0        0        122117
## 6644          27.3                0        0        219600
## 6646           0.0                0        0         98084
```

```
## 6648          0.0                1        0        691533
## 6682         50.0                0        0        211125
## 6699        100.0                0        0        226449
## 6700        100.0                0        0        100592
## 6704        100.0                0        0        156243
## 6716          0.0                0        0        111467
## 6719         37.5                0        0        135234
## 6724         20.0                0        0        118069
## 6737         12.5                0        0        227688
## 6795        100.0                0        0        102012
## 6813          7.1                0        0        176774
## 6826          0.0                0        0         63731
## 6842         16.7                0        0         61619
## 6852          0.0                0        0        169542
## 6856          0.0                0        0         29103
## 6866         25.0                0        0         44111
## 6875          0.0                0        0        102860
## 6901          8.3                0        0         57907
## 6944          0.0                0        0        407359
## 6952         25.0                0        0        171893
## 6968         28.6                0        0        330456
## 6980         80.0                0        0        242674
## 6991        100.0                0        0          9800
## 6992          0.0                0        0        181864
## 7041         33.3                0        0        515399
## 7046          0.0                1        0        330171
## 7055         12.5                0        0        363552
## 7070          0.0                0        0        441566
## 7078          7.7                1        0        230587
## 7083        100.0                0        0        168635
## 7092         50.0                0        0        391066
## 7093         66.7                0        0        112809
## 7113          0.0                0        0         58758
## 7128          0.0                0        0        233384
## 7140         75.0                0        0         52254
## 7154          0.0                0        0        230082
## 7157         20.0                0        0        133068
## 7170          0.0                0        0        458312
## 7175          0.0                0        0         65917
## 7181         50.0                0        0        814414
## 7194         50.0                0        0        322847
## 7200          0.0                0        0         92067
## 7205        100.0                0        0        119601
## 7209          8.3                0        0        135789
## 7210         60.0                0        0         66070
## 7211          0.0                0        0        293993
## 7212          0.0                0        0        463246
## 7246         18.2                0        0        328461
## 7248          0.0                0        0         20559
## 7260          0.0                0        0         29855
## 7264         50.0                0        0         62599
## 7277        100.0                1        0        135212
## 7283         50.0                0        0         47765
## 7286        100.0                0        0         35810
## 7300          0.0                1        1        398415
## 7332          0.0                0        0         21400
## 7348          0.0                0        0         33038
## 7350          0.0                0        0        113238
## 7356         80.0                0        0         27168
## 7367          0.0                0        0         72160
## 7368          0.0                0        0         66100
## 7369         50.0                0        0         33200
## 7370         25.0                0        0        317628
## 7376         33.3                0        0        191242
## 7379          0.0                0        0         26235
## 7388          6.7                0        0        356836
## 7395          0.0                0        0         18842
## 7398         25.0                0        0        266822
## 7457         75.0                0        0       1267059
## 7471         80.0                0        0        603454
## 7482          0.0                0        0        162407
## 7507         25.0                0        0         27492
## 7514         50.0                1        0         45327
## 7519         33.3                0        0        303762
## 7525          0.0                1        0        437084
## 7527          0.0                0        0         19243
## 7537          0.0                0        0        108114
## 7542          0.0                1        0        603569
## 7561        100.0                0        0         39787
## 7569         66.7                0        0        439618
## 7576          0.0                0        0         27154
## 7639          0.0                1        0         94232
## 7640          0.0                0        0        349376
## 7650         80.0                0        0         52942
## 7652          0.0                0        0        159840
## 7672          0.0                0        0        237077
## 7673        100.0                0        0        306002
## 7674          0.0                0        0        827869
## 7681         25.0                0        0         24600
## 7683         50.0                0        0        104299
## 7685          0.0                0        0         67314
## 7702         66.7                0        0         68611
## 7716        100.0                0        0        121870
## 7717          0.0                0        0        192255
## 7721         60.0                0        0        517991
## 7726         25.0                1        0        365334
## 7760         66.7                1        0         91536
## 7766          0.0                0        0        184435
```

```
## 7793          66.7                0        0        93432
## 7802          21.4                0        0       144408
## 7826           0.0                0        0       339865
## 7846           0.0                0        0       240724
## 7866         100.0                0        0        81611
## 7883          50.0                0        0       238290
## 7885          20.0                0        0       158158
## 7911          50.0                0        0       510650
## 7917          66.7                0        0       349317
## 7919          50.0                0        0       279537
## 7922           0.0                0        0       381452
## 7928           0.0                0        0       484396
## 7939           0.0                0        0         8300
## 7941           0.0                1        0       578123
## 7947          18.2                0        0       501521
## 7955          50.0                1        0        19107
## 7968           0.0                0        0       105670
## 7969           0.0                0        2        94982
## 7974           0.0                0        0       233880
## 7982           0.0                0        0       113831
## 7995          50.0                1        0        59118
## 8000          40.0                0        0        28193
## 8005           0.0                0        0       397149
## 8007          33.3                0        0       487710
## 8019         100.0                0        0       334402
## 8021         100.0                0        0        47154
## 8039           0.0                0        0        73330
## 8055          42.9                0        0       609751
## 8061         100.0                0        0       307728
## 8066           0.0                0        0        45283
## 8093           0.0                0        0        37961
## 8095          33.3                0        0       369889
## 8100          12.5                0        0       252361
## 8142          50.0                0        0       260498
## 8149           0.0                0        0       261330
## 8152         100.0                0        0       133448
## 8156           0.0                1        0        59399
## 8165           0.0                0        0       481877
## 8201          40.0                0        0       292793
## 8203          33.3                1        0        56798
## 8209           0.0                0        0        21655
## 8224          16.7                0        0       389524
## 8246          50.0                0        0       117861
## 8256           0.0                0        0        46050
## 8267         100.0                0        0        38001
## 8272          50.0                0        0       310575
## 8284           0.0                0        0        87668
## 8295           0.0                0        0       312280
## 8316           0.0                0        0        89234
## 8336           0.0                1        0        96100
## 8355          55.6                0        0       115340
## 8360          11.1                0        0       540105
## 8364           0.0                0        0       288456
## 8379          25.0                0        0        95056
## 8391          50.0                1        0        18875
## 8392           0.0                0        0       121764
## 8396           0.0                0        0       116622
## 8437          50.0                0        0       362924
## 8459           0.0                0        0         4154
## 8462           0.0                1        0        77310
## 8477          50.0                0        0        53385
## 8482           0.0                0        0       139603
## 8490           0.0                0        0       436485
## 8491          42.9                0        0       538617
## 8496          38.5                0        0       378054
## 8498           0.0                0        0       206659
## 8516          25.0                0        0       882621
## 8518           0.0                0        1       669199
## 8522           0.0                1        0        48049
## 8526         100.0                0        0       726766
## 8529           0.0                0        0        85880
## 8537           0.0                0        0        77883
## 8552          16.7                0        0       255681
## 8585           0.0                0        0       372221
## 8602          25.0                0        0       143400
## 8627           0.0                1        0       121267
## 8647          12.5                0        0       101992
## 8674          33.3                0        0       122000
## 8709           0.0                0        0       165778
## 8711           0.0                0        1       343243
## 8712           0.0                0        0        78062
## 8721           0.0                0        0       154262
## 8735         100.0                0        0       269646
## 8767           0.0                1        0        89473
## 8783           0.0                0        0        80664
## 8795           0.0                0        0       316453
## 8804           0.0                0        0       450635
## 8824          33.3                0        0       104634
## 8835           0.0                0        0       105583
## 8862          33.3                0        0       206508
## 8864          25.0                0        0       334695
## 8890          33.3                0        0       204055
## 8895          50.0                0        0       315880
## 8906          28.6                0        0       262858
## 8944           0.0                0        0        30800
## 8946          12.5                0        0        98500
## 8953         100.0                1        0       132642
## 8963           0.0                0        0       101023
```

```
## 8966              0.0                    0         0           99349
## 8977              0.0                    0         0          440783
## 9042             20.0                    0         0           58910
## 9047             66.7                    0         0          284337
## 9048             75.0                    0         0          273848
## 9056              0.0                    0         0          353945
## 9057              0.0                    0         0           72602
## 9058            100.0                    0         0          550219
## 9083              0.0                    0         2           58852
## 9091             20.0                    0         0          322044
## 9096              0.0                    1         0          204637
## 9098             33.3                    0         0           83896
## 9101              0.0                    0         0          305140
## 9103              0.0                    0         0           39140
## 9140            100.0                    0         0          237816
## 9154              0.0                    0         0          621066
## 9160              0.0                    1         0           97336
## 9163              0.0                    0         0          116151
## 9202             33.3                    0         0          163747
## 9240              7.7                    0         0          519411
## 9243             20.0                    1         0          700064
## 9245              0.0                    0         0           22142
## 9254             50.0                    0         0           56704
## 9286             66.7                    1         0           75152
## 9294            100.0                    0         0           13800
## 9321             20.0                    0         0           70099
## 9336             50.0                    0         0           78413
## 9380             40.0                    0         0          368185
## 9383            100.0                    0         0           63755
## 9388             25.0                    0         0          151132
## 9413              0.0                    0         0          317376
## 9431              0.0                    0         0           82773
## 9432             66.7                    0         0          270648
## 9444            100.0                    0         0           21781
## 9459              0.0                    0         0          384999
## 9464             40.0                    0         0          106648
## 9474              0.0                    1         0          494371
## 9481             50.0                    0         0          245985
## 9497              0.0                    0         0           62662
## 9499              0.0                    1         0           66300
## 9503            100.0                    0         0          159844
## 9506             75.0                    0         0           68683
## 9509             40.0                    0         0          107229
## 9522              0.0                    0         0          671558
## 9546             66.7                    0         0          219718
## 9559              0.0                    0         0           24622
## 9573            100.0                    0         0          128047
## 9610              0.0                    0         0          217132
## 9614             60.0                    0         0          155488
## 9627             12.5                    0         0           83988
## 9628             75.0                    0         0          394481
## 9629              0.0                    0         0          267506
## 9652             28.6                    0         0          677437
## 9677             33.3                    0         2          132060
## 9681             20.0                    0         0           70810
## 9690              0.0                    0         0          322061
## 9697             66.7                    0         0          212338
## 9701            100.0                    0         0           54575
## 9705             20.0                    0         0            6750
## 9714              0.0                    0         0          470933
## 9718            100.0                    0         0          446472
## 9722            100.0                    0         0          305461
## 9748              0.0                    0         0           38848
## 9751             57.1                    0         0          295149
## 9753              0.0                    0         0          158015
## 9773              0.0                    0         0          235383
## 9783             20.0                    0         0           82384
## 9786              0.0                    0         0          125489
## 9796             14.3                    0         0          283163
## 9811              0.0                    0         0           85870
## 9816              9.1                    0         0          145062
## 9817            100.0                    0         0           85708
## 9820              0.0                    0         0          591648
## 9834              0.0                    0         0          237259
## 9843             28.6                    0         0          949086
## 9872              0.0                    0         0          298382
## 9882              0.0                    0         0           59990
## 9898              3.8                    0         0          295850
## 9904             12.5                    0         0          269199
## 9924             50.0                    0         0          132136
## 9943              0.0                    0         0          372416
## 9945             50.0                    0         0          543183
## 9983            100.0                    0         0          223462
## 9988              0.0                    0         0           33396
## 10024            50.0                    0         0          235770
## 10033            40.0                    0         0          222620
## 10058             0.0                    0         0          132283
## 10062           100.0                    1         0          386265
## 10078             0.0                    0         0         2066298
## 10088             0.0                    0         0          329040
## 10096             0.0                    1         0           41227
## 10110            81.8                    0         0          268559
## 10166            12.5                    0         0          161831
## 10167           100.0                    0         0          366610
## 10192            12.5                    0         0           32782
## 10195             0.0                    0         0          245890
##       total_bal_ex_mort total_bc_limit total_il_high_credit_limit
## 4                167564          18300                     137805
```

```
## 7          20783      70400          47611
## 9          23547      42100          46219
## 14         79249      14500          90164
## 23         67262      24200          50090
## 34         86023      91400         102321
## 40         12578      31500           4000
## 49         87752      20200         111975
## 50         73437      41100          97924
## 51         31792      30800          42294
## 68         22407     129900          15679
## 82         16607       9500          30085
## 115        15277       2300          15056
## 140        43599      44400          32618
## 158        92874      85000          86040
## 162         8199       2000           7000
## 167       134659      15700         123412
## 182        24514       3600          28548
## 186        29703      22000          22650
## 200        69966      12400          48986
## 239        68660      13700          63860
## 249        26730      10300          35423
## 261        50846       1000          62996
## 273        40185      26700          63250
## 276       137290      39500         125171
## 345       100420       6300         111878
## 369        88188      71200          95062
## 379        95459      38400          90259
## 389        36650       5000          31686
## 395        50432      28200          57722
## 403        25766      19500          24150
## 408        33336      39000          33844
## 411        12469      17000          14000
## 426        53212      50700          20000
## 438        24734      18800          13909
## 441        59997       6500          64509
## 443        50194       7500          48317
## 468        16137      15800          16219
## 469        38948      29500          23000
## 480        37707      22400          45555
## 482        50787      10100          49408
## 483        44714      24900          27000
## 513        17416       4000          21499
## 566       147332      19600         136590
## 569        49482      19300          64436
## 587       121100      37200         162544
## 597        80143      38900          54239
## 605        13047      13700          16989
## 627        99747      40900          37487
## 644        12716       6500          12000
## 677         8620       2000          11677
## 687        63678      11000          56430
## 708        34956       4800          33019
## 718       124369      21200         124147
## 721        41623        800          48812
## 743        32301      19600          24000
## 744        22667      11100          12408
## 745        50382      11600          40189
## 758        97270       5500          39527
## 777        91097      25400          81599
## 802       254452      96100         232927
## 818        39896      56500          67154
## 832       156172      29100         131819
## 856        27715      13300          24000
## 857       213478      76300          97646
## 858         9967      28300           5683
## 882        15142      47400          20000
## 883        17470       2500          20188
## 889        66425      19100          60903
## 903        18106      37900          16000
## 907        40322      11100          46338
## 915       121904      20600          40987
## 920        83008      10900          69045
## 939        12389       4800          15960
## 954        31331       5600          30932
## 969        52932      20000          70528
## 1002       47914      27800          75019
## 1015       23412      46200          15000
## 1024      285284       3600         326453
## 1029       22319      32200          42072
## 1031       21597       2500          20325
## 1053      269457      58800         201061
## 1057       63129      28600          95383
## 1080       44246      33000          38010
## 1108      197440      83100          50051
## 1109       18545        500          13554
## 1110       34368      11900          59187
## 1112       22164      18800          18400
## 1115       14407      19200          20069
## 1121       83628      48000          75439
## 1122       12799      45200           5152
## 1139       32928      10700          37962
## 1163       40961      13500          44131
## 1181       75877      70800          76598
## 1187       28042      35000          25754
## 1194       18180      41500          12000
## 1197       34786      35600          18000
## 1209       73400      18900          73742
## 1224       33159      14600          40618
```

```
## 1257          15915          8100                35298
## 1262          51636         52700                43310
## 1275          70140         12200                77344
## 1336          44806         42900                41650
## 1343          17829          2000                16576
## 1346          58626         15300                63244
## 1347          38862         12200                35310
## 1379         102528        152500               229871
## 1418         102766          6500               105321
## 1425          71731         20000                89430
## 1450          23304          3300                24023
## 1451          79958          5800                73352
## 1452          64466        121000                73854
## 1465          39240         42000                47556
## 1468          22211          6500                25375
## 1478          40261         21000                40799
## 1479          31684          3100                32214
## 1500          42293         43600                97782
## 1509          90437         10800               129444
## 1524          22981          8500                17586
## 1533          16025         33500                14391
## 1534          47036         18200                76437
## 1537          33391         60400                20184
## 1548          30807          9100                30235
## 1566          45684          5600                59662
## 1575          15019          1000                 7317
## 1620          26294         29100                18147
## 1632          10211          6600                11000
## 1661          50030         18200                35323
## 1666         126846        110800                93648
## 1679          17338         14500                19900
## 1686          52336         49900                23447
## 1688          27046         27900                22277
## 1726          24087          3000                19661
## 1738          29135          9000                28220
## 1744          10290         30300                 7631
## 1750          25533         11600                27317
## 1754          19506         14300                15600
## 1762          32692          6000                36698
## 1809          10814          4200                  800
## 1811          13214         31700                 4400
## 1819          75888         31300                75134
## 1880          32969         13700                27070
## 1881          31234          5000                40843
## 1894         172653          3500               164180
## 1900          18546         25700                31680
## 1915          53974          6100                60274
## 1919          42963          5900                40123
## 1942           6868         10100                 6575
## 1943         121735         42000               135369
## 1958          14602         18200                 1800
## 1991          43973         24700                43670
## 1994          31290          8100                43995
## 1997          19051         52400                30332
## 2001          51013         43100                48800
## 2013          40802         69700                29290
## 2015          42033          2400                54585
## 2018          23991         23000                25000
## 2050          14430         19300                 6400
## 2074           9235          8700                 5000
## 2077          35154         17700                35509
## 2092          18985          9700                15694
## 2161          25579         25200                17387
## 2165          54041          8400                71449
## 2170          46249          3000                53353
## 2171          18067          9100                13817
## 2172          70267         34300                86229
## 2192          66269         47800                27400
## 2194          24318         15900                19376
## 2196          88291          3500                93398
## 2248          14062         22500                21856
## 2253          64622         13600                22081
## 2254          21408         43800                24014
## 2257          10953         10300                18082
## 2263          16218          4300                20755
## 2277         115946         39000                97576
## 2289          17426         61900                 5000
## 2303         134479         21000               153194
## 2312           5944          2000                 9382
## 2318          14451         49700                30471
## 2320          11079          7000                46171
## 2326          43158         15500                46881
## 2328          38819         25500                63399
## 2341           5970          2000                 7742
## 2348          80397         32900                89359
## 2370          52378         11800                54217
## 2376          68455         26700                52610
## 2382          33011         18000                25208
## 2385          18597          7000                12000
## 2406          56663         39400                65895
## 2409          82892         14000               100343
## 2421          69201         11700                68113
## 2456          89759          9700                88757
## 2462          14174         10700                 6750
## 2476          67819         35600                61967
## 2481          24715         23500                10500
## 2488         105529         44400                75263
## 2496          45498         14400                48722
```

```
## 2520          21424        14400                27074
## 2531          21899        73000                12000
## 2541          18918        18000                20032
## 2544          25758         8800                28893
## 2563         112597        42700                98901
## 2568          35983         6500                44439
## 2580          20706        18800                 9486
## 2599          74164        14600                81290
## 2600          37175        23800                25000
## 2602          84935        12500                96625
## 2605          84287        46600                87858
## 2615          53271        29200                50368
## 2620          37813          500                32103
## 2623          11440        31600                 5275
## 2651          97474         5000                82936
## 2655          83448         9300                77805
## 2659          46793         7000                44516
## 2660         144260        27700               158173
## 2663          19003        17800                15591
## 2667          97256         8100                94024
## 2672          74206         4500                64444
## 2677          18763        25100                21714
## 2690          38336         4500                41283
## 2695          47854        23300                24165
## 2702          94033        10800                92985
## 2710          32675        32000                19169
## 2738         119534        21000               114932
## 2742         105221        43000               119841
## 2745          66890         3900                76560
## 2773          41517         1500                41610
## 2787          46631        21500                37898
## 2792          54253        50500                56905
## 2803          35497        25900                39960
## 2813          62177        33300                61090
## 2817          61870        25300                59179
## 2819          58508         8500                47864
## 2832          36268        19900                73037
## 2857          88954        19700                90926
## 2860          12595         7500                 7000
## 2865          12444         7500                 6422
## 2875          11183         8800                15293
## 2880           7635          500                15170
## 2894          85505        34500                67618
## 2899          25275         4500                26573
## 2912          24750        31100                20000
## 2927          71589        81900                41000
## 2933          17168        41200                18000
## 2947          24386         1000                26995
## 2951          84742        26100                97436
## 2957          18095        15600                12000
## 2961          35087        32800                20000
## 2968          30123        30600                33047
## 2971          67602        39000                58690
## 2995          48326        71200                60136
## 3032          75358         5300                94723
## 3036          14777        29800                25713
## 3040          26010        20900                17800
## 3053          15785        11000                11599
## 3062          16333        19300                 1300
## 3067          58628        48100                35828
## 3074          46533         2000                43724
## 3092          12827         6200                30545
## 3102          10335         7900                 9311
## 3119          23639         6500                31734
## 3123          11956         6800                 9095
## 3134           7524         8000                 5397
## 3141          37891        11000                20397
## 3143          61105        15900                60096
## 3173          71439         6900                58390
## 3178          57073        34400                29830
## 3186           5899         3300                 8000
## 3204          93166         1300                94267
## 3210          52136        93600                10311
## 3211          38339        15200                38059
## 3218          85880        20000                80637
## 3230          87105         9000                74143
## 3251          16108        44100                11016
## 3262          39536        34800                28000
## 3269          23384         3000                33458
## 3271         100185        28100               122110
## 3278         139340        62000               160964
## 3282          15382         3800                26700
## 3302          13470         5500                11132
## 3318          71333        48500                78684
## 3323          62802        15800                98288
## 3367         149017         4700                96364
## 3376          34314        40900                37357
## 3392         196511         6000               114260
## 3409          97343        46300                84656
## 3416          24843        15400                14030
## 3436          76750        26600                62523
## 3441          28415         6000                47524
## 3472          25832        12800                35000
## 3485          76711         4300                41593
## 3492          52542        10300                51102
## 3494          30530         7300                52926
## 3501           8569         2000                 5081
## 3506          33710         6300                36065
```

```
## 3530          32560        91100                9423
## 3565          47000        16700               39082
## 3577          31487        20700               24091
## 3613          15751         2600               15000
## 3617          22740         9900               25000
## 3639          82933        32500               79644
## 3657         100957        36000               81900
## 3668          17583        21500                9193
## 3686          37645        20500               48548
## 3698          31164        32700               23581
## 3704          21728         2100               22178
## 3707          10304        20500                7851
## 3780         102601        18700               25842
## 3790         102790        14300              116784
## 3794         104748        12800              103897
## 3796          29549        48300               10470
## 3822          54061        21100               48668
## 3825          71236        52300               80323
## 3861           9711         9600                3000
## 3887          38141         7100               38438
## 3921          29900        14000               46845
## 3922           8397        18700                8640
## 3926          51226        21800               48875
## 3943          23471        22000               18462
## 3954          74509         8600               78113
## 3964          23456        33000               27059
## 3976          35324        14400               44824
## 3984          56347         9100               53634
## 4006          80107         8700               78368
## 4010           8241        22700                9000
## 4028          42982        10100               36633
## 4043          13976        21000               14777
## 4045          28937        44900               34519
## 4053          59429         3300               56075
## 4055          33358         2500               38546
## 4057          11497         8500               10000
## 4098         148539       123000              141586
## 4100         178031         2600                4512
## 4113         160151         9900              169867
## 4119          54612        32300               58388
## 4136          16982        12600                5000
## 4138         104635        15300               96115
## 4150          29203        20000               12948
## 4169          68394        31500               65049
## 4173          34395        39400               12851
## 4193           7272         9900                7000
## 4198          19939        13800               15000
## 4203          60675        14700               52672
## 4211          77817        74900               60734
## 4220          23803        14000               18600
## 4229          79953        10000               84084
## 4247          11960        15600                9900
## 4273          57333         8600               55708
## 4274          83598        24500               71741
## 4284          60118        30600               47109
## 4301          36636         3100               35400
## 4325          16605        11500               14007
## 4349          62027        42400               58969
## 4350          30444        43100               23642
## 4370          22217        15800               23431
## 4372          46400        20400               24787
## 4388           4753         7300               22718
## 4390          64503        17700               72892
## 4400          26983         8900               25625
## 4401          33330        34800               26206
## 4402          54016         8900               54643
## 4418         332236        68900               55216
## 4421          55067        40300               60796
## 4431          29697         1500               26500
## 4440          18312         8600               24088
## 4458           7251         3000               11500
## 4461          48847         2700               50831
## 4469          12719        33300               11690
## 4472         121085         2000              120476
## 4479         149425        55900              148295
## 4483          33865        12500               48668
## 4503          30954        13200               85607
## 4519          90781        25500              101604
## 4522          10380         5800               14979
## 4525          65735         7000               64831
## 4528          94015        11400               39236
## 4538          92846        12000               89093
## 4548          73459        25700               72805
## 4554          16825         3300               18609
## 4557          58670        15000               47394
## 4569          40845         6300               41637
## 4576          14270         2200               27241
## 4590           9311        37500                2400
## 4594          61044        30600               82009
## 4604          80412        39500               80921
## 4622          23950        14900               28960
## 4626          15268         7600               29923
## 4629          31574          500               27063
## 4633         182797        12400              160276
## 4646          19005         3800               14847
## 4650          26810         8200               27991
## 4660          30517        53500               42315
## 4673          30187         7500               19898
```

```
## 4684          48333          7000                18500
## 4699          89422         21400               126384
## 4720          63879         13000                74056
## 4724          16630         30500                 5000
## 4728          15863          2000                27163
## 4751          21024           500                32150
## 4778         103473         20700               111619
## 4812         156508         44100               186825
## 4820          15832         14300                 9791
## 4835          16517         14000                16355
## 4843          16252         27000                25893
## 4876          31476          1700                39655
## 4882           7141         52600                10000
## 4895          53550          9000                50535
## 4907          75398          9200                57926
## 4912          79657         38500                62150
## 4941          61493         24200                64358
## 4952          37456         15100                38271
## 4954          90791         32600                81112
## 4956          15553           800                18178
## 4957          42123         32800                37000
## 4959          51165         26800                46194
## 4960          10877         22800                37231
## 4987         106353         22500                91632
## 5022           5743          4900                 8725
## 5027          17891         13900                18924
## 5029          16100         32300                11000
## 5053          29200         47500                11674
## 5054          37051         17200                31899
## 5055          10423         18000                16000
## 5066         210764         27700               222814
## 5069          41446         11300                70467
## 5077          13172         12500                11000
## 5091          17347         15000                 4525
## 5110          43634         20200                41612
## 5114          11665         14700                 5264
## 5161         154859          4800               192375
## 5215          13099          7500                19776
## 5216          62008          4900               102540
## 5219          64522         16200                56084
## 5251          11392         20600                14601
## 5254          70922         86300                27062
## 5258          21724         18500                28801
## 5269          10180          8600                31753
## 5277          61930          7000                66478
## 5285          47955         11200                36425
## 5291          96121        104000                 1629
## 5292          16112          2400                17165
## 5340          41138          2000                29395
## 5341          14281          9700                11600
## 5347          30593         20700                34439
## 5373          35133         53000                35090
## 5382         160170        171300                81653
## 5394         115394          8000               123904
## 5432          19979          7000                25700
## 5443          23311         55100                15000
## 5445          20588         15000                 8000
## 5454          39466         33800                23501
## 5464          26160         14600                21198
## 5479          54106         18600                57500
## 5503          69330         29900                69585
## 5514          41203          6500                33899
## 5517           6775          7700                 4000
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## 9701
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## 9751
## 9753
## 9773
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## 9843
## 9872
## 9882
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## 10058
## 10062
## 10078
## 10088
## 10096
## 10110
## 10166
## 10167
## 10192
## 10195
##       payment_plan_start_date hardship_loan_status disbursement_method
## 4                                                               Cash
## 7                                                          DirectPay
## 9                                                               Cash
## 14                                                         DirectPay
## 23                                                              Cash
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## 34                                                    Cash
## 40                                                DirectPay
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## 68                                                    Cash
## 82                                                    Cash
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## 162                                                   Cash
## 167                                                   Cash
## 182                                                   Cash
## 186                                                   Cash
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## 273                                                   Cash
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## 1224                                                  Cash
## 1257                                                  Cash
## 1262                                                  Cash
## 1275                                              DirectPay
## 1336                                                  Cash
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## 1343                                                    Cash
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## 5946                                                    Cash
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## 5967                                                    Cash
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## 7175                                                    Cash
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## 9614                                                      DirectPay
## 9627                                                          Cash
## 9628                                                          Cash
## 9629                                                          Cash
## 9652                                                          Cash
## 9677                                                          Cash
## 9681                                                          Cash
## 9690                                                          Cash
## 9697                                                          Cash
## 9701                                                          Cash
## 9705                                                          Cash
## 9714                                                          Cash
## 9718                                                          Cash
## 9722                                                          Cash
## 9748                                                          Cash
## 9751                                                          Cash
## 9753                                                          Cash
## 9773                                                          Cash
## 9783                                                          Cash
## 9786                                                          Cash
## 9796                                                      DirectPay
## 9811                                                          Cash
## 9816                                                          Cash
## 9817                                                          Cash
## 9820                                                          Cash
## 9834                                                          Cash
## 9843                                                          Cash
## 9872                                                      DirectPay
## 9882                                                          Cash
## 9898                                                          Cash
## 9904                                                          Cash
## 9924                                                          Cash
## 9943                                                          Cash
## 9945                                                          Cash
## 9983                                                          Cash
## 9988                                                          Cash
## 10024                                                         Cash
## 10033                                                         Cash
## 10058                                                         Cash
## 10062                                                         Cash
## 10078                                                         Cash
## 10088                                                     DirectPay
## 10096                                                         Cash
## 10110                                                         Cash
## 10166                                                         Cash
## 10167                                                         Cash
## 10192                                                         Cash
## 10195                                                         Cash
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## 4                               new york
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## 9                                  idaho
## 14                           connecticut
## 23                                  utah
## 34                              new york
## 40                                hawaii
## 49                         massachusetts
## 50                                nevada
## 51                                nevada
## 68                              illinois
## 82                             louisiana
## 115                                idaho
## 140                            louisiana
## 158                            tennessee
## 162                             colorado
## 167                              florida
## 182                            minnesota
## 186                              vermont
## 200                         massachusetts
## 239                           connecticut
## 249                              florida
## 261                              florida
## 273                               nevada
## 276                              vermont
## 345                            tennessee
## 369                                 utah
## 379                              new york
## 389                         massachusetts
## 395                            tennessee
## 403                           california
## 408                         rhode island
## 411                            tennessee
## 426                         massachusetts
## 438                                 ohio
## 441                              florida
## 443                              montana
## 468                           california
## 469                           washington
## 480                         new hampshire
## 482                            wisconsin
## 483                              arizona
## 513                                idaho
## 566                            tennessee
## 569                            tennessee
## 587                            louisiana
## 597                               nevada
## 605                              arizona
## 627                                idaho
## 644                             oklahoma
## 677                               nevada
## 687                           california
## 708                           california
## 718                           california
## 721                               nevada
## 743                                idaho
## 744                           california
## 745                               kansas
## 758                              montana
## 777                            tennessee
## 802                           california
## 818                               nevada
## 832                              georgia
## 856                           california
## 857                              montana
## 858                            tennessee
## 882                           california
## 883                             michigan
## 889                              vermont
## 903                           california
## 907                           california
## 915                           california
## 920                              florida
```

```
## 939                          alabama
## 954                            maine
## 969                          vermont
## 1002                          oregon
## 1015                          nevada
## 1024                         georgia
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## 1031                         florida
## 1053                           maine
## 1057                       tennessee
## 1080                            utah
## 1108                      washington
## 1109                        new york
## 1110                        colorado
## 1112                      new mexico
## 1115                    north dakota
## 1121                       tennessee
## 1122                    pennsylvania
## 1139                     connecticut
## 1163                    south dakota
## 1181                         florida
## 1187                       louisiana
## 1194                          nevada
## 1197                       tennessee
## 1209                        michigan
## 1224                        kentucky
## 1257                           maine
## 1262                           maine
## 1275                           maine
## 1336                    south dakota
## 1343                       tennessee
## 1346                           idaho
## 1347                         arizona
## 1379                      california
## 1418                        colorado
## 1425                         montana
## 1450                          oregon
## 1451                       minnesota
## 1452                          nevada
## 1465                       tennessee
## 1468                          nevada
## 1478                         arizona
## 1479                         georgia
## 1500                         indiana
## 1509                      california
## 1524                          nevada
## 1533                          nevada
## 1534                     connecticut
## 1537                          nevada
## 1548                    pennsylvania
## 1566                         georgia
## 1575                     rhode island
## 1620                    massachusetts
## 1632                          nevada
## 1661                           maine
## 1666                          oregon
## 1679                      california
## 1686                    massachusetts
## 1688                      california
## 1726                           idaho
## 1738                         florida
## 1744                            utah
## 1750                           idaho
## 1754                    north dakota
## 1762                        oklahoma
## 1809                    south dakota
## 1811                      california
## 1819                         georgia
## 1880                         florida
## 1881                            utah
## 1894                    new hampshire
## 1900                      california
## 1915                          nevada
## 1919                         arizona
## 1942                      california
## 1943                        michigan
## 1958                            utah
## 1991                          nevada
## 1994                      california
## 1997                      california
## 2001                           idaho
## 2013                            utah
## 2015                    massachusetts
## 2018                     mississippi
## 2050                           texas
## 2074                         georgia
## 2077                     rhode island
## 2092                    massachusetts
## 2161                      california
## 2165                        colorado
## 2170                    south dakota
## 2171                           maine
## 2172                            utah
## 2192                       tennessee
## 2194                     rhode island
## 2196                         vermont
## 2248                        kentucky
## 2253                           texas
```

```
## 2254                          kentucky
## 2257                        california
## 2263                          colorado
## 2277                           florida
## 2289                        california
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## 2318                            nevada
## 2320                     new hampshire
## 2326                            oregon
## 2328                        california
## 2341                        california
## 2348                        california
## 2370                     new hampshire
## 2376                            nevada
## 2382                              utah
## 2385                         minnesota
## 2406                     new hampshire
## 2409                           georgia
## 2421                            oregon
## 2456                           alabama
## 2462                             maine
## 2476                        california
## 2481                            nevada
## 2488                      north dakota
## 2496                              utah
## 2520                     massachusetts
## 2531                        california
## 2541                            oregon
## 2544                          virginia
## 2563                           arizona
## 2568                              ohio
## 2580                          new york
## 2599                           florida
## 2600                              ohio
## 2602                         minnesota
## 2605                            nevada
## 2615                           florida
## 2620                             maine
## 2623                             idaho
## 2651                              utah
## 2655                           georgia
## 2659                            oregon
## 2660                          arkansas
## 2663                           florida
## 2667                           vermont
## 2672                            nevada
## 2677                            nevada
## 2690                             maine
## 2695                           florida
## 2702                            oregon
## 2710                           arizona
## 2738                            oregon
## 2742                            nevada
## 2745                            nevada
## 2773                             idaho
## 2787                             texas
## 2792                        new mexico
## 2803                           arizona
## 2813                          missouri
## 2817                         tennessee
## 2819                          colorado
## 2832                         minnesota
## 2857                            nevada
## 2860                           georgia
## 2865                             idaho
## 2875                          illinois
## 2880                            nevada
## 2894                          illinois
## 2899                            oregon
## 2912                          new york
## 2927                        california
## 2933                            nevada
## 2947                           florida
## 2951                       connecticut
## 2957                        new mexico
## 2961                           florida
## 2968                           florida
## 2971                      north dakota
## 2995                          new york
## 3032                         tennessee
## 3036                       connecticut
## 3040                            nevada
## 3053                            nevada
## 3062                         minnesota
## 3067                       connecticut
## 3074                             maine
## 3092                        new mexico
## 3102                        new jersey
## 3119                        california
## 3123                            nevada
## 3134                          illinois
## 3141                        california
## 3143                             idaho
## 3173                        washington
## 3178                        new mexico
## 3186                            nevada
## 3204                              utah
```

```
## 3210                          new york
## 3211                          new york
## 3218                              utah
## 3230                     new hampshire
## 3251                             idaho
## 3262                           florida
## 3269                        california
## 3271                          oklahoma
## 3278                          michigan
## 3282                           alabama
## 3302                           florida
## 3318                              utah
## 3323                        california
## 3367                           georgia
## 3376                     new hampshire
## 3392                             idaho
## 3409                            nevada
## 3416                           arizona
## 3436                          michigan
## 3441                              utah
## 3472                            nevada
## 3485                       connecticut
## 3492                     new hampshire
## 3494                          kentucky
## 3501                        california
## 3506                             maine
## 3530                        california
## 3565                             idaho
## 3577                           florida
## 3613                         tennessee
## 3617                         tennessee
## 3639                       rhode island
## 3657                          illinois
## 3668                        california
## 3686                           arizona
## 3698                           montana
## 3704                             idaho
## 3707                           alabama
## 3780                         tennessee
## 3790                            nevada
## 3794                        california
## 3796                      south dakota
## 3822                          delaware
## 3825                     new hampshire
## 3861                            oregon
## 3887                        california
## 3921                            oregon
## 3922                     new hampshire
## 3926                             maine
## 3943                        california
## 3954                              utah
## 3964                           georgia
## 3976                           florida
## 3984                           florida
## 4006                          missouri
## 4010                          new york
## 4028                         tennessee
## 4043                           arizona
## 4045                         louisiana
## 4053                             maine
## 4055                            nevada
## 4057                         tennessee
## 4098                           florida
## 4100                       rhode island
## 4113                          new mexico
## 4119                    south carolina
## 4136                             texas
## 4138                            oregon
## 4150                            nevada
## 4169                         louisiana
## 4173                            nevada
## 4193                           florida
## 4198                        california
## 4203                            oregon
## 4211                     new hampshire
## 4220                         nebraska
## 4229                           florida
## 4247                           vermont
## 4273                           florida
## 4274                           florida
## 4284                           florida
## 4301                          illinois
## 4325                          colorado
## 4349                         tennessee
## 4350                     massachusetts
## 4370                          colorado
## 4372                          oklahoma
## 4388                           florida
## 4390                         wisconsin
## 4400                           florida
## 4401                        california
## 4402                     massachusetts
## 4418                           montana
## 4421                            nevada
## 4431                           vermont
## 4440                          illinois
## 4458                           florida
## 4461                         minnesota
```

```
## 4469                          nevada
## 4472                     connecticut
## 4479                         alabama
## 4483                         arizona
## 4503                         arizona
## 4519                    rhode island
## 4522                      california
## 4525                    south dakota
## 4528                      new mexico
## 4538                   massachusetts
## 4548                         vermont
## 4554                      california
## 4557                         alabama
## 4569                         montana
## 4576                         alabama
## 4590                    rhode island
## 4594                     connecticut
## 4604                           idaho
## 4622                         florida
## 4626                      new jersey
## 4629                          nevada
## 4633                          nevada
## 4646                        new york
## 4650                     mississippi
## 4660                        michigan
## 4673                          nevada
## 4684                            utah
## 4699                            utah
## 4720                         georgia
## 4724                      california
## 4728                         florida
## 4751                          oregon
## 4778                       louisiana
## 4812                         georgia
## 4820                        illinois
## 4835                            ohio
## 4843                            utah
## 4876                      new mexico
## 4882                      new mexico
## 4895                       tennessee
## 4907                       tennessee
## 4912                         georgia
## 4941                      california
## 4952                      california
## 4954                         florida
## 4956                           maine
## 4957                       tennessee
## 4959                           idaho
## 4960                       tennessee
## 4987                      california
## 5022                      california
## 5027                      california
## 5029                           texas
## 5053                        colorado
## 5054                          oregon
## 5055                         georgia
## 5066                    south dakota
## 5069                          nevada
## 5077                         georgia
## 5091                      california
## 5110                    south dakota
## 5114                    rhode island
## 5161                    south dakota
## 5215                      california
## 5216                            ohio
## 5219                      california
## 5251                         georgia
## 5254                      california
## 5258                          nevada
## 5269                    pennsylvania
## 5277                          oregon
## 5285                        colorado
## 5291                        missouri
## 5292                   new hampshire
## 5340                         georgia
## 5341                        arkansas
## 5347                      california
## 5373                      california
## 5382                   massachusetts
## 5394                       tennessee
## 5432                      california
## 5443                         arizona
## 5445                          nevada
## 5454                      california
## 5464                         arizona
## 5479                      new mexico
## 5503                           maine
## 5514                         vermont
## 5517                          oregon
## 5545                        oklahoma
## 5549                         arizona
## 5558                          nevada
## 5569                         florida
## 5590                        new york
## 5592                        colorado
## 5608                         vermont
## 5609                       wisconsin
## 5611                      california
```

```
## 5624                              maine
## 5651                           new york
## 5673                         california
## 5692                              maine
## 5694                             nevada
## 5716                             nevada
## 5736                       pennsylvania
## 5745                       rhode island
## 5777                            florida
## 5789                         california
## 5822                            florida
## 5831                              maine
## 5843                          tennessee
## 5863                             hawaii
## 5865                              idaho
## 5868                         california
## 5870                              maine
## 5882                               ohio
## 5883                      massachusetts
## 5888                     south carolina
## 5899                              idaho
## 5902                         california
## 5903                      massachusetts
## 5904                             nevada
## 5906                               utah
## 5907                               utah
## 5932                          tennessee
## 5933                             nevada
## 5940                               utah
## 5942                        mississippi
## 5946                            florida
## 5955                         california
## 5967                         california
## 5973                            florida
## 5989                             nevada
## 5999                              idaho
## 6004                            indiana
## 6024                            florida
## 6037                             nevada
## 6038                           michigan
## 6041                            arizona
## 6047                      new hampshire
## 6048                      massachusetts
## 6052                           new york
## 6087                              idaho
## 6102                      massachusetts
## 6132                         california
## 6139                            vermont
## 6147                            montana
## 6154                district of columbia
## 6155                           nebraska
## 6156                            georgia
## 6181                         california
## 6186                           new york
## 6214                          tennessee
## 6217                           illinois
## 6228                            florida
## 6232                         california
## 6243                          louisiana
## 6248                             oregon
## 6270                          minnesota
## 6274                              idaho
## 6284                       south dakota
## 6309                              texas
## 6310                            indiana
## 6317                          tennessee
## 6361                           oklahoma
## 6366                          minnesota
## 6370                            florida
## 6393                            florida
## 6429                           michigan
## 6448                       south dakota
## 6469                       south dakota
## 6481                          louisiana
## 6485                            georgia
## 6492                               utah
## 6493                      massachusetts
## 6499                          tennessee
## 6500                         washington
## 6510                           new york
## 6522                            florida
## 6528                         california
## 6536                        connecticut
## 6550                          tennessee
## 6555                         california
## 6559                           new york
## 6591                            montana
## 6641                          tennessee
## 6644                            georgia
## 6646                             nevada
## 6648                         california
## 6682                             oregon
## 6699                            georgia
## 6700                         california
## 6704                       south dakota
## 6716                               utah
## 6719                               ohio
## 6724                          minnesota
```

```
## 6737                          tennessee
## 6795                           new york
## 6813                           new york
## 6826                          louisiana
## 6842                         california
## 6852                           new york
## 6856                            montana
## 6866                       new hampshire
## 6875                           colorado
## 6901                           new york
## 6944                       new hampshire
## 6952                             nevada
## 6968                            georgia
## 6980                             oregon
## 6991                         california
## 6992                          louisiana
## 7041                       new hampshire
## 7046                            florida
## 7055                         california
## 7070                           oklahoma
## 7078                           missouri
## 7083                           illinois
## 7092                         california
## 7093                              maine
## 7113                             oregon
## 7128                           michigan
## 7140                          minnesota
## 7154                             nevada
## 7157                             oregon
## 7170                        mississippi
## 7175                         california
## 7181                           delaware
## 7194                         california
## 7200                          minnesota
## 7205                              maine
## 7209                             oregon
## 7210                          tennessee
## 7211                          tennessee
## 7212                               utah
## 7246                            florida
## 7248                         california
## 7260                             nevada
## 7264                             nevada
## 7277                          minnesota
## 7283                             nevada
## 7286                         california
## 7300                          minnesota
## 7332                               iowa
## 7348                              texas
## 7350                          tennessee
## 7356                           colorado
## 7367                          minnesota
## 7368                          tennessee
## 7369                         washington
## 7370                            arizona
## 7376                         california
## 7379                            florida
## 7388                               utah
## 7395                          tennessee
## 7398                          tennessee
## 7457        Dec-2018          new hampshire
## 7471                             nevada
## 7482                          tennessee
## 7507                         california
## 7514                            arizona
## 7519                            georgia
## 7525                       new hampshire
## 7527                               utah
## 7537                        connecticut
## 7542                           oklahoma
## 7561                              idaho
## 7569                          tennessee
## 7576                       new hampshire
## 7639                           new york
## 7640                       massachusetts
## 7650                            montana
## 7652                          tennessee
## 7672                          tennessee
## 7673                               ohio
## 7674                           colorado
## 7681                            montana
## 7683                            arizona
## 7685                            indiana
## 7702                         california
## 7716                             nevada
## 7717                         california
## 7721                             nevada
## 7726                         california
## 7760                            arizona
## 7766                              idaho
## 7793                            arizona
## 7802                           colorado
## 7826                          louisiana
## 7846                            alabama
## 7866                            alabama
## 7883                             oregon
## 7885                        south dakota
## 7911                            vermont
```

```
## 7917                          tennessee
## 7919                           new york
## 7922                               texas
## 7928                         california
## 7939                            montana
## 7941                           michigan
## 7947                         new mexico
## 7955                           oklahoma
## 7968                             nevada
## 7969                            florida
## 7974                          tennessee
## 7982                             oregon
## 7995                           michigan
## 8000                       north carolina
## 8005                         california
## 8007                          louisiana
## 8019                         california
## 8021                             oregon
## 8039                         new jersey
## 8055                             nevada
## 8061                            georgia
## 8066                           new york
## 8093                             nevada
## 8095                           michigan
## 8100                        south dakota
## 8142                             arizona
## 8149                            georgia
## 8152                          tennessee
## 8156                            montana
## 8165                              idaho
## 8201                            georgia
## 8203                         california
## 8209                         washington
## 8224                           michigan
## 8246                          tennessee
## 8256                             nevada
## 8267        Oct-2018                texas
## 8272                         california
## 8284                       massachusetts
## 8295                                utah
## 8316                            georgia
## 8336                           missouri
## 8355                          tennessee
## 8360                       massachusetts
## 8364                           kentucky
## 8379                           arkansas
## 8391                         california
## 8392        Oct-2018           tennessee
## 8396                               maine
## 8437                           oklahoma
## 8459                          tennessee
## 8462                             nevada
## 8477                            alabama
## 8482                            vermont
## 8490                            florida
## 8491                            florida
## 8496                          tennessee
## 8498                           michigan
## 8516                           illinois
## 8518                         california
## 8522                         washington
## 8526                         california
## 8529                            montana
## 8537                            florida
## 8552                               iowa
## 8585                         california
## 8602                            montana
## 8627                              idaho
## 8647                             oregon
## 8674                           illinois
## 8709                            arizona
## 8711                            georgia
## 8712                             nevada
## 8721                             nevada
## 8735                           delaware
## 8767                            indiana
## 8783                         california
## 8795                         california
## 8804                            vermont
## 8824                       new hampshire
## 8835                       new hampshire
## 8862                               maine
## 8864                        connecticut
## 8890                           nebraska
## 8895                         new mexico
## 8906                             nevada
## 8944                         california
## 8946                          tennessee
## 8953                           new york
## 8963                             oregon
## 8966                            florida
## 8977                              texas
## 9042                               utah
## 9047                           illinois
## 9048                               maine
## 9056                        connecticut
## 9057                             nevada
## 9058                         california
```

```
## 9083                          minnesota
## 9091                            vermont
## 9096                            florida
## 9098                              idaho
## 9101                         washington
## 9103                       rhode island
## 9140                            florida
## 9154                              idaho
## 9160                            arizona
## 9163                      new hampshire
## 9202                       north dakota
## 9240                             hawaii
## 9243                         california
## 9245                           oklahoma
## 9254                     north carolina
## 9286                              maine
## 9294                         california
## 9321                               utah
## 9336                        mississippi
## 9380                          tennessee
## 9383                             nevada
## 9388                             nevada
## 9413                           michigan
## 9431                               utah
## 9432                            florida
## 9444                               iowa
## 9459                           new york
## 9464                               ohio
## 9474                      new hampshire
## 9481                            florida
## 9497                            arizona
## 9499                         california
## 9503                            georgia
## 9506                           colorado
## 9509                              maine
## 9522                         california
## 9546                         california
## 9559                         california
## 9573                              maine
## 9610                          tennessee
## 9614                         california
## 9627                         california
## 9628                         california
## 9629                             oregon
## 9652                              idaho
## 9677                           michigan
## 9681                            georgia
## 9690                            georgia
## 9697                            alabama
## 9701                            indiana
## 9705                            alabama
## 9714                            indiana
## 9718                          tennessee
## 9722                         california
## 9748                           oklahoma
## 9751                           illinois
## 9753                               iowa
## 9773                       south dakota
## 9783                            montana
## 9786                               utah
## 9796                           colorado
## 9811                           michigan
## 9816                           new york
## 9817                          tennessee
## 9820                      new hampshire
## 9834                            arizona
## 9843                         california
## 9872                            georgia
## 9882                         california
## 9898                       rhode island
## 9904                            arizona
## 9924                             kansas
## 9943                         california
## 9945                            montana
## 9983         Jul-2018         tennessee
## 9988                            montana
## 10024                           georgia
## 10033                          delaware
## 10058                           montana
## 10062                          illinois
## 10078                     massachusetts
## 10088                           arizona
## 10096                            oregon
## 10110                         tennessee
## 10166                         tennessee
## 10167                              utah
## 10192                            oregon
## 10195                         tennessee
##  [ reached 'max' / getOption("max.print") -- omitted 57695 rows ]
```

```
stateFL = loan[addr_state== 'FL',]
stateFL
```

```
##            X loan_amnt funded_amnt funded_amnt_inv       term int_rate
## 35      6171     10000       10000           10000  36 months    10.72
## 54     11077     10000       10000           10000  60 months    12.98
```

```
## 59     12442      8000        8000            8000  36 months    23.40
## 60     12562     40000       40000           40000  60 months    16.14
## 71     14228     10000       10000           10000  36 months    11.80
## 73     14951     24000       24000           24000  60 months    11.80
## 74     14990     10000       10000           10000  36 months    11.80
## 90     18049      6500        6500            6500  36 months    18.94
## 101    20226      3000        3000            3000  36 months     8.81
## 124    23597      6600        6600            6600  36 months    23.40
## 137    26329      3000        3000            3000  36 months    15.02
## 142    27503      8500        8500            8500  36 months     8.19
## 143    27504      8000        8000            8000  36 months     6.46
## 160    30204      6400        6400            6400  36 months    24.37
## 161    30407      8000        8000            7725  36 months    11.80
## 165    30786     13500       13500           13500  36 months    20.89
## 174    32154      3000        3000            3000  36 months     7.56
## 192    34732     20400       20400           20400  36 months    18.94
## 193    35001     12000       12000           12000  36 months     8.81
## 206    36527      8700        8700            8700  36 months    11.80
## 212    37707     10000       10000           10000  36 months    20.89
## 218    38735     18000       18000           18000  36 months    10.33
## 229    39787      4000        4000            4000  36 months    12.98
## 232    40517      6000        6000            6000  36 months     8.19
## 234    40606      5000        5000            5000  36 months    16.91
## 236    40817      2500        2500            2500  36 months    17.97
## 246    42330     35000       35000           35000  60 months    13.56
## 247    42949      3000        3000            3000  36 months     8.19
## 262    46091      6000        6000            6000  36 months    22.35
## 285    48722     10000       10000           10000  36 months     7.02
## 296    50187      9600        9600            9600  36 months     8.19
## 302    50888      1000        1000            1000  36 months    16.91
## 304    51185      1000        1000            1000  36 months    23.40
## 324    54358     15000       15000           15000  60 months    19.92
## 326    54696     14000       14000           14000  36 months    19.92
## 328    54778     15000       15000           15000  60 months    15.02
## 329    55148     10000       10000           10000  60 months    27.27
## 330    55200     24000       24000           24000  36 months    18.94
## 338    55742     20000       20000           20000  60 months    27.27
## 353    57129     15000       15000           15000  36 months     8.19
## 357    57510     10500       10500           10500  60 months    22.35
## 361    58105     35000       35000           35000  36 months    16.14
## 370    59544     30000       30000           30000  36 months     8.81
## 377    60193      8000        8000            8000  36 months    13.56
## 382    61528     18000       18000           18000  60 months    27.27
## 410    63709     10000       10000           10000  36 months    14.47
## 428    65811      7000        7000            7000  36 months     6.67
## 450    68292      6000        6000            6000  36 months    13.56
## 465    70093      2500        2500            2500  36 months    16.14
## 466    70128     15000       15000           15000  36 months     8.81
## 471    70504      7500        7500            7500  36 months    12.98
## 479    71305      5000        5000            5000  36 months    17.97
## 485    72526      6000        6000            6000  36 months    11.31
## 491    72928      6025        6025            6025  36 months    12.73
## 496    73764     10000       10000           10000  36 months    10.47
## 497    73798     18000       18000           18000  60 months    14.47
## 499    74183     12000       12000           12000  36 months     8.46
## 548    80298     21000       21000           21000  60 months    16.91
## 558    81283      8500        8500            8500  36 months    10.08
## 570    83017     10000       10000           10000  36 months    12.73
## 577    84149     13000       13000           12975  60 months    11.55
## 579    84356      9000        9000            9000  36 months     7.84
## 608    87773      3700        3700            3700  36 months    18.94
## 626    89364     20000       20000           20000  36 months    17.97
## 634    89921     20000       20000           20000  60 months    20.89
## 636    90185     10000       10000           10000  36 months    11.55
## 641    90587     13200       13200           13200  36 months     8.46
## 658    92915      3000        3000            3000  36 months    17.97
## 660    93390     20000       20000           20000  36 months     7.84
## 670    94261      1500        1500            1500  36 months    17.97
## 674    94572     10000       10000           10000  36 months    14.47
## 689    95819      8000        8000            8000  36 months    22.35
## 696    96646     17000       17000           17000  36 months     7.84
## 705    97712     12000       12000           12000  36 months    11.55
## 713    98090     30000       30000           30000  36 months    22.35
## 752   102192     12150       12150           12150  60 months    22.35
## 790   105325     10000       10000           10000  36 months    22.35
## 799   105772     10000       10000           10000  36 months    14.47
## 819   107729     12000       12000           12000  36 months    10.47
## 840   110137     32000       32000           32000  36 months    14.47
## 844   110376      4000        4000            4000  36 months    11.55
## 845   110457     19925       19925           19925  36 months    23.40
## 855   111303     25000       25000           25000  36 months    14.47
## 866   112137     35000       35000           35000  60 months    14.47
## 869   112258      2500        2500            2500  36 months    16.91
## 899   115345     11000       11000           11000  60 months    10.08
## 904   115669      8400        8400            8400  36 months    10.08
## 917   117166      5500        5500            5500  36 months    22.35
## 940   119814     20000       20000           20000  36 months    10.47
## 957   120555      1500        1500            1500  36 months     7.84
## 960   121134     24000       24000           24000  60 months    12.73
## 993   125022      4500        4500            4500  36 months    12.73
## 998   125271     17000       17000           17000  36 months     6.67
## 1025  127398     35000       35000           35000  60 months    22.35
## 1056  129979      3000        3000            3000  36 months    16.14
## 1063  130462      4000        4000            4000  36 months    14.47
## 1083  131795     25000       25000           25000  36 months    19.92
## 1105  133419     17200       17200           17200  60 months    19.92
## 1117  134243      6000        6000            6000  36 months    16.14
## 1118  134362      7000        7000            7000  36 months    15.02
```

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## 1146  136582     25000       25000           24975  36 months    27.27
## 1170  138059      6000        6000            6000  36 months    20.89
## 1227  141735      7200        7200            7200  36 months    14.47
## 1263  144164      5000        5000            5000  36 months    17.97
## 1264  144263     10000       10000           10000  60 months    19.92
## 1273  145367     14000       14000           14000  36 months    12.73
## 1285  146127      5000        5000            5000  36 months     7.84
## 1319  148570      3500        3500            3500  36 months     6.11
## 1337  149833      6000        6000            6000  36 months     7.84
## 1349  151115     12500       12500           12500  36 months     7.84
## 1351  151440     35000       35000           35000  60 months    17.97
## 1356  151852     10000       10000           10000  60 months    18.94
## 1386  154036      5000        5000            5000  36 months     7.21
## 1388  154269      8000        8000            8000  36 months    11.55
## 1390  154480     15000       15000           15000  36 months     6.67
## 1410  155483     30000       30000           30000  36 months     8.46
## 1416  155664     40000       40000           40000  36 months     8.46
## 1434  156450     22000       22000           22000  60 months    12.73
## 1439  156695      2000        2000            2000  36 months    23.40
## 1449  157222     25000       25000           25000  36 months    16.14
## 1459  157534     15000       15000           15000  36 months     7.21
## 1462  157695     12000       12000           12000  36 months    15.02
## 1480  159403     12000       12000           12000  60 months    16.91
## 1484  159638      5000        5000            5000  36 months    16.91
## 1487  159821     35000       35000           35000  60 months    17.97
## 1527  161742      5100        5100            5100  36 months    23.40
## 1529  161857      6000        6000            6000  36 months    11.55
## 1530  161981      5000        5000            5000  36 months    22.35
## 1545  163047     35000       35000           34750  36 months    11.06
## 1567  164429      5500        5500            5500  36 months    18.94
## 1597  165909     10500       10500           10500  36 months    11.06
## 1601  166332     16000       16000           16000  60 months    11.55
## 1623  168748     40000       40000           40000  36 months     8.46
## 1633  169600      9600        9600            9600  36 months    17.97
## 1636  169724     15000       15000           15000  36 months    11.55
## 1640  170018     20000       20000           20000  36 months    15.02
## 1645  170319      7425        7425            7425  36 months    16.91
## 1650  170800     30175       30175           30175  60 months    18.94
## 1671  172131      1500        1500            1500  36 months     7.84
## 1672  172205     11650       11650           11650  36 months    19.92
## 1696  173485      8000        8000            8000  36 months    16.14
## 1704  174157     10000       10000           10000  36 months     6.67
## 1721  175379     12000       12000           12000  60 months    22.35
## 1724  175480     12000       12000           12000  60 months    11.55
## 1728  175562     10000       10000           10000  36 months    15.02
## 1730  175829     27000       27000           27000  60 months     7.21
## 1734  175939      1000        1000            1000  36 months    27.27
## 1752  176980      4600        4600            4600  36 months     8.46
## 1771  177780     35000       35000           35000  60 months    18.94
## 1816  180886     15000       15000           15000  36 months    10.08
## 1846  182289     11000       11000           11000  36 months     7.84
## 1850  182458      4800        4800            4800  36 months    11.06
## 1853  182564     10000       10000           10000  60 months    16.91
## 1856  182829     20000       20000           20000  60 months    10.47
## 1857  182901      2000        2000            2000  36 months     7.21
## 1862  183164      5500        5500            5500  36 months    12.73
## 1865  183250      8000        8000            8000  36 months    15.02
## 1866  183272     15000       15000           15000  36 months     7.21
## 1867  183308     25750       25750           25750  36 months    22.35
## 1896  184982     12000       12000           12000  36 months     7.84
## 1905  185722      2400        2400            2400  36 months    16.14
## 1907  185750      4000        4000            4000  36 months    16.91
## 1922  186328     15000       15000           15000  60 months    16.91
## 1930  187000     10000       10000           10000  36 months    11.55
## 1933  187060     10000       10000           10000  36 months    16.14
## 1952  188228     10000       10000           10000  36 months     6.11
## 1956  188359      4000        4000            4000  36 months    16.14
## 1961  188722     19500       19500           19500  36 months    22.35
## 1963  188875     12000       12000           12000  36 months    10.47
## 2004  190690      3000        3000            3000  36 months    18.94
## 2012  191139     10000       10000           10000  36 months     8.46
## 2017  191324     25000       25000           25000  60 months    17.97
## 2019  191349     25000       25000           25000  60 months    22.35
## 2026  191913     15000       15000           15000  36 months     7.21
## 2027  191992     40000       40000           40000  36 months     6.11
## 2039  192430      9000        9000            9000  36 months    11.06
## 2041  192521     30000       30000           30000  60 months    18.94
## 2051  193264     10000       10000           10000  60 months    10.08
## 2060  194023      1500        1500            1500  36 months    15.02
## 2065  194352     10000       10000           10000  36 months    12.73
## 2073  194743     28000       28000           28000  60 months    11.55
## 2105  196301      3500        3500            3500  36 months    12.73
## 2117  197054      2900        2900            2900  36 months     6.67
## 2128  197779      6000        6000            6000  36 months     7.84
## 2129  197836     12000       12000           12000  60 months    17.97
## 2136  198244      5000        5000            5000  36 months    20.89
## 2137  198264     12000       12000           12000  36 months    17.97
## 2148  198613      3000        3000            3000  36 months    15.02
## 2155  198982      3000        3000            3000  36 months    14.47
## 2168  199665      8000        8000            8000  36 months     8.46
## 2197  200946     10000       10000           10000  36 months     7.21
## 2215  201844      4000        4000            4000  36 months    16.14
## 2224  202257     10000       10000           10000  36 months    16.14
## 2234  203053     10800       10800           10800  36 months    17.97
## 2255  204409     16000       16000           16000  36 months    10.47
## 2258  204544     24000       24000           24000  36 months    12.73
## 2286  206084      3000        3000            3000  36 months    11.55
## 2296  206751      3200        3200            3200  36 months    10.08
```

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## 2329  208209      1000        1000            1000  36 months    22.35
## 2342  208802      5000        5000            5000  36 months    17.97
## 2347  209055     30000       30000           30000  60 months    30.17
## 2357  209390     11000       11000           11000  36 months    16.91
## 2377  210211      3300        3300            3300  36 months    10.47
## 2393  210708     30000       30000           29975  36 months    22.35
## 2396  210767     35000       35000           35000  60 months    22.35
## 2399  210858      7400        7400            7400  36 months    24.37
## 2405  211319     40000       40000           40000  60 months    13.56
## 2420  211838      6000        6000            6000  36 months    15.02
## 2425  212071     15000       15000           15000  36 months    14.47
## 2429  212340      8000        8000            8000  36 months    12.73
## 2439  212887      4800        4800            4800  36 months    16.14
## 2447  213113     30000       30000           30000  36 months    12.73
## 2449  213141      2000        2000            2000  36 months    20.89
## 2457  213545     10000       10000           10000  36 months     8.46
## 2478  214624      8500        8500            8500  36 months     8.46
## 2480  214694      4200        4200            4200  36 months    10.08
## 2492  215185     15000       15000           15000  36 months    16.14
## 2494  215272     19000       19000           19000  36 months    10.47
## 2504  215945      4500        4500            4500  36 months    14.47
## 2510  216476      6600        6600            6600  36 months    11.55
## 2514  216714      3000        3000            3000  36 months    11.06
## 2516  216775     15000       15000           15000  36 months    16.91
## 2522  216955     24000       24000           24000  60 months    16.14
## 2529  217190     11500       11500           11500  36 months    15.02
## 2535  217294      5000        5000            5000  36 months    19.92
## 2545  217705      8000        8000            8000  36 months     8.46
## 2549  217854     11400       11400           11400  60 months    10.47
## 2593  220078     22175       22175           22175  60 months    23.40
## 2598  220265     11000       11000           11000  60 months    15.02
## 2604  220467      2400        2400            2400  36 months    25.34
## 2628  221217     10000       10000           10000  36 months    16.91
## 2631  221389      6200        6200            6200  36 months    12.73
## 2661  222699     12000       12000           12000  36 months    16.91
## 2673  223541     40000       40000           40000  36 months    11.55
## 2692  224325     28000       28000           28000  60 months    16.14
## 2707  224843     10000       10000           10000  60 months    16.91
## 2714  225131     30000       30000           30000  60 months    15.02
## 2715  225237     20750       20750           20750  60 months    30.79
## 2761  227408     16000       16000           16000  60 months    14.47
## 2772  227959     12000       12000           12000  36 months    14.47
## 2788  228557     10000       10000           10000  60 months    16.91
## 2789  228592     21000       21000           21000  60 months    12.13
## 2820  230101     10000       10000           10000  60 months    17.97
## 2840  230737     14000       14000           14000  36 months     7.21
## 2856  231430     21000       21000           21000  36 months    16.91
## 2858  231448     16000       16000           16000  60 months    16.14
## 2861  231671      8000        8000            8000  36 months    13.56
## 2872  232085      3600        3600            3600  36 months    11.06
## 2877  232319     32000       32000           32000  36 months    10.47
## 2878  232404     12000       12000           12000  36 months     7.84
## 2879  232566     19275       19275           19000  36 months    12.73
## 2893  233027     30000       30000           29975  36 months    16.14
## 2913  233727      1200        1200            1200  36 months    11.55
## 2915  233789     34000       34000           34000  60 months     6.11
## 2918  233873     10000       10000           10000  60 months    11.55
## 2940  235268     10000       10000           10000  60 months    15.02
## 2942  235388     15000       15000           15000  60 months    13.56
## 2954  235639      7200        7200            7200  36 months    12.73
## 2976  236731      6000        6000            6000  36 months    13.56
## 2977  236756      5000        5000            5000  36 months     6.11
## 2978  236855      7150        7150            7150  36 months    12.73
## 2982  236914     10000       10000           10000  36 months    22.35
## 3002  237525      9500        9500            9500  36 months     6.11
## 3012  237920     15000       15000           15000  36 months    22.35
## 3017  238017      3000        3000            3000  36 months    20.89
## 3018  238074     10000       10000           10000  36 months    14.47
## 3021  238225      3200        3200            3200  36 months    17.97
## 3034  238634      6800        6800            6800  36 months     7.84
## 3045  239224     15000       15000           15000  36 months    13.56
## 3050  239434     15000       15000           15000  36 months    16.91
## 3057  239753     20000       20000           20000  36 months     6.11
## 3071  240623     10000       10000           10000  36 months    20.89
## 3104  242267      8000        8000            8000  36 months    14.47
## 3112  242583     30000       30000           30000  60 months    25.34
## 3124  243101     20000       20000           20000  36 months     7.84
## 3150  244267     18000       18000           18000  60 months    12.73
## 3160  244603     16000       16000           16000  60 months    16.91
## 3165  244747     36000       36000           36000  60 months    16.91
## 3172  245077     15000       15000           15000  36 months     8.46
## 3177  245310      7000        7000            7000  36 months    11.06
## 3213  246318      4000        4000            4000  36 months     8.46
## 3222  246712      2000        2000            2000  36 months     8.46
## 3237  247286      7500        7500            7500  36 months    16.14
## 3252  247693      6000        6000            6000  36 months    23.40
## 3257  247775      8400        8400            8400  36 months     7.84
## 3258  247827     26600       26600           26600  36 months    20.39
## 3265  248262     24000       24000           24000  60 months    11.06
## 3276  248625      6000        6000            6000  36 months    13.56
## 3289  249465     30000       30000           30000  60 months    17.97
## 3307  249923     12000       12000           12000  60 months    16.91
## 3312  250001     35000       35000           35000  36 months    16.91
## 3317  250108     35000       35000           35000  36 months     6.67
## 3333  250787     29000       29000           29000  60 months    25.34
## 3366  252378     30000       30000           30000  36 months    20.39
## 3383  252886      7000        7000            7000  36 months    13.06
## 3419  253980     12000       12000           12000  60 months    16.46
```

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## 3421  254056      4200        4200            4200  36 months    16.91
## 3422  254060      9600        9600            9600  36 months     8.46
## 3429  254187     20000       20000           20000  36 months    11.55
## 3433  254314     10000       10000           10000  36 months    12.13
## 3449  255006     15000       15000           15000  36 months    16.14
## 3458  255350     16000       16000           16000  36 months    11.06
## 3467  255618      9000        9000            9000  36 months    11.05
## 3471  255781     12000       12000           12000  36 months    19.42
## 3480  256209     18000       18000           18000  36 months    24.84
## 3482  256235      9000        9000            9000  36 months    13.06
## 3502  257017     18000       18000           18000  36 months     6.83
## 3504  257095      5900        5900            5900  36 months    19.42
## 3507  257302      3000        3000            3000  36 months    15.49
## 3536  258471     15500       15500           15500  36 months    11.05
## 3538  258535     17000       17000           17000  60 months    29.69
## 3542  258650     12000       12000           12000  36 months    14.03
## 3547  258861      6000        6000            6000  36 months    14.03
## 3553  259006     30000       30000           30000  60 months    20.39
## 3567  259385     10000       10000           10000  60 months    25.81
## 3590  260290     17000       17000           17000  60 months    16.46
## 3607  261028     10000       10000           10000  36 months     6.83
## 3623  262351     12000       12000           12000  36 months    18.45
## 3635  263006      7200        7200            7200  36 months    10.07
## 3655  263644      8000        8000            8000  36 months     8.08
## 3684  264698      5000        5000            5000  36 months     8.08
## 3687  264880      6000        6000            6000  36 months    20.39
## 3688  264907     12875       12875           12875  36 months     5.31
## 3699  265234     21000       21000           21000  36 months    18.45
## 3701  265295      3500        3500            3500  36 months     8.08
## 3712  265517     12000       12000           12000  60 months    20.39
## 3730  266094     13000       13000           13000  36 months     6.83
## 3749  266742     35000       35000           35000  36 months    15.49
## 3756  267121     24625       24625           24625  36 months    18.45
## 3758  267158      6025        6025            6025  36 months    14.52
## 3771  267543     12000       12000           12000  36 months     5.31
## 3785  268005     15000       15000           15000  36 months     6.83
## 3788  268216     20000       20000           20000  36 months     7.46
## 3852  270366      5000        5000            5000  36 months    14.03
## 3857  270502     35000       35000           35000  60 months    13.06
## 3865  270766     25000       25000           25000  60 months    19.42
## 3889  271688     20000       20000           20000  60 months    18.45
## 3892  271710     40000       40000           40000  60 months    16.46
## 3901  272239      6000        6000            6000  36 months    16.46
## 3917  273053     12000       12000           12000  36 months    16.46
## 3924  273349      7200        7200            7200  36 months    13.06
## 3938  273545      8000        8000            8000  36 months    10.56
## 3947  273643     15000       15000           15000  60 months     9.58
## 3949  273670     10000       10000            9975  36 months    13.06
## 3959  273950      8000        8000            8000  36 months    12.13
## 3977  274417      5000        5000            5000  36 months    10.07
## 3990  275194     20000       20000           20000  36 months    13.06
## 4001  275513      4000        4000            4000  36 months    14.52
## 4003  275520     15000       15000           15000  36 months    10.07
## 4016  275863     35000       35000           35000  60 months    17.47
## 4017  275869     10000       10000           10000  36 months    20.39
## 4021  275923     20000       20000           20000  36 months     6.83
## 4022  276036     13000       13000           13000  60 months    18.45
## 4026  276182      4000        4000            4000  36 months    12.13
## 4036  276544     10500       10500           10500  36 months    11.05
## 4049  277011     15000       15000           15000  36 months     6.19
## 4054  277189     15000       15000           15000  36 months    12.13
## 4093  278793     25000       25000           25000  36 months    13.06
## 4099  279186      9500        9500            9500  36 months    12.13
## 4104  279370     35000       35000           35000  36 months    14.52
## 4107  279448      4800        4800            4800  36 months    19.42
## 4110  279464     15000       15000           15000  60 months    13.06
## 4122  279897     19200       19200           19200  60 months    19.42
## 4128  280066     10000       10000           10000  36 months    12.13
## 4131  280211      3000        3000            3000  36 months    10.07
## 4133  280289     12000       12000           12000  36 months    14.52
## 4135  280350      6000        6000            6000  36 months    16.46
## 4151  280939      4000        4000            4000  36 months    15.49
## 4153  280982     13000       13000           13000  36 months     9.58
## 4157  281025      5000        5000            5000  36 months     9.58
## 4233  283316     10000       10000           10000  60 months    10.07
## 4237  283403      2500        2500            2500  36 months    17.47
## 4254  283735      9600        9600            9600  36 months    11.05
## 4258  283822      1600        1600            1600  36 months    20.39
## 4259  283846     35000       35000           35000  60 months    17.47
## 4261  283871      9600        9600            9600  36 months     9.58
## 4265  283897     12000       12000           12000  36 months    17.47
## 4269  283961      3600        3600            3600  36 months    10.56
## 4297  284737     14725       14725           14725  36 months    17.47
## 4307  285004     30000       30000           30000  36 months    10.56
## 4341  286028      2000        2000            2000  36 months     9.58
## 4342  286043     10000       10000           10000  36 months    16.46
## 4351  286398      7000        7000            7000  36 months    10.56
## 4352  286400      5000        5000            5000  36 months     5.31
## 4376  287076      3000        3000            3000  36 months    16.46
## 4395  287730      3000        3000            3000  36 months    11.05
## 4412  288258     13000       13000           13000  36 months    12.13
## 4414  288317     10000       10000           10000  36 months     7.46
## 4448  289585     11175       11175           11175  60 months    30.79
## 4466  290305     22000       22000           22000  36 months    16.46
## 4476  290639     10000       10000           10000  36 months    14.03
## 4477  290646      9000        9000            9000  36 months    14.03
## 4498  291598      2400        2400            2400  36 months    13.06
## 4501  291655     16000       16000           16000  36 months    14.03
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## 4506  291974     35000       35000           35000  60 months    21.85
## 4517  292265      7000        7000            7000  36 months    17.47
## 4524  292402      5000        5000            5000  36 months    17.47
## 4532  292633     14000       14000           14000  60 months    21.85
## 4539  292971     16000       16000           16000  36 months    14.03
## 4552  293362     15000       15000           15000  60 months    10.07
## 4565  293780      8000        8000            8000  36 months    13.06
## 4580  294248     20000       20000           20000  36 months    19.42
## 4584  294464     12000       12000           12000  36 months    11.05
## 4586  294517     12000       12000           12000  60 months    15.49
## 4611  295274     40000       40000           39750  36 months    10.07
## 4632  296248      6500        6500            6500  36 months     6.19
## 4682  297677     17000       17000           17000  60 months    18.45
## 4688  297822      7000        7000            7000  36 months    11.05
## 4692  297889     10000       10000           10000  36 months    11.05
## 4712  298485      4000        4000            4000  36 months    14.52
## 4743  299512      7800        7800            7800  36 months     5.31
## 4758  299930     40000       40000           40000  36 months    10.07
## 4769  300151     26975       26975           26975  36 months    14.03
## 4774  300256     17000       17000           17000  60 months    14.03
## 4775  300322     26725       26725           26725  60 months    20.39
## 4786  300611      1600        1600            1600  36 months    13.06
## 4791  300730      4800        4800            4800  36 months    13.06
## 4792  300752     12000       12000           12000  36 months    13.06
## 4797  300840     30000       30000           30000  60 months    26.77
## 4801  301067     10000       10000           10000  60 months    21.85
## 4816  301589     13250       13250           13250  60 months    26.77
## 4818  301769     10000       10000           10000  36 months    11.05
## 4832  302214     18000       18000           17750  36 months     9.58
## 4834  302242     10000       10000           10000  36 months     9.58
## 4880  303373      5000        5000            5000  36 months    22.90
## 4921  304654      5000        5000            5000  36 months    15.49
## 4922  304699     21500       21500           21500  36 months    11.05
## 4934  305032     20000       20000           20000  36 months    14.03
## 4951  305357     10000       10000           10000  60 months    14.03
## 4958  305503      6000        6000            6000  36 months    15.49
## 4985  306053      6000        6000            6000  36 months     9.58
## 5010  306809     10000       10000           10000  36 months    15.49
## 5021  307115     11000       11000           11000  36 months    11.05
## 5035  307536     10000       10000           10000  60 months    28.72
## 5036  307602     16000       16000           16000  36 months    10.56
## 5038  307777     35000       35000           35000  60 months    16.46
## 5059  308199     12000       12000           12000  36 months    10.56
## 5060  308231      2500        2500            2500  36 months     8.08
## 5070  308493     11600       11600           11600  60 months    17.47
## 5103  309409      1200        1200            1200  36 months    10.56
## 5134  310485     20000       20000           20000  36 months    14.03
## 5136  310511     12000       12000           12000  36 months    10.56
## 5155  311094     35000       35000           35000  60 months    17.47
## 5157  311109     24500       24500           24500  36 months    14.52
## 5162  311235      5000        5000            5000  36 months    10.07
## 5163  311335     20000       20000           20000  36 months     8.08
## 5168  311419     16000       16000           16000  36 months    15.49
## 5169  311425     12000       12000           12000  36 months    15.04
## 5177  311722      5000        5000            5000  36 months     9.58
## 5184  311934     30050       30050           30050  60 months    11.05
## 5186  311945      5500        5500            5500  36 months    10.56
## 5218  312767     12000       12000           12000  60 months    10.56
## 5220  312862     12000       12000           12000  60 months    21.85
## 5221  312868      5000        5000            5000  36 months    11.05
## 5244  313382      4600        4600            4600  36 months    24.84
## 5255  313605     24000       24000           24000  36 months    12.13
## 5278  314374      8000        8000            8000  36 months    10.07
## 5295  314829     10000       10000           10000  36 months    14.03
## 5317  315319      2800        2800            2800  36 months    12.13
## 5325  315612     13000       13000           13000  36 months    11.05
## 5345  316223     17000       17000           17000  36 months    14.52
## 5348  316314     10000       10000           10000  60 months    18.45
## 5354  316409     30000       30000           29725  36 months     9.58
## 5356  316432     12500       12500           12500  36 months    18.45
## 5358  316472     17575       17575           17575  36 months    15.49
## 5365  316810     12000       12000           12000  36 months    10.07
## 5379  317216      2500        2500            2500  36 months    14.03
## 5390  317679     20000       20000           20000  60 months    19.42
## 5406  318307     30000       30000           30000  36 months    13.06
## 5416  318463     30000       30000           30000  60 months    13.58
## 5431  318838      6100        6100            6100  36 months     6.19
## 5442  319040     25000       25000           25000  36 months    24.84
## 5467  319852     10000       10000           10000  36 months    11.05
## 5494  320443      6000        6000            6000  36 months     6.83
## 5554  321978     15000       15000           15000  36 months     7.46
## 5556  322025     10000       10000            9975  36 months    20.39
## 5565  322222      8000        8000            8000  36 months     7.46
## 5566  322253     40000       40000           40000  36 months    10.41
## 5568  322275     20000       20000           20000  60 months    21.85
## 5574  322363     40000       40000           40000  36 months     9.58
## 5597  323049     20000       20000           20000  60 months    16.01
## 5621  323547     11075       11075           11075  60 months    30.79
## 5623  323606     10700       10700           10700  36 months    13.06
## 5643  324365     34750       34750           34750  60 months    16.46
## 5664  324815     12900       12900           12900  36 months    21.85
## 5666  324864     18000       18000           18000  36 months    15.49
## 5720  326398     35000       35000           35000  60 months    20.39
## 5731  326555     20000       20000           20000  36 months     9.92
## 5733  326662      6000        6000            6000  36 months    23.87
## 5734  326700      4000        4000            4000  36 months     9.58
## 5749  327130      7200        7200            7200  36 months    13.58
## 5759  327232     35000       35000           35000  60 months    14.03
```

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## 5760  327373     16000       16000           16000  60 months    21.85
## 5784  328119      6400        6400            6400  36 months    10.41
## 5786  328125      2000        2000            2000  36 months    13.06
## 5794  328444      4800        4800            4800  36 months     5.31
## 5806  328681      8000        8000            8000  36 months    13.06
## 5809  328731      7500        7500            7500  36 months     9.92
## 5827  329268     25000       25000           25000  36 months    25.81
## 5848  329845     10000       10000           10000  36 months    15.04
## 5849  329881     15000       15000           15000  60 months    14.03
## 5860  330102     14000       14000           14000  36 months    14.07
## 5874  330390     24475       24475           24475  60 months    25.81
## 5876  330418      4000        4000            4000  36 months    21.85
## 5886  330895     10000       10000           10000  60 months    22.90
## 5923  331970     10000       10000           10000  36 months    15.04
## 5948  332545      7000        7000            7000  36 months     7.96
## 5962  332786     12000       12000           12000  36 months    18.45
## 5974  333202      8500        8500            8500  36 months    19.42
## 6002  333814      9000        9000            9000  36 months     7.96
## 6051  334815     15000       15000           15000  36 months     9.43
## 6057  334995      8000        8000            8000  36 months    10.90
## 6083  335799     20000       20000           20000  36 months    14.07
## 6097  336163     40000       40000           40000  60 months     9.43
## 6126  336940     12000       12000           12000  60 months    18.45
## 6157  337723     16000       16000           16000  36 months     6.07
## 6159  337758     10000       10000           10000  36 months    11.98
## 6164  337807     10000       10000           10000  36 months    16.01
## 6165  337815     20000       20000           19975  36 months    12.61
## 6174  338182     40000       40000           40000  36 months    11.98
## 6183  338407     40000       40000           39975  36 months     5.31
## 6196  338808     10600       10600           10600  36 months    21.85
## 6203  338948      5000        5000            5000  36 months    17.47
## 6204  339002      3500        3500            3500  36 months     9.43
## 6207  339034     10000       10000           10000  36 months    18.45
## 6209  339091     16000       16000           16000  36 months    10.90
## 6237  339786      3650        3650            3650  36 months    16.01
## 6247  340281     15000       15000           15000  36 months    18.45
## 6250  340332      7000        7000            7000  36 months     7.34
## 6253  340357      5000        5000            5000  36 months     9.92
## 6289  341358      9600        9600            9600  36 months    14.07
## 6294  341537      2000        2000            2000  36 months     9.43
## 6298  341609      6000        6000            6000  36 months    17.47
## 6307  341695     18000       18000           18000  60 months    28.72
## 6316  341982      5000        5000            5000  36 months     9.43
## 6333  342497     10000       10000           10000  36 months    12.61
## 6352  343143     40000       40000           40000  36 months     7.34
## 6367  343540      8000        8000            8000  36 months    12.61
## 6388  343939     12000       12000           12000  36 months    14.07
## 6396  344125      7000        7000            7000  36 months    11.98
## 6402  344239     16000       16000           16000  60 months    20.39
## 6407  344422     30000       30000           30000  36 months    11.98
## 6410  344493     20000       20000           20000  36 months    17.47
## 6421  344775      1000        1000            1000  36 months    18.45
## 6422  344852      4000        4000            4000  36 months    11.98
## 6435  345257     15000       15000           15000  36 months     9.43
## 6449  345567     10000       10000           10000  36 months     9.43
## 6455  345689     37000       37000           37000  60 months    16.01
## 6456  345692      4800        4800            4800  36 months    21.85
## 6468  346083     35000       35000           35000  36 months    15.04
## 6470  346112     10000       10000           10000  60 months    15.04
## 6477  346349     14000       14000           14000  36 months    13.58
## 6490  346702      6950        6950            6950  36 months    16.01
## 6504  347085     10800       10800           10800  36 months     9.92
## 6505  347132      8000        8000            8000  36 months    14.07
## 6530  347655     21200       21200           21200  36 months    26.77
## 6533  347857     27600       27600           27600  60 months    15.04
## 6560  348601     10000       10000           10000  36 months    10.90
## 6570  348842     27000       27000           27000  60 months    15.04
## 6585  349284     15000       15000           15000  36 months    13.58
## 6599  349641      1200        1200            1200  36 months    11.98
## 6612  350123     30000       30000           30000  60 months    11.98
## 6617  350346     10000       10000           10000  60 months     9.92
## 6628  350690     14000       14000           14000  36 months    11.98
## 6642  351018     18000       18000           18000  36 months    18.45
## 6651  351228     16800       16800           16800  60 months    20.39
## 6653  351269     13000       13000           13000  36 months     7.96
## 6660  351395     10000       10000           10000  60 months    21.85
## 6673  351865     15000       15000           15000  36 months    15.04
## 6675  351915     17000       17000           17000  60 months     9.43
## 6680  352005     31000       31000           31000  60 months    13.58
## 6696  352273      5000        5000            5000  36 months    11.98
## 6712  352649      4800        4800            4800  36 months     7.96
## 6736  353109     12000       12000           12000  60 months    13.58
## 6750  353283      4000        4000            4000  36 months    18.45
## 6782  354284      5000        5000            5000  36 months     7.34
## 6784  354318     14400       14400           14400  36 months    10.90
## 6793  354535     30000       30000           30000  36 months    19.42
## 6815  355059      8000        8000            8000  36 months     7.34
## 6833  355602      6500        6500            6500  36 months    13.58
## 6854  356128     15000       15000           15000  36 months     7.96
## 6855  356139     15500       15500           15500  60 months    19.42
## 6878  356779      2800        2800            2800  36 months    16.01
## 6879  356790     20000       20000           20000  36 months     7.96
## 6884  357001     20000       20000           20000  36 months    10.41
## 6906  357381     10000       10000           10000  36 months     7.96
## 6922  357907      4200        4200            4200  36 months    16.01
## 6936  358211      5000        5000            5000  36 months     9.43
## 6950  358460     35000       35000           35000  36 months     7.96
## 6964  358759      3200        3200            3200  36 months    15.04
```

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## 6984  359217     15000       15000           15000  60 months    26.77
## 6985  359236     24000       24000           24000  60 months    15.04
## 6993  359379     25000       25000           25000  36 months    11.98
## 7000  359516     30000       30000           30000  60 months    15.04
## 7021  359753      6025        6025            6025  36 months    12.61
## 7027  359888      5000        5000            5000  36 months    13.58
## 7034  360001     15000       15000           15000  60 months     7.34
## 7038  360057      5600        5600            5600  36 months    14.07
## 7039  360213     10000       10000           10000  36 months    14.07
## 7043  360326     36000       36000           36000  36 months     7.34
## 7068  360811     12000       12000           12000  60 months    28.72
## 7081  361045     11000       11000           11000  60 months    15.04
## 7095  361372      7800        7800            7800  36 months    14.07
## 7096  361374      9500        9500            9500  36 months    13.58
## 7099  361444     16000       16000           16000  36 months    20.39
## 7111  361880      5000        5000            5000  36 months    10.41
## 7115  361938     10000       10000           10000  36 months     9.43
## 7132  362344     23000       23000           23000  60 months    17.47
## 7133  362383      7000        7000            7000  36 months    14.07
## 7147  362701     15000       15000           15000  36 months     6.71
## 7158  363006      8000        8000            8000  36 months    10.41
## 7167  363285     17525       17525           17525  60 months    21.85
## 7168  363299     12000       12000           12000  36 months    11.98
## 7169  363301     30000       30000           30000  60 months    11.98
## 7188  363895     10000       10000           10000  60 months    15.04
## 7193  363959     15000       15000           15000  36 months     7.34
## 7232  364943      6000        6000            6000  36 months    10.90
## 7237  365087     40000       40000           40000  36 months    10.90
## 7249  365370     30000       30000           30000  36 months     9.92
## 7255  365458      7000        7000            7000  36 months    10.41
## 7262  365556     30000       30000           30000  60 months    14.07
## 7279  366063     10000       10000           10000  36 months     9.92
## 7302  366579     10500       10500           10500  36 months     9.43
## 7310  366905     18150       18150           18150  60 months    11.98
## 7323  367061      8000        8000            8000  36 months    10.41
## 7344  367510     10000       10000           10000  36 months    10.90
## 7353  367755      8000        8000            8000  36 months     7.96
## 7355  367783      4000        4000            4000  36 months    17.47
## 7426  369196     20800       20800           20800  60 months    21.85
## 7445  369643     16000       16000           15750  36 months    10.41
## 7446  369669      5000        5000            5000  36 months    23.87
## 7460  369901     30000       30000           30000  36 months     9.92
## 7465  370034     20000       20000           20000  60 months    14.07
## 7474  370245     25000       25000           24975  60 months     9.43
## 7479  370364     11000       11000           11000  36 months    10.90
## 7485  370459      5000        5000            5000  36 months     6.71
## 7530  371338      3500        3500            3500  36 months    21.85
## 7533  371356     35000       35000           35000  60 months    21.85
## 7538  371478     10000       10000           10000  36 months     7.96
## 7555  371840     25000       25000           25000  60 months    16.01
## 7562  372085      6000        6000            6000  36 months    23.87
## 7564  372183      5000        5000            5000  36 months     6.71
## 7579  372536     40000       40000           40000  60 months     9.92
## 7591  372911      8000        8000            8000  36 months    10.90
## 7594  372954      3000        3000            3000  36 months     7.96
## 7612  373213      6000        6000            6000  36 months    11.98
## 7619  373288     10000       10000           10000  36 months    10.90
## 7621  373298     40000       40000           40000  36 months     9.43
## 7704  375190     12500       12500           12500  36 months    24.84
## 7715  375357     25000       25000           25000  60 months     9.43
## 7737  375871     18000       18000           17975  36 months    15.04
## 7777  376893      4000        4000            4000  36 months    11.98
## 7792  377202     25000       25000           25000  60 months    16.01
## 7794  377268      8500        8500            8500  36 months    10.41
## 7824  377856      6000        6000            6000  36 months    10.41
## 7828  377948      3000        3000            3000  36 months    10.90
## 7833  378093     25000       25000           25000  60 months    11.98
## 7838  378267      3025        3025            3025  36 months    17.47
## 7840  378313      6000        6000            6000  36 months    21.85
## 7882  379165     24000       24000           24000  60 months    10.90
## 7893  379490     16000       16000           16000  60 months     9.92
## 7900  379623     20000       20000           20000  36 months     9.43
## 7910  380014     26000       26000           26000  60 months    14.07
## 7925  380402     15000       15000           15000  60 months    11.98
## 7945  381081     35000       35000           35000  36 months    12.61
## 7963  381364     15000       15000           15000  36 months    11.98
## 7972  381585      8000        8000            8000  36 months    14.07
## 7980  381763     24000       24000           24000  60 months    16.01
## 7985  381868     36000       36000           36000  36 months     9.92
## 8006  382319     20000       20000           20000  36 months    11.98
## 8009  382406     15000       15000           14975  36 months    14.07
## 8024  382913     12000       12000           12000  36 months     9.43
## 8042  383196      4000        4000            4000  36 months    10.90
## 8046  383261      9600        9600            9600  36 months     7.96
## 8047  383266      7200        7200            7200  36 months    13.58
## 8080  383920     10000       10000           10000  60 months    12.61
## 8086  384003     10000       10000           10000  36 months     9.92
## 8111  384702      9000        9000            9000  36 months    13.58
## 8125  385002     25000       25000           25000  60 months    20.39
## 8140  385547     15000       15000           15000  36 months     9.43
## 8148  385691      8000        8000            8000  36 months     9.92
## 8154  385798     17000       17000           17000  60 months    13.58
## 8174  386122     20000       20000           20000  36 months    10.90
## 8192  386481      5000        5000            5000  36 months    13.58
## 8261  388114      9000        9000            9000  36 months    13.58
## 8269  388388     30000       30000           30000  36 months    20.39
## 8275  388544     11000       11000           11000  36 months     9.92
## 8287  388638      3200        3200            3200  36 months    15.04
```

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## 8303  388904     21625       21625           21625  36 months     7.96
## 8304  388938      6000        6000            6000  36 months    10.90
## 8339  389556     14400       14400           14400  60 months    15.04
## 8352  389801     25000       25000           25000  36 months    18.45
## 8370  390129      2400        2400            2400  36 months    12.61
## 8384  390423     22000       22000           22000  60 months    15.04
## 8388  390511     32000       32000           32000  36 months     7.96
## 8400  390742      7200        7200            7200  36 months    13.58
## 8420  391248     16000       16000           16000  36 months    11.98
## 8432  391442     15000       15000           15000  36 months    16.01
## 8439  391586     15000       15000           15000  36 months    18.45
## 8440  391625     30000       30000           30000  60 months    18.45
## 8444  391725      1000        1000            1000  36 months    23.87
## 8455  392018     15000       15000           15000  60 months    12.61
## 8457  392042      4200        4200            4200  36 months    16.01
## 8460  392079      2325        2325            2325  36 months    20.39
## 8466  392179     30000       30000           30000  60 months    24.84
## 8478  392363     15000       15000           15000  60 months    28.72
## 8485  392456     24000       24000           24000  60 months     9.92
## 8494  392693      2400        2400            2400  36 months    16.01
## 8495  392699     15000       15000           15000  36 months    11.98
## 8503  392831      7000        7000            7000  36 months    11.98
## 8520  393171     10000       10000           10000  36 months    14.07
## 8546  393722      5500        5500            5500  36 months     7.34
## 8548  393796     10000       10000           10000  36 months    11.98
## 8562  394063      1000        1000            1000  36 months    14.07
## 8577  394398     23000       23000           23000  60 months    13.58
## 8582  394438      2400        2400            2400  36 months    14.07
## 8584  394470     20000       20000           20000  60 months     7.34
## 8593  394613     25000       25000           25000  60 months    20.39
## 8597  394706     20000       20000           20000  36 months    14.07
## 8601  394785     12000       12000           12000  36 months     6.07
## 8603  394813      4000        4000            4000  36 months    25.81
## 8645  395586     10000       10000           10000  60 months    10.41
## 8659  395841      4800        4800            4800  36 months     9.43
## 8679  396286     22400       22400           22400  36 months    10.41
## 8682  396383      9975        9975            9975  36 months    14.07
## 8691  396525     15000       15000           15000  36 months     6.07
## 8695  396633     13900       13900           13900  36 months    25.81
## 8698  396673      9600        9600            9600  36 months    13.58
## 8725  397129      6300        6300            6300  36 months    10.90
## 8730  397220     16000       16000           15975  36 months    19.42
## 8733  397301      8400        8400            8400  36 months    21.85
## 8734  397369      6000        6000            6000  36 months    18.45
## 8748  397539     10000       10000           10000  60 months    20.39
## 8755  397740      5000        5000            5000  36 months     6.71
## 8774  398047     10000       10000           10000  36 months    20.39
## 8784  398333      3850        3850            3850  36 months    16.01
## 8789  398433      7500        7500            7500  36 months     6.71
## 8799  398652     12000       12000           12000  60 months    21.85
## 8813  398959     30000       30000           30000  60 months    14.07
## 8815  399000      6250        6250            6250  36 months    17.47
## 8827  399267     20000       20000           19975  36 months     6.71
## 8829  399333      7500        7500            7500  36 months    10.90
## 8833  399444      3000        3000            3000  36 months    20.39
## 8836  399517     12500       12500           12500  60 months    14.07
## 8842  399584     40000       40000           40000  60 months    12.61
## 8849  399820      5000        5000            5000  36 months     6.07
## 8863  400076      2000        2000            2000  36 months    10.41
## 8879  400378      4000        4000            4000  36 months     5.31
## 8886  400541     12000       12000           12000  36 months    12.61
## 8889  400635      6000        6000            6000  36 months     9.43
## 8930  401581      2500        2500            2500  36 months    15.04
## 8934  401662      7200        7200            7200  36 months     7.34
## 8936  401707     10000       10000           10000  36 months     6.71
## 8940  401775      8000        8000            8000  36 months    17.47
## 8949  402040      6000        6000            6000  36 months     6.07
## 8952  402062     24000       24000           24000  60 months    13.58
## 8954  402134     10000       10000           10000  36 months    23.87
## 8996  403265      4000        4000            4000  36 months    14.07
## 9028  403751     10000       10000           10000  60 months    12.61
## 9029  403771     15000       15000           15000  36 months    18.45
## 9039  404017     13525       13525           13525  36 months    16.01
## 9043  404149      8000        8000            8000  36 months    13.58
## 9044  404211     25000       25000           25000  60 months    12.61
## 9046  404229      1900        1900            1900  36 months    15.04
## 9062  404485     10000       10000           10000  36 months    10.41
## 9065  404504     12000       12000           12000  60 months    13.58
## 9144  406080      1500        1500            1500  36 months    10.90
## 9172  406782     15000       15000           15000  36 months    10.41
## 9184  407048      1800        1800            1800  36 months     6.07
## 9201  407493      6000        6000            6000  36 months     7.34
## 9213  407626     10000       10000           10000  36 months    10.90
## 9224  407743     11500       11500           11500  60 months    14.07
## 9233  407888     12000       12000           12000  36 months    15.04
## 9239  407946     22500       22500           22500  60 months    18.45
## 9256  408252     10000       10000           10000  60 months    25.81
## 9260  408266      7450        7450            7175  36 months     9.92
## 9272  408515     10000       10000           10000  60 months    17.47
## 9279  408712     19200       19200           19200  36 months    15.04
## 9290  408946     10000       10000           10000  60 months    15.04
## 9302  409296     12000       12000           12000  36 months    10.41
## 9308  409391     14000       14000           14000  60 months    16.01
## 9315  409483     35000       35000           35000  60 months    10.90
## 9320  409538      7000        7000            7000  36 months    14.07
## 9341  409992     16000       16000           16000  36 months    13.58
## 9379  410841     35000       35000           35000  60 months    15.04
## 9400  411082      4000        4000            4000  36 months    15.04
```

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## 9418  411556     27300       27300           27300  60 months    26.77
## 9437  411928     20000       20000           20000  60 months    23.87
## 9477  412878     35000       35000           35000  60 months    12.61
## 9495  413329      6400        6400            6400  36 months    21.85
## 9496  413331      4000        4000            4000  36 months     7.34
## 9505  413515     15000       15000           15000  36 months    10.41
## 9532  413953     16000       16000           16000  36 months    12.61
## 9538  414055     20000       20000           20000  36 months    15.04
## 9583  415067     16000       16000           16000  60 months    18.45
## 9585  415073     10000       10000           10000  36 months    21.85
## 9597  415316     10000       10000           10000  36 months    19.42
## 9608  415558      6000        6000            6000  36 months    21.85
## 9620  415885     10000       10000            9750  36 months    10.90
## 9661  416465     12000       12000           12000  36 months    13.59
## 9687  416983     35000       35000           35000  36 months    12.61
## 9693  417137     15000       15000           15000  60 months    19.42
## 9703  417301     10000       10000           10000  36 months    10.41
## 9709  417402      8000        8000            8000  36 months     7.96
## 9726  417787      1000        1000            1000  36 months    16.01
## 9805  419897     26000       26000           26000  60 months    11.98
## 9806  419941     10000       10000           10000  60 months    14.07
## 9809  419988     28000       28000           28000  36 months    18.45
## 9824  420237      5000        5000            5000  36 months     5.31
## 9826  420263      8000        8000            8000  36 months    20.00
## 9837  420462     10000       10000           10000  36 months     9.43
## 9841  420563     40000       40000           39975  60 months    13.59
## 9844  420646      8000        8000            8000  36 months     7.97
## 9849  420749     20000       20000           19950  36 months     6.71
## 9912  421703     17600       17600           17600  36 months    15.04
## 9925  422055     25000       25000           25000  60 months    16.01
## 9926  422072     11600       11600           11600  36 months     7.34
## 9933  422261     10000       10000           10000  36 months    12.61
## 9937  422393     10000       10000           10000  60 months    14.08
## 9941  422448      6500        6500            6500  36 months     6.07
## 9951  422644     26000       26000           26000  36 months    14.07
## 9960  422936     25000       25000           25000  36 months    14.07
## 9987  423490      7750        7750            7750  36 months    13.58
## 9997  423699     15000       15000           15000  60 months    24.85
## 10003 423825     20000       20000           20000  36 months    14.07
## 10010 423900     17000       17000           17000  60 months    11.98
## 10011 423912     35000       35000           35000  36 months    13.58
## 10047 424614      6000        6000            6000  36 months    15.04
## 10050 424647      8400        8400            8400  36 months    20.39
## 10093 425476     12000       12000           12000  36 months    23.87
## 10104 425625     30000       30000           30000  36 months    18.45
## 10111 425787     25000       25000           25000  36 months    17.47
## 10131 426168     19000       19000           19000  36 months     7.96
## 10137 426354      3000        3000            3000  36 months    20.39
## 10144 426628     11000       11000           11000  36 months     9.43
## 10169 427241     20000       20000           20000  36 months     6.07
## 10172 427414      2000        2000            2000  36 months     9.43
## 10176 427459      4800        4800            4800  36 months    12.61
## 10184 427635     19450       19450           19450  36 months    19.42
## 10202 427900     15000       15000           15000  36 months    11.98
## 10209 428023     24000       24000           24000  60 months    20.00
## 10215 428133     19000       19000           19000  36 months     9.43
## 10242 428775      6000        6000            6000  36 months    16.01
## 10248 428899     18000       18000           18000  60 months    17.09
## 10267 429215      6000        6000            6000  36 months    12.61
## 10275 429477      5000        5000            5000  36 months    13.58
## 10276 429485      3600        3600            3600  36 months     6.71
##       installment grade sub_grade                                emp_title
## 35         326.07     B        B2                       Marketing Manager
## 54         227.43     B        B5                            export agent
## 59         311.35     E        E1                              Inventory
## 60         975.71     C        C4                  Sr Mortgage Underwriter
## 71         331.19     B        B4                            Electrician
## 73         531.45     B        B4                            Inside sales
## 74         331.19     B        B4                      HRIS Administrator
## 90         238.07     D        D2                             Road Driver
## 101         95.14     A        A5                                engineer
## 124        256.87     E        E1                                  Decker
## 137        104.03     C        C3                       warehouse laborer
## 142        267.11     A        A4                          PROGRAM ANALYST
## 143        245.05     A        A1                    IT Support Supervisor
## 160        252.34     E        E2                              Supervisor
## 161        264.96     B        B4                                 Captain
## 165        507.86     D        D4
## 174         93.41     A        A3                     Payroll Specialist
## 192        747.17     D        D2                        Program Analyst
## 193        380.54     A        A5
## 206        288.14     B        B4                          Superintendent
## 212        376.19     D        D4                                 teacher
## 218        583.61     B        B1                                   owner
## 229        134.74     B        B5                                 Teacher
## 232        188.55     A        A4                  Senior Systems Engineer
## 234        178.04     C        C5                       Medical Assistant
## 236         90.35     D        D1                                Security
## 246        806.43     C        C1
## 247         94.28     A        A4                                  driver
## 262        230.24     D        D5                     Direct Care Program
## 285        308.87     A        A2                                    Nurse
## 296        301.68     A        A4                Cable splicing technician
## 302         35.61     C        C5                          Chief Engineer
## 304         38.92     E        E1
## 324        396.75     D        D3                       Logistics Manager
## 326        519.72     D        D3                             ESL Teacher
## 328        357.01     C        C3                    General Superintendent
```

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## 329        306.97     E        E5                      CNC Robotic Welder
## 330        879.02     D        D2                                 Teacher
## 338        613.94     E        E5                           Store manager
## 353        471.37     A        A4                        Project Manager
## 357        292.10     D        D5                   Admin coordinators II
## 361       1232.92     C        C4
## 370        951.35     A        A5
## 377        271.72     C        C1                        Project Manager
## 382        552.55     E        E5                           Bureau Chief
## 410        344.07     C        C2
## 428        215.09     A        A2                             electrician
## 450        203.79     C        C1                                     Cna
## 465         88.07     C        C4                              Bus Driver
## 466        475.68     A        A5                       Assistant Editor
## 471        252.64     B        B5                   LOGISTICS COORDINATOR
## 479        180.69     D        D1                               Conductor
## 485        197.32     B        B3                                   Clerk
## 491        202.23     B        B5                           Asst manager
## 496        324.89     B        B2                                Manager
## 497        423.23     C        C2    HR, Employee Benefits Account Manager
## 499        378.59     A        A5                           Quality Tech.
## 548        520.89     C        C5                      Research Scientist
## 558        274.60     B        B1                       Accounts Manager
## 570        335.65     B        B5                               Supervisor
## 577        286.24     B        B4                                   Clerk
## 579        281.37     A        A4                     DME Billing Manager
## 608        135.52     D        D2
## 626        722.75     D        D1                     Locomotive Engineer
## 634        539.84     D        D4                   SECURITY GUARD OFFICER
## 636        330.00     B        B4     Infrastructure Systems Administrator
## 641        416.45     A        A5
## 658        108.42     D        D1            Customer Relationship Manager
## 660        625.26     A        A4                FVP AND NOTE DEPT MANAGER
## 670         54.21     D        D1                           Teacher/Coach
## 674        344.07     C        C2                       Warehouse manager
## 689        306.98     D        D5                             Chemist III
## 696        531.47     A        A4                                   Sales
## 705        396.00     B        B4                          superintendent
## 713       1151.16     D        D5                                 Foreman
## 752        338.00     D        D5                                 Teacher
## 790        383.72     D        D5                Construction Coordinator
## 799        344.07     C        C2                               Purchasing
## 819        389.86     B        B2                               Management
## 840       1101.01     C        C2         Construction Solutions Executive
## 844        132.00     B        B4
## 845        775.46     E        E1                                       RN
## 855        860.16     C        C2                               accountant
## 866        822.95     C        C2                               Director o
## 869         89.02     C        C5                 Head of Sales, USA West
## 899        234.16     B        B1                          Materials Clerk
## 904        271.36     B        B1                                 Designer
## 917        211.05     D        D5                         Shipping Manager
## 940        649.77     B        B2                                 Director
## 957         46.90     A        A4                          RN case manager
## 960        542.77     B        B5                 Human Resources Director
## 993        151.04     B        B5                                Lean Coach
## 998        522.35     A        A2                       Assistant Principal
## 1025       973.64     D        D5          Hospital staff Registered Nurse
## 1056       105.68     C        C4
## 1063       137.63     C        C2                                 Manager
## 1083       928.08     D        D3                         Delivery driver
## 1105       454.93     D        D3                               Supervisor
## 1117       211.36     C        C4        Dept. Supervisor/Parking Services
## 1118       242.73     C        C3                                 Teacher
## 1146      1024.26     E        E5                               Professor
## 1170       225.72     D        D4                                     Lon
## 1227       247.73     C        C2                 Applications EngineerIII
## 1263       180.69     D        D1                               Journeyman
## 1264       264.50     D        D3
## 1273       469.90     B        B5                   Director of Athletics
## 1285       156.32     A        A4                         Staff Assistant
## 1319       106.66     A        A1
## 1337       187.58     A        A4                                    tech
## 1349       390.79     A        A4                            CDL Operater
## 1351       888.20     D        D1                               jVP of IT
## 1356       259.08     D        D2                                   Nurse
## 1386       154.87     A        A3                          CLAIMS ADJUSTER
## 1388       264.00     B        B4                       SANITATION WORKER
## 1390       460.90     A        A2                        Fitness Director
## 1410       946.48     A        A5                      Assistant Director
## 1416      1261.97     A        A5                          superentendant
## 1434       497.54     B        B5                   Sr.Mechanical Engineer
## 1439        77.84     E        E1                                   Labor
## 1449       880.66     C        C4                    Technician Specialist
## 1459       464.60     A        A3
## 1462       416.11     C        C3
## 1480       297.66     C        C5                    Entertainment Captain
## 1484       178.04     C        C5                               accounting
## 1487       888.20     D        D1                                    Owner
## 1527       198.49     E        E1                                   Driver
## 1529       198.00     B        B4                          Office Manager
## 1530       191.86     D        D5                                      CSR
## 1545      1146.85     B        B3                           Sr IT Analyst
## 1567       201.45     D        D2                     Project coordinator
## 1597       344.06     B        B3        Contract Program Security Officer
## 1601       352.29     B        B4                       Account Executive
## 1623      1261.97     A        A5                            Videographer
## 1633       346.92     D        D1                                Realtor
```

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## 1636      495.00    B       B4                              operator
## 1640      693.51    C       C3                         Vice President
## 1645      264.39    C       C5                       Medical Secretary
## 1650      781.77    D       D2            Video Operations Coordinator
## 1671       46.90    A       A4                            Bank Teller
## 1672      432.49    D       D3
## 1696      281.81    C       C4                            Supervisor
## 1704      307.27    A       A2                       Regional Manager
## 1721      333.82    D       D5                           DA Civilian
## 1724      264.22    B       B4                             Instructor
## 1728      346.76    C       C3                      Penetration Tester
## 1730      537.32    A       A3                       UX Design Manager
## 1734       40.98    E       E5                     Wellness Specialist
## 1752      145.13    A       A5                                 Teacher
## 1771      906.77    D       D2                                   nurse
## 1816      484.58    B       B1                                     CEO
## 1846      343.89    A       A4                      Office Assistant 1
## 1850      157.29    B       B3                        Resource Manager
## 1853      248.05    C       C5                               Vice Pres
## 1856      429.59    B       B2                     PROPERTY MANAGEMENT
## 1857       61.95    A       A3                        Registered Nurse
## 1862      184.61    B       B5                               dept lead
## 1865      277.41    C       C3                           Store Manager
## 1866      464.60    A       A3                    Construction Manager
## 1867      988.08    D       D5                       Software Engineer
## 1896      375.16    A       A4      Manager Security Operations Center
## 1905       84.55    C       C4               Senior Box office manager
## 1907      142.44    C       C5                                  Driver
## 1922      372.07    C       C5                               Conductor
## 1930      330.00    B       B4                             Technician
## 1933      352.27    C       C4                                Designer
## 1952      304.72    A       A1
## 1956      140.91    C       C4             Property Support Specialists
## 1961      748.25    D       D5                Correctional Lieutenant
## 1963      389.86    B       B2                           Account Clerk
## 2004      109.88    D       D2                                 Teacher
## 2012      315.50    A       A5                                   Owner
## 2017      634.43    D       D1           E-6 Petty Officer First Class
## 2019      695.46    D       D5                                   Agent
## 2026      464.60    A       A3                       MRI Technologist
## 2027     1218.88    A       A1                         Vice President
## 2039      294.91    B       B3                          Sales Manager
## 2041      777.23    D       D2                         Plant Engineer
## 2051      212.87    B       B1                                   Clerk
## 2060       52.02    C       C3                    Regulatory specialist
## 2065      335.65    B       B5                       Area Coordinator
## 2073      616.50    B       B4
## 2105      117.48    B       B5                       dental hygienist
## 2117       89.11    A       A2                              IT Analyst
## 2128      187.58    A       A4                    Civil Rights Analyst
## 2129      304.53    D       D1                                 Teacher
## 2136      188.10    D       D4                                 Foremen
## 2137      433.65    D       D1                Accountant/Office Manager
## 2148      104.03    C       C3               Director; Client Executive
## 2155      103.22    C       C2                                 Courier
## 2168      252.40    A       A5         Licensed Professional Counselor
## 2197      309.74    A       A3                       Marketing Manager
## 2215      140.91    C       C4                 Operations Leader - Dsbn
## 2224      352.27    C       C4                                   Owner
## 2234      390.29    D       D1                         Flight Service
## 2255      519.82    B       B2                                     RN
## 2258      805.54    B       B5                   Social Media Director
## 2286       99.00    B       B4         Customer service representative
## 2296      103.38    B       B1                      Interface Engineer
## 2329       38.38    D       D5                       Product Developer
## 2342      180.69    D       D1                                 Trainer
## 2347      973.74    F       F3                  sr. application analyst
## 2357      391.69    C       C5                     Firefighter Engineer
## 2377      107.22    B       B2                       Associate Director
## 2393     1151.16    D       D5                         District Manager
## 2396      973.64    D       D5            Insurance/Business Consulting
## 2399      291.77    E       E2                         Project Manager
## 2405      921.64    C       C1                         forklift driver
## 2420      208.06    C       C3                                   Sales
## 2425      516.10    C       C2
## 2429      268.52    B       B5                              Controller
## 2439      169.09    C       C4                Accounts receivable clerk
## 2447     1006.93    B       B5                           Sales Manager
## 2449       75.24    D       D4                                 Laborer
## 2457      315.50    A       A5
## 2478      268.17    A       A5
## 2480      135.68    B       B1                      Production Manager
## 2492      528.40    C       C4                              Technician
## 2494      617.28    B       B2      Customer Financial Services Manager
## 2504      154.83    C       C2         Manager, Consumer Communications
## 2510      217.80    B       B4                warehouse/delivery driver
## 2514       98.31    B       B3                  Maintenance supervisor
## 2516      534.12    C       C5          Senior Asst Director, Admission
## 2522      585.43    C       C4                     Immigration Officer
## 2529      398.77    C       C3
## 2535      185.62    D       D3                                   Agent
## 2545      252.40    A       A5                       District Manager
## 2549      244.87    B       B2             Program Support Assistant II
## 2593      630.24    E       E1                      Physical Therapist
## 2598      261.81    C       C3                            Truck driver
## 2604       95.86    E       E3                               Professor
## 2628      356.08    C       C5                                 Teacher
## 2631      208.10    B       B5                              Accountant
```

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## 2661      427.30    C        C5                                pastor
## 2673     1320.00    B        B4            Underwriting Support Manager
## 2692      683.00    C        C4                                Driver
## 2707      248.05    C        C5                    Automation Engineer
## 2714      714.02    C        C3                    Account Management
## 2715      681.44    G        G1                             Principal
## 2761      376.21    C        C2                  Contractor/ Technician
## 2772      412.88    C        C2                                     CSR
## 2788      248.05    C        C5                                  Clerk
## 2789      468.52    B        B5                        Project Manager
## 2820      253.78    D        D1                          Staff Analyst
## 2840      433.63    A        A3                        Finance manager
## 2856      747.77    C        C5                      Technical Director
## 2858      390.29    C        C4                Customer Support Manager
## 2861      271.72    C        C1                                  SALES
## 2872      117.97    B        B3                        Registered Nurse
## 2877     1039.63    B        B2                  MRI/CT Division Manager
## 2878      375.16    A        A4
## 2879      646.95    B        B5                    Innovation Consultant
## 2893     1056.79    C        C4                        Finance manager
## 2913       39.60    B        B4                                    heo
## 2915      659.06    A        A1                      Program Specialist
## 2918      220.18    B        B4                  Quality Control Manager
## 2940      238.01    C        C3                          Administrator
## 2942      345.62    C        C1                              Marketing
## 2954      241.67    B        B5                     transit supervison
## 2976      203.79    C        C1           Regional Investment Consultant
## 2977      152.36    A        A1
## 2978      239.99    B        B5                     IT Manager/ERP Admin
## 2982      383.72    D        D5                                 Operator
## 3002      289.49    A        A1                              Lieutenant
## 3012      575.58    D        D5                        Inside Sales Rep
## 3017      112.86    D        D4                             Dock Worker
## 3018      344.07    C        C2                                Sergeant
## 3021      115.64    D        D1                        Machine operator
## 3034      212.59    A        A4                                 Landman
## 3045      509.47    C        C1                          Program Officer
## 3050      534.12    C        C5                                   Owner
## 3057      609.44    A        A1                  Database Administrator
## 3071      376.19    D        D4                           Nurse manager
## 3104      275.26    C        C2                                      Qc
## 3112      886.53    E        E3                           Salon Manager
## 3124      625.26    A        A4                                   Sales
## 3150      407.08    B        B5       Chief Information Security Officer
## 3160      396.87    C        C5                  Telephone maintainer
## 3165      892.96    C        C5                     Management Analyst
## 3172      473.24    A        A5                         Payroll Manager
## 3177      229.37    B        B3          Transportation Security Officer
## 3213      126.20    A        A5                               cleaning
## 3222       63.10    A        A5                      Account Executive
## 3237      264.20    C        C4             Manager - Strategy & Finance
## 3252      233.52    E        E1                           Fraud Analyst
## 3257      262.61    A        A4                         Account manager
## 3258      993.85    D        D4                             Liens agent
## 3265      522.54    B        B3                      Technical Director
## 3276      203.79    C        C1                           Store manager
## 3289      761.32    D        D1                         Chief Of Police
## 3307      297.66    C        C5                                Director
## 3312     1246.28    C        C5            International Vice President
## 3317     1075.43    A        A2                      VP Reimbursement
## 3333      856.98    E        E3                              Estimator
## 3366     1120.88    D        D4            Fire fighter/registered nurse
## 3383      236.07    C        C1          Logistics Management Specialist
## 3419      294.76    C        C5                         First sergeant
## 3421      149.56    C        C5                                  Owner
## 3422      302.88    A        A5                   Operations Supervisor
## 3429      660.00    B        B4                   school administrator
## 3433      332.77    B        B5                            Senior rep
## 3449      528.40    C        C4                  Mental health therapist
## 3458      524.28    B        B3              Business Solutions Manager
## 3467      294.87    B        B4                          Superintedent
## 3471      442.43    D        D3         Sr. Nurse Analyst Medical Review
## 3480      714.16    E        E3                           HUB Supervisor
## 3482      303.51    C        C1                     Chief Flight Nurse
## 3502      554.39    A        A3               Senior Electrical Engineer
## 3504      217.53    D        D3                           patient care
## 3507      104.72    C        C4                           Sales Manager
## 3536      507.82    B        B4                  Technical Specialist II
## 3538      546.78    F        F2
## 3542      410.31    C        C2                         Grounds Foreman
## 3547      205.16    C        C2                       Senior Programmer
## 3553      801.35    D        D4                   Transition Coordinator
## 3567      298.29    E        E4                       Area Sales Manger
## 3590      417.58    C        C5                          Market Manager
## 3607      308.00    A        A3                                  Banker
## 3623      436.55    D        D2                            Receptionist
## 3635      232.57    B        B2
## 3655      250.99    A        A5                                      VP
## 3684      156.87    A        A5                       Machine Operator
## 3687      224.18    D        D4
## 3688      387.67    A        A1                              Supervisor
## 3699      763.95    D        D2                        Practice Manager
## 3701      109.81    A        A5                                 Planner
## 3712      320.54    D        D4                       Medical assistant
## 3730      400.40    A        A3                             Lab Manager
## 3749     1221.71    C        C4                          Branch Manager
## 3756      895.83    D        D2                           Fleet Manager
## 3758      207.45    C        C3                     Health Care Analyst
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## 3771       361.33     A        A1                        Shop Admin Asst
## 3785       462.00     A        A3                             AR Manager
## 3788       621.76     A        A4                             Management
## 3852       170.97     C        C2             Business Development Analyst
## 3857       797.44     C        C1                        Executive Sales
## 3865       654.31     D        D3                      Executive Director
## 3889       512.78     D        D2                               warehouse
## 3892       982.53     C        C5                               Attorney
## 3901       212.31     C        C5                     rural letter carrier
## 3917       424.62     C        C5
## 3924       242.81     C        C1                Mortgage Banker Team Lead
## 3938       260.25     B        B3                   Implementation Advisor
## 3947       315.62     B        B1               TELECOMMUNICATION ENGINEER
## 3949       337.23     C        C1                               Associate
## 3959       266.22     B        B5                        Chef/Supervisor
## 3977       161.51     B        B2         Director of Food Safety & Safety
## 3990       674.46     C        C1                             Bookkeeper
## 4001       137.73     C        C3                          Truck driver
## 4003       484.51     B        B2                        QA LEAD MANAGER
## 4016       878.71     D        D1                       Process Engineer
## 4017       373.63     D        D4                       upper management
## 4021       615.99     A        A3                      Director of Sales
## 4022       333.31     D        D2                                Teacher
## 4026       133.11     B        B5                         VP of WW Sales
## 4036       344.01     B        B4                             Millwright
## 4049       457.63     A        A2                     School Administrator
## 4054       499.15     B        B5                                Mechanic
## 4093       843.08     C        C1
## 4099       316.13     B        B5                                  Driver
## 4104      1205.08     C        C3                            Operations
## 4107       176.97     D        D3                           Mail Carrier
## 4110       341.76     C        C1                             DISPATCHER
## 4122       502.51     D        D3                                 Liasion
## 4128       332.77     B        B5                          Veterinarian
## 4131        96.91     B        B2
## 4133       413.17     C        C3          Psychiatric nurse practitioner
## 4135       212.31     C        C5                        General Manager
## 4151       139.63     C        C4                            2LT officer
## 4153       416.92     B        B1                                Faculty
## 4157       160.36     B        B1                                 Driver
## 4233       212.82     B        B2                               mechanic
## 4237        89.72     D        D1             Regional Sales Administrator
## 4254       314.52     B        B4                          Private Nurse
## 4258        59.79     D        D4          Customer service and sales rep
## 4259       878.71     D        D1                        General Foreman
## 4261       307.88     B        B1                                Teacher
## 4265       430.65     D        D1                   Retail Store Manager
## 4269       117.12     B        B3
## 4297       528.44     D        D1            Lead Installer and Programmer
## 4307       975.93     B        B3                         Sales director
## 4341        64.15     B        B1                           Loan Officer
## 4342       353.85     C        C5                          Social worker
## 4351       227.72     B        B3                      Front office lead
## 4352       150.56     A        A1                          Grocery Clerk
## 4376       106.16     C        C5                     Accounting Techician
## 4395        98.29     B        B4                                Colorist
## 4412       432.60     B        B5                             IT Analyst
## 4414       310.88     A        A4                                Janitor
## 4448       367.00     G        G1                Personal Loan Specialist
## 4466       778.47     C        C5                Central office supervisor
## 4476       341.93     C        C2                          Brand Manager
## 4477       307.73     C        C2             Sr Telecommunication Enginer
## 4498        80.94     C        C1                                 auditor
## 4501       547.08     C        C2                       Banquet Houseman
## 4506       963.68     D        D5                          AP Supervisor
## 4517       251.21     D        D1                        Product Manager
## 4524       179.44     D        D1                  General Mgr/ Consultant
## 4532       385.48     D        D5                              Lead Staff
## 4539       547.08     C        C2                          Administration
## 4552       319.23     B        B2                      Medical Assistant
## 4565       269.79     C        C1                                 Teacher
## 4580       737.38     D        D3                              Instructor
## 4584       393.15     B        B4                        Plant engineer
## 4586       288.58     C        C4                     Training coordinator
## 4611      1292.01     B        B2                      Children's Minister
## 4632       198.31     A        A2                           Blending Tech
## 4682       435.87     D        D2                        Loan Specialist
## 4688       229.34     B        B4                           Technologist
## 4692       327.63     B        B4                        Jr underwriter
## 4712       137.73     C        C3                           Pharmacy tech
## 4743       234.87     A        A1                      Jr. Escrow Officer
## 4758      1292.01     B        B2                        Product Manager
## 4769       922.34     C        C2                              Contractor
## 4774       395.83     C        C2                  Human Resources Manager
## 4775       713.87     D        D4                         Account manager
## 4786        53.96     C        C1                          Administration
## 4791       161.87     C        C1                                 Teacher
## 4792       404.68     C        C1                      Drug Court Advisor
## 4797       911.95     E        E5                      Production Manager
## 4801       275.34     D        D5                                 Manager
## 4816       402.78     E        E5                    Nuclear Medicine Tech
## 4818       327.63     B        B4                           Reg Sales Mgr
## 4832       577.27     B        B1
## 4834       320.71     B        B1                            Section Lead
## 4880       193.29     E        E1                              Technician
## 4921       174.53     C        C4                      Athletic Director
## 4922       704.40     B        B4                                 Manager
## 4934       683.85     C        C2                               scheduler
```

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## 4951       232.84     C        C2                                Manager
## 4958       209.44     C        C4                       Assistant manager
## 4985       192.43     B        B1                   Transmissions Analyst
## 5010       349.06     C        C4                       Aviation mechanic
## 5021       360.39     B        B4                     IT Business Partners
## 5035       315.72     F        F1                     Cook/delivery driver
## 5036       520.50     B        B3
## 5038       859.72     C        C5                                    Mpa
## 5059       390.37     B        B3
## 5060        78.44     A        A5                Traffic Safety Supervisor
## 5070       291.23     D        D1                             Financial
## 5103        39.04     B        B3                            Maintenance
## 5134       683.85     C        C2                             sales rep 2
## 5136       390.37     B        B3                        Project Manager
## 5155       878.71     D        D1                               Attorney
## 5157       843.56     C        C3                              Paralegal
## 5162       161.51     B        B2                              Paramedic
## 5163       627.47     A        A5                                Manager
## 5168       558.50     C        C4                                   cook
## 5169       416.22     C        C4                   Ophthalmic Technician
## 5177       160.36     B        B1                       pharmacist manager
## 5184       654.11     B        B4                         STORE ROOM CLERK
## 5186       178.92     B        B3
## 5218       258.29     B        B3                            Warehouse tec
## 5220       330.41     D        D5
## 5221       163.82     B        B4                                Manager
## 5244       182.51     E        E3                         Packer asocciate
## 5255       798.64     B        B5                 Administrative Assistant
## 5278       258.41     B        B2
## 5295       341.93     C        C2                         Wire technician
## 5317        93.18     B        B5                       Transport Officer
## 5325       425.92     B        B4                        Quality inspector
## 5345       585.33     C        C3                         Scaffold builder
## 5348       256.39     D        D2            Production Assistant/ Utility
## 5354       962.12     B        B1                                Teacher
## 5356       454.74     D        D2                       senior tax manager
## 5358       613.47     C        C4             Business Application Analyst
## 5365       387.61     B        B2
## 5379        85.49     C        C2           Patient account Representative
## 5390       523.45     D        D3                             MANAGER MBR
## 5406      1011.69     C        C1                                Fireman
## 5416       691.54     C        C2                 VP Professional Services
## 5431       186.10     A        A2            Operational Reporting Manager
## 5442       991.89     E        E3                                      RN
## 5467       327.63     B        B4                  Digital Bank Supervisor
## 5494       184.80     A        A3                           Sheriff Deputy
## 5554       466.32     A        A4                                    Owner
## 5556       373.63     D        D4          Senior Administrative Assistant
## 5565       248.71     A        A4                                Teacher
## 5566      1298.41     B        B3                              Executive
## 5568       550.68     D        D5                 SENIOR MARKETING DIRECTOR
## 5574      1282.82     B        B1                     Executive Assistant
## 5597       486.47     C        C5                                 Engineer
## 5621       363.71     G        G1                       Accounting Manager
## 5623       360.84     C        C1                                 Manager
## 5643       853.57     C        C5                               President
## 5664       491.66     D        D5
## 5666       628.31     C        C4                               Bus Driver
## 5720       934.90     D        D4                        Backend Developer
## 5731       644.60     B        B2                               Accountant
## 5733       234.99     E        E2                                Processor
## 5734       128.29     B        B1
## 5749       244.62     C        C2                                       FSA
## 5759       814.94     C        C2                        Bio practice lead
## 5760       440.54     D        D5                         Registered Nurse
## 5784       207.75     B        B3                        Associate Analyst
## 5786        67.45     C        C1                   Certified Medical Asst
## 5794       144.53     A        A1                                 Director
## 5806       269.79     C        C1                             VP & Manager
## 5809       241.73     B        B2                               operations
## 5827      1004.74     E        E4   Director of International Procurement
## 5848       346.85     C        C4                              Bus Operator
## 5849       349.26     C        C2                         Registered nurse
## 5860       478.97     C        C3               Catastrophe Claim Adjuster
## 5874       730.05     E        E4                               CONSULTANT
## 5876       152.46     D        D5          Customer Service Representative
## 5886       281.34     E        E1                           IT Consoltant
## 5923       346.85     C        C4                           letter carrier
## 5948       219.23     A        A5                               Accountant
## 5962       436.55     D        D2                Assistant General Counsel
## 5974       313.39     D        D3                                Programmer
## 6002       281.87     A        A5                         Ins Dept Manager
## 6051       480.01     B        B1                         Electronics Tech
## 6057       261.54     B        B4            Clinical Research Coordinator
## 6083       684.24     C        C3                          RN Case Manager
## 6097       838.71     B        B1             Materials & Planning Analyst
## 6126       307.67     D        D2                             Sheet metal
## 6157       487.26     A        A2                                 Manager
## 6159       332.05     B        B5                             Management
## 6164       351.62     C        C5
## 6165       670.13     C        C1                                    nures
## 6174      1328.20     B        B5      Assistant Manager Digital Marketing
## 6183      1204.42     A        A1                      Nurse practitioner
## 6196       404.00     D        D5                               Supervisor
## 6203       179.44     D        D1                         Contact Attorney
## 6204       112.01     B        B1                 Business systems analyst
## 6207       363.79     D        D2                    Equipment specialist
## 6209       523.07     B        B4                  Special Needs Bus Driver
```

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## 6237      128.35    C       C5                          NCOIC CCQ
## 6247      545.68    D       D2                  Nissan Technician
## 6250      217.23    A       A4                           Driver
## 6253      161.15    B       B2                         Coder II
## 6289      328.44    C       C3                        Fire tech
## 6294       64.01    B       B1              Senior Project Manager
## 6298      215.33    D       D1                       Electrician
## 6307      568.29    F       F1                 UM Nurse Reviewer
## 6316      160.01    B       B1                           Dealer
## 6333      335.07    C       C1                           Driver
## 6352     1241.32    A       A4                         engineer
## 6367      268.06    C       C1                Social Media Manager
## 6388      410.54    C       C3                       Sales Manager
## 6396      232.44    B       B5        Patient Logistics Coordinator
## 6402      427.39    D       D4                 Line Coordinatorr
## 6407      996.15    B       B5                          mechanic
## 6410      717.75    D       D1                   Accounting Clerk
## 6421       36.38    D       D2                            Teacher
## 6422      132.82    B       B5   Assistant Executive Banquet Steward
## 6435      480.01    B       B1                    General Manager
## 6449      320.01    B       B1          Administrative Assistant II
## 6455      899.97    C       C5                         detective
## 6456      182.95    D       D5                            Server
## 6468     1213.98    C       C4             Chief Compliance Officer
## 6470      238.11    C       C4                     Sr. Manager
## 6477      475.64    C       C2            Assistant General Manager
## 6490      244.38    C       C5
## 6504      348.09    B       B2         Mortgage Servicing Specialist
## 6505      273.70    C       C3                 Legal Secretary III
## 6530      862.89    E       E5                          Director
## 6533      657.19    C       C4                   Registered Nurse
## 6560      326.92    B       B4                    Project Manager
## 6570      642.90    C       C4         International Project Manager
## 6585      509.61    C       C2                          Manager
## 6599       39.85    B       B5                              Csr
## 6612      667.04    B       B5                          plumber
## 6617      212.08    B       B2                               RN
## 6628      464.87    B       B5                              Mgr
## 6642      654.82    D       D2      Director Of Business Development
## 6651      448.76    D       D4        Chemistry Technical Supervisor
## 6653      407.14    A       A5               Facilities Team Leader
## 6660      275.34    D       D5               Respiratory Therapist
## 6673      520.28    C       C4                          Manager
## 6675      356.46    B       B1                packaging supervisor
## 6680      714.59    C       C2                             COO
## 6696      166.03    B       B5
## 6712      150.33    A       A5                   Business Analyst
## 6736      276.62    C       C2                  Grinding Engineer
## 6750      145.52    D       D2                          Mechanic
## 6782      155.17    A       A4                   Graphic Designer
## 6784      470.76    B       B4                      HR SPECIALIST
## 6793     1106.07    D       D3                      URBAN PLANNER
## 6815      248.27    A       A4                         Supervisor
## 6833      220.84    C       C2             victim/witness advocate
## 6854      469.77    A       A5                 Business Consultant
## 6855      405.67    D       D3                         therapist
## 6878       98.46    C       C5                 Resolution Analyst
## 6879      626.36    A       A5                  Facility Director
## 6884      649.21    B       B3               INVENTORY CONTROL MGR
## 6906      313.18    A       A5                   Accounts Payable
## 6922      147.69    C       C5               Implementation Manager
## 6936      160.01    B       B1                          QA Manager
## 6950     1096.13    A       A5                 Physician/partner
## 6964      111.00    C       C4                     EVS Supervisor
## 6984      455.98    E       E5                          Manager
## 6985      571.47    C       C4         Inventory Control Supervisor
## 6993      830.12    B       B5
## 7000      714.33    C       C4                          Teacher
## 7021      201.88    C       C1                     Client Manager
## 7027      169.87    C       C2                  Sales Coordinator
## 7034      299.44    A       A4                    Associate Broker
## 7038      191.59    C       C3                  Operations Manager
## 7039      342.12    C       C3                          Supervisor
## 7043     1117.19    A       A4                               CEO
## 7068      378.86    F       F1                  Claims Specialist
## 7081      261.93    C       C4               Ideal service manager
## 7095      266.86    C       C3                          Driver
## 7096      322.76    C       C2                    Claim Manager
## 7099      597.81    D       D4                   Sales Manager
## 7111      162.31    B       B3                  Logistics  Tech
## 7115      320.01    B       B1                         Manager
## 7132      577.44    D       D1               Senior Manager Support
## 7133      239.49    C       C3                 Maintenance mechanic
## 7147      461.18    A       A3                 Director of Finance
## 7158      259.69    B       B3            Maintenance Tech and HVAC
## 7167      482.53    D       D5                              Chef
## 7168      398.46    B       B5                          teacher
## 7169      667.04    B       B5                        Pharmacist
## 7188      238.11    C       C4                               LVN
## 7193      465.50    A       A4                 School Adm Assistant
## 7232      196.15    B       B4                        Supervisor
## 7237     1307.66    B       B4                              ARNP
## 7249      966.89    B       B2                     Vice President
## 7255      227.23    B       B3                               A/P
## 7262      699.14    C       C3      Biologist/Deputy Program Manager
## 7279      322.30    B       B2
## 7302      336.01    B       B1                 Network Administrator
## 7310      403.56    B       B5                               SVP
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## 7323      259.69    B       B3                              Feeders
## 7344      326.92    B       B4                           Collections
## 7353      250.55    A       A5         Senior Strategic Sourcing Agent
## 7355      143.55    D       D1                            Team Lead
## 7426      572.71    D       D5                         Police Officer
## 7445      519.37    B       B3                               Operator
## 7446      195.83    E       E2                         night auditor
## 7460      966.89    B       B2                   Sales account manager
## 7465      466.10    C       C3                 Chief Financial Offocer
## 7474      524.20    B       B1                            cheif mate
## 7479      359.61    B       B4                               teacher
## 7485      153.73    A       A3                              Attorney
## 7530      133.40    D       D5              Customer Service Specialist
## 7533      963.68    D       D5                     Deputy Circuit Clerk
## 7538      313.18    A       A5                                   Emt
## 7555      608.09    C       C5                        Revenue Analyst
## 7562      234.99    E       E2                       Forklift Driver
## 7564      153.73    A       A3                   Process Specialist II
## 7579      848.31    B       B2                    Sales Representative
## 7591      261.54    B       B4                       Senior Deckhand
## 7594       93.96    A       A5                                   SSD
## 7612      199.23    B       B5                   Zone Training Manager
## 7619      326.92    B       B4                                    RN
## 7621     1280.01    B       B1                 Chief Accounting Officer
## 7704      495.95    E       E3                          Team Leader I
## 7715      524.20    B       B1                       VP/Human Resources
## 7737      624.33    C       C4                 Assistant Vice President
## 7777      132.82    B       B5              Senior server technologist
## 7792      608.09    C       C5                         Account Manager
## 7794      275.92    B       B3                       Account Executive
## 7824      194.77    B       B3                  School Resource Officer
## 7828       98.08    B       B4                          Cheese Manager
## 7833      555.86    B       B5                                  Driver
## 7838      108.56    D       D1                           Truck Driver
## 7840      228.68    D       D5                      technical Support
## 7882      520.63    B       B4                       Registered Nurse
## 7893      339.33    B       B2
## 7900      640.01    B       B1                             Marketing
## 7910      605.92    C       C3                    Warehouse supervisor
## 7925      333.52    B       B5  Sr. Director of Sales and Marketing Ops
## 7945     1172.73    C       C1                     Nurse practitioner
## 7963      498.08    B       B5                      Medical Assistant
## 7972      273.70    C       C3                       Registered Nurse
## 7980      583.77    C       C5                                 BANKER
## 7985     1160.27    B       B2                      financial analyst
## 8006      664.10    B       B5                  Court Attorney Referee
## 8009      513.18    C       C3                             Processor
## 8024      384.01    B       B1                      Shift Supervisor
## 8042      130.77    B       B4                         Budget Analyst
## 8046      300.66    A       A5                       Machine Operator
## 8047      244.62    C       C2                         Office Manager
## 8080      225.54    C       C1                               Director
## 8086      322.30    B       B2                                    DTO
## 8111      305.77    C       C2                            PSO Manager
## 8125      667.79    D       D4                                Analyst
## 8140      480.01    B       B1                    Physician Assistant
## 8148      257.84    B       B2
## 8154      391.87    C       C2                             Supervisor
## 8174      653.83    B       B4              Quality Assurance Inspector
## 8192      169.87    C       C2                         Customer Service
## 8261      305.77    C       C2                          Unit Secretary
## 8269     1120.88    D       D4                                Manager
## 8275      354.53    B       B2                      Registered Nurse
## 8287      111.00    C       C4                           QC Inspector
## 8303      677.25    A       A5                                Manager
## 8304      196.15    B       B4                       Nurse Recruiter
## 8339      342.88    C       C4                        Program Analyst
## 8352      909.47    D       D2                                Teacher
## 8370       80.42    C       C1                               Stocking
## 8384      523.85    C       C4                         General manger
## 8388     1002.18    A       A5                            Team Leader
## 8400      244.62    C       C2                      Production Manager
## 8420      531.28    B       B5                         Personal banker
## 8432      527.43    C       C5                            Truck driver
## 8439      545.68    D       D2                      inspector housing
## 8440      769.17    D       D2                       Service manager
## 8444       39.17    E       E2                          Public Safety
## 8455      338.31    C       C1                               Mechanic
## 8457      147.69    C       C5                              manicurist
## 8460       86.87    D       D4                    Executive Assistant
## 8466      877.73    E       E3                    Sales Professsional
## 8478      473.58    F       F1                                 Carman
## 8485      508.99    B       B2                                     GM
## 8494       84.39    C       C5                    Document specialist
## 8495      498.08    B       B5                          Sales Manager
## 8503      232.44    B       B5                               engineer
## 8520      342.12    C       C3                        Lead councillor
## 8546      170.69    A       A4                   Soil conservationist
## 8548      332.05    B       B5                              Collector
## 8562       34.22    C       C3                 Administrative Assistant
## 8577      530.18    C       C2                              Machinist
## 8582       82.11    C       C3                                    lvn
## 8584      399.25    A       A4                           Electrician
## 8593      667.79    D       D4                      Private Duty Nurse
## 8597      684.24    C       C3                              Paralegal
## 8601      365.45    A       A2                             Instructor
## 8603      160.76    E       E4              Accounts Payable Specialist
## 8645      214.50    B       B3                  Client Services Manager
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## 8659      153.61    B       B1                              councelor
## 8679      727.11    B       B3                           Client Manager
## 8682      341.27    C       C3                                    SALES
## 8691      456.81    A       A2                           Senior Auditor
## 8695      558.64    E       E4                       Team Administrator
## 8698      326.16    C       C2                          General Manager
## 8725      205.96    B       B4                               Shift lead
## 8730      589.90    D       D3                      Maintenance Manager
## 8733      320.15    D       D5                                  teacher
## 8734      218.28    D       D2                                Tool tec
## 8748      267.12    D       D4                                 Realtor
## 8755      153.73    A       A3                             Site Manager
## 8774      373.63    D       D4                          Program Manager
## 8784      135.38    C       C5                            FLEET MANAGER
## 8789      230.59    A       A3                                  teacher
## 8799      330.41    D       D5                          Insurance Agent
## 8813      699.14    C       C3                               HR Manager
## 8815      224.30    D       D1                                 reciever
## 8827      614.90    A       A3                              Lead Pastor
## 8829      245.19    B       B4                            Social Worker
## 8833      112.09    D       D4                               Technician
## 8836      291.31    C       C3                                HIM Coder
## 8842      902.16    C       C1              director of dining services
## 8849      152.27    A       A2                          OFFICE MANAGER
## 8863       64.93    B       B3                               Scientist
## 8879      120.45    A       A1                               Registrar
## 8886      402.08    C       C1                        Customer service
## 8889      192.01    B       B1                           Cable Locator
## 8930       86.72    C       C4
## 8934      223.44    A       A4                          Branch manager
## 8936      307.45    A       A3                          Land Technician
## 8940      287.10    D       D1                         Field Technician
## 8949      182.73    A       A2                               Secretary
## 8952      553.23    C       C2                        Elevator Mechanic
## 8954      391.65    E       E2                          Project Manager
## 8996      136.85    C       C3                                Paralegal
## 9028      225.54    C       C1                             Case Manager
## 9029      545.68    D       D2                                    Owner
## 9039      475.57    C       C5            Office Engineering Technician
## 9043      271.80    C       C2                        Registered nurse
## 9044      563.85    C       C1                           Nurse Manager
## 9046       65.91    C       C4                         Benefits Analyst
## 9062      324.61    B       B3                    Agency Records Manager
## 9065      276.62    C       C2                                      RN
## 9144       49.04    B       B4                                     CSR
## 9172      486.91    B       B3                                Engineer
## 9184       54.82    A       A2                              Accounting
## 9201      186.20    A       A4                                 Teacher
## 9213      326.92    B       B4                                   Coach
## 9224      268.01    C       C3                                      RN
## 9233      416.22    C       C4                           Transportation
## 9239      576.88    D       D2                                 Attorney
## 9256      298.29    E       E4                       Operations Manager
## 9260      240.12    B       B2                                Processor
## 9272      251.06    D       D1
## 9279      665.96    C       C4                              Owner/  CTO
## 9290      238.11    C       C4                           Letter carrier
## 9302      389.53    B       B3                                      EMT
## 9308      340.53    C       C5                          Auto Technician
## 9315      759.25    B       B4  Vice President | Small Business Banking
## 9320      239.49    C       C3                                       Rn
## 9341      543.59    C       C2
## 9379      833.39    C       C4                          Case Manager II
## 9400      138.74    C       C4                               Accountant
## 9418      829.87    E       E5                                Physician
## 9437      573.86    E       E2                              Contractor
## 9477      789.39    C       C1                                  USarmy
## 9495      243.93    D       D5                        Intake specialist
## 9496      124.14    A       A4                     Psychotherapist/owner
## 9505      486.91    B       B3                           HR CONSULTANT
## 9532      536.11    C       C1                          Assistant Chief
## 9538      693.70    C       C4                                    Owner
## 9583      410.23    D       D2                             Firefighter
## 9585      381.13    D       D5                                   Driver
## 9597      368.69    D       D3
## 9608      228.68    D       D5                                  Foreman
## 9620      326.92    B       B4                     Irrigation Supervisor
## 9661      407.75    C       C2                            Senior Planner
## 9687     1172.73    C       C1              Business Development Manager
## 9693      392.59    D       D3            Vice President/General Counsel
## 9703      324.61    B       B3                     field foreman piping
## 9709      250.55    A       A5        System Operation and Maintenance
## 9726       35.17    C       C5                   Cable Systems Installer
## 9805      578.10    B       B5                     Systems Administrator
## 9806      233.05    C       C3                                   Cota/L
## 9809     1018.60    D       D2                      Pharmacy technician
## 9824      150.56    A       A1                          Produce Manager
## 9826      297.31    D       D4                      Accounts Payable MGR
## 9837      320.01    B       B1                         Registered Nurse
## 9841      922.25    C       C2                         Registered nurse
## 9844      250.59    A       A5                        Relief Pharmacist
## 9849      614.90    A       A3                     Assistant Chief Deputy
## 9912      610.46    C       C4                         Registered Nurse
## 9925      608.09    C       C5                           Superintendent
## 9926      359.99    A       A4                                  Teacher
## 9933      335.07    C       C1              Precertification specialist
## 9937      233.10    C       C3
## 9941      197.95    A       A2              Computer Network Technician
```

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## 9951       889.51     C        C3                        Director of Sales
## 9960       855.30     C        C3                                       RN
## 9987       263.30     C        C2                                       RN
## 9997       438.96     E        E3                         Utility Porter
## 10003      684.24     C        C3                        Executive Finance
## 10010      377.99     B        B5                                  Manager
## 10011     1189.09     C        C2                       PROGRAMMER ANALYST
## 10047      208.11     C        C4                          Billing & Admin
## 10050      313.85     D        D4                                    Nurse
## 10093      469.98     E        E2                          Product Manager
## 10104     1091.36     D        D2
## 10111      897.18     D        D1                                  Manager
## 10131      595.05     A        A5                Psychiatric Social Worker
## 10137      112.09     D        D4                 Construction technician
## 10144      352.01     B        B1                            Office Manager
## 10169      609.08     A        A2              Advanced Refining Inspector
## 10172       64.01     B        B1                       replenishmemt dept
## 10176      160.84     C        C1 Director of sales and business developme
## 10184      717.10     D        D3                                 Director
## 10202      498.08     B        B5                          Telecom Tech III
## 10209      635.86     D        D4                              Truck driver
## 10215      608.01     B        B1                        Executive Director
## 10242      210.98     C        C5                           Print operator
## 10248      448.22     D        D1
## 10267      201.04     C        C1                          District manager
## 10275      169.87     C        C2                           Banquet Manager
## 10276      110.69     A        A3                        Program Coordinator
##       emp_length home_ownership annual_inc verification_status  issue_d
## 35       2 years           RENT   70000.00     Source Verified Dec-2018
## 54      10+ years       MORTGAGE   45000.00        Not Verified Dec-2018
## 59       4 years       MORTGAGE   71991.00     Source Verified Dec-2018
## 60      10+ years       MORTGAGE   73000.00            Verified Dec-2018
## 71       2 years           RENT  100000.00        Not Verified Dec-2018
## 73       3 years       MORTGAGE   42000.00        Not Verified Dec-2018
## 74       3 years           RENT   32240.00        Not Verified Dec-2018
## 90      10+ years            OWN   95000.00     Source Verified Dec-2018
## 101      5 years       MORTGAGE   72000.00        Not Verified Dec-2018
## 124     < 1 year       MORTGAGE   90000.00     Source Verified Dec-2018
## 137      6 years            OWN   46000.00     Source Verified Dec-2018
## 142     < 1 year       MORTGAGE   75000.00        Not Verified Dec-2018
## 143      7 years       MORTGAGE   99000.00     Source Verified Dec-2018
## 160      6 years           RENT   75000.00        Not Verified Dec-2018
## 161      9 years            OWN   55000.00     Source Verified Dec-2018
## 165     < 1 year           RENT   40000.00        Not Verified Dec-2018
## 174      2 years       MORTGAGE   65000.00        Not Verified Dec-2018
## 192       1 year       MORTGAGE  113000.00            Verified Dec-2018
## 193                    MORTGAGE   90000.00        Not Verified Dec-2018
## 206     10+ years       MORTGAGE   96000.00        Not Verified Dec-2018
## 212     10+ years       MORTGAGE   71000.00     Source Verified Dec-2018
## 218     < 1 year            OWN   40000.00        Not Verified Dec-2018
## 229     10+ years       MORTGAGE  107000.00        Not Verified Dec-2018
## 232     10+ years       MORTGAGE   93000.00        Not Verified Nov-2018
## 234     < 1 year           RENT   36000.00     Source Verified Nov-2018
## 236     10+ years           RENT   35000.00        Not Verified Nov-2018
## 246     < 1 year       MORTGAGE  145000.00        Not Verified Nov-2018
## 247      3 years           RENT   37500.00     Source Verified Nov-2018
## 262     10+ years       MORTGAGE   65000.00     Source Verified Nov-2018
## 285     10+ years            OWN   65000.00        Not Verified Nov-2018
## 296     10+ years       MORTGAGE   82000.00     Source Verified Nov-2018
## 302      9 years           RENT   49000.00        Not Verified Nov-2018
## 304                        RENT   34000.00        Not Verified Nov-2018
## 324     10+ years       MORTGAGE  108000.00     Source Verified Nov-2018
## 326     10+ years           RENT   85000.00        Not Verified Nov-2018
## 328     10+ years       MORTGAGE  138000.00     Source Verified Nov-2018
## 329     10+ years           RENT   70000.00     Source Verified Nov-2018
## 330     10+ years           RENT   65000.00        Not Verified Nov-2018
## 338     < 1 year           RENT   60000.00            Verified Nov-2018
## 353     10+ years       MORTGAGE  120000.00        Not Verified Nov-2018
## 357      2 years       MORTGAGE   49000.00        Not Verified Nov-2018
## 361     < 1 year       MORTGAGE  300000.00     Source Verified Nov-2018
## 370     < 1 year            OWN  180000.00        Not Verified Nov-2018
## 377      5 years       MORTGAGE  113021.00     Source Verified Nov-2018
## 382     10+ years       MORTGAGE  100000.00     Source Verified Nov-2018
## 410                    MORTGAGE   61440.00            Verified Nov-2018
## 428       1 year           RENT   60000.00     Source Verified Nov-2018
## 450      7 years       MORTGAGE   32000.00        Not Verified Nov-2018
## 465     10+ years       MORTGAGE   25000.00            Verified Nov-2018
## 466      9 years           RENT   63000.00     Source Verified Nov-2018
## 471      2 years       MORTGAGE   75000.00     Source Verified Nov-2018
## 479     10+ years       MORTGAGE   80000.00        Not Verified Nov-2018
## 485     10+ years           RENT   36000.00     Source Verified Nov-2018
## 491      8 years           RENT   72000.00            Verified Nov-2018
## 496     10+ years           RENT   69500.00     Source Verified Nov-2018
## 497      5 years       MORTGAGE   75000.00        Not Verified Nov-2018
## 499      8 years       MORTGAGE   53000.00     Source Verified Nov-2018
## 548       1 year       MORTGAGE   52000.00        Not Verified Nov-2018
## 558      2 years           RENT   35200.00     Source Verified Nov-2018
## 570      7 years       MORTGAGE   55000.00     Source Verified Oct-2018
## 577     10+ years           RENT   45000.00        Not Verified Oct-2018
## 579      4 years            OWN   42000.00            Verified Oct-2018
## 608     < 1 year            ANY   95000.00     Source Verified Oct-2018
## 626      8 years       MORTGAGE   73000.00            Verified Oct-2018
## 634      8 years           RENT   62000.00     Source Verified Oct-2018
## 636      6 years           RENT   75000.00        Not Verified Oct-2018
## 641                    MORTGAGE   34400.00        Not Verified Oct-2018
## 658     10+ years       MORTGAGE   86000.00        Not Verified Oct-2018
## 660      3 years            OWN  190000.00            Verified Oct-2018
## 670      4 years           RENT   70150.00        Not Verified Oct-2018
```

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## 674      7 years       MORTGAGE   72000.00        Not Verified Oct-2018
## 689      7 years           RENT   72500.00        Not Verified Oct-2018
## 696      5 years            OWN   73000.00            Verified Oct-2018
## 705      3 years           RENT  105000.00     Source Verified Oct-2018
## 713    10+ years       MORTGAGE   78000.00        Not Verified Oct-2018
## 752    10+ years       MORTGAGE   54000.00        Not Verified Oct-2018
## 790     < 1 year       MORTGAGE  100000.00     Source Verified Oct-2018
## 799      5 years       MORTGAGE   60000.00        Not Verified Oct-2018
## 819      6 years       MORTGAGE  108000.00        Not Verified Oct-2018
## 840      4 years           RENT  140000.00            Verified Oct-2018
## 844                        RENT   55000.00        Not Verified Oct-2018
## 845    10+ years       MORTGAGE   85000.00            Verified Oct-2018
## 855      6 years       MORTGAGE   50000.00        Not Verified Oct-2018
## 866      2 years       MORTGAGE  153000.00            Verified Oct-2018
## 869     < 1 year           RENT  225000.00     Source Verified Oct-2018
## 899      6 years       MORTGAGE   65000.00     Source Verified Oct-2018
## 904      4 years           RENT  110000.00        Not Verified Oct-2018
## 917    10+ years       MORTGAGE   83000.00        Not Verified Oct-2018
## 940      7 years       MORTGAGE   90000.00     Source Verified Oct-2018
## 957      7 years       MORTGAGE   82429.00        Not Verified Oct-2018
## 960      6 years       MORTGAGE   46000.00            Verified Oct-2018
## 993      6 years       MORTGAGE  120000.00        Not Verified Oct-2018
## 998    10+ years           RENT   96000.00        Not Verified Oct-2018
## 1025     3 years       MORTGAGE  102000.00        Not Verified Oct-2018
## 1056    < 1 year       MORTGAGE   46000.00            Verified Sep-2018
## 1063     3 years           RENT   50000.00     Source Verified Sep-2018
## 1083    < 1 year       MORTGAGE   70000.00            Verified Sep-2018
## 1105   10+ years       MORTGAGE   66900.00     Source Verified Sep-2018
## 1117   10+ years            OWN   54000.00     Source Verified Sep-2018
## 1118   10+ years           RENT   32700.00     Source Verified Sep-2018
## 1146   10+ years           RENT  200000.00     Source Verified Sep-2018
## 1170     8 years       MORTGAGE   45000.00            Verified Sep-2018
## 1227   10+ years       MORTGAGE   81848.00        Not Verified Sep-2018
## 1263     3 years       MORTGAGE   73840.00     Source Verified Sep-2018
## 1264                   MORTGAGE   51000.00            Verified Sep-2018
## 1273   10+ years           RENT  120000.00     Source Verified Sep-2018
## 1285   10+ years       MORTGAGE   56000.00        Not Verified Sep-2018
## 1319                   MORTGAGE   60000.00        Not Verified Sep-2018
## 1337   10+ years       MORTGAGE  100000.00     Source Verified Sep-2018
## 1349     5 years       MORTGAGE   90000.00            Verified Sep-2018
## 1351     8 years       MORTGAGE  249000.00     Source Verified Sep-2018
## 1356   10+ years           RENT   48000.00     Source Verified Sep-2018
## 1386     5 years       MORTGAGE   51000.00            Verified Sep-2018
## 1388   10+ years           RENT   77000.00        Not Verified Sep-2018
## 1390   10+ years       MORTGAGE   73000.00     Source Verified Sep-2018
## 1410   10+ years       MORTGAGE  162000.00            Verified Sep-2018
## 1416   10+ years       MORTGAGE  105000.00            Verified Sep-2018
## 1434     3 years           RENT  125000.00     Source Verified Sep-2018
## 1439     2 years           RENT   60000.00        Not Verified Sep-2018
## 1449   10+ years       MORTGAGE  125000.00        Not Verified Sep-2018
## 1459    < 1 year           RENT  100000.00        Not Verified Sep-2018
## 1462                   MORTGAGE   53329.00            Verified Sep-2018
## 1480   10+ years           RENT   68000.00            Verified Sep-2018
## 1484     6 years           RENT   40000.00        Not Verified Sep-2018
## 1487     8 years           RENT   80000.00            Verified Sep-2018
## 1527     4 years           RENT   87500.00        Not Verified Sep-2018
## 1529   10+ years            OWN   60000.00        Not Verified Sep-2018
## 1530      1 year            OWN   35000.00        Not Verified Sep-2018
## 1545     4 years           RENT  150000.00            Verified Sep-2018
## 1567   10+ years       MORTGAGE   90000.00        Not Verified Sep-2018
## 1597     2 years       MORTGAGE   69000.00            Verified Sep-2018
## 1601   10+ years       MORTGAGE   95000.00     Source Verified Sep-2018
## 1623     4 years           RENT  200000.00     Source Verified Aug-2018
## 1633   10+ years       MORTGAGE   80000.00            Verified Aug-2018
## 1636   10+ years       MORTGAGE   80000.00            Verified Aug-2018
## 1640   10+ years           RENT  845394.00            Verified Aug-2018
## 1645     4 years       MORTGAGE   28000.00            Verified Aug-2018
## 1650     6 years       MORTGAGE   38500.00            Verified Aug-2018
## 1671     2 years            OWN   32000.00        Not Verified Aug-2018
## 1672                   MORTGAGE   32000.00            Verified Aug-2018
## 1696   10+ years       MORTGAGE   63000.00     Source Verified Aug-2018
## 1704     6 years           RENT   86000.00        Not Verified Aug-2018
## 1721     4 years       MORTGAGE  130000.00        Not Verified Aug-2018
## 1724   10+ years       MORTGAGE   63552.00        Not Verified Aug-2018
## 1728     3 years           RENT  103000.00        Not Verified Aug-2018
## 1730     4 years       MORTGAGE  128000.00     Source Verified Aug-2018
## 1734     2 years           RENT   78000.00        Not Verified Aug-2018
## 1752     5 years            OWN   60000.00        Not Verified Aug-2018
## 1771   10+ years           RENT   69680.00            Verified Aug-2018
## 1816     3 years           RENT  200000.00     Source Verified Aug-2018
## 1846   10+ years       MORTGAGE   58000.00     Source Verified Aug-2018
## 1850   10+ years       MORTGAGE   55000.00     Source Verified Aug-2018
## 1853     5 years       MORTGAGE   85000.00        Not Verified Aug-2018
## 1856     2 years       MORTGAGE   93000.00        Not Verified Aug-2018
## 1857      1 year       MORTGAGE   60000.00        Not Verified Aug-2018
## 1862     7 years       MORTGAGE   25000.00     Source Verified Aug-2018
## 1865   10+ years            OWN  200000.00        Not Verified Aug-2018
## 1866     3 years       MORTGAGE   80000.00        Not Verified Aug-2018
## 1867     7 years       MORTGAGE  155000.00            Verified Aug-2018
## 1896     6 years           RENT   98000.00     Source Verified Aug-2018
## 1905   10+ years           RENT   65976.00     Source Verified Aug-2018
## 1907     2 years           RENT   45000.00     Source Verified Aug-2018
## 1922   10+ years       MORTGAGE  100000.00        Not Verified Aug-2018
## 1930     5 years           RENT   46000.00            Verified Aug-2018
## 1933     8 years            OWN   95000.00            Verified Aug-2018
## 1952                   MORTGAGE   70000.00        Not Verified Aug-2018
## 1956     2 years           RENT   50000.00            Verified Aug-2018
## 1961   10+ years       MORTGAGE  103000.00     Source Verified Aug-2018
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## 1963     4 years           RENT   46836.00            Verified Aug-2018
## 2004     6 years       MORTGAGE   48000.00     Source Verified Aug-2018
## 2012   10+ years       MORTGAGE  115000.00        Not Verified Aug-2018
## 2017   10+ years           RENT   84700.00        Not Verified Aug-2018
## 2019     8 years       MORTGAGE  116000.00        Not Verified Aug-2018
## 2026     9 years           RENT   70000.00     Source Verified Aug-2018
## 2027   10+ years       MORTGAGE  250000.00        Not Verified Aug-2018
## 2039     5 years       MORTGAGE  120000.00        Not Verified Aug-2018
## 2041     2 years           RENT   70000.00        Not Verified Aug-2018
## 2051   10+ years            OWN   75000.00        Not Verified Aug-2018
## 2060   10+ years       MORTGAGE   81645.00     Source Verified Aug-2018
## 2065   10+ years           RENT   69000.00        Not Verified Aug-2018
## 2073                   MORTGAGE   68685.00            Verified Aug-2018
## 2105   10+ years       MORTGAGE   82000.00     Source Verified Aug-2018
## 2117   10+ years       MORTGAGE   72024.00        Not Verified Aug-2018
## 2128   10+ years       MORTGAGE   95000.00     Source Verified Aug-2018
## 2129     4 years           RENT   46800.00            Verified Aug-2018
## 2136     5 years           RENT   72000.00     Source Verified Aug-2018
## 2137     4 years       MORTGAGE  125000.00     Source Verified Aug-2018
## 2148    < 1 year       MORTGAGE  221000.00     Source Verified Aug-2018
## 2155   10+ years       MORTGAGE   55000.00            Verified Aug-2018
## 2168     5 years       MORTGAGE   52000.00            Verified Aug-2018
## 2197     2 years       MORTGAGE  114579.00        Not Verified Aug-2018
## 2215   10+ years       MORTGAGE  150000.00     Source Verified Aug-2018
## 2224   10+ years       MORTGAGE   39000.00        Not Verified Aug-2018
## 2234   10+ years       MORTGAGE   84689.00        Not Verified Aug-2018
## 2255     2 years       MORTGAGE  117396.00     Source Verified Aug-2018
## 2258     2 years           RENT  110000.00        Not Verified Aug-2018
## 2286    < 1 year       MORTGAGE   42000.00        Not Verified Aug-2018
## 2296     2 years           RENT   60000.00        Not Verified Aug-2018
## 2329     4 years           RENT   31000.00     Source Verified Aug-2018
## 2342    < 1 year           RENT  100000.00            Verified Aug-2018
## 2347     7 years       MORTGAGE  124000.00        Not Verified Aug-2018
## 2357   10+ years       MORTGAGE  175000.00            Verified Aug-2018
## 2377     9 years           RENT   51000.00     Source Verified Aug-2018
## 2393   10+ years       MORTGAGE  205000.00            Verified Aug-2018
## 2396     5 years       MORTGAGE   79000.00            Verified Aug-2018
## 2399      1 year            OWN   59000.00        Not Verified Aug-2018
## 2405   10+ years       MORTGAGE  112000.00            Verified Aug-2018
## 2420     4 years            OWN   39996.00        Not Verified Aug-2018
## 2425                   MORTGAGE   60000.00        Not Verified Aug-2018
## 2429     5 years           RENT   95000.00     Source Verified Aug-2018
## 2439     5 years       MORTGAGE   46000.00     Source Verified Jul-2018
## 2447    < 1 year           RENT  210000.00        Not Verified Aug-2018
## 2449     7 years       MORTGAGE   45000.00     Source Verified Aug-2018
## 2457                   MORTGAGE   44000.00            Verified Jul-2018
## 2478                       RENT   67140.00        Not Verified Jul-2018
## 2480   10+ years       MORTGAGE   72000.00        Not Verified Jul-2018
## 2492   10+ years       MORTGAGE   85000.00            Verified Jul-2018
## 2494    < 1 year       MORTGAGE  100000.00     Source Verified Jul-2018
## 2504   10+ years       MORTGAGE   91000.00     Source Verified Jul-2018
## 2510   10+ years       MORTGAGE   38000.00            Verified Jul-2018
## 2514     6 years           RENT   60000.00        Not Verified Jul-2018
## 2516     6 years           RENT   67958.00     Source Verified Jul-2018
## 2522   10+ years           RENT  150000.00        Not Verified Jul-2018
## 2529                   MORTGAGE   65000.00        Not Verified Jul-2018
## 2535      1 year       MORTGAGE   25000.00     Source Verified Jul-2018
## 2545     3 years            OWN  110000.00        Not Verified Jul-2018
## 2549     9 years       MORTGAGE   48500.00     Source Verified Jul-2018
## 2593     7 years       MORTGAGE   78000.00            Verified Jul-2018
## 2598     6 years            OWN   70000.00            Verified Jul-2018
## 2604      1 year       MORTGAGE  102433.00        Not Verified Jul-2018
## 2628   10+ years       MORTGAGE   75000.00            Verified Jul-2018
## 2631    < 1 year           RENT   58240.00     Source Verified Jul-2018
## 2661   10+ years       MORTGAGE  100000.00     Source Verified Jul-2018
## 2673   10+ years       MORTGAGE  100199.00            Verified Jul-2018
## 2692   10+ years           RENT   96000.00     Source Verified Jul-2018
## 2707   10+ years       MORTGAGE   84996.00     Source Verified Jul-2018
## 2714   10+ years       MORTGAGE  135000.00     Source Verified Jul-2018
## 2715      1 year       MORTGAGE   62500.00            Verified Jul-2018
## 2761     8 years       MORTGAGE   76000.00        Not Verified Jul-2018
## 2772   10+ years       MORTGAGE   55000.00            Verified Jul-2018
## 2788   10+ years            OWN   80000.00            Verified Jul-2018
## 2789     2 years            OWN   75851.00            Verified Jul-2018
## 2820   10+ years       MORTGAGE   90000.00            Verified Jul-2018
## 2840    < 1 year       MORTGAGE  125000.00        Not Verified Jul-2018
## 2856     8 years       MORTGAGE  241000.00     Source Verified Jul-2018
## 2858     2 years           RENT   90000.00     Source Verified Jul-2018
## 2861   10+ years       MORTGAGE   48000.00            Verified Jul-2018
## 2872     2 years           RENT   62000.00     Source Verified Jul-2018
## 2877      1 year       MORTGAGE  135000.00     Source Verified Jul-2018
## 2878                   MORTGAGE   42500.00        Not Verified Jul-2018
## 2879     5 years           RENT   86400.00     Source Verified Jul-2018
## 2893     2 years           RENT  120000.00            Verified Jul-2018
## 2913      1 year           RENT   61000.00     Source Verified Jul-2018
## 2915     9 years       MORTGAGE  105414.00     Source Verified Jul-2018
## 2918     2 years       MORTGAGE   81000.00        Not Verified Jul-2018
## 2940     7 years            OWN  115000.00        Not Verified Jul-2018
## 2942   10+ years            OWN  150000.00        Not Verified Jul-2018
## 2954   10+ years       MORTGAGE   65000.00     Source Verified Jul-2018
## 2976     3 years           RENT   80000.00     Source Verified Jul-2018
## 2977                   MORTGAGE   45990.00        Not Verified Jul-2018
## 2978     4 years       MORTGAGE   79992.00     Source Verified Jul-2018
## 2982   10+ years       MORTGAGE  115000.00     Source Verified Jul-2018
## 3002   10+ years            OWN  125000.00        Not Verified Jul-2018
## 3012     6 years       MORTGAGE   57000.00        Not Verified Jul-2018
## 3017     3 years           RENT   40000.00     Source Verified Jul-2018
## 3018     8 years           RENT   90000.00        Not Verified Jul-2018
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## 3021     9 years       MORTGAGE   50000.00        Not Verified Jul-2018
## 3034   10+ years       MORTGAGE  101000.00        Not Verified Jul-2018
## 3045     2 years           RENT  172500.00        Not Verified Jul-2018
## 3050    < 1 year           RENT   70000.00        Not Verified Jul-2018
## 3057     2 years           RENT  100000.00     Source Verified Jul-2018
## 3071   10+ years       MORTGAGE  120000.00            Verified Jul-2018
## 3104      1 year       MORTGAGE   30000.00     Source Verified Jul-2018
## 3112   10+ years           RENT   52000.00            Verified Jul-2018
## 3124      1 year       MORTGAGE  115000.00     Source Verified Jul-2018
## 3150     3 years       MORTGAGE  170000.00     Source Verified Jul-2018
## 3160     6 years            OWN   84000.00     Source Verified Jul-2018
## 3165   10+ years       MORTGAGE  118572.00            Verified Jul-2018
## 3172    < 1 year            OWN   70000.00     Source Verified Jul-2018
## 3177     2 years       MORTGAGE   70000.00        Not Verified Jul-2018
## 3213     2 years           RENT   40000.00        Not Verified Jul-2018
## 3222     5 years           RENT   65000.00        Not Verified Jul-2018
## 3237     6 years           RENT  103000.00        Not Verified Jul-2018
## 3252     2 years            OWN   40000.00        Not Verified Jul-2018
## 3257     2 years       MORTGAGE  120000.00        Not Verified Jul-2018
## 3258   10+ years           RENT   38257.00            Verified Jul-2018
## 3265   10+ years       MORTGAGE  130000.00        Not Verified Jul-2018
## 3276   10+ years       MORTGAGE  113000.00        Not Verified Jul-2018
## 3289     7 years       MORTGAGE  124000.00            Verified Jul-2018
## 3307      1 year       MORTGAGE  105000.00     Source Verified Jul-2018
## 3312     7 years       MORTGAGE  225000.00     Source Verified Jul-2018
## 3317     7 years       MORTGAGE  150000.00        Not Verified Jul-2018
## 3333   10+ years       MORTGAGE   80000.00            Verified Jul-2018
## 3366   10+ years       MORTGAGE  130000.00            Verified Jul-2018
## 3383     2 years            OWN  121000.00            Verified Jul-2018
## 3419   10+ years            OWN   75000.00            Verified Jul-2018
## 3421    < 1 year       MORTGAGE  125000.00        Not Verified Jul-2018
## 3422   10+ years       MORTGAGE   93000.00        Not Verified Jul-2018
## 3429   10+ years       MORTGAGE  160000.00     Source Verified Jul-2018
## 3433     7 years       MORTGAGE   70000.00            Verified Jul-2018
## 3449     8 years       MORTGAGE   43000.00        Not Verified Jul-2018
## 3458     3 years           RENT  120000.00     Source Verified Jul-2018
## 3467     3 years       MORTGAGE  145000.00        Not Verified Jul-2018
## 3471      1 year           RENT   78600.00        Not Verified Jul-2018
## 3480   10+ years       MORTGAGE   85000.00     Source Verified Jul-2018
## 3482     5 years       MORTGAGE  115000.00     Source Verified Jul-2018
## 3502      1 year            OWN  195000.00        Not Verified Jun-2018
## 3504   10+ years           RENT   36000.00     Source Verified Jun-2018
## 3507     2 years           RENT   75000.00     Source Verified Jun-2018
## 3536   10+ years       MORTGAGE  106000.00        Not Verified Jun-2018
## 3538    < 1 year            ANY   48504.00        Not Verified Jun-2018
## 3542   10+ years       MORTGAGE   55000.00            Verified Jun-2018
## 3547     7 years           RENT  120000.00        Not Verified Jun-2018
## 3553     2 years       MORTGAGE   61000.00        Not Verified Jun-2018
## 3567     5 years       MORTGAGE  102000.00     Source Verified Jun-2018
## 3590    < 1 year       MORTGAGE  100000.00     Source Verified Jun-2018
## 3607   10+ years            OWN   48000.00            Verified Jun-2018
## 3623   10+ years       MORTGAGE   92000.00            Verified Jun-2018
## 3635                       RENT   58000.00        Not Verified Jun-2018
## 3655   10+ years       MORTGAGE   98000.00        Not Verified Jun-2018
## 3684     8 years           RENT   34000.00        Not Verified Jun-2018
## 3687                   MORTGAGE   72846.24            Verified Jun-2018
## 3688     3 years       MORTGAGE   65000.00     Source Verified Jun-2018
## 3699     4 years       MORTGAGE   80000.00            Verified Jun-2018
## 3701     3 years           RENT   52416.00        Not Verified Jun-2018
## 3712   10+ years       MORTGAGE   65000.00            Verified Jun-2018
## 3730      1 year            OWN  112000.00        Not Verified Jun-2018
## 3749   10+ years       MORTGAGE  208000.00            Verified Jun-2018
## 3756     4 years       MORTGAGE   82000.00     Source Verified Jun-2018
## 3758      1 year            OWN   55000.00            Verified Jun-2018
## 3771     3 years           RENT   94000.00        Not Verified Jun-2018
## 3785   10+ years            OWN   75000.00     Source Verified Jun-2018
## 3788   10+ years           RENT   50000.00        Not Verified Jun-2018
## 3852     7 years            OWN   56000.00     Source Verified Jun-2018
## 3857   10+ years            OWN   60000.00            Verified Jun-2018
## 3865     4 years       MORTGAGE  120000.00            Verified Jun-2018
## 3889   10+ years       MORTGAGE   80000.00            Verified Jun-2018
## 3892   10+ years       MORTGAGE  113000.00            Verified Jun-2018
## 3901   10+ years       MORTGAGE   65000.00            Verified Jun-2018
## 3917                        OWN   26000.00        Not Verified Jun-2018
## 3924     3 years           RENT  120000.00        Not Verified Jun-2018
## 3938   10+ years            OWN   88000.00     Source Verified Jun-2018
## 3947     4 years       MORTGAGE   90000.00        Not Verified Jun-2018
## 3949     6 years           RENT   45000.00     Source Verified Jun-2018
## 3959     5 years           RENT   49000.00     Source Verified Jun-2018
## 3977      1 year            OWN  100000.00     Source Verified Jun-2018
## 3990     6 years       MORTGAGE   50000.00     Source Verified Jun-2018
## 4001   10+ years           RENT   67000.00     Source Verified Jun-2018
## 4003    < 1 year       MORTGAGE  120000.00     Source Verified Jun-2018
## 4016      1 year       MORTGAGE   78000.00            Verified Jun-2018
## 4017   10+ years       MORTGAGE  133552.20        Not Verified Jun-2018
## 4021   10+ years       MORTGAGE  287000.00        Not Verified Jun-2018
## 4022   10+ years           RENT   64000.00            Verified Jun-2018
## 4026    < 1 year       MORTGAGE  225000.00     Source Verified Jun-2018
## 4036     4 years           RENT   77200.00     Source Verified Jun-2018
## 4049   10+ years            OWN  205000.00     Source Verified Jun-2018
## 4054   10+ years       MORTGAGE  105000.00     Source Verified Jun-2018
## 4093                   MORTGAGE   55000.00        Not Verified Jun-2018
## 4099   10+ years       MORTGAGE   74000.00     Source Verified Jun-2018
## 4104     3 years       MORTGAGE   55806.04     Source Verified Jun-2018
## 4107     4 years           RENT   41874.00     Source Verified Jun-2018
## 4110     3 years       MORTGAGE   60000.00     Source Verified Jun-2018
## 4122     6 years           RENT   82000.00     Source Verified Jun-2018
## 4128     7 years            OWN  150000.00            Verified Jun-2018
```

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## 4131                 MORTGAGE   53000.00            Verified Jun-2018
## 4133    9 years          RENT   70000.00     Source Verified Jun-2018
## 4135   < 1 year          RENT   30000.00     Source Verified Jun-2018
## 4151    2 years      MORTGAGE   65000.00     Source Verified Jun-2018
## 4153   10+ years     MORTGAGE  110000.00        Not Verified Jun-2018
## 4157    3 years      MORTGAGE   80000.00            Verified Jun-2018
## 4233    5 years      MORTGAGE  111300.00        Not Verified Jun-2018
## 4237     1 year          RENT   29250.00     Source Verified Jun-2018
## 4254   10+ years     MORTGAGE  101400.00        Not Verified Jun-2018
## 4258    2 years           OWN   33000.00            Verified Jun-2018
## 4259   10+ years     MORTGAGE   85000.00            Verified Jun-2018
## 4261   10+ years          RENT   87000.00     Source Verified Jun-2018
## 4265    8 years          RENT   80000.00     Source Verified Jun-2018
## 4269                 MORTGAGE   70000.00        Not Verified Jun-2018
## 4297    3 years      MORTGAGE   72000.00            Verified Jun-2018
## 4307    3 years          RENT  150000.00     Source Verified Jun-2018
## 4341    5 years          RENT  150000.00     Source Verified Jun-2018
## 4342     1 year          RENT   75000.00     Source Verified Jun-2018
## 4351    5 years           OWN   45000.00        Not Verified Jun-2018
## 4352     1 year      MORTGAGE   50000.00        Not Verified Jun-2018
## 4376   10+ years     MORTGAGE   78000.00        Not Verified Jun-2018
## 4395   10+ years          RENT  120000.00        Not Verified Jun-2018
## 4412    9 years      MORTGAGE   97000.00     Source Verified Jun-2018
## 4414    3 years      MORTGAGE   49920.00            Verified Jun-2018
## 4448     1 year      MORTGAGE   42000.00            Verified Jun-2018
## 4466   10+ years     MORTGAGE   90000.00            Verified Jun-2018
## 4476   10+ years          RENT   83500.00        Not Verified Jun-2018
## 4477   10+ years     MORTGAGE   84000.00        Not Verified Jun-2018
## 4498   10+ years     MORTGAGE   65000.00            Verified Jun-2018
## 4501     1 year          RENT   60000.00            Verified Jun-2018
## 4506    4 years      MORTGAGE   77500.00            Verified Jun-2018
## 4517   10+ years     MORTGAGE  112000.00        Not Verified Jun-2018
## 4524    5 years           OWN   75000.00     Source Verified Jun-2018
## 4532     1 year           OWN   21600.00            Verified Jun-2018
## 4539    9 years      MORTGAGE   39000.00     Source Verified Jun-2018
## 4552    3 years      MORTGAGE  105000.00     Source Verified Jun-2018
## 4565   10+ years           OWN   54000.00        Not Verified Jun-2018
## 4580    2 years          RENT   35521.00            Verified Jun-2018
## 4584   10+ years     MORTGAGE   51000.00            Verified Jun-2018
## 4586    9 years      MORTGAGE   90000.00        Not Verified Jun-2018
## 4611   10+ years     MORTGAGE  120000.00     Source Verified Jun-2018
## 4632   10+ years     MORTGAGE   60000.00            Verified Jun-2018
## 4682    7 years      MORTGAGE   43500.00            Verified Jun-2018
## 4688    6 years      MORTGAGE   67000.00        Not Verified Jun-2018
## 4692    2 years          RENT   80000.00        Not Verified Jun-2018
## 4712   10+ years          RENT   37500.00     Source Verified May-2018
## 4743    7 years          RENT  108000.00        Not Verified May-2018
## 4758     1 year          RENT  150000.00     Source Verified May-2018
## 4769    2 years      MORTGAGE   90000.00     Source Verified May-2018
## 4774   10+ years           OWN   72000.00     Source Verified May-2018
## 4775   10+ years     MORTGAGE  105000.00            Verified May-2018
## 4786   < 1 year          RENT   41600.00     Source Verified May-2018
## 4791    2 years      MORTGAGE   41500.00     Source Verified May-2018
## 4792    9 years          RENT   32000.00     Source Verified May-2018
## 4797   10+ years     MORTGAGE   98000.00            Verified May-2018
## 4801    6 years      MORTGAGE   53000.00     Source Verified May-2018
## 4816   10+ years     MORTGAGE   58400.00            Verified May-2018
## 4818    4 years      MORTGAGE   72000.00     Source Verified May-2018
## 4832                     RENT   77460.53        Not Verified Jun-2018
## 4834   10+ years     MORTGAGE  143774.00        Not Verified May-2018
## 4880    2 years      MORTGAGE   50000.00        Not Verified May-2018
## 4921   10+ years     MORTGAGE  130000.00     Source Verified May-2018
## 4922   10+ years     MORTGAGE   71000.00            Verified May-2018
## 4934   10+ years     MORTGAGE   45000.00            Verified May-2018
## 4951   10+ years          RENT   83000.00        Not Verified May-2018
## 4958    6 years          RENT   42000.00     Source Verified May-2018
## 4985   10+ years          RENT   48000.00     Source Verified May-2018
## 5010     1 year      MORTGAGE   50000.00     Source Verified May-2018
## 5021    2 years          RENT   48400.00     Source Verified May-2018
## 5035     1 year      MORTGAGE   46000.00     Source Verified May-2018
## 5036                 MORTGAGE   65000.00            Verified May-2018
## 5038    4 years           OWN   50000.00     Source Verified May-2018
## 5059                     RENT   60000.00        Not Verified May-2018
## 5060   10+ years     MORTGAGE   62500.00     Source Verified May-2018
## 5070    3 years           OWN   50000.00     Source Verified May-2018
## 5103    4 years           OWN   48000.00     Source Verified May-2018
## 5134    5 years      MORTGAGE  120000.00     Source Verified May-2018
## 5136    3 years      MORTGAGE  120000.00     Source Verified May-2018
## 5155   10+ years     MORTGAGE  140000.00            Verified May-2018
## 5157   < 1 year           OWN   58000.00            Verified May-2018
## 5162   10+ years          RENT   86200.00     Source Verified May-2018
## 5163   10+ years     MORTGAGE  202000.00     Source Verified May-2018
## 5168    3 years      MORTGAGE   57000.00     Source Verified May-2018
## 5169    2 years          RENT   58000.00            Verified May-2018
## 5177    2 years          RENT  150000.00        Not Verified May-2018
## 5184   10+ years     MORTGAGE  125000.00     Source Verified May-2018
## 5186                 MORTGAGE   96000.00        Not Verified May-2018
## 5218   10+ years     MORTGAGE   55000.00        Not Verified May-2018
## 5220                 MORTGAGE   63000.00        Not Verified May-2018
## 5221    3 years      MORTGAGE   87000.00     Source Verified May-2018
## 5244    2 years          RENT   23000.00     Source Verified May-2018
## 5255   10+ years          RENT   63000.00     Source Verified May-2018
## 5278                     RENT   57000.00     Source Verified May-2018
## 5295    5 years          RENT   60000.00        Not Verified May-2018
## 5317    8 years      MORTGAGE   38000.00     Source Verified May-2018
## 5325   10+ years     MORTGAGE   35000.00     Source Verified May-2018
## 5345    3 years           OWN   48000.00     Source Verified May-2018
## 5348    7 years      MORTGAGE   80000.00        Not Verified May-2018
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## 5354   10+ years           RENT   52000.00     Source Verified May-2018
## 5356     5 years           RENT  105000.00     Source Verified May-2018
## 5358     2 years       MORTGAGE   71000.00     Source Verified May-2018
## 5365                   MORTGAGE   55556.00            Verified May-2018
## 5379      1 year           RENT   46080.00            Verified May-2018
## 5390     5 years            OWN   70000.00        Not Verified May-2018
## 5406     6 years            OWN  240000.00     Source Verified May-2018
## 5416     2 years       MORTGAGE  220000.00     Source Verified May-2018
## 5431     2 years           RENT  100000.00        Not Verified May-2018
## 5442     6 years           RENT   80000.00     Source Verified May-2018
## 5467     3 years       MORTGAGE   86000.00     Source Verified May-2018
## 5494   10+ years       MORTGAGE   96000.00            Verified May-2018
## 5554     2 years       MORTGAGE   50000.00     Source Verified May-2018
## 5556     8 years           RENT   45000.00     Source Verified May-2018
## 5565     9 years           RENT   58000.00        Not Verified May-2018
## 5566   10+ years       MORTGAGE  138000.00            Verified May-2018
## 5568     5 years           RENT   70000.00     Source Verified May-2018
## 5574   10+ years       MORTGAGE   90000.00     Source Verified May-2018
## 5597   10+ years            OWN   80000.00            Verified May-2018
## 5621     8 years       MORTGAGE   70000.00            Verified May-2018
## 5623     2 years           RENT   75000.00        Not Verified May-2018
## 5643   10+ years           RENT  126545.00        Not Verified May-2018
## 5664                   MORTGAGE   70000.00     Source Verified May-2018
## 5666   10+ years           RENT   48000.00            Verified May-2018
## 5720    < 1 year            OWN   80000.00     Source Verified May-2018
## 5731     6 years            OWN   65000.00        Not Verified May-2018
## 5733     3 years           RENT   42000.00        Not Verified May-2018
## 5734                       RENT   21000.00        Not Verified May-2018
## 5749     5 years       MORTGAGE   37000.00     Source Verified May-2018
## 5759   10+ years            OWN  116000.00     Source Verified May-2018
## 5760     5 years       MORTGAGE   75000.00        Not Verified May-2018
## 5784      1 year           RENT   67000.00        Not Verified May-2018
## 5786      1 year       MORTGAGE   52800.00     Source Verified May-2018
## 5794     3 years           RENT  220000.00     Source Verified May-2018
## 5806   10+ years           RENT  107000.00     Source Verified May-2018
## 5809   10+ years       MORTGAGE   85000.00        Not Verified May-2018
## 5827   10+ years            OWN   57500.00     Source Verified May-2018
## 5848   10+ years       MORTGAGE   65000.00            Verified May-2018
## 5849     6 years       MORTGAGE   75000.00        Not Verified May-2018
## 5860   10+ years       MORTGAGE  130000.00        Not Verified May-2018
## 5874     5 years           RENT  100000.00        Not Verified May-2018
## 5876    < 1 year           RENT   28800.00     Source Verified May-2018
## 5886     6 years       MORTGAGE   78000.00            Verified May-2018
## 5923     4 years            OWN   49000.00     Source Verified May-2018
## 5948     3 years            OWN   80000.00        Not Verified May-2018
## 5962    < 1 year       MORTGAGE  140000.00        Not Verified May-2018
## 5974      1 year           RENT   66500.00        Not Verified May-2018
## 6002   10+ years       MORTGAGE  106000.00     Source Verified May-2018
## 6051     2 years       MORTGAGE   41000.00        Not Verified May-2018
## 6057   10+ years       MORTGAGE   56300.00     Source Verified May-2018
## 6083     9 years            OWN   70000.00            Verified May-2018
## 6097   10+ years       MORTGAGE   95000.00     Source Verified May-2018
## 6126     2 years           RENT   58344.00        Not Verified May-2018
## 6157   10+ years           RENT  115000.00        Not Verified May-2018
## 6159   10+ years       MORTGAGE  127000.00        Not Verified May-2018
## 6164                   MORTGAGE   49584.00     Source Verified May-2018
## 6165   10+ years           RENT   55000.00     Source Verified May-2018
## 6174      1 year            OWN   58000.00     Source Verified May-2018
## 6183     9 years       MORTGAGE  225000.00        Not Verified May-2018
## 6196     8 years       MORTGAGE   60000.00            Verified May-2018
## 6203    < 1 year           RENT   55000.00     Source Verified May-2018
## 6204   10+ years       MORTGAGE   65000.00     Source Verified May-2018
## 6207   10+ years           RENT   72380.00     Source Verified May-2018
## 6209    < 1 year       MORTGAGE   38000.00     Source Verified May-2018
## 6237   10+ years       MORTGAGE   60000.00     Source Verified May-2018
## 6247     8 years       MORTGAGE   60000.00            Verified May-2018
## 6250     6 years       MORTGAGE   70000.00     Source Verified May-2018
## 6253     2 years           RENT   92700.00     Source Verified May-2018
## 6289     3 years           RENT  102000.00        Not Verified May-2018
## 6294   10+ years       MORTGAGE  140000.00        Not Verified May-2018
## 6298   10+ years       MORTGAGE  110000.00     Source Verified May-2018
## 6307     7 years       MORTGAGE   48000.00            Verified May-2018
## 6316   10+ years       MORTGAGE   55000.00     Source Verified May-2018
## 6333      1 year           RENT   40000.00     Source Verified May-2018
## 6352     3 years            OWN   96000.00        Not Verified May-2018
## 6367    < 1 year       MORTGAGE   65000.00     Source Verified May-2018
## 6388     3 years       MORTGAGE  100000.00     Source Verified May-2018
## 6396    < 1 year           RENT   50000.00     Source Verified May-2018
## 6402   10+ years            OWN   88000.00        Not Verified Apr-2018
## 6407   10+ years       MORTGAGE  130000.00            Verified Apr-2018
## 6410     4 years           RENT   27000.00        Not Verified Apr-2018
## 6421     3 years           RENT   65000.00        Not Verified Apr-2018
## 6422     4 years           RENT   48760.00     Source Verified Apr-2018
## 6435     4 years       MORTGAGE  135000.00     Source Verified Apr-2018
## 6449     2 years           RENT   34000.00     Source Verified Apr-2018
## 6455   10+ years            OWN  177000.00            Verified May-2018
## 6456     8 years           RENT   70000.00     Source Verified Apr-2018
## 6468     2 years           RENT  212952.00            Verified Apr-2018
## 6470      1 year       MORTGAGE  120000.00     Source Verified Apr-2018
## 6477    < 1 year           RENT  158000.00        Not Verified Apr-2018
## 6490                        OWN   49000.00        Not Verified May-2018
## 6504   10+ years       MORTGAGE   51000.00     Source Verified Apr-2018
## 6505     7 years       MORTGAGE   89000.00        Not Verified Apr-2018
## 6530     3 years            OWN  175000.00     Source Verified Apr-2018
## 6533     7 years       MORTGAGE   72000.00     Source Verified Apr-2018
## 6560     4 years            OWN  150000.00        Not Verified Apr-2018
## 6570   10+ years       MORTGAGE  110000.00            Verified Apr-2018
## 6585     2 years            OWN   92000.00        Not Verified Apr-2018
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## 6599   10+ years          OWN   40996.00        Not Verified Apr-2018
## 6612   10+ years         RENT   68000.00     Source Verified Apr-2018
## 6617     3 years     MORTGAGE   85000.00        Not Verified Apr-2018
## 6628      1 year         RENT   65000.00        Not Verified Apr-2018
## 6642     6 years         RENT  100100.00        Not Verified Apr-2018
## 6651     2 years     MORTGAGE   84500.00            Verified Apr-2018
## 6653   10+ years     MORTGAGE   97000.00     Source Verified Apr-2018
## 6660   10+ years     MORTGAGE   75000.00            Verified Apr-2018
## 6673     2 years     MORTGAGE   53500.00            Verified Apr-2018
## 6675     3 years         RENT   62000.00        Not Verified Apr-2018
## 6680     2 years     MORTGAGE  255000.00     Source Verified Apr-2018
## 6696                 MORTGAGE   48000.00            Verified Apr-2018
## 6712     2 years         RENT  102000.00        Not Verified Apr-2018
## 6736   10+ years     MORTGAGE   75275.00     Source Verified Apr-2018
## 6750      1 year         RENT   36000.00            Verified Apr-2018
## 6782   10+ years     MORTGAGE   58895.00        Not Verified Apr-2018
## 6784   10+ years     MORTGAGE   88000.00     Source Verified Apr-2018
## 6793   10+ years     MORTGAGE  212000.00     Source Verified Apr-2018
## 6815     7 years     MORTGAGE   60000.00        Not Verified Apr-2018
## 6833   10+ years         RENT   45000.00     Source Verified Apr-2018
## 6854    < 1 year         RENT   65000.00     Source Verified Apr-2018
## 6855     2 years         RENT   70000.00            Verified Apr-2018
## 6878   10+ years          OWN   44000.00            Verified Apr-2018
## 6879    < 1 year         RENT   65000.00        Not Verified Apr-2018
## 6884   10+ years         RENT   85000.00     Source Verified Apr-2018
## 6906   10+ years         RENT   57000.00        Not Verified Apr-2018
## 6922     3 years         RENT   84000.00        Not Verified Apr-2018
## 6936     4 years     MORTGAGE   73000.00     Source Verified Apr-2018
## 6950   10+ years     MORTGAGE  550000.00            Verified Apr-2018
## 6964     4 years         RENT   38000.00        Not Verified Apr-2018
## 6984   10+ years         RENT   80000.00            Verified Apr-2018
## 6985   10+ years     MORTGAGE   68000.00     Source Verified Apr-2018
## 6993                 MORTGAGE   87000.00        Not Verified Apr-2018
## 7000     2 years          OWN   46000.00     Source Verified Apr-2018
## 7021     8 years         RENT   52000.00            Verified Apr-2018
## 7027     3 years         RENT   65000.00     Source Verified Apr-2018
## 7034     3 years     MORTGAGE  137250.00        Not Verified Apr-2018
## 7038   10+ years     MORTGAGE  141000.00        Not Verified Apr-2018
## 7039   10+ years     MORTGAGE   95000.00     Source Verified Apr-2018
## 7043    < 1 year     MORTGAGE  411000.00            Verified Apr-2018
## 7068   10+ years          OWN   70000.00            Verified Apr-2018
## 7081     2 years         RENT   48000.00        Not Verified Apr-2018
## 7095     4 years         RENT  100000.00     Source Verified Apr-2018
## 7096   10+ years     MORTGAGE  115000.00        Not Verified Apr-2018
## 7099      1 year          OWN   62000.00        Not Verified Apr-2018
## 7111     8 years     MORTGAGE   72000.00            Verified Apr-2018
## 7115    < 1 year     MORTGAGE  130000.00        Not Verified Apr-2018
## 7132     4 years     MORTGAGE  105000.00            Verified Apr-2018
## 7133   10+ years     MORTGAGE   68000.00            Verified Apr-2018
## 7147     2 years     MORTGAGE  112000.00        Not Verified Apr-2018
## 7158     3 years     MORTGAGE   49000.00            Verified Apr-2018
## 7167   10+ years     MORTGAGE   75000.00        Not Verified Apr-2018
## 7168   10+ years     MORTGAGE  125000.00     Source Verified Apr-2018
## 7169   10+ years     MORTGAGE  170000.00     Source Verified Apr-2018
## 7188     3 years     MORTGAGE   45000.00     Source Verified Apr-2018
## 7193   10+ years     MORTGAGE   98000.00        Not Verified Apr-2018
## 7232     5 years     MORTGAGE   80000.00     Source Verified Apr-2018
## 7237     5 years         RENT  105000.00            Verified Apr-2018
## 7249   10+ years     MORTGAGE  152000.00     Source Verified Apr-2018
## 7255     3 years     MORTGAGE   41000.00        Not Verified Apr-2018
## 7262     2 years         RENT   70000.00     Source Verified Apr-2018
## 7279                 MORTGAGE   36000.00        Not Verified Apr-2018
## 7302   10+ years     MORTGAGE   68000.00     Source Verified Apr-2018
## 7310   10+ years     MORTGAGE  192000.00        Not Verified Apr-2018
## 7323   10+ years     MORTGAGE  175000.00     Source Verified Apr-2018
## 7344     5 years         RENT   30000.00     Source Verified Apr-2018
## 7353    < 1 year         RENT   81000.00     Source Verified Apr-2018
## 7355      1 year         RENT   80000.00        Not Verified Apr-2018
## 7426     5 years         RENT  100000.00            Verified Apr-2018
## 7445   10+ years          OWN   68000.00     Source Verified Apr-2018
## 7446    < 1 year         RENT   32999.00     Source Verified Apr-2018
## 7460   10+ years     MORTGAGE  120000.00            Verified Apr-2018
## 7465     6 years         RENT  130000.00        Not Verified Apr-2018
## 7474   10+ years     MORTGAGE  100000.00        Not Verified Apr-2018
## 7479   10+ years     MORTGAGE   63000.00     Source Verified Apr-2018
## 7485     6 years     MORTGAGE  120000.00        Not Verified Apr-2018
## 7530     2 years         RENT   47200.00     Source Verified Apr-2018
## 7533   10+ years     MORTGAGE   45000.00            Verified Apr-2018
## 7538     5 years     MORTGAGE  108000.00     Source Verified Apr-2018
## 7555     5 years     MORTGAGE   68361.00            Verified Apr-2018
## 7562     3 years     MORTGAGE   53000.00            Verified Apr-2018
## 7564    < 1 year         RENT  105000.00        Not Verified Apr-2018
## 7579     4 years     MORTGAGE  165000.00     Source Verified Apr-2018
## 7591     3 years         RENT   40000.00     Source Verified Apr-2018
## 7594     7 years         RENT   40000.00     Source Verified Apr-2018
## 7612     4 years     MORTGAGE   60000.00        Not Verified Apr-2018
## 7619      1 year     MORTGAGE   77000.00        Not Verified Apr-2018
## 7621   10+ years     MORTGAGE  380000.00     Source Verified Apr-2018
## 7704   10+ years     MORTGAGE   66000.00            Verified Apr-2018
## 7715      1 year     MORTGAGE  250000.00        Not Verified Apr-2018
## 7737   10+ years     MORTGAGE  130000.00            Verified Apr-2018
## 7777   10+ years     MORTGAGE  125000.00        Not Verified Apr-2018
## 7792     3 years     MORTGAGE  100000.00     Source Verified Apr-2018
## 7794     9 years     MORTGAGE   76000.00     Source Verified Apr-2018
## 7824     9 years     MORTGAGE   74700.00            Verified Apr-2018
## 7828    < 1 year         RENT   37000.00        Not Verified Apr-2018
## 7833     4 years         RENT   75000.00     Source Verified Apr-2018
## 7838     2 years         RENT   73000.00        Not Verified Apr-2018
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## 7840     9 years           RENT   39000.00        Not Verified Apr-2018
## 7882      1 year           RENT   75000.00     Source Verified Apr-2018
## 7893                   MORTGAGE   62700.00        Not Verified Apr-2018
## 7900   10+ years       MORTGAGE   60000.00     Source Verified Apr-2018
## 7910   10+ years       MORTGAGE   55000.00     Source Verified Apr-2018
## 7925     6 years       MORTGAGE  100000.00        Not Verified Apr-2018
## 7945     9 years            OWN   98000.00        Not Verified Apr-2018
## 7963   10+ years            OWN   42000.00        Not Verified Apr-2018
## 7972    < 1 year           RENT   56000.00        Not Verified Apr-2018
## 7980     3 years            OWN   40000.00     Source Verified Apr-2018
## 7985     2 years           RENT   70000.00            Verified Apr-2018
## 8006   10+ years       MORTGAGE  150000.00     Source Verified Apr-2018
## 8009   10+ years       MORTGAGE   65000.00            Verified Apr-2018
## 8024     9 years           RENT   90000.00     Source Verified Apr-2018
## 8042      1 year           RENT   47500.00     Source Verified Apr-2018
## 8046   10+ years            OWN   65000.00        Not Verified Apr-2018
## 8047      1 year       MORTGAGE   57600.00        Not Verified Apr-2018
## 8080   10+ years       MORTGAGE  250000.00            Verified Apr-2018
## 8086     2 years           RENT   75000.00     Source Verified Apr-2018
## 8111     7 years       MORTGAGE  170000.00        Not Verified Apr-2018
## 8125     9 years           RENT   58000.00            Verified Apr-2018
## 8140   10+ years            OWN  105000.00        Not Verified Apr-2018
## 8148                   MORTGAGE   61000.00        Not Verified Apr-2018
## 8154   10+ years       MORTGAGE   60000.00     Source Verified Apr-2018
## 8174   10+ years       MORTGAGE  120677.00            Verified Apr-2018
## 8192    < 1 year           RENT   20000.00     Source Verified Apr-2018
## 8261     2 years       MORTGAGE   40000.00            Verified Mar-2018
## 8269     3 years       MORTGAGE   95000.00     Source Verified Mar-2018
## 8275     6 years       MORTGAGE   75000.00        Not Verified Mar-2018
## 8287   10+ years       MORTGAGE   53000.00            Verified Mar-2018
## 8303   10+ years       MORTGAGE  153500.00     Source Verified Mar-2018
## 8304     6 years       MORTGAGE   78000.00     Source Verified Mar-2018
## 8339      1 year       MORTGAGE  101295.00     Source Verified Mar-2018
## 8352   10+ years       MORTGAGE   91000.00            Verified Mar-2018
## 8370     9 years           RENT   35000.00            Verified Mar-2018
## 8384     5 years           RENT   55000.00        Not Verified Mar-2018
## 8388     5 years       MORTGAGE  136000.00     Source Verified Mar-2018
## 8400     2 years       MORTGAGE   60000.00            Verified Mar-2018
## 8420     5 years           RENT   43000.00        Not Verified Mar-2018
## 8432     2 years           RENT   72000.00     Source Verified Mar-2018
## 8439   10+ years           RENT   65000.00            Verified Mar-2018
## 8440   10+ years            OWN   50000.00     Source Verified Mar-2018
## 8444     3 years           RENT   38520.00     Source Verified Mar-2018
## 8455   10+ years       MORTGAGE   70000.00     Source Verified Mar-2018
## 8457     2 years           RENT   45000.00        Not Verified Mar-2018
## 8460     2 years           RENT   55000.00        Not Verified Mar-2018
## 8466    < 1 year       MORTGAGE  235000.00     Source Verified Mar-2018
## 8478     4 years       MORTGAGE   80000.00     Source Verified Mar-2018
## 8485   10+ years       MORTGAGE  110000.00        Not Verified Mar-2018
## 8494     2 years       MORTGAGE   50000.00     Source Verified Mar-2018
## 8495    < 1 year       MORTGAGE  100000.00        Not Verified Mar-2018
## 8503     2 years       MORTGAGE  100000.00     Source Verified Mar-2018
## 8520     2 years           RENT   41000.00     Source Verified Mar-2018
## 8546     3 years       MORTGAGE   50000.00     Source Verified Mar-2018
## 8548     2 years           RENT   46800.00            Verified Mar-2018
## 8562     5 years           RENT   60000.00     Source Verified Mar-2018
## 8577   10+ years       MORTGAGE   43000.00            Verified Mar-2018
## 8582     8 years            OWN   80000.00            Verified Mar-2018
## 8584     6 years       MORTGAGE   65800.00     Source Verified Mar-2018
## 8593   10+ years            OWN   63000.00        Not Verified Mar-2018
## 8597      1 year       MORTGAGE   65000.00        Not Verified Mar-2018
## 8601     6 years           RENT   39700.00     Source Verified Mar-2018
## 8603     3 years            OWN   37000.00        Not Verified Mar-2018
## 8645     2 years           RENT   60000.00        Not Verified Mar-2018
## 8659   10+ years       MORTGAGE   62000.00     Source Verified Mar-2018
## 8679     6 years       MORTGAGE  161400.00     Source Verified Mar-2018
## 8682     9 years       MORTGAGE   65000.00     Source Verified Mar-2018
## 8691     9 years           RENT   97000.00     Source Verified Mar-2018
## 8695     3 years           RENT   38500.00        Not Verified Mar-2018
## 8698   10+ years           RENT   55600.00            Verified Mar-2018
## 8725     5 years       MORTGAGE   33000.00            Verified Mar-2018
## 8730     2 years       MORTGAGE   95500.00            Verified Mar-2018
## 8733   10+ years       MORTGAGE   70000.00     Source Verified Mar-2018
## 8734     7 years       MORTGAGE   39000.00     Source Verified Mar-2018
## 8748   10+ years           RENT   75000.00     Source Verified Mar-2018
## 8755     7 years            OWN   45000.00        Not Verified Mar-2018
## 8774     3 years           RENT  100000.00        Not Verified Mar-2018
## 8784     4 years           RENT   70000.00     Source Verified Mar-2018
## 8789   10+ years       MORTGAGE   75000.00     Source Verified Mar-2018
## 8799   10+ years           RENT   61116.00        Not Verified Mar-2018
## 8813      1 year       MORTGAGE   90000.00     Source Verified Mar-2018
## 8815     9 years       MORTGAGE   67000.00     Source Verified Mar-2018
## 8827   10+ years       MORTGAGE  120000.00        Not Verified Mar-2018
## 8829     3 years           RENT   60000.00        Not Verified Mar-2018
## 8833     2 years           RENT   40000.00     Source Verified Mar-2018
## 8836     6 years       MORTGAGE   61000.00        Not Verified Mar-2018
## 8842     4 years            OWN  147000.00     Source Verified Mar-2018
## 8849     6 years       MORTGAGE   55000.00            Verified Mar-2018
## 8863     5 years       MORTGAGE  100000.00            Verified Mar-2018
## 8879     2 years       MORTGAGE   71500.00        Not Verified Mar-2018
## 8886   10+ years       MORTGAGE   63600.00     Source Verified Mar-2018
## 8889   10+ years            OWN   75000.00     Source Verified Mar-2018
## 8930                        OWN   13584.00            Verified Mar-2018
## 8934   10+ years            OWN  180000.00        Not Verified Mar-2018
## 8936     5 years       MORTGAGE   65000.00        Not Verified Mar-2018
## 8940    < 1 year            OWN   45000.00            Verified Mar-2018
## 8949   10+ years       MORTGAGE   52000.00        Not Verified Mar-2018
## 8952   10+ years       MORTGAGE  144000.00            Verified Mar-2018
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## 8954   10+ years       MORTGAGE  131713.00     Source Verified Mar-2018
## 8996     6 years            OWN   85000.00     Source Verified Mar-2018
## 9028     4 years       MORTGAGE   35000.00            Verified Mar-2018
## 9029   10+ years           RENT   32000.00        Not Verified Mar-2018
## 9039     9 years           RENT   80000.00            Verified Mar-2018
## 9043     6 years       MORTGAGE   80000.00        Not Verified Mar-2018
## 9044   10+ years       MORTGAGE  120000.00        Not Verified Mar-2018
## 9046     2 years       MORTGAGE   55000.00        Not Verified Mar-2018
## 9062   10+ years       MORTGAGE  155000.00        Not Verified Mar-2018
## 9065   10+ years       MORTGAGE   99000.00            Verified Mar-2018
## 9144      1 year           RENT   42000.00        Not Verified Mar-2018
## 9172     5 years       MORTGAGE  101000.00            Verified Mar-2018
## 9184   10+ years            OWN   75000.00     Source Verified Mar-2018
## 9201     4 years           RENT   48000.00        Not Verified Mar-2018
## 9213   10+ years            OWN   44000.00        Not Verified Mar-2018
## 9224     3 years           RENT   87000.00        Not Verified Mar-2018
## 9233      1 year       MORTGAGE   72000.00     Source Verified Mar-2018
## 9239     3 years       MORTGAGE  150000.00            Verified Mar-2018
## 9256   10+ years       MORTGAGE   92000.00            Verified Mar-2018
## 9260      1 year            OWN   23000.00     Source Verified Mar-2018
## 9272                    MORTGAGE   72000.00        Not Verified Mar-2018
## 9279   10+ years       MORTGAGE   90000.00            Verified Mar-2018
## 9290   10+ years           RENT   70000.00     Source Verified Mar-2018
## 9302   10+ years       MORTGAGE   42000.00        Not Verified Mar-2018
## 9308   10+ years       MORTGAGE   66000.00        Not Verified Mar-2018
## 9315     6 years       MORTGAGE  230000.00        Not Verified Mar-2018
## 9320     7 years           RENT   68000.00        Not Verified Mar-2018
## 9341                    MORTGAGE   86000.00        Not Verified Mar-2018
## 9379   10+ years           RENT   71125.00            Verified Mar-2018
## 9400     4 years       MORTGAGE   78000.00        Not Verified Mar-2018
## 9418   10+ years       MORTGAGE  185000.00        Not Verified Mar-2018
## 9437     5 years       MORTGAGE   40000.00            Verified Mar-2018
## 9477   10+ years           RENT   70000.00     Source Verified Mar-2018
## 9495    < 1 year           RENT   43000.00        Not Verified Mar-2018
## 9496     8 years            OWN  117000.00        Not Verified Mar-2018
## 9505     2 years       MORTGAGE   70000.00     Source Verified Mar-2018
## 9532   10+ years       MORTGAGE   61000.00        Not Verified Mar-2018
## 9538     2 years           RENT  150000.00     Source Verified Mar-2018
## 9583   10+ years           RENT   84000.00     Source Verified Mar-2018
## 9585     3 years       MORTGAGE   63932.00            Verified Mar-2018
## 9597                         OWN   33300.00            Verified Mar-2018
## 9608     2 years       MORTGAGE   70000.00     Source Verified Mar-2018
## 9620     2 years           RENT   75000.00        Not Verified Mar-2018
## 9661     2 years           RENT   61000.00     Source Verified Mar-2018
## 9687   10+ years       MORTGAGE  122000.00            Verified Mar-2018
## 9693   10+ years            OWN  180000.00            Verified Mar-2018
## 9703   10+ years       MORTGAGE  125000.00     Source Verified Mar-2018
## 9709   10+ years       MORTGAGE   47736.00     Source Verified Mar-2018
## 9726   10+ years           RENT   50000.00        Not Verified Mar-2018
## 9805     2 years           RENT   54000.00        Not Verified Mar-2018
## 9806     3 years            OWN   41000.00     Source Verified Mar-2018
## 9809   10+ years            OWN  124000.00     Source Verified Mar-2018
## 9824     5 years       MORTGAGE   49000.00     Source Verified Mar-2018
## 9826      1 year       MORTGAGE   52000.00            Verified Mar-2018
## 9837     4 years           RENT   90000.00        Not Verified Mar-2018
## 9841   10+ years           RENT   83000.00            Verified Mar-2018
## 9844      1 year       MORTGAGE  111500.00     Source Verified Mar-2018
## 9849   10+ years       MORTGAGE  125500.00        Not Verified Mar-2018
## 9912     9 years       MORTGAGE   70000.00        Not Verified Mar-2018
## 9925     3 years       MORTGAGE   82000.00            Verified Mar-2018
## 9926    < 1 year       MORTGAGE   52000.00        Not Verified Mar-2018
## 9933     5 years       MORTGAGE   80000.00     Source Verified Mar-2018
## 9937                        RENT   49950.00            Verified Mar-2018
## 9941     2 years       MORTGAGE   43500.00        Not Verified Mar-2018
## 9951     2 years           RENT  175000.00            Verified Mar-2018
## 9960     5 years       MORTGAGE  175000.00     Source Verified Mar-2018
## 9987   10+ years       MORTGAGE  149000.00            Verified Mar-2018
## 9997     7 years            OWN   56000.00     Source Verified Mar-2018
## 10003  10+ years            OWN   82000.00        Not Verified Mar-2018
## 10010    4 years       MORTGAGE   65000.00     Source Verified Mar-2018
## 10011    5 years       MORTGAGE  100000.00     Source Verified Mar-2018
## 10047  10+ years            OWN   50000.00        Not Verified Mar-2018
## 10050  10+ years       MORTGAGE  130000.00        Not Verified Mar-2018
## 10093    2 years           RENT   88000.00            Verified Mar-2018
## 10104                        OWN   56044.00            Verified Feb-2018
## 10111    6 years       MORTGAGE   80000.00        Not Verified Feb-2018
## 10131     1 year           RENT   87000.00        Not Verified Mar-2018
## 10137  10+ years           RENT   85000.00        Not Verified Feb-2018
## 10144    5 years       MORTGAGE  112000.00     Source Verified Mar-2018
## 10169    5 years       MORTGAGE  115000.00        Not Verified Feb-2018
## 10172    3 years           RENT   18000.00        Not Verified Feb-2018
## 10176    5 years       MORTGAGE  125000.00            Verified Feb-2018
## 10184    3 years       MORTGAGE  170000.00     Source Verified Feb-2018
## 10202  10+ years       MORTGAGE   80000.00     Source Verified Feb-2018
## 10209    3 years           RENT   78000.00            Verified Feb-2018
## 10215    4 years       MORTGAGE  122000.00        Not Verified Feb-2018
## 10242    3 years       MORTGAGE   32000.00        Not Verified Feb-2018
## 10248                        OWN   65000.00            Verified Mar-2018
## 10267    4 years       MORTGAGE   55000.00     Source Verified Feb-2018
## 10275  10+ years       MORTGAGE   52000.00     Source Verified Feb-2018
## 10276  10+ years           RENT   72000.00        Not Verified Feb-2018
##       loan_status pymnt_plan desc             purpose                   title
## 35     Fully Paid          n                  moving   Moving and relocation
## 54     Fully Paid          n        home_improvement        Home improvement
## 59     Fully Paid          n      debt_consolidation      Debt consolidation
## 60     Fully Paid          n             credit_card Credit card refinancing
## 71     Fully Paid          n                   other                   Other
## 73     Fully Paid          n                     car           Car financing
```

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## 74     Fully Paid          n      debt_consolidation      Debt consolidation
## 90     Fully Paid          n      debt_consolidation      Debt consolidation
## 101    Fully Paid          n        home_improvement        Home improvement
## 124    Fully Paid          n        home_improvement        Home improvement
## 137    Fully Paid          n      debt_consolidation      Debt consolidation
## 142    Fully Paid          n                   other                   Other
## 143    Fully Paid          n      debt_consolidation      Debt consolidation
## 160    Fully Paid          n      debt_consolidation      Debt consolidation
## 161    Fully Paid          n      debt_consolidation      Debt consolidation
## 165    Fully Paid          n      debt_consolidation      Debt consolidation
## 174    Fully Paid          n      debt_consolidation      Debt consolidation
## 192    Fully Paid          n      debt_consolidation      Debt consolidation
## 193    Fully Paid          n      debt_consolidation      Debt consolidation
## 206    Fully Paid          n      debt_consolidation      Debt consolidation
## 212    Fully Paid          n                 medical        Medical expenses
## 218    Fully Paid          n          small_business                Business
## 229    Fully Paid          n             credit_card Credit card refinancing
## 232    Fully Paid          n        home_improvement        Home improvement
## 234    Fully Paid          n                   other                   Other
## 236    Fully Paid          n             credit_card Credit card refinancing
## 246    Fully Paid          n      debt_consolidation      Debt consolidation
## 247    Fully Paid          n      debt_consolidation      Debt consolidation
## 262    Fully Paid          n      debt_consolidation      Debt consolidation
## 285    Fully Paid          n             credit_card Credit card refinancing
## 296    Fully Paid          n             credit_card Credit card refinancing
## 302    Fully Paid          n                   other                   Other
## 304    Fully Paid          n      debt_consolidation      Debt consolidation
## 324    Fully Paid          n          small_business                Business
## 326    Fully Paid          n      debt_consolidation      Debt consolidation
## 328    Fully Paid          n                   other                   Other
## 329   Charged Off          n      debt_consolidation      Debt consolidation
## 330    Fully Paid          n      debt_consolidation      Debt consolidation
## 338    Fully Paid          n      debt_consolidation      Debt consolidation
## 353    Fully Paid          n      debt_consolidation      Debt consolidation
## 357    Fully Paid          n        home_improvement        Home improvement
## 361   Charged Off          n                   other                   Other
## 370    Fully Paid          n      debt_consolidation      Debt consolidation
## 377    Fully Paid          n      debt_consolidation      Debt consolidation
## 382    Fully Paid          n      debt_consolidation      Debt consolidation
## 410    Fully Paid          n      debt_consolidation      Debt consolidation
## 428    Fully Paid          n                     car           Car financing
## 450    Fully Paid          n                   other                   Other
## 465    Fully Paid          n      debt_consolidation      Debt consolidation
## 466    Fully Paid          n      debt_consolidation      Debt consolidation
## 471    Fully Paid          n             credit_card Credit card refinancing
## 479    Fully Paid          n                   house             Home buying
## 485    Fully Paid          n      debt_consolidation      Debt consolidation
## 491    Fully Paid          n      debt_consolidation      Debt consolidation
## 496    Fully Paid          n      debt_consolidation      Debt consolidation
## 497    Fully Paid          n      debt_consolidation      Debt consolidation
## 499    Fully Paid          n             credit_card Credit card refinancing
## 548    Fully Paid          n      debt_consolidation      Debt consolidation
## 558    Fully Paid          n      debt_consolidation      Debt consolidation
## 570    Fully Paid          n             credit_card Credit card refinancing
## 577    Fully Paid          n             credit_card Credit card refinancing
## 579    Fully Paid          n        home_improvement        Home improvement
## 608    Fully Paid          n                     car           Car financing
## 626    Fully Paid          n      debt_consolidation      Debt consolidation
## 634    Fully Paid          n      debt_consolidation      Debt consolidation
## 636    Fully Paid          n      debt_consolidation      Debt consolidation
## 641    Fully Paid          n      debt_consolidation      Debt consolidation
## 658    Fully Paid          n                     car           Car financing
## 660    Fully Paid          n             credit_card Credit card refinancing
## 670    Fully Paid          n                   other                   Other
## 674    Fully Paid          n      debt_consolidation      Debt consolidation
## 689    Fully Paid          n      debt_consolidation      Debt consolidation
## 696    Fully Paid          n      debt_consolidation      Debt consolidation
## 705    Fully Paid          n             credit_card Credit card refinancing
## 713    Fully Paid          n      debt_consolidation      Debt consolidation
## 752    Fully Paid          n      debt_consolidation      Debt consolidation
## 790    Fully Paid          n             credit_card Credit card refinancing
## 799    Fully Paid          n      debt_consolidation      Debt consolidation
## 819    Fully Paid          n      debt_consolidation      Debt consolidation
## 840    Fully Paid          n             credit_card Credit card refinancing
## 844    Fully Paid          n      debt_consolidation      Debt consolidation
## 845    Fully Paid          n             credit_card Credit card refinancing
## 855    Fully Paid          n             credit_card Credit card refinancing
## 866    Fully Paid          n      debt_consolidation      Debt consolidation
## 869    Fully Paid          n          small_business                Business
## 899    Fully Paid          n             credit_card Credit card refinancing
## 904    Fully Paid          n      debt_consolidation      Debt consolidation
## 917    Fully Paid          n      debt_consolidation      Debt consolidation
## 940    Fully Paid          n      debt_consolidation      Debt consolidation
## 957    Fully Paid          n             credit_card Credit card refinancing
## 960    Fully Paid          n        home_improvement        Home improvement
## 993    Fully Paid          n                   other                   Other
## 998    Fully Paid          n      debt_consolidation      Debt consolidation
## 1025   Fully Paid          n      debt_consolidation      Debt consolidation
## 1056   Fully Paid          n      debt_consolidation      Debt consolidation
## 1063   Fully Paid          n      debt_consolidation      Debt consolidation
## 1083   Fully Paid          n      debt_consolidation      Debt consolidation
## 1105   Fully Paid          n      debt_consolidation      Debt consolidation
## 1117   Fully Paid          n      debt_consolidation      Debt consolidation
## 1118   Fully Paid          n      debt_consolidation      Debt consolidation
## 1146   Fully Paid          n      debt_consolidation      Debt consolidation
## 1170   Fully Paid          n                   other                   Other
## 1227   Fully Paid          n      debt_consolidation      Debt consolidation
## 1263   Fully Paid          n      debt_consolidation      Debt consolidation
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## 1264   Fully Paid          n      debt_consolidation      Debt consolidation
## 1273   Fully Paid          n      debt_consolidation      Debt consolidation
## 1285   Fully Paid          n      debt_consolidation      Debt consolidation
## 1319   Fully Paid          n        home_improvement        Home improvement
## 1337   Fully Paid          n                   other                   Other
## 1349   Fully Paid          n      debt_consolidation      Debt consolidation
## 1351   Fully Paid          n      debt_consolidation      Debt consolidation
## 1356   Fully Paid          n      debt_consolidation      Debt consolidation
## 1386   Fully Paid          n      debt_consolidation      Debt consolidation
## 1388   Fully Paid          n                vacation                Vacation
## 1390   Fully Paid          n      debt_consolidation      Debt consolidation
## 1410   Fully Paid          n      debt_consolidation      Debt consolidation
## 1416   Fully Paid          n      debt_consolidation      Debt consolidation
## 1434   Fully Paid          n      debt_consolidation      Debt consolidation
## 1439   Fully Paid          n      debt_consolidation      Debt consolidation
## 1449   Fully Paid          n                     car           Car financing
## 1459   Fully Paid          n      debt_consolidation      Debt consolidation
## 1462   Fully Paid          n             credit_card Credit card refinancing
## 1480   Fully Paid          n      debt_consolidation      Debt consolidation
## 1484   Fully Paid          n      debt_consolidation      Debt consolidation
## 1487   Fully Paid          n      debt_consolidation      Debt consolidation
## 1527   Fully Paid          n        home_improvement        Home improvement
## 1529   Fully Paid          n      debt_consolidation      Debt consolidation
## 1530   Fully Paid          n          major_purchase          Major purchase
## 1545   Fully Paid          n        home_improvement        Home improvement
## 1567   Fully Paid          n      debt_consolidation      Debt consolidation
## 1597   Fully Paid          n             credit_card Credit card refinancing
## 1601   Fully Paid          n      debt_consolidation      Debt consolidation
## 1623   Fully Paid          n                   other                   Other
## 1633  Charged Off          n             credit_card Credit card refinancing
## 1636   Fully Paid          n      debt_consolidation      Debt consolidation
## 1640   Fully Paid          n      debt_consolidation      Debt consolidation
## 1645   Fully Paid          n             credit_card Credit card refinancing
## 1650   Fully Paid          n        home_improvement        Home improvement
## 1671   Fully Paid          n                   other                   Other
## 1672   Fully Paid          n             credit_card Credit card refinancing
## 1696  Charged Off          n      debt_consolidation      Debt consolidation
## 1704   Fully Paid          n             credit_card Credit card refinancing
## 1721   Fully Paid          n      debt_consolidation      Debt consolidation
## 1724   Fully Paid          n             credit_card Credit card refinancing
## 1728   Fully Paid          n      debt_consolidation      Debt consolidation
## 1730   Fully Paid          n             credit_card Credit card refinancing
## 1734   Fully Paid          n                   other                   Other
## 1752   Fully Paid          n      debt_consolidation      Debt consolidation
## 1771   Fully Paid          n                   other                   Other
## 1816   Fully Paid          n      debt_consolidation      Debt consolidation
## 1846   Fully Paid          n      debt_consolidation      Debt consolidation
## 1850   Fully Paid          n      debt_consolidation      Debt consolidation
## 1853   Fully Paid          n             credit_card Credit card refinancing
## 1856   Fully Paid          n      debt_consolidation      Debt consolidation
## 1857   Fully Paid          n             credit_card Credit card refinancing
## 1862   Fully Paid          n      debt_consolidation      Debt consolidation
## 1865   Fully Paid          n      debt_consolidation      Debt consolidation
## 1866   Fully Paid          n             credit_card Credit card refinancing
## 1867   Fully Paid          n      debt_consolidation      Debt consolidation
## 1896   Fully Paid          n             credit_card Credit card refinancing
## 1905   Fully Paid          n                vacation                Vacation
## 1907   Fully Paid          n           small_business                Business
## 1922   Fully Paid          n             credit_card Credit card refinancing
## 1930   Fully Paid          n      debt_consolidation      Debt consolidation
## 1933   Fully Paid          n                   other                   Other
## 1952   Fully Paid          n        home_improvement        Home improvement
## 1956   Fully Paid          n      debt_consolidation      Debt consolidation
## 1961   Fully Paid          n             credit_card Credit card refinancing
## 1963   Fully Paid          n      debt_consolidation      Debt consolidation
## 2004   Fully Paid          n                   other                   Other
## 2012   Fully Paid          n             credit_card Credit card refinancing
## 2017   Fully Paid          n      debt_consolidation      Debt consolidation
## 2019   Fully Paid          n      debt_consolidation      Debt consolidation
## 2026   Fully Paid          n      debt_consolidation      Debt consolidation
## 2027   Fully Paid          n                   other                   Other
## 2039   Fully Paid          n             credit_card Credit card refinancing
## 2041   Fully Paid          n                   other                   Other
## 2051   Fully Paid          n      debt_consolidation      Debt consolidation
## 2060   Fully Paid          n                   other                   Other
## 2065   Fully Paid          n             credit_card Credit card refinancing
## 2073   Fully Paid          n      debt_consolidation      Debt consolidation
## 2105   Fully Paid          n      debt_consolidation      Debt consolidation
## 2117   Fully Paid          n        home_improvement        Home improvement
## 2128   Fully Paid          n                   other                   Other
## 2129  Charged Off          n      debt_consolidation      Debt consolidation
## 2136   Fully Paid          n                   other                   Other
## 2137   Fully Paid          n      debt_consolidation      Debt consolidation
## 2148   Fully Paid          n                  moving   Moving and relocation
## 2155   Fully Paid          n      debt_consolidation      Debt consolidation
## 2168   Fully Paid          n      debt_consolidation      Debt consolidation
## 2197   Fully Paid          n             credit_card Credit card refinancing
## 2215   Fully Paid          n        home_improvement        Home improvement
## 2224   Fully Paid          n      debt_consolidation      Debt consolidation
## 2234   Fully Paid          n      debt_consolidation      Debt consolidation
## 2255   Fully Paid          n      debt_consolidation      Debt consolidation
## 2258   Fully Paid          n      debt_consolidation      Debt consolidation
## 2286   Fully Paid          n      debt_consolidation      Debt consolidation
## 2296   Fully Paid          n      debt_consolidation      Debt consolidation
## 2329   Fully Paid          n      debt_consolidation      Debt consolidation
## 2342   Fully Paid          n      debt_consolidation      Debt consolidation
## 2347   Fully Paid          n      debt_consolidation      Debt consolidation
## 2357   Fully Paid          n      debt_consolidation      Debt consolidation
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## 2377   Fully Paid          n      debt_consolidation      Debt consolidation
## 2393  Charged Off          n      debt_consolidation      Debt consolidation
## 2396   Fully Paid          n      debt_consolidation      Debt consolidation
## 2399   Fully Paid          n                   house             Home buying
## 2405   Fully Paid          n      debt_consolidation      Debt consolidation
## 2420   Fully Paid          n                     car           Car financing
## 2425   Fully Paid          n      debt_consolidation      Debt consolidation
## 2429   Fully Paid          n          major_purchase          Major purchase
## 2439   Fully Paid          n      debt_consolidation      Debt consolidation
## 2447   Fully Paid          n      debt_consolidation      Debt consolidation
## 2449   Fully Paid          n      debt_consolidation      Debt consolidation
## 2457   Fully Paid          n      debt_consolidation      Debt consolidation
## 2478   Fully Paid          n             credit_card Credit card refinancing
## 2480   Fully Paid          n             credit_card Credit card refinancing
## 2492   Fully Paid          n             credit_card Credit card refinancing
## 2494   Fully Paid          n      debt_consolidation      Debt consolidation
## 2504   Fully Paid          n          major_purchase          Major purchase
## 2510   Fully Paid          n      debt_consolidation      Debt consolidation
## 2514   Fully Paid          n             credit_card Credit card refinancing
## 2516   Fully Paid          n      debt_consolidation      Debt consolidation
## 2522  Charged Off          n      debt_consolidation      Debt consolidation
## 2529   Fully Paid          n      debt_consolidation      Debt consolidation
## 2535  Charged Off          n                   other                   Other
## 2545   Fully Paid          n        home_improvement        Home improvement
## 2549   Fully Paid          n             credit_card Credit card refinancing
## 2593  Charged Off          n                   other                   Other
## 2598   Fully Paid          n      debt_consolidation      Debt consolidation
## 2604   Fully Paid          n        home_improvement        Home improvement
## 2628   Fully Paid          n                   house             Home buying
## 2631   Fully Paid          n      debt_consolidation      Debt consolidation
## 2661   Fully Paid          n      debt_consolidation      Debt consolidation
## 2673   Fully Paid          n      debt_consolidation      Debt consolidation
## 2692  Charged Off          n                   other                   Other
## 2707   Fully Paid          n                     car           Car financing
## 2714   Fully Paid          n             credit_card Credit card refinancing
## 2715   Fully Paid          n      debt_consolidation      Debt consolidation
## 2761   Fully Paid          n      debt_consolidation      Debt consolidation
## 2772   Fully Paid          n             credit_card Credit card refinancing
## 2788   Fully Paid          n      debt_consolidation      Debt consolidation
## 2789   Fully Paid          n      debt_consolidation      Debt consolidation
## 2820   Fully Paid          n                medical        Medical expenses
## 2840   Fully Paid          n      debt_consolidation      Debt consolidation
## 2856   Fully Paid          n        home_improvement        Home improvement
## 2858   Fully Paid          n      debt_consolidation      Debt consolidation
## 2861   Fully Paid          n             credit_card Credit card refinancing
## 2872   Fully Paid          n        home_improvement        Home improvement
## 2877   Fully Paid          n             credit_card Credit card refinancing
## 2878   Fully Paid          n      debt_consolidation      Debt consolidation
## 2879   Fully Paid          n      debt_consolidation      Debt consolidation
## 2893   Fully Paid          n          major_purchase          Major purchase
## 2913   Fully Paid          n      debt_consolidation      Debt consolidation
## 2915   Fully Paid          n             credit_card Credit card refinancing
## 2918   Fully Paid          n      debt_consolidation      Debt consolidation
## 2940   Fully Paid          n      debt_consolidation      Debt consolidation
## 2942   Fully Paid          n             credit_card Credit card refinancing
## 2954   Fully Paid          n      debt_consolidation      Debt consolidation
## 2976   Fully Paid          n      debt_consolidation      Debt consolidation
## 2977   Fully Paid          n             credit_card Credit card refinancing
## 2978   Fully Paid          n                     car           Car financing
## 2982   Fully Paid          n      debt_consolidation      Debt consolidation
## 3002   Fully Paid          n      debt_consolidation      Debt consolidation
## 3012   Fully Paid          n        home_improvement        Home improvement
## 3017   Fully Paid          n                vacation               Vacation
## 3018   Fully Paid          n             credit_card Credit card refinancing
## 3021  Charged Off          n      debt_consolidation      Debt consolidation
## 3034   Fully Paid          n      debt_consolidation      Debt consolidation
## 3045   Fully Paid          n      debt_consolidation      Debt consolidation
## 3050   Fully Paid          n      debt_consolidation      Debt consolidation
## 3057   Fully Paid          n      debt_consolidation      Debt consolidation
## 3071   Fully Paid          n             credit_card Credit card refinancing
## 3104   Fully Paid          n      debt_consolidation      Debt consolidation
## 3112   Fully Paid          n      debt_consolidation      Debt consolidation
## 3124   Fully Paid          n      debt_consolidation      Debt consolidation
## 3150   Fully Paid          n      debt_consolidation      Debt consolidation
## 3160   Fully Paid          n      debt_consolidation      Debt consolidation
## 3165   Fully Paid          n      debt_consolidation      Debt consolidation
## 3172   Fully Paid          n      debt_consolidation      Debt consolidation
## 3177   Fully Paid          n             credit_card Credit card refinancing
## 3213   Fully Paid          n             credit_card Credit card refinancing
## 3222   Fully Paid          n             credit_card Credit card refinancing
## 3237   Fully Paid          n      debt_consolidation      Debt consolidation
## 3252   Fully Paid          n      debt_consolidation      Debt consolidation
## 3257   Fully Paid          n      debt_consolidation      Debt consolidation
## 3258  Charged Off          n      debt_consolidation      Debt consolidation
## 3265   Fully Paid          n             credit_card Credit card refinancing
## 3276   Fully Paid          n        home_improvement        Home improvement
## 3289   Fully Paid          n      debt_consolidation      Debt consolidation
## 3307   Fully Paid          n             credit_card Credit card refinancing
## 3312   Fully Paid          n      debt_consolidation      Debt consolidation
## 3317   Fully Paid          n      debt_consolidation      Debt consolidation
## 3333   Fully Paid          n      debt_consolidation      Debt consolidation
## 3366   Fully Paid          n             credit_card Credit card refinancing
## 3383   Fully Paid          n                   other                   Other
## 3419   Fully Paid          n             credit_card Credit card refinancing
## 3421   Fully Paid          n         small_business               Business
## 3422   Fully Paid          n      debt_consolidation      Debt consolidation
## 3429   Fully Paid          n      debt_consolidation      Debt consolidation
## 3433   Fully Paid          n        home_improvement        Home improvement
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## 3449   Fully Paid          n        home_improvement        Home improvement
## 3458   Fully Paid          n      debt_consolidation      Debt consolidation
## 3467   Fully Paid          n      debt_consolidation      Debt consolidation
## 3471   Fully Paid          n      debt_consolidation      Debt consolidation
## 3480   Fully Paid          n      debt_consolidation      Debt consolidation
## 3482   Fully Paid          n      debt_consolidation      Debt consolidation
## 3502   Fully Paid          n             credit_card Credit card refinancing
## 3504   Fully Paid          n      debt_consolidation      Debt consolidation
## 3507   Fully Paid          n      debt_consolidation      Debt consolidation
## 3536   Fully Paid          n      debt_consolidation      Debt consolidation
## 3538   Fully Paid          n      debt_consolidation      Debt consolidation
## 3542   Fully Paid          n      debt_consolidation      Debt consolidation
## 3547   Fully Paid          n      debt_consolidation      Debt consolidation
## 3553   Fully Paid          n      debt_consolidation      Debt consolidation
## 3567   Fully Paid          n      debt_consolidation      Debt consolidation
## 3590   Fully Paid          n      debt_consolidation      Debt consolidation
## 3607   Fully Paid          n      debt_consolidation      Debt consolidation
## 3623   Fully Paid          n      debt_consolidation      Debt consolidation
## 3635   Fully Paid          n             credit_card Credit card refinancing
## 3655   Fully Paid          n      debt_consolidation      Debt consolidation
## 3684   Fully Paid          n             credit_card Credit card refinancing
## 3687   Fully Paid          n        home_improvement        Home improvement
## 3688   Fully Paid          n      debt_consolidation      Debt consolidation
## 3699   Fully Paid          n      debt_consolidation      Debt consolidation
## 3701   Fully Paid          n             credit_card Credit card refinancing
## 3712   Fully Paid          n      debt_consolidation      Debt consolidation
## 3730   Fully Paid          n      debt_consolidation      Debt consolidation
## 3749  Charged Off          n             credit_card Credit card refinancing
## 3756  Charged Off          n      debt_consolidation      Debt consolidation
## 3758   Fully Paid          n      debt_consolidation      Debt consolidation
## 3771   Fully Paid          n      debt_consolidation      Debt consolidation
## 3785   Fully Paid          n          major_purchase          Major purchase
## 3788   Fully Paid          n      debt_consolidation      Debt consolidation
## 3852   Fully Paid          n                   house             Home buying
## 3857   Fully Paid          n                     car           Car financing
## 3865   Fully Paid          n      debt_consolidation      Debt consolidation
## 3889   Fully Paid          n      debt_consolidation      Debt consolidation
## 3892  Charged Off          n        home_improvement        Home improvement
## 3901   Fully Paid          n                   other                   Other
## 3917   Fully Paid          n        home_improvement        Home improvement
## 3924   Fully Paid          n             credit_card Credit card refinancing
## 3938   Fully Paid          n      debt_consolidation      Debt consolidation
## 3947  Charged Off          n                     car           Car financing
## 3949   Fully Paid          n                   other                   Other
## 3959   Fully Paid          n      debt_consolidation      Debt consolidation
## 3977   Fully Paid          n                  moving   Moving and relocation
## 3990   Fully Paid          n      debt_consolidation      Debt consolidation
## 4001   Fully Paid          n                 medical        Medical expenses
## 4003   Fully Paid          n             credit_card Credit card refinancing
## 4016   Fully Paid          n      debt_consolidation      Debt consolidation
## 4017   Fully Paid          n                   other                   Other
## 4021   Fully Paid          n      debt_consolidation      Debt consolidation
## 4022  Charged Off          n      debt_consolidation      Debt consolidation
## 4026   Fully Paid          n        home_improvement        Home improvement
## 4036   Fully Paid          n             credit_card Credit card refinancing
## 4049   Fully Paid          n             credit_card Credit card refinancing
## 4054   Fully Paid          n        home_improvement        Home improvement
## 4093   Fully Paid          n      debt_consolidation      Debt consolidation
## 4099  Charged Off          n                   other                   Other
## 4104   Fully Paid          n        home_improvement        Home improvement
## 4107   Fully Paid          n          major_purchase          Major purchase
## 4110   Fully Paid          n      debt_consolidation      Debt consolidation
## 4122   Fully Paid          n      debt_consolidation      Debt consolidation
## 4128  Charged Off          n             credit_card Credit card refinancing
## 4131   Fully Paid          n                   other                   Other
## 4133   Fully Paid          n             credit_card Credit card refinancing
## 4135   Fully Paid          n      debt_consolidation      Debt consolidation
## 4151   Fully Paid          n      debt_consolidation      Debt consolidation
## 4153   Fully Paid          n             credit_card Credit card refinancing
## 4157   Fully Paid          n      debt_consolidation      Debt consolidation
## 4233   Fully Paid          n      debt_consolidation      Debt consolidation
## 4237   Fully Paid          n             credit_card Credit card refinancing
## 4254   Fully Paid          n        home_improvement        Home improvement
## 4258   Fully Paid          n      debt_consolidation      Debt consolidation
## 4259  Charged Off          n      debt_consolidation      Debt consolidation
## 4261   Fully Paid          n      debt_consolidation      Debt consolidation
## 4265   Fully Paid          n      debt_consolidation      Debt consolidation
## 4269  Charged Off          n          major_purchase          Major purchase
## 4297  Charged Off          n      debt_consolidation      Debt consolidation
## 4307  Charged Off          n                   other                   Other
## 4341   Fully Paid          n                vacation                Vacation
## 4342   Fully Paid          n      debt_consolidation      Debt consolidation
## 4351   Fully Paid          n        home_improvement        Home improvement
## 4352   Fully Paid          n      debt_consolidation      Debt consolidation
## 4376   Fully Paid          n             credit_card Credit card refinancing
## 4395   Fully Paid          n      debt_consolidation      Debt consolidation
## 4412   Fully Paid          n        home_improvement        Home improvement
## 4414   Fully Paid          n      debt_consolidation      Debt consolidation
## 4448   Fully Paid          n             credit_card Credit card refinancing
## 4466   Fully Paid          n      debt_consolidation      Debt consolidation
## 4476   Fully Paid          n             credit_card Credit card refinancing
## 4477   Fully Paid          n      debt_consolidation      Debt consolidation
## 4498   Fully Paid          n                   other                   Other
## 4501   Fully Paid          n      debt_consolidation      Debt consolidation
## 4506   Fully Paid          n      debt_consolidation      Debt consolidation
## 4517   Fully Paid          n        home_improvement        Home improvement
## 4524   Fully Paid          n             credit_card Credit card refinancing
## 4532   Fully Paid          n                   other                   Other
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## 4539   Fully Paid          n      debt_consolidation      Debt consolidation
## 4552   Fully Paid          n      debt_consolidation      Debt consolidation
## 4565   Fully Paid          n      debt_consolidation      Debt consolidation
## 4580   Fully Paid          n      debt_consolidation      Debt consolidation
## 4584   Fully Paid          n             credit_card Credit card refinancing
## 4586   Fully Paid          n      debt_consolidation      Debt consolidation
## 4611   Fully Paid          n      debt_consolidation      Debt consolidation
## 4632   Fully Paid          n      debt_consolidation      Debt consolidation
## 4682   Fully Paid          n      debt_consolidation      Debt consolidation
## 4688   Fully Paid          n      debt_consolidation      Debt consolidation
## 4692   Fully Paid          n      debt_consolidation      Debt consolidation
## 4712   Fully Paid          n      debt_consolidation      Debt consolidation
## 4743   Fully Paid          n      debt_consolidation      Debt consolidation
## 4758   Fully Paid          n      debt_consolidation      Debt consolidation
## 4769   Fully Paid          n        home_improvement        Home improvement
## 4774   Fully Paid          n      debt_consolidation      Debt consolidation
## 4775   Fully Paid          n             credit_card Credit card refinancing
## 4786   Fully Paid          n                   other                   Other
## 4791   Fully Paid          n      debt_consolidation      Debt consolidation
## 4792   Fully Paid          n      debt_consolidation      Debt consolidation
## 4797   Fully Paid          n      debt_consolidation      Debt consolidation
## 4801   Fully Paid          n      debt_consolidation      Debt consolidation
## 4816   Fully Paid          n             credit_card Credit card refinancing
## 4818   Fully Paid          n      debt_consolidation      Debt consolidation
## 4832   Fully Paid          n          major_purchase          Major purchase
## 4834   Fully Paid          n             credit_card Credit card refinancing
## 4880   Fully Paid          n      debt_consolidation      Debt consolidation
## 4921   Fully Paid          n      debt_consolidation      Debt consolidation
## 4922   Fully Paid          n      debt_consolidation      Debt consolidation
## 4934   Fully Paid          n                   other                   Other
## 4951   Fully Paid          n      debt_consolidation      Debt consolidation
## 4958   Fully Paid          n             credit_card Credit card refinancing
## 4985   Fully Paid          n                vacation                Vacation
## 5010   Fully Paid          n      debt_consolidation      Debt consolidation
## 5021   Fully Paid          n      debt_consolidation      Debt consolidation
## 5035   Fully Paid          n      debt_consolidation      Debt consolidation
## 5036   Fully Paid          n      debt_consolidation      Debt consolidation
## 5038  Charged Off          n             credit_card Credit card refinancing
## 5059   Fully Paid          n      debt_consolidation      Debt consolidation
## 5060   Fully Paid          n      debt_consolidation      Debt consolidation
## 5070   Fully Paid          n             credit_card Credit card refinancing
## 5103   Fully Paid          n        home_improvement        Home improvement
## 5134   Fully Paid          n      debt_consolidation      Debt consolidation
## 5136   Fully Paid          n             credit_card Credit card refinancing
## 5155   Fully Paid          n      debt_consolidation      Debt consolidation
## 5157   Fully Paid          n      debt_consolidation      Debt consolidation
## 5162   Fully Paid          n                   house             Home buying
## 5163   Fully Paid          n        home_improvement        Home improvement
## 5168   Fully Paid          n             credit_card Credit card refinancing
## 5169   Fully Paid          n             credit_card Credit card refinancing
## 5177   Fully Paid          n      debt_consolidation      Debt consolidation
## 5184   Fully Paid          n      debt_consolidation      Debt consolidation
## 5186   Fully Paid          n             credit_card Credit card refinancing
## 5218   Fully Paid          n             credit_card Credit card refinancing
## 5220  Charged Off          n      debt_consolidation      Debt consolidation
## 5221   Fully Paid          n      debt_consolidation      Debt consolidation
## 5244   Fully Paid          n      debt_consolidation      Debt consolidation
## 5255   Fully Paid          n      debt_consolidation      Debt consolidation
## 5278   Fully Paid          n             credit_card Credit card refinancing
## 5295   Fully Paid          n             credit_card Credit card refinancing
## 5317   Fully Paid          n        home_improvement        Home improvement
## 5325   Fully Paid          n             credit_card Credit card refinancing
## 5345   Fully Paid          n      debt_consolidation      Debt consolidation
## 5348   Fully Paid          n      debt_consolidation      Debt consolidation
## 5354   Fully Paid          n      debt_consolidation      Debt consolidation
## 5356   Fully Paid          n             credit_card Credit card refinancing
## 5358   Fully Paid          n             credit_card Credit card refinancing
## 5365   Fully Paid          n             credit_card Credit card refinancing
## 5379  Charged Off          n      debt_consolidation      Debt consolidation
## 5390   Fully Paid          n      debt_consolidation      Debt consolidation
## 5406   Fully Paid          n                   house             Home buying
## 5416   Fully Paid          n      debt_consolidation      Debt consolidation
## 5431   Fully Paid          n             credit_card Credit card refinancing
## 5442  Charged Off          n      debt_consolidation      Debt consolidation
## 5467   Fully Paid          n             credit_card Credit card refinancing
## 5494   Fully Paid          n        home_improvement        Home improvement
## 5554   Fully Paid          n             credit_card Credit card refinancing
## 5556   Fully Paid          n                   other                   Other
## 5565   Fully Paid          n      debt_consolidation      Debt consolidation
## 5566   Fully Paid          n      debt_consolidation      Debt consolidation
## 5568  Charged Off          n      debt_consolidation      Debt consolidation
## 5574  Charged Off          n        home_improvement        Home improvement
## 5597  Charged Off          n                   house             Home buying
## 5621   Fully Paid          n      debt_consolidation      Debt consolidation
## 5623   Fully Paid          n      debt_consolidation      Debt consolidation
## 5643  Charged Off          n      debt_consolidation      Debt consolidation
## 5664   Fully Paid          n      debt_consolidation      Debt consolidation
## 5666  Charged Off          n      debt_consolidation      Debt consolidation
## 5720  Charged Off          n          major_purchase          Major purchase
## 5731   Fully Paid          n             credit_card Credit card refinancing
## 5733   Fully Paid          n      debt_consolidation      Debt consolidation
## 5734   Fully Paid          n             credit_card Credit card refinancing
## 5749   Fully Paid          n             credit_card Credit card refinancing
## 5759   Fully Paid          n                   other                   Other
## 5760   Fully Paid          n      debt_consolidation      Debt consolidation
## 5784   Fully Paid          n             credit_card Credit card refinancing
## 5786   Fully Paid          n                   other                   Other
## 5794   Fully Paid          n      debt_consolidation      Debt consolidation
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## 5806   Fully Paid          n                medical        Medical expenses
## 5809   Fully Paid          n            credit_card Credit card refinancing
## 5827   Fully Paid          n            credit_card Credit card refinancing
## 5848   Fully Paid          n      debt_consolidation      Debt consolidation
## 5849   Fully Paid          n        home_improvement        Home improvement
## 5860   Fully Paid          n            credit_card Credit card refinancing
## 5874   Fully Paid          n      debt_consolidation      Debt consolidation
## 5876   Fully Paid          n      debt_consolidation      Debt consolidation
## 5886   Fully Paid          n      debt_consolidation      Debt consolidation
## 5923  Charged Off          n      debt_consolidation      Debt consolidation
## 5948   Fully Paid          n        home_improvement        Home improvement
## 5962   Fully Paid          n      debt_consolidation      Debt consolidation
## 5974   Fully Paid          n            credit_card Credit card refinancing
## 6002   Fully Paid          n        home_improvement        Home improvement
## 6051   Fully Paid          n                     car           Car financing
## 6057   Fully Paid          n            credit_card Credit card refinancing
## 6083   Fully Paid          n                medical        Medical expenses
## 6097   Fully Paid          n            credit_card Credit card refinancing
## 6126  Charged Off          n      debt_consolidation      Debt consolidation
## 6157   Fully Paid          n      debt_consolidation      Debt consolidation
## 6159   Fully Paid          n        home_improvement        Home improvement
## 6164   Fully Paid          n      debt_consolidation      Debt consolidation
## 6165   Fully Paid          n      debt_consolidation      Debt consolidation
## 6174   Fully Paid          n                   house             Home buying
## 6183  Charged Off          n      debt_consolidation      Debt consolidation
## 6196   Fully Paid          n      debt_consolidation      Debt consolidation
## 6203  Charged Off          n                  moving   Moving and relocation
## 6204   Fully Paid          n            credit_card Credit card refinancing
## 6207   Fully Paid          n      debt_consolidation      Debt consolidation
## 6209   Fully Paid          n            credit_card Credit card refinancing
## 6237   Fully Paid          n            credit_card Credit card refinancing
## 6247   Fully Paid          n      debt_consolidation      Debt consolidation
## 6250   Fully Paid          n      debt_consolidation      Debt consolidation
## 6253   Fully Paid          n          small_business               Business
## 6289   Fully Paid          n      debt_consolidation      Debt consolidation
## 6294   Fully Paid          n                     car           Car financing
## 6298   Fully Paid          n                medical        Medical expenses
## 6307   Fully Paid          n      debt_consolidation      Debt consolidation
## 6316   Fully Paid          n                   house             Home buying
## 6333  Charged Off          n            credit_card Credit card refinancing
## 6352   Fully Paid          n          major_purchase          Major purchase
## 6367   Fully Paid          n      debt_consolidation      Debt consolidation
## 6388   Fully Paid          n      debt_consolidation      Debt consolidation
## 6396  Charged Off          n            credit_card Credit card refinancing
## 6402  Charged Off          n      debt_consolidation      Debt consolidation
## 6407  Charged Off          n      debt_consolidation      Debt consolidation
## 6410   Fully Paid          n      debt_consolidation      Debt consolidation
## 6421   Fully Paid          n                   other                   Other
## 6422  Charged Off          n                   other                   Other
## 6435   Fully Paid          n            credit_card Credit card refinancing
## 6449   Fully Paid          n      debt_consolidation      Debt consolidation
## 6455   Fully Paid          n        home_improvement        Home improvement
## 6456  Charged Off          n      debt_consolidation      Debt consolidation
## 6468   Fully Paid          n      debt_consolidation      Debt consolidation
## 6470   Fully Paid          n            credit_card Credit card refinancing
## 6477   Fully Paid          n        home_improvement        Home improvement
## 6490   Fully Paid          n            credit_card Credit card refinancing
## 6504   Fully Paid          n            credit_card Credit card refinancing
## 6505   Fully Paid          n      debt_consolidation      Debt consolidation
## 6530   Fully Paid          n      debt_consolidation      Debt consolidation
## 6533   Fully Paid          n            credit_card Credit card refinancing
## 6560   Fully Paid          n            credit_card Credit card refinancing
## 6570   Fully Paid          n      debt_consolidation      Debt consolidation
## 6585   Fully Paid          n            credit_card Credit card refinancing
## 6599   Fully Paid          n        home_improvement        Home improvement
## 6612   Fully Paid          n                   house             Home buying
## 6617   Fully Paid          n            credit_card Credit card refinancing
## 6628   Fully Paid          n                  moving   Moving and relocation
## 6642   Fully Paid          n      debt_consolidation      Debt consolidation
## 6651   Fully Paid          n            credit_card Credit card refinancing
## 6653   Fully Paid          n      debt_consolidation      Debt consolidation
## 6660   Fully Paid          n            credit_card Credit card refinancing
## 6673  Charged Off          n      debt_consolidation      Debt consolidation
## 6675  Charged Off          n      debt_consolidation      Debt consolidation
## 6680  Charged Off          n        home_improvement        Home improvement
## 6696   Fully Paid          n        home_improvement        Home improvement
## 6712   Fully Paid          n                     car           Car financing
## 6736   Fully Paid          n      debt_consolidation      Debt consolidation
## 6750  Charged Off          n      debt_consolidation      Debt consolidation
## 6782   Fully Paid          n      debt_consolidation      Debt consolidation
## 6784  Charged Off          n                   house             Home buying
## 6793   Fully Paid          n      debt_consolidation      Debt consolidation
## 6815   Fully Paid          n            credit_card Credit card refinancing
## 6833   Fully Paid          n      debt_consolidation      Debt consolidation
## 6854   Fully Paid          n      debt_consolidation      Debt consolidation
## 6855   Fully Paid          n      debt_consolidation      Debt consolidation
## 6878   Fully Paid          n      debt_consolidation      Debt consolidation
## 6879   Fully Paid          n      debt_consolidation      Debt consolidation
## 6884  Charged Off          n      debt_consolidation      Debt consolidation
## 6906   Fully Paid          n      debt_consolidation      Debt consolidation
## 6922   Fully Paid          n                   other                   Other
## 6936   Fully Paid          n        home_improvement        Home improvement
## 6950   Fully Paid          n            credit_card Credit card refinancing
## 6964   Fully Paid          n            credit_card Credit card refinancing
## 6984   Fully Paid          n        home_improvement        Home improvement
## 6985   Fully Paid          n        home_improvement        Home improvement
## 6993   Fully Paid          n      debt_consolidation      Debt consolidation
## 7000   Fully Paid          n                   house             Home buying
```

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## 7021   Fully Paid          n      debt_consolidation      Debt consolidation
## 7027   Fully Paid          n      debt_consolidation      Debt consolidation
## 7034   Fully Paid          n        home_improvement        Home improvement
## 7038   Fully Paid          n                 medical        Medical expenses
## 7039   Fully Paid          n      debt_consolidation      Debt consolidation
## 7043   Fully Paid          n      debt_consolidation      Debt consolidation
## 7068   Fully Paid          n      debt_consolidation      Debt consolidation
## 7081   Fully Paid          n      debt_consolidation      Debt consolidation
## 7095   Fully Paid          n             credit_card Credit card refinancing
## 7096   Fully Paid          n      debt_consolidation      Debt consolidation
## 7099   Fully Paid          n      debt_consolidation      Debt consolidation
## 7111   Fully Paid          n                   house             Home buying
## 7115   Fully Paid          n        home_improvement        Home improvement
## 7132   Fully Paid          n      debt_consolidation      Debt consolidation
## 7133   Fully Paid          n      debt_consolidation      Debt consolidation
## 7147   Fully Paid          n      debt_consolidation      Debt consolidation
## 7158   Fully Paid          n      debt_consolidation      Debt consolidation
## 7167   Fully Paid          n      debt_consolidation      Debt consolidation
## 7168   Fully Paid          n      debt_consolidation      Debt consolidation
## 7169   Fully Paid          n      debt_consolidation      Debt consolidation
## 7188   Fully Paid          n                 medical        Medical expenses
## 7193   Fully Paid          n        home_improvement        Home improvement
## 7232   Fully Paid          n                   other                   Other
## 7237  Charged Off          n      debt_consolidation      Debt consolidation
## 7249   Fully Paid          n      debt_consolidation      Debt consolidation
## 7255   Fully Paid          n      debt_consolidation      Debt consolidation
## 7262  Charged Off          n                   other                   Other
## 7279   Fully Paid          n      debt_consolidation      Debt consolidation
## 7302   Fully Paid          n        home_improvement        Home improvement
## 7310   Fully Paid          n             credit_card Credit card refinancing
## 7323   Fully Paid          n      debt_consolidation      Debt consolidation
## 7344   Fully Paid          n      debt_consolidation      Debt consolidation
## 7353   Fully Paid          n             credit_card Credit card refinancing
## 7355   Fully Paid          n      debt_consolidation      Debt consolidation
## 7426   Fully Paid          n      debt_consolidation      Debt consolidation
## 7445   Fully Paid          n             credit_card Credit card refinancing
## 7446   Fully Paid          n                vacation                Vacation
## 7460   Fully Paid          n        home_improvement        Home improvement
## 7465  Charged Off          n      debt_consolidation      Debt consolidation
## 7474  Charged Off          n      debt_consolidation      Debt consolidation
## 7479   Fully Paid          n      debt_consolidation      Debt consolidation
## 7485   Fully Paid          n             credit_card Credit card refinancing
## 7530   Fully Paid          n                   other                   Other
## 7533   Fully Paid          n        home_improvement        Home improvement
## 7538   Fully Paid          n                   other                   Other
## 7555   Fully Paid          n      debt_consolidation      Debt consolidation
## 7562  Charged Off          n                   house             Home buying
## 7564   Fully Paid          n      debt_consolidation      Debt consolidation
## 7579  Charged Off          n      debt_consolidation      Debt consolidation
## 7591   Fully Paid          n             credit_card Credit card refinancing
## 7594   Fully Paid          n          major_purchase          Major purchase
## 7612   Fully Paid          n      debt_consolidation      Debt consolidation
## 7619   Fully Paid          n                   house             Home buying
## 7621   Fully Paid          n      debt_consolidation      Debt consolidation
## 7704   Fully Paid          n      debt_consolidation      Debt consolidation
## 7715   Fully Paid          n        home_improvement        Home improvement
## 7737   Fully Paid          n                   other                   Other
## 7777   Fully Paid          n      debt_consolidation      Debt consolidation
## 7792   Fully Paid          n             credit_card Credit card refinancing
## 7794   Fully Paid          n      debt_consolidation      Debt consolidation
## 7824   Fully Paid          n        home_improvement        Home improvement
## 7828   Fully Paid          n             credit_card Credit card refinancing
## 7833   Fully Paid          n      debt_consolidation      Debt consolidation
## 7838   Fully Paid          n                 medical        Medical expenses
## 7840   Fully Paid          n             credit_card Credit card refinancing
## 7882   Fully Paid          n      debt_consolidation      Debt consolidation
## 7893   Fully Paid          n             credit_card Credit card refinancing
## 7900   Fully Paid          n             credit_card Credit card refinancing
## 7910   Fully Paid          n      debt_consolidation      Debt consolidation
## 7925   Fully Paid          n      debt_consolidation      Debt consolidation
## 7945   Fully Paid          n      debt_consolidation      Debt consolidation
## 7963   Fully Paid          n      debt_consolidation      Debt consolidation
## 7972   Fully Paid          n             credit_card Credit card refinancing
## 7980   Fully Paid          n      debt_consolidation      Debt consolidation
## 7985  Charged Off          n                   house             Home buying
## 8006   Fully Paid          n      debt_consolidation      Debt consolidation
## 8009  Charged Off          n      debt_consolidation      Debt consolidation
## 8024   Fully Paid          n      debt_consolidation      Debt consolidation
## 8042   Fully Paid          n             credit_card Credit card refinancing
## 8046   Fully Paid          n      debt_consolidation      Debt consolidation
## 8047   Fully Paid          n             credit_card Credit card refinancing
## 8080   Fully Paid          n        home_improvement        Home improvement
## 8086   Fully Paid          n             credit_card Credit card refinancing
## 8111   Fully Paid          n             credit_card Credit card refinancing
## 8125  Charged Off          n          major_purchase          Major purchase
## 8140   Fully Paid          n             credit_card Credit card refinancing
## 8148  Charged Off          n                   other                   Other
## 8154   Fully Paid          n        home_improvement        Home improvement
## 8174   Fully Paid          n      debt_consolidation      Debt consolidation
## 8192   Fully Paid          n                   house             Home buying
## 8261   Fully Paid          n      debt_consolidation      Debt consolidation
## 8269   Fully Paid          n          small_business                Business
## 8275   Fully Paid          n      debt_consolidation      Debt consolidation
## 8287  Charged Off          n        home_improvement        Home improvement
## 8303   Fully Paid          n             credit_card Credit card refinancing
## 8304   Fully Paid          n      debt_consolidation      Debt consolidation
## 8339   Fully Paid          n      debt_consolidation      Debt consolidation
## 8352   Fully Paid          n      debt_consolidation      Debt consolidation
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## 8370   Fully Paid          n                  moving   Moving and relocation
## 8384   Fully Paid          n      debt_consolidation      Debt consolidation
## 8388   Fully Paid          n             credit_card Credit card refinancing
## 8400   Fully Paid          n      debt_consolidation      Debt consolidation
## 8420   Fully Paid          n      debt_consolidation      Debt consolidation
## 8432  Charged Off          n      debt_consolidation      Debt consolidation
## 8439  Charged Off          n          small_business                Business
## 8440   Fully Paid          n      debt_consolidation      Debt consolidation
## 8444   Fully Paid          n                 medical        Medical expenses
## 8455   Fully Paid          n                   other                   Other
## 8457  Charged Off          n                   other                   Other
## 8460   Fully Paid          n                   house             Home buying
## 8466   Fully Paid          n      debt_consolidation      Debt consolidation
## 8478   Fully Paid          n             credit_card Credit card refinancing
## 8485  Charged Off          n      debt_consolidation      Debt consolidation
## 8494   Fully Paid          n      debt_consolidation      Debt consolidation
## 8495   Fully Paid          n             credit_card Credit card refinancing
## 8503   Fully Paid          n      debt_consolidation      Debt consolidation
## 8520  Charged Off          n          major_purchase          Major purchase
## 8546   Fully Paid          n      debt_consolidation      Debt consolidation
## 8548  Charged Off          n      debt_consolidation      Debt consolidation
## 8562   Fully Paid          n                   other                   Other
## 8577   Fully Paid          n      debt_consolidation      Debt consolidation
## 8582   Fully Paid          n      debt_consolidation      Debt consolidation
## 8584   Fully Paid          n      debt_consolidation      Debt consolidation
## 8593  Charged Off          n      debt_consolidation      Debt consolidation
## 8597   Fully Paid          n      debt_consolidation      Debt consolidation
## 8601   Fully Paid          n      debt_consolidation      Debt consolidation
## 8603   Fully Paid          n             credit_card Credit card refinancing
## 8645   Fully Paid          n      debt_consolidation      Debt consolidation
## 8659   Fully Paid          n      debt_consolidation      Debt consolidation
## 8679  Charged Off          n      debt_consolidation      Debt consolidation
## 8682  Charged Off          n      debt_consolidation      Debt consolidation
## 8691   Fully Paid          n             credit_card Credit card refinancing
## 8695  Charged Off          n      debt_consolidation      Debt consolidation
## 8698   Fully Paid          n             credit_card Credit card refinancing
## 8725   Fully Paid          n                 medical        Medical expenses
## 8730   Fully Paid          n                  moving   Moving and relocation
## 8733   Fully Paid          n                   other                   Other
## 8734  Charged Off          n      debt_consolidation      Debt consolidation
## 8748  Charged Off          n             credit_card Credit card refinancing
## 8755   Fully Paid          n      debt_consolidation      Debt consolidation
## 8774   Fully Paid          n             credit_card Credit card refinancing
## 8784   Fully Paid          n             credit_card Credit card refinancing
## 8789   Fully Paid          n      debt_consolidation      Debt consolidation
## 8799   Fully Paid          n                 medical        Medical expenses
## 8813   Fully Paid          n             credit_card Credit card refinancing
## 8815   Fully Paid          n                   other                   Other
## 8827   Fully Paid          n        home_improvement        Home improvement
## 8829   Fully Paid          n      debt_consolidation      Debt consolidation
## 8833  Charged Off          n          small_business                Business
## 8836   Fully Paid          n      debt_consolidation      Debt consolidation
## 8842   Fully Paid          n        home_improvement        Home improvement
## 8849   Fully Paid          n      debt_consolidation      Debt consolidation
## 8863   Fully Paid          n                   other                   Other
## 8879   Fully Paid          n        home_improvement        Home improvement
## 8886   Fully Paid          n      debt_consolidation      Debt consolidation
## 8889   Fully Paid          n                   house             Home buying
## 8930  Charged Off          n             credit_card Credit card refinancing
## 8934   Fully Paid          n        home_improvement        Home improvement
## 8936   Fully Paid          n      debt_consolidation      Debt consolidation
## 8940   Fully Paid          n             credit_card Credit card refinancing
## 8949   Fully Paid          n             credit_card Credit card refinancing
## 8952   Fully Paid          n      debt_consolidation      Debt consolidation
## 8954   Fully Paid          n      debt_consolidation      Debt consolidation
## 8996   Fully Paid          n                 medical        Medical expenses
## 9028  Charged Off          n                   other                   Other
## 9029  Charged Off          n        home_improvement        Home improvement
## 9039   Fully Paid          n             credit_card Credit card refinancing
## 9043   Fully Paid          n                   other                   Other
## 9044   Fully Paid          n        home_improvement        Home improvement
## 9046   Fully Paid          n             credit_card Credit card refinancing
## 9062   Fully Paid          n      debt_consolidation      Debt consolidation
## 9065   Fully Paid          n        home_improvement        Home improvement
## 9144   Fully Paid          n                   other                   Other
## 9172   Fully Paid          n      debt_consolidation      Debt consolidation
## 9184   Fully Paid          n        home_improvement        Home improvement
## 9201   Fully Paid          n      debt_consolidation      Debt consolidation
## 9213   Fully Paid          n        home_improvement        Home improvement
## 9224   Fully Paid          n      debt_consolidation      Debt consolidation
## 9233   Fully Paid          n             credit_card Credit card refinancing
## 9239   Fully Paid          n      debt_consolidation      Debt consolidation
## 9256   Fully Paid          n      debt_consolidation      Debt consolidation
## 9260   Fully Paid          n      debt_consolidation      Debt consolidation
## 9272  Charged Off          n      debt_consolidation      Debt consolidation
## 9279  Charged Off          n                 medical        Medical expenses
## 9290   Fully Paid          n      debt_consolidation      Debt consolidation
## 9302   Fully Paid          n      debt_consolidation      Debt consolidation
## 9308   Fully Paid          n             credit_card Credit card refinancing
## 9315   Fully Paid          n      debt_consolidation      Debt consolidation
## 9320  Charged Off          n          major_purchase          Major purchase
## 9341   Fully Paid          n             credit_card Credit card refinancing
## 9379   Fully Paid          n      debt_consolidation      Debt consolidation
## 9400   Fully Paid          n          major_purchase          Major purchase
## 9418   Fully Paid          n      debt_consolidation      Debt consolidation
## 9437  Charged Off          n      debt_consolidation      Debt consolidation
## 9477   Fully Paid          n      debt_consolidation      Debt consolidation
## 9495   Fully Paid          n                 medical        Medical expenses
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## 9496  Charged Off          n                   other                   Other
## 9505   Fully Paid          n             credit_card Credit card refinancing
## 9532   Fully Paid          n      debt_consolidation      Debt consolidation
## 9538   Fully Paid          n          small_business               Business
## 9583   Fully Paid          n             credit_card Credit card refinancing
## 9585   Fully Paid          n        home_improvement        Home improvement
## 9597  Charged Off          n        home_improvement        Home improvement
## 9608   Fully Paid          n      debt_consolidation      Debt consolidation
## 9620   Fully Paid          n      debt_consolidation      Debt consolidation
## 9661   Fully Paid          n             credit_card Credit card refinancing
## 9687   Fully Paid          n                   other                   Other
## 9693   Fully Paid          n             credit_card Credit card refinancing
## 9703   Fully Paid          n                   other                   Other
## 9709   Fully Paid          n                   other                   Other
## 9726   Fully Paid          n                   other                   Other
## 9805  Charged Off          n          small_business               Business
## 9806   Fully Paid          n      debt_consolidation      Debt consolidation
## 9809   Fully Paid          n        home_improvement        Home improvement
## 9824   Fully Paid          n      debt_consolidation      Debt consolidation
## 9826   Fully Paid          n      debt_consolidation      Debt consolidation
## 9837   Fully Paid          n      debt_consolidation      Debt consolidation
## 9841   Fully Paid          n      debt_consolidation      Debt consolidation
## 9844   Fully Paid          n             credit_card Credit card refinancing
## 9849   Fully Paid          n      debt_consolidation      Debt consolidation
## 9912   Fully Paid          n      debt_consolidation      Debt consolidation
## 9925   Fully Paid          n      debt_consolidation      Debt consolidation
## 9926   Fully Paid          n             credit_card Credit card refinancing
## 9933   Fully Paid          n      debt_consolidation      Debt consolidation
## 9937  Charged Off          n      debt_consolidation      Debt consolidation
## 9941   Fully Paid          n             credit_card Credit card refinancing
## 9951   Fully Paid          n      debt_consolidation      Debt consolidation
## 9960   Fully Paid          n      debt_consolidation      Debt consolidation
## 9987   Fully Paid          n      debt_consolidation      Debt consolidation
## 9997   Fully Paid          n      debt_consolidation      Debt consolidation
## 10003 Charged Off          n             credit_card Credit card refinancing
## 10010  Fully Paid          n      debt_consolidation      Debt consolidation
## 10011 Charged Off          n        home_improvement        Home improvement
## 10047  Fully Paid          n      debt_consolidation      Debt consolidation
## 10050  Fully Paid          n          major_purchase          Major purchase
## 10093  Fully Paid          n      debt_consolidation      Debt consolidation
## 10104  Fully Paid          n      debt_consolidation      Debt consolidation
## 10111 Charged Off          n      debt_consolidation      Debt consolidation
## 10131  Fully Paid          n             credit_card Credit card refinancing
## 10137  Fully Paid          n          major_purchase          Major purchase
## 10144  Fully Paid          n             credit_card Credit card refinancing
## 10169  Fully Paid          n             credit_card Credit card refinancing
## 10172  Fully Paid          n      debt_consolidation      Debt consolidation
## 10176  Fully Paid          n        home_improvement        Home improvement
## 10184  Fully Paid          n      debt_consolidation      Debt consolidation
## 10202  Fully Paid          n      debt_consolidation      Debt consolidation
## 10209  Fully Paid          n      debt_consolidation      Debt consolidation
## 10215  Fully Paid          n                   other                   Other
## 10242  Fully Paid          n      debt_consolidation      Debt consolidation
## 10248  Fully Paid          n      debt_consolidation      Debt consolidation
## 10267  Fully Paid          n      debt_consolidation      Debt consolidation
## 10275  Fully Paid          n        home_improvement        Home improvement
## 10276  Fully Paid          n      debt_consolidation      Debt consolidation
##       zip_code addr_state   dti delinq_2yrs earliest_cr_line inq_last_6mths
## 35       802xx         CO 22.39           2         Apr-2004              1
## 54       750xx         TX 32.56           0         Feb-2001              0
## 59       483xx         MI 35.56           0         Aug-2009              1
## 60       985xx         WA 18.58           0         Sep-2004              1
## 71       322xx         FL  7.13           0         Nov-1998              0
## 73       657xx         MO 10.86           0         May-2000              0
## 74       182xx         PA 14.45           6         Nov-2007              0
## 90       151xx         PA 16.84           0         Jun-2002              0
## 101      995xx         AK 12.97           1         Apr-2007              0
## 124      280xx         NC 26.41           2         Sep-2005              0
## 137      996xx         AK 15.73           1         Nov-1992              0
## 142      217xx         MD 12.88           0         Apr-2006              0
## 143      921xx         CA 22.00           0         Dec-1999              0
## 160      075xx         NJ 15.04           1         Jan-2007              2
## 161      705xx         LA 16.87           0         May-2007              0
## 165      800xx         CO 31.62           0         May-2000              0
## 174      980xx         WA 12.15           0         Jun-2000              2
## 192      210xx         MD 12.70           1         Mar-1996              0
## 193      481xx         MI 29.33           0         May-1996              1
## 206      451xx         OH 25.83           0         Nov-2000              0
## 212      594xx         MT  3.79           1         Jun-1996              1
## 218      731xx         OK 25.98           0         Jun-2003              1
## 229      498xx         MI 15.31           0         Jul-2001              3
## 232      410xx         KY 14.52           0         Nov-2007              0
## 234      773xx         TX 15.33           0         Apr-2009              0
## 236      968xx         HI 13.58           0         Jan-2008              2
## 246      604xx         IL  8.25           0         Aug-2003              2
## 247      114xx         NY  9.54           1         Apr-1999              0
## 262      120xx         NY 17.73           1         Apr-2002              2
## 285      463xx         IN 10.04           0         Nov-2001              0
## 296      207xx         MD  8.42           0         Oct-2005              0
## 302      339xx         FL 22.48           0         Apr-2006              0
## 304      125xx         NY 30.07           0         Jun-2004              1
## 324      330xx         FL 22.11           1         Aug-2002              0
## 326      331xx         FL 12.35           0         Jan-2007              0
## 328      925xx         CA 12.26           0         Mar-2010              0
## 329      612xx         IL 11.37           0         Nov-2008              1
## 330      890xx         NV 24.87           0         Nov-1993              0
## 338      194xx         PA  8.21           0         Aug-2005              0
## 353      480xx         MI 15.79           0         Jan-2002              1
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## 357      770xx         TX 38.08          0         Oct-2000             0
## 361      989xx         WA 13.88          0         Aug-2010             2
## 370      950xx         CA 10.21          0         Nov-2000             1
## 377      970xx         OR 17.17          2         Jul-2003             0
## 382      432xx         OH 13.24          1         Nov-2004             2
## 410      794xx         TX 27.97          1         Dec-1989             0
## 428      920xx         CA  9.52          0         Jun-1996             0
## 450      750xx         TX 12.27          0         Aug-2001             0
## 465      347xx         FL 30.20          0         Oct-1997             0
## 466      112xx         NY 14.53          0         Dec-1999             0
## 471      750xx         TX 16.30          2         Dec-1998             0
## 479      349xx         FL 12.63          0         Feb-2003             0
## 485      844xx         UT 11.60          1         Feb-2003             1
## 491      018xx         MA 23.03          0         Sep-2001             0
## 496      806xx         CO  8.46          2         Apr-2003             1
## 497      225xx         VA 26.07          0         Feb-2007             0
## 499      465xx         IN 39.36          1         Nov-2003             0
## 548      061xx         CT 38.29          2         Jun-2002             0
## 558      461xx         IN 17.35          0         Jun-2010             2
## 570      346xx         FL 28.23          0         Jun-2001             1
## 577      151xx         PA 16.03          0         Jul-2006             0
## 579      720xx         AR  8.77          0         May-1991             2
## 608      922xx         CA  6.59          0         Jul-1998             1
## 626      235xx         VA  5.79          0         Sep-2006             2
## 634      113xx         NY 25.90          0         Nov-2010             1
## 636      910xx         CA 24.38          0         Sep-2006             0
## 641      945xx         CA 20.94          0         Apr-2004             1
## 658      934xx         CA  6.78          0         Sep-2009             0
## 660      906xx         CA  9.42          4         Feb-1982             0
## 670      782xx         TX 28.28          1         Aug-2004             0
## 674      973xx         OR 10.07          0         Aug-2004             0
## 689      805xx         CO 21.29          0         Aug-2006             0
## 696      330xx         FL  6.09          0         Oct-2004             0
## 705      113xx         NY  7.34          1         Aug-2000             0
## 713      247xx         WV 16.98          1         Oct-2003             0
## 752      289xx         NC 24.44          2         Sep-1999             0
## 790      982xx         WA 15.37          0         Jun-2003             1
## 799      460xx         IN 11.22          0         Aug-2006             0
## 819      604xx         IL 10.42          0         May-2006             0
## 840      762xx         TX 19.72          0         Mar-2007             2
## 844      190xx         PA 14.31          0         Mar-1994             2
## 845      680xx         NE 36.83          0         Mar-2005             0
## 855      984xx         WA 31.30          1         Feb-2005             0
## 866      951xx         CA 11.35          0         Dec-1989             0
## 869      941xx         CA  8.77          0         Dec-2006             2
## 899      296xx         SC 30.00          0         Jun-2010             0
## 904      111xx         NY  4.52          0         Jan-2003             0
## 917      466xx         IN 21.92          0         Oct-1995             1
## 940      773xx         TX 21.67          0         Apr-2006             2
## 957      750xx         TX 17.76          0         Dec-2002             0
## 960      287xx         NC 11.64          0         Oct-2004             0
## 993      765xx         TX 27.84          2         Jan-2002             2
## 998      300xx         GA 15.23          1         Dec-1990             0
## 1025     074xx         NJ 21.18          1         Oct-2004             0
## 1056     992xx         WA  8.40          0         May-1992             1
## 1063     282xx         NC 24.44          0         May-2010             4
## 1083     026xx         MA 29.85          1         Sep-2005             0
## 1105     114xx         NY 26.67          1         Aug-2001             0
## 1117     271xx         NC 24.80          0         Aug-1983             2
## 1118     706xx         LA 13.98          0         Apr-2009             0
## 1146     921xx         CA 17.01          0         Mar-1991             0
## 1170     469xx         IN 28.19          1         Feb-2007             0
## 1227     359xx         AL 13.23          0         Aug-2006             0
## 1263     346xx         FL  7.10          0         Jul-2007             0
## 1264     080xx         NJ 20.07          1         Nov-1968             1
## 1273     672xx         KS  9.17          1         Nov-1976             0
## 1285     923xx         CA 26.68          0         Jan-1990             0
## 1319     721xx         AR 13.64          0         Jul-1972             0
## 1337     985xx         WA  7.03          0         Mar-2003             1
## 1349     585xx         ND 11.84          0         Feb-2004             0
## 1351     920xx         CA 11.95          0         Dec-2001             1
## 1356     117xx         NY 12.70          2         Aug-2008             1
## 1386     760xx         TX 37.76          0         Jun-2003             1
## 1388     113xx         NY 21.93          0         Aug-1990             0
## 1390     191xx         PA 17.43          0         Dec-1970             0
## 1410     782xx         TX 23.95          0         Sep-1989             1
## 1416     992xx         WA 16.27          0         Jan-2003             0
## 1434     919xx         CA  5.05          0         Dec-1996             0
## 1439     403xx         KY 12.18          1         Jan-2009             1
## 1449     210xx         MD 23.54          0         Aug-1999             2
## 1459     105xx         NY  8.47          0         Sep-2006             1
## 1462     321xx         FL 35.63          4         Jul-2005             0
## 1480     347xx         FL 20.37          2         Jul-2004             1
## 1484     900xx         CA 15.57          2         Oct-2007             0
## 1487     978xx         OR 21.11          0         Jun-2003             0
## 1527     112xx         NY 18.30          0         Jul-2012             1
## 1529     471xx         IN  6.87          0         Nov-2002             2
## 1530     712xx         LA 12.28          0         Mar-2007             1
## 1545     076xx         NJ  4.06          1         Aug-1988             0
## 1567     439xx         OH 17.01          3         Feb-2005             1
## 1597     935xx         CA  3.50          2         Sep-1995             2
## 1601     087xx         NJ 10.19          1         Aug-2002             1
## 1623     071xx         NJ  2.47          0         Sep-2005             0
## 1633     364xx         AL 17.93          1         Jul-2005             0
## 1636     376xx         TN 23.80          1         Dec-1990             0
## 1640     953xx         CA  4.23          1         Mar-1988             1
## 1645     493xx         MI 23.70          0         Jul-2002             1
## 1650     565xx         MN 21.70          0         Dec-1999             0
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## 1671     280xx         NC  9.34          0         Nov-2004             1
## 1672     928xx         CA 31.10          1         Sep-2005             0
## 1696     064xx         CT  7.47          1         Jan-2007             2
## 1704     232xx         VA 13.97          0         Aug-1994             0
## 1721     462xx         IN 15.68          2         Sep-1993             0
## 1724     721xx         AR 31.70          0         Apr-2008             0
## 1728     770xx         TX 14.31          1         Nov-1988             0
## 1730     282xx         NC 13.08          0         Nov-2003             0
## 1734     775xx         TX 11.78          0         Nov-2004             0
## 1752     117xx         NY 22.22          0         Sep-1999             2
## 1771     923xx         CA 17.62          0         Dec-2003             0
## 1816     956xx         CA 14.35          0         Dec-1997             2
## 1846     145xx         NY 15.73          0         May-2003             0
## 1850     871xx         NM 19.57          1         Sep-2012             1
## 1853     388xx         MS 23.07          0         Nov-2005             3
## 1856     481xx         MI 16.44          0         Feb-2004             0
## 1857     296xx         SC  8.22          0         Aug-2000             1
## 1862     314xx         GA 12.15          1         Aug-1990             0
## 1865     075xx         NJ 11.38          0         Aug-2001             1
## 1866     337xx         FL 16.40          1         Sep-1997             0
## 1867     921xx         CA 26.25          0         Nov-1997             0
## 1896     931xx         CA 14.71          0         Jun-1996             1
## 1905     760xx         TX 21.19          0         Oct-2010             0
## 1907     787xx         TX 22.19          0         Jun-2006             0
## 1922     844xx         UT 17.08          0         Sep-2005             0
## 1930     953xx         CA 18.73          0         May-2010             0
## 1933     117xx         NY  4.19          4         Jun-1993             1
## 1952     913xx         CA 16.39          0         Sep-1983             1
## 1956     334xx         FL 15.12          0         May-2007             0
## 1961     063xx         CT 19.81          0         Apr-2001             1
## 1963     907xx         CA 16.68          0         Apr-2005             1
## 2004     705xx         LA  9.58          0         Feb-2000             0
## 2012     730xx         OK 19.06          1         Apr-1995             0
## 2017     231xx         VA 11.58          1         Jun-2007             0
## 2019     497xx         MI 16.00          0         Mar-1992             0
## 2026     182xx         PA 13.17          0         May-1993             2
## 2027     347xx         FL 10.12          0         Mar-2005             0
## 2039     117xx         NY  8.99          0         Feb-2002             0
## 2041     301xx         GA 19.87          0         Nov-2005             0
## 2051     852xx         AZ  9.12          0         Oct-1998             1
## 2060     207xx         MD 15.55          2         Aug-2006             0
## 2065     890xx         NV 15.39          1         Nov-2009             0
## 2073     395xx         MS 18.50          0         Jan-1993             0
## 2105     605xx         IL 20.61          1         Aug-1994             2
## 2117     731xx         OK 17.70          0         Mar-1993             0
## 2128     760xx         TX 16.60          0         Dec-1982             0
## 2129     322xx         FL 27.49          0         Jul-2007             0
## 2136     217xx         MD  5.52          0         Feb-2008             1
## 2137     452xx         OH 10.96          0         Oct-1999             1
## 2148     254xx         WV 16.11          1         Mar-2005             0
## 2155     980xx         WA  7.90          1         Dec-2001             0
## 2168     183xx         PA  4.73          0         Nov-2003             0
## 2197     553xx         MN  9.09          0         Nov-2000             0
## 2215     331xx         FL 11.95          3         Sep-1991             0
## 2224     191xx         PA 19.23          3         May-2004             0
## 2234     731xx         OK 18.58          0         Sep-2006             0
## 2255     973xx         OR 12.47          0         Jun-2004             2
## 2258     100xx         NY 16.21          0         Sep-2007             0
## 2286     337xx         FL  7.11          2         Jun-2004             1
## 2296     661xx         KS 26.89          0         Jan-1999             1
## 2329     286xx         NC 11.46          2         Aug-2007             2
## 2342     804xx         CO 16.51          0         May-1993             0
## 2347     125xx         NY 25.69          1         Oct-1995             3
## 2357     980xx         WA 12.20          1         Jun-2006             0
## 2377     190xx         PA 19.60          0         Sep-1995             0
## 2393     774xx         TX 14.97          0         Apr-2000             1
## 2396     863xx         AZ 14.40          5         Dec-2001             0
## 2399     142xx         NY 14.16          1         Oct-2011             0
## 2405     760xx         TX 12.71          0         Nov-2000             1
## 2420     294xx         SC 13.44          0         Sep-1989             1
## 2425     750xx         TX 17.32          1         Apr-2005             0
## 2429     958xx         CA 14.11          2         Dec-2005             1
## 2439     770xx         TX 22.85          4         Mar-2011             0
## 2447     330xx         FL 12.10          0         Mar-2007             1
## 2449     687xx         NE 11.76          1         Jan-2000             0
## 2457     282xx         NC 16.61          0         Aug-2005             0
## 2478     100xx         NY 14.94          1         Jul-1990             0
## 2480     352xx         AL 23.50          0         Apr-1994             0
## 2492     921xx         CA 18.90          0         Feb-1995             1
## 2494     275xx         NC 30.40          0         Jul-1997             1
## 2504     750xx         TX 21.50          0         Jul-2007             0
## 2510     626xx         IL 30.61          0         Apr-2001             2
## 2514     750xx         TX  8.42          0         Oct-2004             0
## 2516     902xx         CA 24.88          1         Oct-2001             0
## 2522     928xx         CA  8.14          0         May-1994             1
## 2529     141xx         NY 24.91          1         Oct-1995             1
## 2535     770xx         TX 12.70          0         Nov-2010             2
## 2545     014xx         MA  6.16          1         Aug-2003             0
## 2549     335xx         FL 18.34          0         Jan-2003             1
## 2593     982xx         WA 10.11          0         Dec-2004             0
## 2598     302xx         GA 10.92          0         May-2008             2
## 2604     945xx         CA 31.31          2         May-1998             2
## 2628     972xx         OR 13.44          2         Oct-2002             1
## 2631     730xx         OK 24.07          0         Nov-2006             2
## 2661     244xx         VA 23.35          1         Jun-1985             2
## 2673     604xx         IL 14.31          0         Dec-2005             0
## 2692     913xx         CA 13.23          0         Mar-2001             0
## 2707     433xx         OH  9.95          0         Aug-1994             0
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## 2714     197xx         DE 17.72           1         Feb-2000             1
## 2715     737xx         OK 27.73           0         Jan-2004             0
## 2761     752xx         TX 24.10           0         Jun-2007             0
## 2772     531xx         WI 21.97           0         Mar-2006             0
## 2788     211xx         MA 32.75           0         Oct-2003             2
## 2789     320xx         FL 19.97           0         Jul-1995             0
## 2820     980xx         WA 34.19           1         Feb-2006             0
## 2840     329xx         FL 12.55           0         Jan-2002             1
## 2856     275xx         NC  7.23           4         May-2000             2
## 2858     760xx         TX 15.08           0         Jun-2002             1
## 2861     476xx         IN 23.50           1         Oct-2003             2
## 2872     338xx         FL 21.37           0         May-2006             0
## 2877     800xx         CO 28.26           0         Jun-2006             0
## 2878     765xx         TX 18.13           0         Aug-1985             1
## 2879     432xx         OH 10.43           0         Sep-2006             1
## 2893     334xx         FL 11.91           0         Mar-2008             0
## 2913     322xx         FL  8.18           0         Aug-2004             0
## 2915     917xx         CA 13.67           0         Apr-1995             0
## 2918     212xx         MD 20.77           0         Jan-1989             0
## 2940     481xx         MI  9.18           0         Jul-2003             3
## 2942     085xx         NJ 18.81           1         Jun-1985             0
## 2954     335xx         FL 23.86           0         Mar-2006             0
## 2976     760xx         TX 18.06           0         Apr-2013             0
## 2977     328xx         FL 10.78           0         Jan-1997             0
## 2978     841xx         UT 17.57           4         May-1996             0
## 2982     365xx         AL 19.52           1         Apr-1997             1
## 3002     601xx         IL 19.03           0         Jan-2004             1
## 3012     774xx         TX 20.61           0         Oct-2004             1
## 3017     978xx         OR 36.33           0         Sep-1995             1
## 3018     108xx         NY 23.11           0         May-2010             1
## 3021     752xx         TX 23.00           1         Jun-2003             1
## 3034     764xx         TX 16.28           1         Apr-1980             0
## 3045     981xx         WA 11.52           1         Mar-2001             0
## 3050     957xx         CA 19.25           0         Apr-1982             1
## 3057     801xx         CO  8.92           1         Mar-2014             0
## 3071     430xx         OH  9.79           4         Jul-1989             0
## 3104     329xx         FL 26.12           1         Aug-2002             0
## 3112     021xx         MA 19.36           0         Aug-1998             1
## 3124     671xx         KS 24.32           0         Apr-2006             1
## 3150     945xx         CA  6.08           0         Jun-1983             0
## 3160     310xx         GA 24.54           2         Feb-2007             2
## 3165     209xx         MD  5.08           1         Aug-2001             1
## 3172     181xx         PA 20.98           0         Dec-2002             1
## 3177     834xx         ID 18.04           0         Dec-2004             0
## 3213     100xx         NY 16.53           0         Jul-2006             0
## 3222     907xx         CA 13.13           1         Jan-2003             1
## 3237     191xx         PA 14.88           3         Jun-2005             0
## 3252     601xx         IL 21.21           0         Jan-1989             1
## 3257     114xx         NY 12.87           0         Jan-2002             3
## 3258     361xx         AL 24.80           0         Aug-2007             1
## 3265     015xx         MA 14.66           0         Jul-2001             1
## 3276     930xx         CA 14.16           1         Oct-1989             1
## 3289     857xx         AZ 10.63           0         Mar-2000             0
## 3307     156xx         PA 27.62           0         Sep-2004             0
## 3312     945xx         CA  5.65           1         Sep-2007             0
## 3317     770xx         TX 14.38           0         Feb-1986             0
## 3333     402xx         KY 15.02           0         Jun-1989             0
## 3366     799xx         TX 31.37           3         Sep-1998             2
## 3383     919xx         CA 16.65           0         Nov-1993             0
## 3419     641xx         MO 17.47           0         Apr-2007             0
## 3421     368xx         AL 19.83           0         Dec-2001             3
## 3422     300xx         GA 18.62           0         Sep-2003             0
## 3429     956xx         CA 12.39           0         Jul-1990             0
## 3433     070xx         NJ 20.98           1         Mar-1994             1
## 3449     465xx         IN 24.64           1         Nov-1989             0
## 3458     331xx         FL 15.89           1         Jul-2005             0
## 3467     436xx         OH  7.23           1         Jul-1996             2
## 3471     028xx         RI 17.27           0         Jul-2007             0
## 3480     390xx         MS 21.09           1         Apr-2003             1
## 3482     330xx         FL  1.11           0         Nov-2004             0
## 3502     342xx         FL  7.95           0         Jul-2005             0
## 3504     112xx         NY 20.00           1         May-1996             1
## 3507     701xx         LA 18.98           0         Jul-2007             0
## 3536     313xx         GA 18.06           3         Dec-2000             0
## 3538     334xx         FL 26.72           1         Mar-2009             0
## 3542     210xx         MD 20.05           0         Jan-2007             0
## 3547     275xx         NC  8.96           4         Mar-2002             1
## 3553     276xx         NC 14.81           3         Aug-2005             0
## 3567     294xx         SC 22.71           1         Jun-2007             0
## 3590     322xx         FL 13.88           0         Jun-1999             1
## 3607     601xx         IL 20.43           0         Feb-1992             0
## 3623     077xx         NJ 21.11           0         Dec-2007             2
## 3635     773xx         TX 37.93           0         Oct-2000             0
## 3655     069xx         CT 11.72           1         Mar-2003             1
## 3684     494xx         MI 12.74           0         Apr-2011             0
## 3687     356xx         AL 15.75           0         May-1997             0
## 3688     900xx         CA  5.80           0         Jun-1988             0
## 3699     891xx         NV  9.65           0         Aug-1999             3
## 3701     235xx         VA 12.25           1         Mar-2007             0
## 3712     023xx         MA  8.51           3         Feb-1996             1
## 3730     228xx         VA  4.00           0         Jul-2003             1
## 3749     926xx         CA 16.31           0         Nov-2004             0
## 3756     553xx         MN 30.16           0         Aug-1991             0
## 3758     010xx         MA 18.00           0         Dec-2001             1
## 3771     956xx         CA  2.46           0         Mar-2003             0
## 3785     492xx         MI  7.38           0         Mar-2006             1
## 3788     019xx         MA  9.60           0         Jan-2005             0
## 3852     553xx         MN 13.99           0         Jul-2005             1
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## 3857     840xx         UT 17.36           0         Jul-2009             0
## 3865     786xx         TX 14.57           0         Jul-2009             0
## 3889     986xx         WA  4.88           0         Sep-1997             0
## 3892     945xx         CA  7.70           0         Dec-2000             3
## 3901     984xx         WA 15.84           1         Mar-1998             0
## 3917     150xx         PA 23.31           2         Aug-1998             0
## 3924     220xx         VA 16.31           1         Aug-2011             0
## 3938     681xx         NE 14.63           0         Aug-2002             3
## 3947     601xx         IL 23.84           0         Jul-2003             0
## 3949     751xx         TX 14.72           1         May-2004             0
## 3959     604xx         IL  8.24           0         Apr-2004             2
## 3977     546xx         WI 32.53           0         Sep-2003             1
## 3990     074xx         NJ 21.94           1         Mar-1994             0
## 4001     113xx         NY 11.18           0         Jun-2010             0
## 4003     600xx         IL 13.81           1         Aug-1999             0
## 4016     390xx         MS 25.05           0         Apr-1997             2
## 4017     945xx         CA  7.66           1         Mar-2011             1
## 4021     850xx         AZ 14.32           0         Sep-2000             0
## 4022     685xx         NE 38.16           0         Jul-1995             0
## 4026     194xx         PA 12.21           0         Feb-1992             1
## 4036     554xx         MN 20.99           1         Mar-1997             1
## 4049     840xx         UT 23.71           0         Jun-1997             0
## 4054     923xx         CA 12.39           2         Feb-2006             1
## 4093     307xx         GA 28.73           2         Jul-2007             0
## 4099     925xx         CA  5.03           0         Mar-2004             2
## 4104     973xx         OR 15.38           0         Sep-2005             0
## 4107     310xx         GA 31.30           0         Jan-2006             0
## 4110     030xx         NH 24.38           0         Oct-1987             0
## 4122     021xx         MA 27.13           0         Oct-1996             0
## 4128     338xx         FL 20.50           1         Jun-2007             0
## 4131     062xx         CT 39.24           0         Oct-1991             0
## 4133     057xx         VT 12.72           0         May-1995             0
## 4135     704xx         LA 20.52           0         May-2006             2
## 4151     657xx         MO 16.34           1         Sep-2008             0
## 4153     106xx         NY 12.10           1         Aug-1988             2
## 4157     220xx         VA 14.09           0         Aug-2003             1
## 4233     062xx         CT  5.15           0         Mar-2004             0
## 4237     453xx         OH 20.72           4         Aug-2009             1
## 4254     908xx         CA 18.25           0         Oct-2002             2
## 4258     296xx         SC 12.95           0         Jan-2013             1
## 4259     011xx         MA 16.22           0         May-2006             2
## 4261     935xx         CA 18.86           0         Dec-1994             0
## 4265     751xx         TX 15.74           0         Jun-2005             0
## 4269     530xx         WI  9.39           1         Jan-1997             0
## 4297     601xx         IL 24.63           0         Apr-2006             0
## 4307     926xx         CA 15.70           0         Feb-1993             0
## 4341     365xx         AL 10.62           0         Oct-1999             1
## 4342     933xx         CA 21.36           0         May-2000             0
## 4351     301xx         GA  7.20           1         Mar-1987             0
## 4352     233xx         VA 14.98           1         Mar-2003             0
## 4376     126xx         NY  8.43           2         Jun-2003             1
## 4395     752xx         TX  9.80           3         Jun-2003             0
## 4412     913xx         CA 19.67           2         Jun-2002             0
## 4414     703xx         LA 16.80           1         May-1996             0
## 4448     582xx         ND 28.14           0         Sep-2003             0
## 4466     660xx         KS 13.96           0         Aug-2007             0
## 4476     605xx         IL 34.68           0         Sep-1998             0
## 4477     581xx         ND  7.79           0         Dec-2007             0
## 4498     212xx         MD 24.61           0         May-2005             0
## 4501     111xx         NY 12.82           0         Aug-1986             0
## 4506     334xx         FL 15.89           0         Oct-1991             1
## 4517     480xx         MI 12.42           0         Sep-2003             0
## 4524     238xx         VA 22.67           0         Aug-2012             0
## 4532     497xx         MI 17.78           0         Sep-2012             3
## 4539     850xx         AZ 18.71           1         Mar-2006             0
## 4552     972xx         OR  6.94           0         Mar-2006             0
## 4565     877xx         NM 17.44           0         Nov-1997             0
## 4580     688xx         NE  8.18           0         May-2006             0
## 4584     300xx         GA 28.99           2         May-2007             2
## 4586     843xx         UT 10.35           0         Dec-1994             0
## 4611     760xx         TX 13.01           1         Jul-2003             0
## 4632     770xx         TX 12.38           0         Dec-2003             1
## 4682     243xx         VA 24.61           0         Nov-2007             0
## 4688     551xx         MN 27.94           0         Oct-2001             2
## 4692     926xx         CA 13.38           1         Feb-2007             1
## 4712     041xx         ME 23.01           0         Feb-2001             0
## 4743     950xx         CA  8.26           0         May-2005             0
## 4758     904xx         CA  2.14           0         May-2008             1
## 4769     897xx         NV 14.67           0         Feb-2006             1
## 4774     080xx         NJ 22.19           0         Apr-2002             0
## 4775     760xx         TX 38.42           1         Jan-1987             0
## 4786     327xx         FL 11.11           4         Jul-2006             0
## 4791     479xx         IN 10.99           2         Apr-2000             1
## 4792     726xx         AR 21.98           1         Oct-1985             0
## 4797     178xx         PA 17.45           0         Jun-2004             2
## 4801     295xx         SC 14.18           0         May-2005             1
## 4816     453xx         OH 35.76           0         Dec-2006             0
## 4818     891xx         NV 25.90           2         May-1994             1
## 4832     328xx         FL 12.39           0         Dec-2003             0
## 4834     221xx         VA 25.45           1         Mar-1999             0
## 4880     853xx         AZ 35.03           3         Jun-2006             0
## 4921     210xx         MD  5.66           0         Nov-1985             1
## 4922     231xx         VA 13.34           0         May-1994             1
## 4934     492xx         MI 11.04           1         Jan-2003             1
## 4951     960xx         CA  5.88           0         Jun-2013             1
## 4958     750xx         TX 13.40           1         Nov-2008             2
## 4985     142xx         NY 27.15           0         Nov-1999             0
## 5010     489xx         MI  8.55           0         Oct-2007             0
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## 5021     972xx         OR 20.36           3         Dec-2004             1
## 5035     130xx         NY 13.57           0         Oct-1999             0
## 5036     856xx         AZ 16.75           0         Nov-2003             0
## 5038     112xx         NY  0.19           1         Nov-2007             0
## 5059     402xx         KY 17.09           0         Mar-1999             0
## 5060     281xx         NC  3.59           1         Aug-1990             1
## 5070     363xx         AL  7.95           0         Feb-2009             2
## 5103     485xx         MI 10.33           0         Feb-2005             0
## 5134     808xx         CO 23.78           0         Aug-2000             0
## 5136     852xx         AZ 12.09           1         Apr-2003             0
## 5155     088xx         NJ 19.13           0         Apr-1994             2
## 5157     327xx         FL 18.28           0         Jun-1992             0
## 5162     309xx         GA  8.07           0         Jul-2004             3
## 5163     967xx         HI 19.81           0         Nov-1979             0
## 5168     481xx         MI 38.13           1         May-2006             0
## 5169     925xx         CA 26.90           0         Aug-2006             1
## 5177     244xx         VA 17.94           0         Jul-1999             1
## 5184     212xx         MD 18.35           0         Aug-1978             1
## 5186     758xx         TX 21.86           0         Oct-2003             2
## 5218     286xx         NC 18.68           0         Jan-2002             0
## 5220     125xx         NY 15.62           0         Jan-2008             0
## 5221     339xx         FL  9.97           1         Feb-2008             0
## 5244     953xx         CA 15.80           0         Mar-1997             3
## 5255     553xx         MN 19.66           0         Jun-2003             0
## 5278     773xx         TX 11.85           0         Nov-1992             1
## 5295     286xx         NC 13.70           0         Jan-2005             1
## 5317     652xx         MO 14.78           1         Nov-2009             1
## 5325     467xx         IN 26.10           1         Apr-2009             0
## 5345     285xx         NC 21.08           1         Oct-2006             2
## 5348     300xx         GA 13.55           0         Dec-1991             0
## 5354     327xx         FL 16.87           0         Feb-2006             1
## 5356     112xx         NY  9.87           0         Nov-2009             0
## 5358     782xx         TX 39.42           0         Aug-1991             0
## 5365     802xx         CO 27.28           0         Dec-2004             2
## 5379     900xx         CA 25.13           0         Jul-2007             0
## 5390     344xx         FL 13.39           1         Nov-1983             0
## 5406     107xx         NY  4.59           0         Sep-2007             2
## 5416     302xx         GA 33.57           1         Mar-1984             0
## 5431     919xx         CA 16.38           0         Sep-2010             0
## 5442     864xx         AZ 22.10           0         Mar-2006             1
## 5467     242xx         VA 24.35           0         Oct-2005             0
## 5494     935xx         CA 10.46           0         Feb-2005             0
## 5554     681xx         NE 11.67           0         Aug-2006             0
## 5556     021xx         MA 21.52           0         Mar-2014             0
## 5565     775xx         TX  7.45           1         Sep-1996             0
## 5566     945xx         CA 16.63           0         Oct-2002             0
## 5568     951xx         CA  4.53           0         Jan-2007             2
## 5574     930xx         CA 18.75           0         Feb-1996             0
## 5597     707xx         LA 14.64           1         Dec-2009             0
## 5621     342xx         FL 34.54           0         Nov-2006             1
## 5623     941xx         CA 17.96           0         Feb-1999             0
## 5643     334xx         FL  8.54           0         May-2004             1
## 5664     379xx         TN 16.12           1         Nov-1992             0
## 5666     107xx         NY 15.98           1         Aug-2012             2
## 5720     956xx         CA 20.52           0         Dec-2001             0
## 5731     249xx         WV 11.61           0         Nov-1983             1
## 5733     322xx         FL 32.13           0         Jan-2003             1
## 5734     481xx         MI 24.91           0         Jul-1997             0
## 5749     297xx         SC 29.39           1         Oct-2007             0
## 5759     230xx         VA 23.03           0         Apr-1986             2
## 5760     339xx         FL 16.42           0         Jun-2006             2
## 5784     606xx         IL 12.54           0         Sep-2006             1
## 5786     196xx         PA  7.81           4         Sep-2004             2
## 5794     337xx         FL 20.69           0         Jul-2004             0
## 5806     921xx         CA 39.10           0         Nov-1994             0
## 5809     339xx         FL  8.02           0         Jul-2003             1
## 5827     114xx         NY 25.07           1         Nov-1988             0
## 5848     018xx         MA 20.28           2         Jun-2008             0
## 5849     081xx         NJ 36.93           0         Jul-1990             0
## 5860     641xx         MO  5.28           0         Jan-2001             1
## 5874     223xx         VA 17.36           0         Jul-1996             0
## 5876     495xx         MI 11.04           0         Dec-2010             2
## 5886     019xx         MA 15.40           3         Nov-1993             0
## 5923     923xx         CA 28.61           0         Mar-1994             1
## 5948     945xx         CA 10.82           1         Jul-1993             0
## 5962     606xx         IL 22.37           3         Feb-1996             2
## 5974     151xx         PA 12.83           0         Jan-2008             0
## 6002     233xx         VA 12.48           0         Dec-1999             1
## 6051     761xx         TX  1.93           0         Oct-2013             1
## 6057     921xx         CA 10.17           0         Nov-2005             0
## 6083     383xx         TN 25.42           1         Aug-2003             0
## 6097     553xx         MN 20.32           1         Dec-2001             0
## 6126     352xx         AL 12.24           0         Sep-1991             1
## 6157     932xx         CA  6.05           1         Feb-2004             0
## 6159     234xx         VA 15.86           2         Mar-2004             1
## 6164     370xx         TN 27.59           0         Feb-2008             1
## 6165     114xx         NY 19.38           0         Dec-1996             1
## 6174     945xx         CA 13.06           0         Dec-2010             0
## 6183     811xx         CO 10.47           0         Feb-2008             2
## 6196     234xx         VA 15.76           0         Apr-1986             1
## 6203     300xx         GA 10.07           1         Jun-1998             0
## 6204     890xx         NV 13.66           1         Mar-1996             2
## 6207     921xx         CA 12.82           1         Nov-2009             0
## 6209     970xx         OR 31.33           0         Oct-2003             0
## 6237     237xx         VA 26.43           1         Feb-1999             0
## 6247     384xx         TN  5.88           0         Jun-2005             0
## 6250     562xx         MN 19.99           0         Jul-1995             1
## 6253     921xx         CA 21.51           0         Jan-2007             0
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## 6289     119xx         NY 11.54           0         Nov-2006             0
## 6294     913xx         CA  3.78           0         Nov-1999             1
## 6298     152xx         PA 11.57           0         Sep-2013             0
## 6307     329xx         FL 16.08           1         Aug-1994             1
## 6316     481xx         MI 24.46           0         Sep-1997             3
## 6333     021xx         MA 10.38           0         Dec-2010             1
## 6352     303xx         GA  5.54           0         Sep-2004             1
## 6367     532xx         WI 24.72           1         Aug-2004             2
## 6388     351xx         AL 17.90           0         Apr-2006             1
## 6396     956xx         CA 16.32           2         Nov-2011             2
## 6402     640xx         MO 21.12           0         Jan-2002             1
## 6407     982xx         WA 15.25           3         Sep-1996             1
## 6410     928xx         CA 24.40           0         Feb-2004             1
## 6421     917xx         CA 30.11           1         Mar-1999             1
## 6422     891xx         NV 25.77           0         Jun-2006             0
## 6435     980xx         WA 25.93           0         Mar-2007             1
## 6449     337xx         FL 15.85           0         Jun-2006             0
## 6455     112xx         NY 10.42           0         Aug-1995             3
## 6456     073xx         NJ 26.04           0         Jul-2008             0
## 6468     787xx         TX 17.69           0         May-2006             1
## 6470     981xx         WA  5.96           1         Mar-2001             1
## 6477     917xx         CA  6.59           1         Jan-2000             0
## 6490     917xx         CA 29.21           0         Nov-1995             2
## 6504     142xx         NY 11.39           0         Dec-2004             1
## 6505     906xx         CA 35.47           1         May-2000             1
## 6530     604xx         IL 19.87           1         Apr-1998             1
## 6533     769xx         TX 20.47           0         May-2003             0
## 6560     221xx         VA 19.77           0         Mar-1991             0
## 6570     280xx         NC 17.24           2         Mar-1999             0
## 6585     665xx         KS 11.13           0         May-2002             1
## 6599     782xx         TX 21.28           0         Aug-1993             1
## 6612     163xx         PA  7.18           0         Jan-2007             1
## 6617     109xx         NY 15.80           0         Sep-2003             1
## 6628     945xx         CA 15.47           1         Dec-1998             0
## 6642     112xx         NY  8.26           1         Nov-2000             0
## 6651     820xx         WY 27.04           0         Apr-2005             3
## 6653     027xx         MA 14.24           0         Nov-2003             0
## 6660     920xx         CA 32.90           1         Jan-2003             0
## 6673     684xx         NE 26.29           0         Apr-1997             0
## 6675     571xx         SD 19.67           0         Nov-2004             1
## 6680     949xx         CA 10.49           1         Mar-1983             0
## 6696     337xx         FL 13.05           0         Nov-2005             1
## 6712     770xx         TX 22.71           0         Nov-2006             0
## 6736     158xx         PA 16.37           0         Nov-2007             1
## 6750     953xx         CA 29.90           1         Jan-2015             1
## 6782     405xx         KY 24.51           0         Aug-1998             1
## 6784     360xx         AL  4.39           2         Feb-1995             0
## 6793     787xx         TX 15.59           1         Jun-1971             0
## 6815     925xx         CA 12.76           0         Nov-2007             0
## 6833     027xx         MA  7.65           0         May-2007             0
## 6854     606xx         IL 30.80           1         Aug-2010             0
## 6855     995xx         AK 20.06           0         Jan-2008             0
## 6878     346xx         FL 31.93           1         Feb-1998             2
## 6879     178xx         PA 21.71           0         Oct-1993             0
## 6884     100xx         NY  9.29           0         Dec-1982             0
## 6906     100xx         NY 20.52           0         Jan-2002             0
## 6922     959xx         CA 10.69           1         Nov-1992             0
## 6936     130xx         NY 15.91           0         Apr-2001             0
## 6950     314xx         GA 18.60           2         Apr-1990             0
## 6964     442xx         OH 23.15           0         Jul-2002             1
## 6984     290xx         SC 35.54           0         Sep-1997             2
## 6985     495xx         MI 24.99           0         Oct-2000             1
## 6993     925xx         CA 19.76           0         Apr-1977             1
## 7000     333xx         FL 15.47           0         May-1992             2
## 7021     024xx         MA 22.27           0         Nov-2004             1
## 7027     926xx         CA  8.81           1         Feb-2009             0
## 7034     479xx         IN 18.18           1         Aug-2001             0
## 7038     173xx         PA 17.68           1         Feb-1995             1
## 7039     212xx         MD 22.31           1         Aug-1996             0
## 7043     021xx         MA  9.28           1         Jan-1993             1
## 7068     281xx         NC 16.58           0         Oct-1999             0
## 7081     152xx         PA 27.10           1         Aug-2009             0
## 7095     606xx         IL  6.00           0         May-2013             2
## 7096     922xx         CA  4.77           0         Jul-1998             1
## 7099     871xx         NM 20.93           0         Feb-2004             0
## 7111     296xx         SC 24.08           0         May-2006             1
## 7115     481xx         MI 14.21           0         Jun-2005             1
## 7132     846xx         UT 13.63           1         Aug-2006             3
## 7133     953xx         CA 17.38           0         Jan-2006             0
## 7147     546xx         WI 17.19           1         Dec-1998             0
## 7158     640xx         MO 17.50           0         Aug-2004             1
## 7167     021xx         MA 23.09           0         May-2005             0
## 7168     600xx         IL  6.52           0         May-1999             0
## 7169     334xx         FL  7.31           0         Jul-2000             0
## 7188     926xx         CA  7.07           2         Jan-1996             0
## 7193     907xx         CA 13.31           1         Dec-1999             0
## 7232     606xx         IL 16.44           0         Nov-2009             0
## 7237     349xx         FL 10.94           0         Sep-2003             1
## 7249     852xx         AZ  6.52           1         Apr-2004             0
## 7255     301xx         GA 17.92           0         Mar-2003             0
## 7262     875xx         NM 12.74           0         Feb-2000             2
## 7279     637xx         MO  9.67           0         Aug-2000             0
## 7302     297xx         SC 39.53           0         Mar-1998             0
## 7310     280xx         NC 17.68           0         Oct-1994             0
## 7323     078xx         NJ 10.35           0         Jun-2002             2
## 7344     782xx         TX 25.44           0         May-2008             0
## 7353     381xx         TN 15.67           0         Jul-2006             0
## 7355     335xx         FL 11.42           0         Feb-2013             0
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## 7426     024xx         MA 17.79           1         Dec-2006             0
## 7445     456xx         OH 10.04           0         Oct-2003             0
## 7446     928xx         CA 14.66           0         Jan-2010             1
## 7460     494xx         MI 18.03           0         Nov-2002             0
## 7465     300xx         GA 12.51           0         Jan-1990             1
## 7474     279xx         NC 23.40           1         Mar-1990             1
## 7479     490xx         MI 27.94           2         Nov-1997             3
## 7485     331xx         FL 21.39           0         Jan-2007             1
## 7530     802xx         CO 25.88           0         Dec-2006             1
## 7533     629xx         IL  7.15           0         May-2010             0
## 7538     077xx         NJ 12.28           0         Jul-2001             0
## 7555     956xx         CA 20.46           0         Jan-2005             0
## 7562     973xx         OR 32.04           1         Jun-2003             3
## 7564     852xx         AZ  4.94           0         Oct-2000             0
## 7579     773xx         TX 13.57           0         May-2004             2
## 7591     604xx         IL 18.90           0         Sep-2008             0
## 7594     104xx         NY  6.00           0         May-2008             0
## 7612     853xx         AZ 37.30           0         Jul-1994             1
## 7619     212xx         MD 19.09           0         Nov-1993             0
## 7621     760xx         TX 18.20           0         Jan-1993             1
## 7704     482xx         MI 22.65           1         Apr-2001             0
## 7715     483xx         MI 10.47           0         Jun-1994             0
## 7737     206xx         MD 17.11           1         Nov-2004             0
## 7777     028xx         RI 11.41           1         May-2005             1
## 7792     553xx         MN 13.01           0         Jul-1989             0
## 7794     775xx         TX 26.90           0         May-2005             1
## 7824     208xx         MD 12.37           0         Sep-2003             2
## 7828     532xx         WI  8.89           0         Jul-2009             0
## 7833     072xx         NJ 16.46           0         Jul-2002             1
## 7838     303xx         GA 25.14           1         Feb-2000             0
## 7840     337xx         FL 13.40           0         Jul-1999             1
## 7882     926xx         CA  3.63           0         Sep-2002             0
## 7893     327xx         FL 19.54           0         Apr-1991             1
## 7900     794xx         TX 21.06           0         Jun-2002             0
## 7910     490xx         MI 17.30           0         Feb-1995             0
## 7925     452xx         OH 24.11           1         May-1999             0
## 7945     371xx         TN 22.52           0         Nov-2002             0
## 7963     294xx         SC 23.17           0         Dec-1994             0
## 7972     856xx         AZ 12.96           0         Sep-2011             0
## 7980     482xx         MI 21.18           0         Mar-2006             1
## 7985     331xx         FL  8.95           2         Jan-2011             0
## 8006     117xx         NY 22.75           1         Feb-1989             0
## 8009     762xx         TX 24.69           1         Oct-2004             2
## 8024     071xx         NJ 17.15           0         Nov-1999             1
## 8042     958xx         CA 23.27           3         Aug-2007             0
## 8046     146xx         NY 23.78           0         Oct-2007             1
## 8047     809xx         CO 12.90           1         May-1991             0
## 8080     986xx         WA 18.02           0         Aug-1986             1
## 8086     791xx         TX 23.11           0         Sep-1999             0
## 8111     467xx         IN 17.12           0         Oct-2003             3
## 8125     103xx         NY 17.40           0         May-2010             0
## 8140     183xx         PA 29.58           0         Mar-2002             0
## 8148     383xx         TN 27.33           0         Oct-2001             0
## 8154     331xx         FL 11.60           0         Nov-2000             1
## 8174     982xx         WA  9.21           2         May-2005             1
## 8192     347xx         FL  7.02           0         Aug-2008             1
## 8261     306xx         GA  8.13           1         Jul-2003             0
## 8269     722xx         AR 15.93           0         Oct-2009             0
## 8275     080xx         NJ 13.65           0         Oct-1989             0
## 8287     232xx         VA 23.48           0         Apr-2004             0
## 8303     750xx         TX  9.56           0         Oct-1990             1
## 8304     335xx         FL 13.65           4         Mar-2006             0
## 8339     223xx         VA 33.67           0         Sep-1995             1
## 8352     120xx         NY 18.17           3         Oct-1989             0
## 8370     330xx         FL 13.37           0         Aug-2007             0
## 8384     293xx         SC 20.36           0         Sep-2003             0
## 8388     633xx         MO 10.99           0         Jun-2005             2
## 8400     971xx         OR 12.50           0         Oct-2005             0
## 8420     346xx         FL 19.34           0         May-2006             0
## 8432     932xx         CA 25.03           1         Jan-2007             0
## 8439     112xx         NY 19.98           0         Jan-2005             0
## 8440     029xx         RI 34.16           0         Apr-2001             0
## 8444     761xx         TX 33.43           0         Jul-2007             1
## 8455     840xx         UT 25.85           1         Sep-2005             1
## 8457     927xx         CA 16.07           0         Oct-2007             1
## 8460     837xx         ID 31.33           4         Jan-2005             0
## 8466     020xx         MA  6.32           3         Dec-1998             0
## 8478     075xx         NJ 14.17           1         Sep-2001             0
## 8485     190xx         PA  4.20           0         Dec-1999             0
## 8494     658xx         MO  2.41           0         Nov-2002             0
## 8495     756xx         TX 35.80           0         Jun-1996             0
## 8503     925xx         CA 15.61           0         May-2011             2
## 8520     104xx         NY 26.99           0         Jan-2011             0
## 8546     371xx         TN 15.77           0         Jun-2005             1
## 8548     852xx         AZ 36.69           0         Sep-1972             1
## 8562     946xx         CA 16.60           0         Apr-2005             2
## 8577     689xx         NE 21.33           0         Mar-1993             2
## 8582     925xx         CA 19.76           1         Feb-2004             0
## 8584     052xx         VT 33.32           0         Jan-1998             1
## 8593     145xx         NY 26.95           2         Jun-2003             0
## 8597     970xx         OR 32.33           0         Oct-2005             0
## 8601     974xx         OR 12.27           0         Sep-2004             0
## 8603     388xx         MS 12.94           0         Dec-2003             1
## 8645     641xx         MO 19.04           0         Jun-2003             1
## 8659     945xx         CA 22.57           0         Mar-2005             0
## 8679     322xx         FL 28.91           0         Feb-1998             0
## 8682     451xx         OH 25.31           0         Jun-1999             0
## 8691     752xx         TX 18.45           0         Nov-2006             0
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## 8695     104xx         NY 28.05           0         Oct-2012             2
## 8698     142xx         NY 29.63           0         Feb-2011             1
## 8725     766xx         TX 16.28           0         Dec-2010             2
## 8730     274xx         NC 27.57           1         Aug-2004             1
## 8733     210xx         MD 22.22           0         Jul-2000             0
## 8734     782xx         TX 39.17           1         Feb-2001             0
## 8748     891xx         NV  7.65           1         Jul-2011             0
## 8755     104xx         NY 27.05           0         Apr-1990             1
## 8774     208xx         MD 23.99           0         Feb-1994             0
## 8784     933xx         CA  7.61           0         Mar-2004             1
## 8789     474xx         IN 12.43           0         Nov-1989             1
## 8799     600xx         IL 21.66           0         Apr-1990             1
## 8813     370xx         TN 19.15           0         May-2008             0
## 8815     403xx         KY 16.11           0         Mar-1998             3
## 8827     488xx         MI 21.26           0         Mar-1993             0
## 8829     191xx         PA 20.98           0         Aug-2002             0
## 8833     070xx         NJ 23.61           0         Jan-2011             0
## 8836     983xx         WA 13.79           2         Aug-1991             0
## 8842     477xx         IN 10.71           0         May-1997             2
## 8849     933xx         CA 11.29           0         Dec-2001             0
## 8863     805xx         CO 12.62           1         Oct-1996             1
## 8879     900xx         CA  5.61           0         Dec-1993             0
## 8886     381xx         TN 10.74           3         Mar-2002             1
## 8889     300xx         GA 11.33           2         Nov-2001             0
## 8930     852xx         AZ 34.63           0         Jun-2007             1
## 8934     113xx         NY 15.07           0         Apr-1996             0
## 8936     770xx         TX 11.27           0         Dec-1989             0
## 8940     331xx         FL 27.12           0         May-1999             0
## 8949     432xx         OH 15.16           0         Aug-1986             0
## 8952     980xx         WA 14.50           2         Jun-1999             0
## 8954     240xx         VA 24.16           2         Feb-1990             0
## 8996     770xx         TX 27.74           0         Jul-2006             0
## 9028     473xx         IN 18.93           0         Aug-2005             0
## 9029     452xx         OH 15.34           1         Apr-2006             0
## 9039     212xx         MD 24.83           0         Feb-2008             0
## 9043     481xx         MI 22.73           0         Sep-2006             0
## 9044     325xx         FL 15.96           0         May-1993             0
## 9046     282xx         NC 17.02           1         Nov-1996             0
## 9062     221xx         VA 17.64           0         Mar-2005             2
## 9065     010xx         MA 21.39           0         May-1987             3
## 9144     911xx         CA 14.40           0         Nov-2007             1
## 9172     927xx         CA 14.40           0         Jul-1999             0
## 9184     297xx         SC 18.02           0         Sep-1979             0
## 9201     787xx         TX 10.60           0         Nov-2003             2
## 9213     481xx         MI 33.24           0         Apr-2001             0
## 9224     720xx         AR 20.32           0         Aug-1992             1
## 9233     600xx         IL 24.95           0         Sep-2013             2
## 9239     913xx         CA 13.23           2         Feb-1999             2
## 9256     300xx         GA 17.51           0         Aug-2004             0
## 9260     490xx         MI 18.95           1         Oct-1999             0
## 9272     207xx         MD 20.42           0         Sep-2005             0
## 9279     847xx         UT 19.76           0         Mar-2000             0
## 9290     041xx         ME  8.40           4         Jan-1980             0
## 9302     182xx         PA 19.29           0         Sep-2001             1
## 9308     935xx         CA 17.36           0         Dec-2005             0
## 9315     927xx         CA  9.58           0         Aug-2002             0
## 9320     463xx         IN 15.58           0         Dec-2007             0
## 9341     019xx         MA 17.73           0         Oct-2006             1
## 9379     812xx         CO 28.56           0         May-2006             0
## 9400     913xx         CA 13.77           1         Oct-1995             2
## 9418     981xx         WA 26.25           1         Oct-2000             0
## 9437     563xx         MN 21.57           1         Jan-2008             1
## 9477     968xx         HI 23.93           0         Dec-1991             2
## 9495     430xx         OH 18.09           1         Dec-2003             1
## 9496     130xx         NY 34.23           1         Aug-2000             0
## 9505     027xx         MA 27.69           0         Aug-1999             0
## 9532     294xx         SC 16.72           0         Dec-2002             0
## 9538     775xx         TX  1.22           0         Aug-1990             0
## 9583     532xx         WI  8.16           0         Sep-2003             3
## 9585     923xx         CA 13.46           3         Nov-2006             1
## 9597     955xx         CA 17.91           1         Apr-1997             0
## 9608     440xx         OH 15.65           1         Apr-2012             0
## 9620     922xx         CA  3.34           0         Jan-2000             0
## 9661     977xx         OR 27.98           0         Feb-2007             0
## 9687     770xx         TX 20.81           0         May-2006             2
## 9693     926xx         CA 21.80           1         Jan-1988             2
## 9703     193xx         PA 25.84           0         Sep-2002             2
## 9709     141xx         NY 15.13           1         Jul-2005             1
## 9726     891xx         NV 13.71           1         Feb-2006             0
## 9805     026xx         MA 18.27           0         Jul-1998             1
## 9806     170xx         PA 21.75           1         Feb-2007             1
## 9809     953xx         CA 12.42           2         Aug-1976             0
## 9824     060xx         CT  7.75           0         Dec-1999             1
## 9826     986xx         WA 25.06           3         Apr-2004             1
## 9837     116xx         NY 26.39           1         Apr-1992             1
## 9841     275xx         NC 17.45           0         Jul-2003             0
## 9844     656xx         MO 28.29           0         Nov-1978             2
## 9849     773xx         TX 22.72           0         Sep-2002             0
## 9912     307xx         GA 23.09           0         Oct-1999             0
## 9925     804xx         CO 20.31           0         Mar-2006             1
## 9926     121xx         NY 17.82           0         Nov-1999             1
## 9933     070xx         NJ 20.96           0         Sep-2005             0
## 9937     482xx         MI 16.43           0         Feb-2004             1
## 9941     836xx         ID 12.55           1         Nov-2010             0
## 9951     183xx         PA 22.32           1         Nov-1987             0
## 9960     605xx         IL 10.18           0         Dec-2004             2
## 9987     956xx         CA 18.34           1         Jun-2009             0
## 9997     890xx         NV  6.73           2         May-2006             0
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## 10003    088xx         NJ 38.91           0         Feb-2002              3
## 10010    484xx         MI 23.15           0         Sep-2003              0
## 10011    761xx         TX  8.74           1         Apr-2004              0
## 10047    981xx         WA 17.69           0         Jan-1986              1
## 10050    775xx         TX 18.36           1         Dec-1996              0
## 10093    331xx         FL 19.60           1         Oct-2003              2
## 10104    958xx         CA 21.52           1         Dec-1993              1
## 10111    995xx         AK 23.70           1         Aug-2003              0
## 10131    983xx         WA  8.11           0         Mar-2002              0
## 10137    482xx         MI  8.80           0         Jun-2005              0
## 10144    840xx         UT  9.18           0         Aug-2006              0
## 10169    775xx         TX 23.28           0         Feb-2002              0
## 10172    604xx         IL  7.87           1         Mar-2008              1
## 10176    210xx         MD 13.91           1         Sep-2006              0
## 10184    606xx         IL 26.06           0         Jul-2001              0
## 10202    212xx         MD 15.39           0         Aug-1996              0
## 10209    104xx         NY 15.58           0         Mar-2011              0
## 10215    495xx         MI  5.92           0         Dec-2002              1
## 10242    631xx         MO 23.71           0         Feb-1985              0
## 10248    371xx         TN 23.74           0         Nov-2007              1
## 10267    440xx         OH 22.13           0         Feb-2006              1
## 10275    977xx         OR 21.72           3         May-1998              0
## 10276    800xx         CO 20.53           0         Dec-2003              1
##       mths_since_last_delinq open_acc pub_rec revol_bal revol_util total_acc
## 35                        10       17       0     13757       29.6        45
## 54                        34       11       0      6868       37.3        20
## 59                        76       26       0     20295       33.8        48
## 60                        81       18       0     41605       30.0        29
## 71                        71        7       0      5508       84.7        26
## 73                        58       12       0      2838       18.0        43
## 74                        17       19       0      7420       28.8        26
## 90                        44       19       0      5319       21.7        33
## 101                       14        8       0      2582       46.9        17
## 124                        7       11       0      4667       30.7        25
## 137                        9        6       0      9336       69.7        11
## 142                       46       10       0      1774        4.3        48
## 143                       79       11       1      7633       36.9        34
## 160                       20       12       0     12630       48.8        18
## 161                       41        8       0      6920       49.8        16
## 165                       43       16       0     13986       40.4        34
## 174                       38       21       1       656        2.7        40
## 192                       19       10       0      3642       63.9        25
## 193                       60       18       0     14488       32.9        25
## 206                       57       13       0     11796       24.6        24
## 212                        4       10       1       336        2.5        31
## 218                       59       15       0       555        1.4        31
## 229                       39       15       0      1750       12.2        43
## 232                       47       13       1     13548       22.5        24
## 234                       58        8       0       881       17.6        14
## 236                       54        9       1       351        3.5        33
## 246                       71       20       0     36278       40.3        41
## 247                       20        7       0      3164       26.6        19
## 262                       11       20       1     16027       32.1        32
## 285                       37       11       0       290        2.3        38
## 296                       25       16       0     12029       19.3        22
## 302                       64        6       0      3518       37.4        12
## 304                       60       10       0     13747       52.9        19
## 324                        9       22       0     10266       19.2        45
## 326                       36        8       0     10989       73.8        14
## 328                       56        8       1      8596       53.4        24
## 329                       60        4       0      3193       84.0        24
## 330                       48       10       0     18637       50.9        27
## 338                       53       15       0      6747       37.5        23
## 353                       50       16       0     14321       11.6        26
## 357                       64       11       0      6243       67.1        29
## 361                       62       22       1     44283       84.5        44
## 370                       66        5       0     11392       81.4         8
## 377                        3        9       0     25699       42.5        20
## 382                       21       28       0      6976       21.4        52
## 410                        9       10       0      6604       39.5        44
## 428                       72       13       0      8080       16.6        22
## 450                       24        6       0      1706       21.9        13
## 465                       73        9       0      2557       27.5        25
## 466                       49       13       0      6840       15.4        32
## 471                       21       19       0      4579       63.6        29
## 479                       50        9       0     10234       45.5        28
## 485                       22       16       1      3341       20.5        38
## 491                       63       15       0     23002       41.1        30
## 496                        7        9       0      2756       15.6        30
## 497                       46       28       0     14594       22.5        50
## 499                       12       14       0     15783       68.6        22
## 548                       14        3       0      1681       14.2        17
## 558                       70       17       1      2248        9.2        23
## 570                       47       21       0      7243       18.0        43
## 577                       29       23       0     13739       27.4        52
## 579                       69        7       1      2286       29.7        23
## 608                       28        5       1        69        4.3        70
## 626                       34       11       1       225       15.0        36
## 634                       40        7       0     16641       82.4        18
## 636                       34       12       0     18667       80.1        17
## 641                       33       13       1      4233       21.1        42
## 658                       32        4       1      1476       29.5        39
## 660                        7       10       0     21526       82.5        21
## 670                       12       23       0     17356       72.0        43
## 674                       39        9       0      7480       44.0        18
## 689                       47       18       0     29494       71.6        45
## 696                       39       12       0     11902       38.3        27
## 705                       19        8       0      5364       40.6        14
```

```
## 713                    19      16      0    21262      38.8       35
## 752                    14      14      0     3793      28.1       20
## 790                    60      13      1    15896      62.3       44
## 799                    32      25      0     2333      12.8       36
## 819                    37      12      0     8682      52.3       18
## 840                    24      30      0    11594      12.1       39
## 844                    57      10      1     5564      23.1       26
## 845                    48      15      0    15389      19.0       36
## 855                    13      10      0    42135      53.0       31
## 866                    70       6      0    39222      92.1       17
## 869                    49       7      0     1512      50.4       20
## 899                    77      18      0     9528      11.7       33
## 904                    52       5      0     5120      28.6       29
## 917                    25      14      0    10985      48.0       22
## 940                    41      11      0    19432      62.5       13
## 957                    81       5      0     1463      11.7       14
## 960                    80      12      0     8673      65.7       32
## 993                    10      13      0    12527      90.1       26
## 998                    22      16      0    19055      62.1       34
## 1025                    5      24      0    23182      40.1       46
## 1056                   62      11      0    10835      25.9       19
## 1063                   51      23      0      810       1.7       28
## 1083                   23      12      1     7580      60.2       18
## 1105                   12      11      0    25924      58.8       25
## 1117                   45       7      0    93602      16.2       23
## 1118                   53       4      0     2774      69.3        8
## 1146                   32      10      0    44406      72.8       23
## 1170                    7      11      0     7641      33.4       30
## 1227                   44      11      0     9804      60.5       31
## 1263                   30       9      0     3927      48.5       16
## 1264                   20       6      0     5344      31.6       26
## 1273                    8      10      0    14560      23.3       30
## 1285                   26      18      0     6789      14.9       48
## 1319                   80      14      0     5217       6.9       37
## 1337                   51       8      0      873       3.1       16
## 1349                   74      17      0    11162      36.8       22
## 1351                   44      23      0    11812      36.5       46
## 1356                   20       8      0     6803      32.7       17
## 1386                   72      12      0     2447       4.4       23
## 1388                   37       7      0     3394      26.1       16
## 1390                   25      17      0     9249      25.9       29
## 1410                   47      15      0    34191      42.6       25
## 1416                   42       8      0    35452       0.0       36
## 1434                   70       8      0     2931      46.5       14
## 1439                   14       4      0     3105      31.1       11
## 1449                   70      18      1     6021      32.9       35
## 1459                   74      11      0     5310      20.7       45
## 1462                   12      15      0    12369      83.0       43
## 1480                   13       8      1     8061      78.3       23
## 1484                   13      11      0     6153      40.0       16
## 1487                   40      10      0    18521      63.2       12
## 1527                   37      14      0     6669      36.6       17
## 1529                   61       8      0     2409      34.4       23
## 1530                   31       5      0     6619      22.3       11
## 1545                    4       8      0       25       0.0       28
## 1567                    9       8      0     6158      32.9       25
## 1597                   11       7      0     1109      15.0       10
## 1601                   12      13      1    20967      31.3       26
## 1623                   44       4      0      754       3.1       19
## 1633                   18      12      0    20645      87.5       32
## 1636                   21       8      0     6494      79.2       32
## 1640                    5      11      0    46715      50.5       31
## 1645                   39       8      0     4047      39.7       15
## 1650                   66      12      0    15529      34.1       44
## 1671                   65      13      0     3051       9.4       17
## 1672                    8      11      0    18907      34.6       32
## 1696                   10       4      0     1029      57.2        7
## 1704                   63       8      0     1297       1.3       18
## 1721                    5       8      0    10649      91.8       16
## 1724                   66      10      0    10924      41.4       33
## 1728                   21      14      0    11547      21.3       22
## 1730                   42      10      0    27412      54.1       13
## 1734                   53      11      1    17162      68.9       53
## 1752                   60      12      0     4876      17.0       57
## 1771                   31      10      0     7028      21.8       19
## 1816                   29      27      0    20879      40.0       42
## 1846                   79      19      0    11639      24.6       39
## 1850                   22      17      0    16386      27.9       25
## 1853                   30      12      0    11255      20.4       50
## 1856                   78       9      0    19766      28.6       44
## 1857                   52       9      0     1081       5.4       99
## 1862                    3      11      0     5212      17.3       20
## 1865                   57      15      0    12653      47.9       22
## 1866                    7      10      0    12277      29.1       20
## 1867                   44       7      0    81081      82.0       23
## 1896                   52       7      0    11870      65.6       33
## 1905                   46      10      0     5615      68.5       28
## 1907                   52       9      0     5909      32.3       25
## 1922                   61       8      0    10681      37.5       17
## 1930                   80      13      0     4135       9.1       25
## 1933                    9      14      0     2971       6.6       45
## 1952                   26      24      0    16974      13.0       46
## 1956                   37       5      0      492       6.2        7
## 1961                   41       9      0    11383      88.2       23
## 1963                   71      14      0     4774      14.5       20
## 2004                   55       5      0     3763      22.1       19
## 2012                    4      16      0    14167      26.5       33
## 2017                   19       7      0     8493      77.9       21
```

```
## 2019                29      10      0     21155      75.8       23
## 2026                73       6      0       117       1.1       18
## 2027                28      15      0      9255      11.9       40
## 2039                45       7      0      8420      72.6       13
## 2041                47      11      1      1539       8.0       37
## 2051                36      25      0      7491       6.5       38
## 2060                11      13      1      8124      31.6       31
## 2065                14      19      1      3413       8.4       30
## 2073                38      13      0      8285      13.5       40
## 2105                11      21      0      7220      12.2       44
## 2117                43      16      0      1298       2.3       36
## 2128                41      43      0     31703      14.8       71
## 2129                37      14      0      5435      32.4       24
## 2136                68      11      0      1215       7.1       13
## 2137                26      10      0     14531      54.6       22
## 2148                13       8      0     20263      98.8       27
## 2155                 5       7      0      2362       5.6       15
## 2168                74      10      0      6114      25.9       27
## 2197                28       9      0     11582      25.0       32
## 2215                 5      16      0     13027      48.2       33
## 2224                10       5      0     45240      83.6       19
## 2234                56      12      0     12055      28.9       40
## 2255                81      14      0     18027      51.8       29
## 2258                53       9      0     16126      42.0       30
## 2286                14       9      0      1102      35.5       30
## 2296                59      23      0      5540       5.6       31
## 2329                13       8      0      1478      37.0       23
## 2342                48      10      1      3329      27.3       16
## 2347                10      25      0    114818      66.5       48
## 2357                23      12      0     11495      71.8       39
## 2377                38      14      1      3254      15.3       22
## 2393                26      18      0     56159      74.5       46
## 2396                14       7      0      2887      34.4       26
## 2399                13      18      0      2456      13.1       25
## 2405                57      11      0      8870      37.3       27
## 2420                50       5      1      1266       8.1       34
## 2425                22       5      0      8954      75.2        5
## 2429                 6      13      1      2206       3.1       21
## 2439                10      19      0      5911      35.0       29
## 2447                28      15      0     15953      37.1       40
## 2449                 9       5      0      6609      97.2       10
## 2457                55       7      0      4726      23.7       15
## 2478                 1      11      0      9449      14.7       28
## 2480                41      13      0     12097      71.2       35
## 2492                29      21      1     12038      30.6       45
## 2494               171      15      0     51437      66.6       23
## 2504                57      15      0     29511      52.3       29
## 2510                70      15      0      2385       6.4       39
## 2514                32       7      0      2496      17.7       12
## 2516                21      19      0     12250      84.5       25
## 2522                26      17      0     19317      37.0       33
## 2529                22      14      1      5057      28.7       43
## 2535                60       7      0      3357      38.6       12
## 2545                12      10      0      1996       5.5       20
## 2549                30      22      0      9537      42.2       50
## 2593                27       6      0      8961      31.2       28
## 2598                55       9      1         0       0.0       20
## 2604                20      26      0     43950      38.7       47
## 2628                 9       6      0     14871      90.1       18
## 2631                56       8      0      4481      30.1       48
## 2661                21      12      0      5451      21.8       36
## 2673                57       7      0     16659      54.8       12
## 2692                58      17      0      7129      23.1       34
## 2707                68       6      0      4121      22.2       16
## 2714                13       9      0     16743      79.7       34
## 2715                29      13      0     18770      77.2       30
## 2761                30       9      0      9778      41.4       26
## 2772                32       9      1      8825      78.8       23
## 2788                25      14      0      6043      17.8       33
## 2789                66      19      0      6546      16.8       48
## 2820                16      17      0      4459      30.5       27
## 2840                78       9      0      1503       5.7       24
## 2856                 3      11      0      1120       6.1       51
## 2858                59      11      0     10659      16.3       47
## 2861                20       9      0     16315      58.9       21
## 2872                79      18      0      7971      26.8       23
## 2877                73      16      0     26521      41.6       34
## 2878                48      11      0      3300      20.0       28
## 2879                36      10      0     20878      71.3       22
## 2893                48      14      0     10151      24.6       20
## 2913                55       9      1      3976      28.0       54
## 2915                33       4      0     26235      80.0       24
## 2918                43       9      0      7695      28.6       16
## 2940                38      16      0     23819      39.1       47
## 2942                 6      18      0     24846      22.1       34
## 2954                48      15      0     14621      32.3       34
## 2976                34      16      0      5203      36.9       18
## 2977                71      14      1      7855      26.9       23
## 2978                21       9      0      4513      18.8       30
## 2982                 7      17      1     23197      58.3       33
## 3002                49       9      0      8264      15.2       42
## 3012                47      11      0     20035      52.3       22
## 3017                70      10      2      5063      28.9       15
## 3018                30      16      0     23342      47.5       20
## 3021                18      10      0      8587      21.7       17
## 3034                14      19      0      6150      10.7       45
## 3045                 4      11      0     23521      55.6       26
## 3050                29      17      0     11817      17.1       40
```

```
## 3057                    14       10       0     19646       43.0        10
## 3071                     5       18       0      9118       60.8        28
## 3104                    19        8       0      7886       24.7        14
## 3112                    28        5       0     10887       81.9        16
## 3124                    43       27       0     24891       49.0        66
## 3150                    57        8       0     26863       88.1        22
## 3160                     3       14       0     70225       14.5        54
## 3165                    18       15       0     10702       18.6        20
## 3172                    31        9       0         0        0.0        30
## 3177                    36        7       0     18395       65.0        13
## 3213                    73       14       0      6891       14.9        19
## 3222                    18       12       2      1437       18.9        31
## 3237                     9       22       0      8091       39.5        39
## 3252                    68        9       0      5528       36.4        16
## 3257                    70       16       0      4734        5.4        22
## 3258                    69        7       0      9006       43.7        14
## 3265                    28       11       0     29338       57.0        21
## 3276                    12        9       0      4616       15.2        31
## 3289                    27       10       0      4530       35.7        21
## 3307                    58       18       0     16365       48.6        63
## 3312                    18       23       1     17906       46.4        36
## 3317                    41       21       0     33136       22.3        46
## 3333                    42        9       0     10266       96.8        21
## 3366                     9       16       0     53010       83.7        38
## 3383                    40        8       0      9199       87.6        32
## 3419                    33       10       0      9859       93.9        27
## 3421                    66       15       0     26269       27.8        18
## 3422                    28       13       0     20872       43.6        39
## 3429                    28       17       0     19994       47.7        40
## 3433                     7       12       0      4280       11.6        31
## 3449                    10        9       0      7888       45.1        19
## 3458                     4        8       0      5928       31.4        20
## 3467                    22       12       0     10194       22.6        18
## 3471                    59       19       1     12719       41.2        38
## 3480                     5       15       0     14094       64.4        24
## 3482                    38        6       1       743        8.3        28
## 3502                    45        9       0      3766        9.8        26
## 3504                    20       10       0      3906       34.9        15
## 3507                    29       15       0     16559       84.9        23
## 3536                     9       14       0     21324       53.0        25
## 3538                    22       23       0     19049       32.6        31
## 3542                    45        9       0      5117       37.9        24
## 3547                    18       13       0     14421       38.3        18
## 3553                     9        8       0      1226       19.5        36
## 3567                    20        7       0      3840       51.9        22
## 3590                    40       18       1      7656       25.9        34
## 3607                    47       12       0     23485       58.0        18
## 3623                    73       21       0     10891       13.8        34
## 3635                    46       13       0     48785       60.4        19
## 3655                     4       12       0      7507       16.2        24
## 3684                    70        7       0       506        6.7        13
## 3687                    39        7       0     11328       98.5        25
## 3688                    28       22       0      1091        1.7        32
## 3699                    78        7       1     17906       72.2        27
## 3701                    21        2       0      3415       37.9        19
## 3712                    13       10       0      4651       55.4        19
## 3730                    38       15       0      4063        5.9        23
## 3749                    78       12       1     27730       65.2        27
## 3756                    58       16       0     30021       65.4        39
## 3758                    30        6       0     11815       78.8        21
## 3771                    73        8       0      2357        4.9        25
## 3785                    55       14       0      6255       14.4        50
## 3788                    63        7       0     14766       48.3        24
## 3852                    79       12       0      4253       33.8        22
## 3857                    78        8       0         0        0.0        16
## 3865                    57       15       0     15523       35.8        19
## 3889                    50        4       0      3246       63.6        26
## 3892                    61       17       0      6577        8.6        39
## 3901                     9        6       0     13688       40.0        19
## 3917                     6       13       0      3285       12.3        21
## 3924                     8        9       0     15318       35.3        13
## 3938                    26       18       0      1663        6.7        32
## 3947                    59       15       0     18365       40.8        23
## 3949                    14        5       0      2786       27.9        10
## 3959                    48        8       0       451       25.1        10
## 3977                    38        7       0     11609       49.4        52
## 3990                    23       19       0      8906       52.4        33
## 4001                    28        6       0       290        0.1        11
## 4003                    19       16       0     11641       48.9        26
## 4016                    27       12       0      2265        7.7        46
## 4017                     9        9       0      2836       17.6        10
## 4021                    74       14       0     65510       66.4        41
## 4022                    49       21       0     13555       38.6        68
## 4026                    34       11       0    130897       99.6        16
## 4036                    18       11       0      5849       60.9        18
## 4049                    31       19       0     11023       27.3        46
## 4054                    10        7       0      4258       63.6        12
## 4093                     9       16       0      2917        9.5        34
## 4099                    68        8       0       830        2.8        25
## 4104                    74        4       1      1081        6.2        11
## 4107                    62        6       0       481       14.1        26
## 4110                    81       13       0     10881       28.9        16
## 4122                    73       23       0     16692       54.2        33
## 4128                     9       14       0     15014       46.3        19
## 4131                    26        4       0      4489       44.0        20
## 4133                    67        5       0     11505       82.2        22
## 4135                    44        5       0      1578       30.3        16
## 4151                     6       12       0      4316       20.6        26
```

```
## 4153                    22        9       0     11019       61.9        34
## 4157                    45       16       0      7915       16.8        27
## 4233                    68        5       0      4407       42.0        18
## 4237                    12       13       0      1284       16.3        19
## 4254                    45       12       0     33758       77.2        30
## 4258                    33        4       0       459       57.4         4
## 4259                    28       11       0      1596       19.2        18
## 4261                    67       15       0     18392       43.7        44
## 4265                    61        9       0      6078       39.5        28
## 4269                    17       13       0      4920       20.6        30
## 4297                    75        8       0     11255       42.6        19
## 4307                    70       12       1      1879        5.3        31
## 4341                    27        9       0      8565       40.6        43
## 4342                    27       12       0     11792       58.1        26
## 4351                    19        9       1      2979       20.3        27
## 4352                    16       12       0      3825        7.7        33
## 4376                     5       10       0      2396       27.2        16
## 4395                     5       11       0      8909       30.8        21
## 4412                    12       18       0     23797       44.3        25
## 4414                     6       12       0      9682       36.8        26
## 4448                    74        6       0     28101       80.3        24
## 4466                    65       11       0     18058       69.5        14
## 4476                    26       25       0     14201       33.3        39
## 4477                    53        6       0      6435       49.1        22
## 4498                    51       11       0      3195       79.9        37
## 4501                    31       10       0     19578       57.4        15
## 4506                    47       17       0     15561       45.4        36
## 4517                    73       13       0     12653       72.7        46
## 4524                    27        8       0      3882       76.1        13
## 4532                    65       17       0      1380       11.3        25
## 4539                    20        8       0      7115       50.1        14
## 4552                    34       13       0      1247        8.4        20
## 4565                    43        6       0       357        1.7        34
## 4580                    25       11       1      4469       55.9        16
## 4584                    14        9       0      7158       52.2        31
## 4586                    75       22       0     12676       27.1        27
## 4611                    22        9       0     19288       49.3        20
## 4632                    71       16       0      5698       15.2        37
## 4682                    56       12       0      8257       37.5        32
## 4688                    81       12       1      8771       19.2        33
## 4692                    21       10       1      5890       57.7        12
## 4712                    42        4       0      2764       86.4         9
## 4743                    62       13       0      3977        7.3        20
## 4758                    32        5       0      1088        2.4        11
## 4769                    41       14       0     21169       29.0        25
## 4774                    79       13       0     17930       57.7        32
## 4775                    12       20       0     17119       35.2        57
## 4786                    14       16       1        81        0.7        20
## 4791                    10       12       0      1289       35.8        27
## 4792                    15       14       0     10017       30.9        17
## 4797                    55       13       0     36324       66.6        25
## 4801                    53        9       0      2537       37.9        13
## 4816                    53        8       0     22367       70.8        28
## 4818                    20       18       1      5715       11.4        40
## 4832                    44       24       0     10392       15.7        46
## 4834                    19       19       0     71457       64.0        48
## 4880                    13       11       0      6184       24.6        26
## 4921                    38        3       0      4045       87.9         7
## 4922                    36        9       0      2965       45.6        26
## 4934                    10        5       0      5199       26.4         8
## 4951                    30        9       0      4538       31.5        11
## 4958                    19       13       0        97       19.4        23
## 4985                    69       12       0      5753       24.5        19
## 5010                    30        9       0      5239       37.4        17
## 5021                    12       17       1     12469       44.7        25
## 5035                    32        8       0      9418       60.0        21
## 5036                    76       26       0     15660       60.0        44
## 5038                     6       16       0         8        0.2        19
## 5059                    33        7       0      9393       88.6        32
## 5060                    14        6       0         0        0.0        27
## 5070                    29       10       0      2306       20.6        51
## 5103                    57        9       0      2436       14.5        15
## 5134                    70       12       0     30982       57.3        30
## 5136                    14        9       0      8615       53.8        20
## 5155                    29       16       0      7903       34.5        39
## 5157                    28       21       0      7281       11.1        53
## 5162                    40       20       0      1184        1.0        34
## 5163                    31       16       0     42885       34.5        34
## 5168                    14       28       0     10849       31.2        39
## 5169                    56       17       0     17443       50.0        31
## 5177                    52       13       0      5527       43.2        37
## 5184                    53       62       0     15751        4.9        99
## 5186                    83        9       0      4587       19.0        21
## 5218                    65       12       0     10890       24.0        33
## 5220                    30       10       0      4905       53.3        19
## 5221                    13       13       0      5401       17.4        31
## 5244                    50        6       0      3234       36.8        15
## 5255                    57       19       0     23585       43.5        71
## 5278                    70        4       0      9212       62.2        10
## 5295                    33       14       0      8523       32.4        31
## 5317                    19        8       1      3211       26.8        16
## 5325                    19       12       0     11715       41.5        20
## 5345                    12        9       0      6342       29.5        22
## 5348                    47        8       1      6919       72.8        20
## 5354                    40       12       1       658        2.3        36
## 5356                    56       10       0      9947       69.1        11
## 5358                    36       17       0     30374       70.6        60
## 5365                    38       12       0      7101       35.3        25
```

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## 5379                    46       17       0      8968       58.6        21
## 5390                    17       10       0     12390       57.4        21
## 5406                    37        6       0      3270       21.2        39
## 5416                     3       30       0    167661       50.6        61
## 5431                    56       12       0       431        1.7        15
## 5442                    33       11       0     30695       83.9        20
## 5467                    33       10       0     25881       72.1        24
## 5494                    30       10       1      7966       33.8        20
## 5554                    81        8       0     37709       45.4        38
## 5556                    26       12       0      7720       63.3        15
## 5565                    10       11       0      4938        9.4        17
## 5566                    56       15       0     25863       62.8        18
## 5568                    34        7       0      2635       45.4        12
## 5574                    57       11       0      6795       25.5        21
## 5597                    14        5       0      2471       28.1         9
## 5621                    60       14       0      6499       32.8        26
## 5623                    33       15       0     14307       83.2        23
## 5643                    69       17       0     10903       29.2        30
## 5664                    11        6       1     13125       78.6        15
## 5666                    22       11       0      8507       49.2        12
## 5720                    45        7       0       799        4.8        12
## 5731                    51        8       0     20428       83.4        10
## 5733                    51       20       0     15390       33.8        38
## 5734                    78        9       0      2288       26.3        18
## 5749                    20        6       0      4449       72.9        13
## 5759                    30       15       0    156036       41.1        41
## 5760                    61       10       1      1181       26.8        25
## 5784                    34       11       0      2422       23.3        22
## 5786                    18        9       0      8684       50.5        39
## 5794                    39       15       0      2144        3.2        40
## 5806                    41       27       0     48660       56.9        57
## 5809                    40       12       0      7330       59.1        17
## 5827                     8       24       0     36276       28.9        41
## 5848                    14       12       0     11951       78.6        20
## 5849                    64       13       0     22950       60.4        40
## 5860                    36       11       0     22100       65.0        33
## 5874                    34        8       0     22105       60.4        17
## 5876                    39       11       0       806       15.5        12
## 5886                     8       17       0     18966       52.8        35
## 5923                    28        9       0     11637       77.1        11
## 5948                    15       25       0      6651        6.0        57
## 5962                     6       19       0     33712       83.4        34
## 5974                    77        7       0      8168       43.0        14
## 6002                    72       16       0      3163        5.5        45
## 6051                    26        5       0       191        2.4         7
## 6057                    71        7       0      4879       30.1        30
## 6083                    21       10       0      9517       56.3        24
## 6097                    11       13       0     36121       43.2        21
## 6126                    25        5       0      1148       52.2         7
## 6157                    22       12       1      4405       14.6        22
## 6159                     5       12       0     12443       45.7        41
## 6164                    49        7       1       906       25.2        18
## 6165                    36       12       1      7630       31.9        22
## 6174                    24        8       0       953        2.8        17
## 6183                    27       13       1    209079        0.5        48
## 6196                    49       12       0     24462       75.7        31
## 6203                     5       11       0     10390       17.7        14
## 6204                    14       11       1      6885       18.5        31
## 6207                    10        7       0      5773       38.2         9
## 6209                    24       12       0     10761       16.3        25
## 6237                    19       13       0      5265       27.1        21
## 6247                    33       11       0     11219       62.7        22
## 6250                    37       18       0      2747        5.4        39
## 6253                    29       12       0     24187       55.2        28
## 6289                    27       11       1      5685       65.3        16
## 6294                    35       10       0     10604       22.2        34
## 6298                    39        9       0      6212       50.9        11
## 6307                    15        6       0      3634       66.1        19
## 6316                    64       13       0      6010       18.1        37
## 6333                    25        3       0      5690       48.2         4
## 6352                    65       17       0     63395        1.5        38
## 6367                    21       19       0       255        1.0        30
## 6388                    27       13       0     24107       49.2        25
## 6396                     7        6       0      3985       29.7         7
## 6402                    33        9       0     12134       94.1        21
## 6407                     9       15       0     34817       42.5        39
## 6410                    59       10       0     19797       44.0        22
## 6421                    16       29       1      4598       56.8        52
## 6422                    63        8       0      1161       27.0        20
## 6435                    49       18       1     18198       59.1        21
## 6449                    26       17       0       726        7.4        32
## 6455                    53       15       0     19269       81.6        40
## 6456                    33        8       0      7095       93.4        12
## 6468                    74        9       1     20648       46.5        44
## 6470                    14        4       0      2365       87.6        15
## 6477                    12       11       0      5419       13.3        25
## 6490                    62       22       0     27114       49.5        45
## 6504                    47        9       1     10714       67.8        13
## 6505                    15       17       0      6291       37.9        35
## 6530                    18       23       1     16236       36.7        35
## 6533                    32       24       0     11858       19.6        76
## 6560                    35        9       0     73260       88.3        24
## 6570                     4       16       0     11563       41.6        35
## 6585                    47       20       0     10452       23.9        39
## 6599                    67       13       0      1120        7.3        28
## 6612                    27        4       0      4784       30.1        10
## 6617                    29       13       0     17175       32.3        25
## 6628                     6       18       0     11381       19.4        38
```

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## 6642                    11       10       0     13548       39.6        16
## 6651                    28       18       0       649        1.6        54
## 6653                    34       10       0      8036       25.4        23
## 6660                    23       15       0     22136       65.9        38
## 6673                    51       12       1     14016       61.5        18
## 6675                    36       14       0       463        1.1        40
## 6680                    11       11       0     49120       96.3        15
## 6696                    69        9       1      5407       37.3        25
## 6712                    60       14       0     15541       24.0        39
## 6736                    61       12       0      8505       15.0        22
## 6750                     9       11       0      4586       24.3        16
## 6782                    69       20       0     24553       29.5        31
## 6784                    15        5       0      1644       20.3        15
## 6793                    19       10       0      5740       57.4        24
## 6815                    37       14       0     15782       28.0        22
## 6833                    76        4       0      5239       46.4        11
## 6854                    15       21       0     14625       69.6        22
## 6855                    37        9       0      9034       48.3        44
## 6878                    13       23       0      1802        8.8        46
## 6879                    60        8       0      4403       25.6        48
## 6884                    41       16       0     10002       21.1        23
## 6906                    63       16       0     17863       29.4        38
## 6922                     6       12       0     18185       44.7        31
## 6936                    27        7       0     12153       69.4        21
## 6950                     3       20       0     46498       58.4        43
## 6964                    38       18       1      6698       56.8        51
## 6984                    72       15       0      9586       91.3        30
## 6985                    36       17       0      8350       42.2        37
## 6993                    68       27       0     44448       31.7        59
## 7000                    26        9       0      2281       17.7        42
## 7021                    25       13       0     12164       40.8        27
## 7027                    13        4       0       915       27.7        20
## 7034                    10       13       0     21774       37.3        25
## 7038                    21       10       0     27529       63.9        28
## 7039                    10       20       0     35257       67.4        48
## 7043                    13        8       0      9620       88.3        16
## 7068                    32       11       0      3880       43.6        19
## 7081                    13       17       0      8618       34.5        21
## 7095                    42        8       0      6578       29.5         9
## 7096                    49        7       0      5498       56.1        13
## 7099                    51       13       0     15009       59.3        33
## 7111                    32        6       8      2989       53.4        21
## 7115                    40       16       0     14701       32.7        32
## 7132                    18       12       0     19359       44.8        28
## 7133                    71       12       1      2196       15.5        22
## 7147                     5       16       0     36600       38.7        30
## 7158                    57        5       0      4421       25.0         8
## 7167                    63       14       0     13891       95.1        23
## 7168                    57        9       0     16108       35.1        29
## 7169                    42        6       0      9919       55.1        14
## 7188                    15        6       0      1831       11.1        16
## 7193                    20        8       0      4480       37.0        19
## 7232                    57       12       1      9565       37.5        41
## 7237                    52       22       0      4903       28.5        47
## 7249                     9        9       1     12796       55.9        19
## 7255                    59       17       0     11569       24.9        23
## 7262                    42       20       1      3654       17.7        38
## 7279                    47        7       1      3471       38.1        23
## 7302                    59       19       1     13780       33.0        28
## 7310                    37       22       0     12511        5.3        35
## 7323                    78       15       0     18201       32.1        34
## 7344                    65        9       0      9827       47.7        12
## 7353                    81       11       0      7681       46.3        32
## 7355                    42        7       0      7571       73.5        10
## 7426                    15       10       0     17121       79.6        14
## 7445                    33       14       0     10946       84.9        28
## 7446                    81        5       0      3838       42.6        13
## 7460                    64        9       0     11718       54.5        39
## 7465                    56        9       0     15388       34.8        16
## 7474                     6        9       0      6407       28.9        36
## 7479                    15       13       0     13902       31.9        29
## 7485                    44       27       0     15952       16.5        76
## 7530                    28       14       0      5275       64.3        37
## 7533                    43        4       0        26        0.5         6
## 7538                    41        9       0     45376       45.4        32
## 7555                    58       14       0      3268        8.8        56
## 7562                    20       19       1      4011       12.9        33
## 7564                    41        3       0      2254       16.7        12
## 7579                    31       27       0     19408       13.3        44
## 7591                    72        9       0     12384       68.0        13
## 7594                    32        9       0         0        0.0        14
## 7612                    42       18       0     13632       36.2        22
## 7619                    38       19       1      2120        4.8        33
## 7621                    29       19       0     78825       72.9        44
## 7704                    15       19       0     31762       62.8        37
## 7715                    41       12       0     12249       53.3        52
## 7737                    11       13       0     15514       45.9        42
## 7777                     5       11       0     18960       53.7        22
## 7792                    56        5       0     13450       94.1        47
## 7794                    49       10       0     18961       64.1        20
## 7824                    67       24       0     16284       19.6        42
## 7828                    37       11       0      2110       91.7        23
## 7833                    61       11       0     13970       21.8        26
## 7838                     4       15       0      5017       27.7        34
## 7840                    77        9       0      5855       29.7        14
## 7882                    70       15       0      8760       67.9        25
## 7893                    33       10       0     28990       40.9        28
## 7900                    45       17       0     34909       45.0        48
```

```
## 7910                25      13      0     15305      54.5       33
## 7925                14      11      0     28879      39.2       29
## 7945                60      15      0     45515      62.8       39
## 7963                60      12      2      6978      31.3       19
## 7972                72       8      0      6915      66.5        8
## 7980                33      13      1     18361      33.6       16
## 7985                 4      17      0      7296      30.9       21
## 8006                 3      26      0     18951      27.2       52
## 8009                 1      12      0     10620      27.4       27
## 8024                29      17      0     17196      40.0       27
## 8042                13      15      0      4895      59.7       18
## 8046                27      16      0     20706      47.7       28
## 8047                23      10      0      8981      65.6       16
## 8080                39      12      0     41936      96.4       36
## 8086                39      13      0      3908      14.8       47
## 8111                64      20      0     13575      53.9       31
## 8125                44       9      0      1978       7.9       11
## 8140                45      27      0     21474      31.7       40
## 8148                37      18      0      9489      48.7       43
## 8154                62      15      0     11630      26.1       19
## 8174                 7      21      0      8987      16.3       31
## 8192                58      13      0       719       5.1       21
## 8261                 9       6      0      8431      65.4       14
## 8269                26       6      0        49       0.4       12
## 8275                47      14      1     12478      62.4       18
## 8287                34       8      1      4077      61.8       28
## 8303                36      15      1     12515      33.4       32
## 8304                 6      12      1      7827      20.7       32
## 8339                59      21      0     11345      27.7       51
## 8352                22      25      0     15158      43.1       65
## 8370                29       8      1      7532      44.3       12
## 8384                26       6      0       259       2.1       15
## 8388                40      29      0     14375      47.8       51
## 8400                26       8      0     12854      55.4       21
## 8420                54       9      0     14663      54.3       27
## 8432                15      15      1      8118      23.1       29
## 8439                49       8      0      5651      60.1       11
## 8440                62      12      0      9649      48.0       38
## 8444                35       8      0       590       7.8       19
## 8455                17      27      0     15530      22.7       53
## 8457                28       6      0      2027      57.9       19
## 8460                10      14      0      5669      64.4       28
## 8466                20       8      0      4734      42.3       29
## 8478                 8      15      1     15416      54.5       22
## 8485                51      11      0      6944       8.2       35
## 8494                43      14      1       276      13.8       17
## 8495                35      26      0     45040      43.4       53
## 8503                56      12      0      7071      50.1       23
## 8520                32      13      0      1061      30.3       15
## 8546                24       4      0      3812      34.7       12
## 8548                65      15      2     13731      61.6       23
## 8562                30       5      0      3895      76.4       20
## 8577                60      15      0      1914       9.9       35
## 8582                23      12      0      4085      23.3       20
## 8584                51      12      0     12194      32.5       26
## 8593                 5      12      0     92025      68.9       28
## 8597                33      14      0      7319      41.1       28
## 8601                37      14      0      8672      16.8       23
## 8603                73      16      1      3339      52.2       36
## 8645                26       5      0      6433      91.9       40
## 8659                43      16      0      4025      13.4       35
## 8679                45      12      1    113898      60.7       30
## 8682                53      13      0      9330      33.7       21
## 8691                37      10      0     17734      63.1       33
## 8695                28      41      0      9908      35.1       45
## 8698                33      19      0     13970      51.2       34
## 8725                55      14      0        16       0.1       26
## 8730                14      23      0     25677      66.3       34
## 8733                69      11      0     23966      97.0       32
## 8734                20      10      0      5025      36.9       25
## 8748                15       6      0      2610      51.2       10
## 8755                62      11      0     10343      21.0       29
## 8774                62      19      0     27695      61.5       30
## 8784                76       8      0      5575      37.9       20
## 8789                59      16      0      9236      26.5       31
## 8799                46      13      1      4849      22.1       26
## 8813                49       8      0     23612      54.7       19
## 8815                37      11      0      6056      40.1       50
## 8827                41      12      0     16844      37.1       41
## 8829                25       5      0      4715      52.4       27
## 8833                34       6      0     10140      48.1       10
## 8836                10       9      0     11187      42.4       21
## 8842                45      10      0      8999      28.1       15
## 8849                42      11      0      6404      29.8       30
## 8863                18       8      0     11637      33.2       38
## 8879                41      12      0      5050      15.1       31
## 8886                12      12      0      2829      21.1       24
## 8889                13       7      1       919      14.1       18
## 8930                68       3      0      2034      72.6        6
## 8934                40       6      0     15534      98.3       23
## 8936                34      20      0      9401      13.3       35
## 8940                35      14      0     18616      31.8       21
## 8949                30      18      0      6352       9.0       26
## 8952                10       7      0      6321      32.1       13
## 8954                12      17      0     82957      86.5       25
## 8996                26      19      0     21586      46.3       48
## 9028                30       8      0      5465      57.5       36
## 9029                 8       8      0       163       1.6       15
```

```
## 9039                    46       12       0      9840       37.8        24
## 9043                    24        9       0     12091       42.7        27
## 9044                    56       17       0     22988       38.4        39
## 9046                     9       21       0      7875       29.2        44
## 9062                    66       10       1       787        6.1        15
## 9065                    66       19       0      6065        7.3        45
## 9144                    28        6       0      4901       22.8        13
## 9172                    29       18       0     61882       12.8        34
## 9184                    70       14       0     35762        1.1        27
## 9201                    68       38       0      1692        2.2        79
## 9213                    37       14       0     11992       62.1        32
## 9224                    65       16       1      5031       29.6        26
## 9233                    49       13       0      7694       19.9        21
## 9239                    13       14       0     19811       65.4        30
## 9256                    41       23       0      6326       33.6        56
## 9260                    10       14       0      5667       14.6        25
## 9272                    34        9       0      6291       58.3        19
## 9279                    31       11       0     10539       44.8        26
## 9290                    20        6       0      9587       52.7        15
## 9302                    67        7       0       838        7.6        12
## 9308                    74       13       1     11285       36.4        22
## 9315                    67       17       0     55581       41.5        25
## 9320                    31       12       0     14615       63.0        26
## 9341                    79       12       0     23366       37.0        19
## 9379                    66        8       0     20598       76.6        19
## 9400                    19        9       1      6682       49.5        18
## 9418                    10       15       0    142899       89.7        30
## 9437                    16       10       1      6574       27.9        19
## 9477                    44       19       0     24146       28.8        43
## 9495                     9       19       0      6084       96.6        43
## 9496                     8       22       0      2018        2.4        70
## 9505                    66       11       0     16822       51.3        28
## 9532                    72       11       0     14604       41.3        37
## 9538                    26        4       0       296        7.8        10
## 9583                    51        7       0      7549       45.8        14
## 9585                     8        6       1       749       28.8         8
## 9597                    10        6       0      6702       72.8        13
## 9608                     8        8       0      2070       11.1        13
## 9620                    48       10       0      6249       31.1        15
## 9661                   109       18       0     13288       41.9        28
## 9687                    26       15       0     29566       48.5        35
## 9693                    14       17       0     24223       96.9        25
## 9703                    45       12       0     16757       90.1        41
## 9709                    18        5       0         0        0.0        11
## 9726                    20        4       0       534        4.9        17
## 9805                    32        9       0      1652        7.3        17
## 9806                    21        6       0      9029       66.4        28
## 9809                    18       12       1     13017       86.2        20
## 9824                    39        6       0      6360       32.6        12
## 9826                    21       15       0      9140       37.9        51
## 9837                    19       19       0      5597       10.0        30
## 9841                    64        6       0      1239        8.7        26
## 9844                    25       12       0      9752       17.9        46
## 9849                    80        8       0     10613       33.1        22
## 9912                    25        9       1     11171       93.1        19
## 9925                    34       13       0     11449       44.9        21
## 9926                    39       16       0     11613       18.3        36
## 9933                    41       12       0     25524       67.3        25
## 9937                    52       11       1       412        1.7        32
## 9941                    18       10       0      6024       17.1        36
## 9951                    20       17       0     32288       72.2        20
## 9960                    50       10       0      1126       15.9        22
## 9987                    21       18       1     11823       51.2        27
## 9997                    16        6       0      3240       60.0        13
## 10003                   47       21       0     46573       68.2        31
## 10010                   36        8       0        38        0.7        43
## 10011                   18       11       0      8296       50.0        24
## 10047                   70       21       0     13861       57.8        32
## 10050                   19        8       0     23051       76.1        30
## 10093                   14       26       0      9770       32.5        66
## 10104                   15       15       0      1461        2.7        31
## 10111                   21        9       0     17043       77.5        28
## 10131                   58       31       0     17699       38.6        67
## 10137                   33        5       0      2347       58.7        24
## 10144                   40       11       0     11171       41.2        19
## 10169                   44       13       0     17752       65.0        44
## 10172                   12       19       0       945        1.3        30
## 10176                   15       11       1     14756       54.9        19
## 10184                   61       13       0     35565       86.1        22
## 10202                   31        9       0      9917       52.2        42
## 10209                   51        7       1      7341       46.8        11
## 10215                   79        9       1     14605       31.8        23
## 10242                   82       12       0      5260       31.7        19
## 10248                   68        6       0      4003       35.7        37
## 10267                   56       18       0     17015       43.4        38
## 10275                    4        8       0      1771       19.7        21
## 10276                   43       17       0      3862        9.3        32
##       initial_list_status out_prncp out_prncp_inv total_pymnt total_pymnt_inv
## 35                      w         0             0   10129.754        10129.75
## 54                      w         0             0   10064.902        10064.90
## 59                      f         0             0    8247.378         8247.38
## 60                      w         0             0   40058.101        40058.10
## 71                      w         0             0   10165.407        10165.41
## 73                      w         0             0   24308.364        24308.36
## 74                      w         0             0   10004.453        10004.45
## 90                      w         0             0    6689.508         6689.51
## 101                     w         0             0    3000.951         3000.95
## 124                     f         0             0    6741.153         6741.15
```

```
## 137                    w        0            0    3065.648         3065.65
## 142                    w        0            0    8556.076         8556.08
## 143                    w        0            0    8080.777         8080.78
## 160                    f        0            0    6673.452         6673.45
## 161                    f        0            0    8003.277         7728.16
## 165                    w        0            0   13510.179        13510.18
## 174                    f        0            0    3046.467         3046.47
## 192                    w        0            0   20881.230        20881.23
## 193                    w        0            0   12153.858        12153.86
## 206                    w        0            0    8771.295         8771.30
## 212                    w        0            0   10007.539        10007.54
## 218                    w        0            0   18006.714        18006.71
## 229                    w        0            0    4037.502         4037.50
## 232                    w        0            0    6102.682         6102.68
## 234                    w        0            0    5003.058         5003.06
## 236                    f        0            0    2547.106         2547.11
## 246                    w        0            0   36003.939        36003.94
## 247                    f        0            0    3025.068         3025.07
## 262                    w        0            0    6081.950         6081.95
## 285                    w        0            0   10114.262        10114.26
## 296                    w        0            0    9673.070         9673.07
## 302                    f        0            0    1009.863         1009.86
## 304                    f        0            0    1018.850         1018.85
## 324                    w        0            0   15026.394        15026.39
## 326                    w        0            0   14398.852        14398.85
## 328                    w        0            0   15489.158        15489.16
## 329                    w        0            0     284.250          284.25
## 330                    w        0            0   25069.584        25069.58
## 338                    w        0            0   20318.150        20318.15
## 353                    w        0            0   15299.051        15299.05
## 357                    f        0            0   11068.220        11068.22
## 361                    w        0            0       0.000            0.00
## 370                    w        0            0   30615.238        30615.24
## 377                    w        0            0    8130.199         8130.20
## 382                    w        0            0   18867.632        18867.63
## 410                    w        0            0   10112.577        10112.58
## 428                    w        0            0    7001.625         7001.63
## 450                    w        0            0    6061.020         6061.02
## 465                    f        0            0    2500.004         2500.00
## 466                    w        0            0   15203.513        15203.51
## 471                    w        0            0    7759.239         7759.24
## 479                    w        0            0    5059.899         5059.90
## 485                    w        0            0    6142.850         6142.85
## 491                    w        0            0    6223.572         6223.57
## 496                    w        0            0   10233.075        10233.07
## 497                    w        0            0   18629.191        18629.19
## 499                    w        0            0   12178.407        12178.41
## 548                    w        0            0   21568.523        21568.52
## 558                    w        0            0    8519.040         8519.04
## 570                    w        0            0   10332.062        10332.06
## 577                    f        0            0   13105.830        13080.63
## 579                    w        0            0    9007.840         9007.84
## 608                    w        0            0    3802.159         3802.16
## 626                    w        0            0   20013.581        20013.58
## 634                    w        0            0   20015.786        20015.79
## 636                    w        0            0   10301.942        10301.94
## 641                    w        0            0   13204.031        13204.03
## 658                    w        0            0    3148.522         3148.52
## 660                    w        0            0   20147.444        20147.44
## 670                    w        0            0    1579.529         1579.53
## 674                    w        0            0   10345.593        10345.59
## 689                    w        0            0    8213.570         8213.57
## 696                    w        0            0   17348.374        17348.37
## 705                    w        0            0   12409.055        12409.05
## 713                    w        0            0   31283.807        31283.81
## 752                    w        0            0   12964.540        12964.54
## 790                    f        0            0   10605.232        10605.23
## 799                    w        0            0   10238.291        10238.29
## 819                    w        0            0   12328.785        12328.79
## 840                    w        0            0   32016.720        32016.72
## 844                    w        0            0    4001.672         4001.67
## 845                    f        0            0   20719.422        20719.42
## 855                    w        0            0   25702.650        25702.65
## 866                    w        0            0   35922.048        35922.05
## 869                    w        0            0    2521.135         2521.13
## 899                    w        0            0   11373.771        11373.77
## 904                    w        0            0    8418.439         8418.44
## 917                    w        0            0    5551.218         5551.22
## 940                    w        0            0   20644.176        20644.18
## 957                    w        0            0    1537.285         1537.29
## 960                    w        0            0   24521.685        24521.69
## 993                    f        0            0    4585.492         4585.49
## 998                    w        0            0   17092.532        17092.53
## 1025                   w        0            0   36830.097        36830.10
## 1056                   w        0            0    3121.814         3121.81
## 1063                   w        0            0    4068.525         4068.52
## 1083                   w        0            0   26619.562        26619.56
## 1105                   w        0            0   17813.751        17813.75
## 1117                   w        0            0    6034.970         6034.97
## 1118                   w        0            0    7015.130         7015.13
## 1146                   f        0            0   27655.622        27627.97
## 1170                   f        0            0    6422.983         6422.98
## 1227                   w        0            0    7579.735         7579.74
## 1263                   f        0            0    5003.246         5003.25
## 1264                   w        0            0   10324.718        10324.72
## 1273                   w        0            0   14064.358        14064.36
## 1285                   w        0            0    5073.369         5073.37
## 1319                   w        0            0    3571.513         3571.51
```

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## 1337                    w        0            0    6175.132         6175.13
## 1349                    w        0            0   12684.057        12684.06
## 1351                    w        0            0   35903.762        35903.76
## 1356                    w        0            0   10016.733        10016.73
## 1386                    w        0            0    5144.163         5144.16
## 1388                    w        0            0    8168.538         8168.54
## 1390                    w        0            0   15342.770        15342.77
## 1410                    w        0            0   30697.162        30697.16
## 1416                    w        0            0   40576.122        40576.12
## 1434                    w        0            0   22010.112        22010.11
## 1439                    f        0            0    2090.880         2090.88
## 1449                    f        0            0   26411.009        26411.01
## 1459                    w        0            0   15145.628        15145.63
## 1462                    w        0            0   12406.646        12406.65
## 1480                    w        0            0   12007.324        12007.32
## 1484                    f        0            0    5177.194         5177.19
## 1487                    w        0            0   36366.325        36366.32
## 1527                    w        0            0    5447.856         5447.86
## 1529                    w        0            0    6218.726         6218.73
## 1530                    w        0            0    5322.657         5322.66
## 1545                    f        0            0   36388.299        36128.38
## 1567                    w        0            0    5768.582         5768.58
## 1597                    w        0            0   10887.315        10887.31
## 1601                    w        0            0   16628.331        16628.33
## 1623                    w        0            0   41234.140        41234.14
## 1633                    w        0            0    1016.800         1016.80
## 1636                    w        0            0   15416.795        15416.80
## 1640                    w        0            0   21001.960        21001.96
## 1645                    w        0            0    7815.884         7815.88
## 1650                    w        0            0   31324.223        31324.22
## 1671                    w        0            0    1509.803         1509.80
## 1672                    w        0            0   11842.730        11842.73
## 1696                    w        0            0     274.640          274.64
## 1704                    w        0            0   10203.859        10203.86
## 1721                    w        0            0   12215.982        12215.98
## 1724                    w        0            0   12361.153        12361.15
## 1728                    w        0            0   10675.630        10675.63
## 1730                    w        0            0   27531.250        27531.25
## 1734                    f        0            0    1114.028         1114.03
## 1752                    w        0            0    4703.606         4703.61
## 1771                    w        0            0   35025.038        35025.04
## 1816                    w        0            0   15511.566        15511.57
## 1846                    w        0            0   11297.842        11297.84
## 1850                    w        0            0    4982.743         4982.74
## 1853                    w        0            0   10661.916        10661.92
## 1856                    w        0            0   20805.322        20805.32
## 1857                    w        0            0    2020.362         2020.36
## 1862                    w        0            0    5560.744         5560.74
## 1865                    f        0            0    8239.202         8239.20
## 1866                    w        0            0   15222.760        15222.76
## 1867                    w        0            0   28252.453        28252.45
## 1896                    w        0            0   12438.052        12438.05
## 1905                    f        0            0    2586.655         2586.65
## 1907                    w        0            0    4116.748         4116.75
## 1922                    w        0            0   15965.919        15965.92
## 1930                    f        0            0   10362.320        10362.32
## 1933                    w        0            0   10625.674        10625.67
## 1952                    w        0            0   10108.249        10108.25
## 1956                    w        0            0    4026.903         4026.90
## 1961                    w        0            0   19790.555        19790.56
## 1963                    w        0            0   12020.940        12020.94
## 2004                    w        0            0    3237.317         3237.32
## 2012                    w        0            0   10266.540        10266.54
## 2017                    w        0            0   25472.647        25472.65
## 2019                    w        0            0   26638.653        26638.65
## 2026                    w        0            0   15324.569        15324.57
## 2027                    w        0            0   40612.192        40612.19
## 2039                    w        0            0    9422.907         9422.91
## 2041                    w        0            0   30051.135        30051.13
## 2051                    w        0            0   10014.000        10014.00
## 2060                    f        0            0    1564.912         1564.91
## 2065                    f        0            0   10274.109        10274.11
## 2073                    w        0            0   28010.327        28010.33
## 2105                    w        0            0    3585.092         3585.09
## 2117                    w        0            0    2957.984         2957.98
## 2128                    w        0            0    6001.604         6001.60
## 2129                    w        0            0    1702.510         1702.51
## 2136                    f        0            0    5458.267         5458.27
## 2137                    f        0            0   12571.694        12571.69
## 2148                    f        0            0    3120.310         3120.31
## 2155                    w        0            0    3036.071         3036.07
## 2168                    w        0            0    8139.649         8139.65
## 2197                    w        0            0   10289.564        10289.56
## 2215                    w        0            0    4010.757         4010.76
## 2224                    w        0            0   10014.254        10014.25
## 2234                    f        0            0   10965.732        10965.73
## 2255                    w        0            0   16439.390        16439.39
## 2258                    w        0            0   24664.475        24664.47
## 2286                    w        0            0    3059.211         3059.21
## 2296                    w        0            0    3210.754         3210.75
## 2329                    f        0            0    1084.393         1084.39
## 2342                    w        0            0    5094.845         5094.84
## 2347                    w        0            0   31454.718        31454.72
## 2357                    f        0            0   11276.122        11276.12
## 2377                    w        0            0    3392.058         3392.06
## 2393                    f        0            0       0.000            0.00
## 2396                    w        0            0   36616.838        36616.84
## 2399                    w        0            0    8190.209         8190.21
```

```
## 2405                    w        0            0   40674.996        40675.00
## 2420                    w        0            0    6007.507         6007.51
## 2425                    f        0            0   15373.894        15373.89
## 2429                    w        0            0    8480.922         8480.92
## 2439                    w        0            0    4911.498         4911.50
## 2447                    w        0            0   30107.671        30107.67
## 2449                    f        0            0    2150.561         2150.56
## 2457                    w        0            0   10281.708        10281.71
## 2478                    w        0            0    8765.387         8765.39
## 2480                    w        0            0    4229.402         4229.40
## 2492                    w        0            0   16002.927        16002.93
## 2494                    w        0            0   19550.558        19550.56
## 2504                    w        0            0    4530.851         4530.85
## 2510                    w        0            0    6629.640         6629.64
## 2514                    w        0            0    3045.726         3045.73
## 2516                    w        0            0   15091.597        15091.60
## 2522                    w        0            0    1149.340         1149.34
## 2529                    w        0            0   11889.696        11889.70
## 2535                    w        0            0     365.710          365.71
## 2545                    w        0            0    8282.190         8282.19
## 2549                    w        0            0   11652.412        11652.41
## 2593                    w        0            0     572.580          572.58
## 2598                    w        0            0   11381.039        11381.04
## 2604                    f        0            0    2464.288         2464.29
## 2628                    w        0            0   10764.702        10764.70
## 2631                    f        0            0    6484.950         6484.95
## 2661                    w        0            0   12039.460        12039.46
## 2673                    w        0            0   40016.680        40016.68
## 2692                    w        0            0    1975.040         1975.04
## 2707                    w        0            0   10006.111        10006.11
## 2714                    w        0            0   30016.275        30016.28
## 2715                    w        0            0   22160.261        22160.26
## 2761                    w        0            0   16689.639        16689.64
## 2772                    w        0            0   12779.357        12779.36
## 2788                    w        0            0   10061.068        10061.07
## 2789                    w        0            0   22220.389        22220.39
## 2820                    w        0            0   10476.157        10476.16
## 2840                    w        0            0   14302.808        14302.81
## 2856                    w        0            0   21602.643        21602.64
## 2858                    w        0            0   16546.676        16546.68
## 2861                    f        0            0    8469.845         8469.84
## 2872                    w        0            0    3649.279         3649.28
## 2877                    w        0            0   33182.506        33182.51
## 2878                    w        0            0   12443.928        12443.93
## 2879                    f        0            0   19973.865        19688.89
## 2893                    f        0            0   30017.485        29992.47
## 2913                    w        0            0    1206.930         1206.93
## 2915                    w        0            0   35171.200        35171.20
## 2918                    w        0            0   10395.753        10395.75
## 2940                    w        0            0   10391.109        10391.11
## 2942                    w        0            0   15017.967        15017.97
## 2954                    w        0            0    7248.376         7248.38
## 2976                    f        0            0    6167.030         6167.03
## 2977                    w        0            0    5149.187         5149.19
## 2978                    w        0            0    7160.489         7160.49
## 2982                    f        0            0   10161.413        10161.41
## 3002                    w        0            0    9700.445         9700.45
## 3012                    f        0            0   16791.926        16791.93
## 3017                    f        0            0    3230.940         3230.94
## 3018                    f        0            0   10656.584        10656.58
## 3021                    w        0            0       0.000            0.00
## 3034                    w        0            0    7086.584         7086.58
## 3045                    w        0            0   15458.669        15458.67
## 3050                    f        0            0   15063.414        15063.41
## 3057                    w        0            0   20430.138        20430.14
## 3071                    w        0            0   10190.672        10190.67
## 3104                    w        0            0    8270.046         8270.05
## 3112                    w        0            0   30632.784        30632.78
## 3124                    w        0            0   20294.495        20294.49
## 3150                    w        0            0   18253.683        18253.68
## 3160                    w        0            0   16188.829        16188.83
## 3165                    w        0            0   37455.154        37455.15
## 3172                    w        0            0   15491.672        15491.67
## 3177                    w        0            0    7100.115         7100.11
## 3213                    w        0            0    4105.014         4105.01
## 3222                    w        0            0    2033.618         2033.62
## 3237                    w        0            0    7553.805         7553.81
## 3252                    f        0            0    6583.148         6583.15
## 3257                    w        0            0    8546.287         8546.29
## 3258                    w        0            0    1957.570         1957.57
## 3265                    w        0            0   24562.548        24562.55
## 3276                    w        0            0    6125.023         6125.02
## 3289                    w        0            0   31244.438        31244.44
## 3307                    w        0            0   12578.552        12578.55
## 3312                    f        0            0   36952.501        36952.50
## 3317                    w        0            0   36016.383        36016.38
## 3333                    w        0            0   32686.871        32686.87
## 3366                    w        0            0   31877.200        31877.20
## 3383                    w        0            0    7379.739         7379.74
## 3419                    w        0            0   13020.622        13020.62
## 3421                    f        0            0    4524.245         4524.25
## 3422                    w        0            0    9820.530         9820.53
## 3429                    w        0            0   20741.002        20741.00
## 3433                    w        0            0   10495.418        10495.42
## 3449                    w        0            0   15697.425        15697.42
## 3458                    w        0            0   16793.124        16793.12
## 3467                    w        0            0    9444.730         9444.73
## 3471                    w        0            0   12263.666        12263.67
```

```
## 3480                    f         0             0   20504.967        20504.97
## 3482                    f         0             0    9324.794         9324.79
## 3502                    w         0             0   18292.213        18292.21
## 3504                    f         0             0    6115.908         6115.91
## 3507                    w         0             0    3069.404         3069.40
## 3536                    w         0             0   16219.303        16219.30
## 3538                    w         0             0   19477.004        19477.00
## 3542                    w         0             0   12591.374        12591.37
## 3547                    w         0             0    6099.657         6099.66
## 3553                    w         0             0   30617.600        30617.60
## 3567                    w         0             0   10023.228        10023.23
## 3590                    w         0             0   18293.533        18293.53
## 3607                    w         0             0   10328.969        10328.97
## 3623                    f         0             0   12575.566        12575.57
## 3635                    w         0             0    7474.840         7474.84
## 3655                    w         0             0    8145.485         8145.49
## 3684                    w         0             0    5022.449         5022.45
## 3687                    f         0             0    6726.203         6726.20
## 3688                    w         0             0   13025.329        13025.33
## 3699                    w         0             0   21638.521        21638.52
## 3701                    w         0             0    3634.108         3634.11
## 3712                    w         0             0   12558.540        12558.54
## 3730                    w         0             0   13447.791        13447.79
## 3749                    w         0             0    3604.890         3604.89
## 3756                    w         0             0    2637.010         2637.01
## 3758                    f         0             0    6028.489         6028.49
## 3771                    w         0             0   12219.329        12219.33
## 3785                    w         0             0   15308.081        15308.08
## 3788                    w         0             0   20536.638        20536.64
## 3852                    f         0             0    5281.538         5281.54
## 3857                    w         0             0   35355.550        35355.55
## 3865                    w         0             0   26279.194        26279.19
## 3889                    w         0             0   20693.632        20693.63
## 3892                    w         0             0    1928.480         1928.48
## 3901                    w         0             0    6289.849         6289.85
## 3917                    w         0             0   12040.056        12040.06
## 3924                    w         0             0    7559.009         7559.01
## 3938                    w         0             0    8176.900         8176.90
## 3947                    w         0             0     938.880          938.88
## 3949                    f         0             0   10365.780        10339.87
## 3959                    w         0             0    8021.566         8021.57
## 3977                    w         0             0    5262.381         5262.38
## 3990                    w         0             0   20976.146        20976.15
## 4001                    w         0             0    4104.650         4104.65
## 4003                    f         0             0   15530.004        15530.00
## 4016                    w         0             0   37654.971        37654.97
## 4017                    f         0             0   10230.717        10230.72
## 4021                    w         0             0   20811.426        20811.43
## 4022                    w         0             0     973.280          973.28
## 4026                    w         0             0    4170.220         4170.22
## 4036                    w         0             0   10541.900        10541.90
## 4049                    w         0             0   15357.171        15357.17
## 4054                    w         0             0   15853.455        15853.46
## 4093                    w         0             0   25028.840        25028.84
## 4099                    w         0             0    1041.990         1041.99
## 4104                    w         0             0   35239.987        35239.99
## 4107                    w         0             0    4954.180         4954.18
## 4110                    w         0             0   16150.003        16150.00
## 4122                    w         0             0   19671.339        19671.34
## 4128                    w         0             0     658.800          658.80
## 4131                    w         0             0    3058.889         3058.89
## 4133                    f         0             0   12182.839        12182.84
## 4135                    w         0             0    6421.925         6421.93
## 4151                    f         0             0    4330.647         4330.65
## 4153                    w         0             0   13322.570        13322.57
## 4157                    w         0             0    5229.069         5229.07
## 4233                    w         0             0   10538.180        10538.18
## 4237                    f         0             0    2683.202         2683.20
## 4254                    f         0             0   10210.109        10210.11
## 4258                    w         0             0    1720.802         1720.80
## 4259                    w         0             0    1723.450         1723.45
## 4261                    w         0             0    9999.838         9999.84
## 4265                    w         0             0   13090.670        13090.67
## 4269                    w         0             0     349.250          349.25
## 4297                    f         0             0    2166.610         2166.61
## 4307                    w         0             0    2892.590         2892.59
## 4341                    w         0             0    2104.532         2104.53
## 4342                    w         0             0   10666.684        10666.68
## 4351                    w         0             0    7294.069         7294.07
## 4352                    w         0             0    5145.178         5145.18
## 4376                    w         0             0    3209.503         3209.50
## 4395                    w         0             0    3206.614         3206.61
## 4412                    w         0             0   13643.529        13643.53
## 4414                    w         0             0   10359.437        10359.44
## 4448                    w         0             0   13045.530        13045.53
## 4466                    w         0             0   23619.076        23619.08
## 4476                    w         0             0   10209.314        10209.31
## 4477                    w         0             0    9135.919         9135.92
## 4498                    f         0             0    2555.044         2555.04
## 4501                    w         0             0   17342.537        17342.54
## 4506                    w         0             0   37210.151        37210.15
## 4517                    w         0             0    7409.380         7409.38
## 4524                    w         0             0    5253.504         5253.50
## 4532                    w         0             0   14355.778        14355.78
## 4539                    w         0             0   17238.171        17238.17
## 4552                    w         0             0   16012.411        16012.41
## 4565                    w         0             0    8309.315         8309.31
## 4580                    f         0             0   22445.286        22445.29
```

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## 4584                w        0            0   12671.744        12671.74
## 4586                w        0            0   13165.052        13165.05
## 4611                f        0            0   40826.322        40571.16
## 4632                w        0            0    6616.200         6616.20
## 4682                w        0            0   17011.326        17011.33
## 4688                w        0            0    7388.186         7388.19
## 4692                w        0            0   10273.085        10273.09
## 4712                w        0            0    4150.534         4150.53
## 4743                f        0            0    7800.002         7800.00
## 4758                w        0            0   42304.674        42304.67
## 4769                w        0            0   27947.310        27947.31
## 4774                w        0            0   17446.670        17446.67
## 4775                w        0            0   30283.986        30283.99
## 4786                w        0            0    1620.247         1620.25
## 4791                f        0            0    5052.935         5052.93
## 4792                w        0            0   12610.185        12610.19
## 4797                w        0            0   33993.026        33993.03
## 4801                w        0            0   11251.737        11251.74
## 4816                w        0            0   13289.407        13289.41
## 4818                w        0            0   10263.028        10263.03
## 4832                f        0            0   18006.514        17756.42
## 4834                w        0            0   10215.734        10215.73
## 4880                f        0            0    5110.885         5110.88
## 4921                w        0            0    5432.594         5432.59
## 4922                w        0            0   22606.640        22606.64
## 4934                w        0            0   20010.135        20010.13
## 4951                w        0            0   10947.407        10947.41
## 4958                w        0            0    6255.261         6255.26
## 4985                w        0            0    6304.085         6304.09
## 5010                w        0            0   10833.097        10833.10
## 5021                w        0            0   11464.350        11464.35
## 5035                w        0            0   10010.370        10010.37
## 5036                w        0            0   16448.674        16448.67
## 5038                w        0            0    1639.430         1639.43
## 5059                w        0            0   12475.764        12475.76
## 5060                w        0            0    2517.355         2517.36
## 5070                w        0            0   11623.529        11623.53
## 5103                w        0            0    1260.661         1260.66
## 5134                f        0            0   21269.075        21269.07
## 5136                w        0            0   12499.117        12499.12
## 5155                w        0            0   36790.802        36790.80
## 5157                f        0            0   24512.845        24512.84
## 5162                f        0            0    5259.994         5259.99
## 5163                w        0            0   21078.086        21078.09
## 5168                w        0            0   16688.505        16688.50
## 5169                w        0            0   12311.388        12311.39
## 5177                w        0            0    5244.950         5244.95
## 5184                w        0            0   31090.793        31090.79
## 5186                f        0            0    5677.448         5677.45
## 5218                w        0            0   12681.762        12681.76
## 5220                w        0            0     646.250          646.25
## 5221                w        0            0    5065.450         5065.45
## 5244                f        0            0    4644.434         4644.43
## 5255                w        0            0   24264.990        24264.99
## 5278                w        0            0    8487.829         8487.83
## 5295                w        0            0   10005.299        10005.30
## 5317                w        0            0    2960.137         2960.14
## 5325                w        0            0   13860.363        13860.36
## 5345                w        0            0   17550.021        17550.02
## 5348                w        0            0   10244.843        10244.84
## 5354                f        0            0   31767.182        31475.98
## 5356                f        0            0   13153.518        13153.52
## 5358                w        0            0   18809.254        18809.25
## 5365                w        0            0   12347.346        12347.35
## 5379                w        0            0      81.590           81.59
## 5390                w        0            0   21262.939        21262.94
## 5406                w        0            0   31493.837        31493.84
## 5416                w        0            0   32803.907        32803.91
## 5431                w        0            0    6233.811         6233.81
## 5442                f        0            0    3241.170         3241.17
## 5467                w        0            0   10542.304        10542.30
## 5494                w        0            0    6014.795         6014.79
## 5554                w        0            0   15723.552        15723.55
## 5556                f        0            0   10994.589        10967.10
## 5565                w        0            0    8082.770         8082.77
## 5566                f        0            0   42679.661        42679.66
## 5568                w        0            0    2178.440         2178.44
## 5574                w        0            0    5109.990         5109.99
## 5597                w        0            0    2813.720         2813.72
## 5621                w        0            0   11471.884        11471.88
## 5623                w        0            0   11447.187        11447.19
## 5643                w        0            0    3368.360         3368.36
## 5664                f        0            0   13729.526        13729.53
## 5666                w        0            0    2497.750         2497.75
## 5720                w        0            0    4918.260         4918.26
## 5731                w        0            0   21022.724        21022.72
## 5733                f        0            0    6753.087         6753.09
## 5734                w        0            0    4001.382         4001.38
## 5749                w        0            0    7744.964         7744.96
## 5759                w        0            0   35462.506        35462.51
## 5760                w        0            0   16950.991        16950.99
## 5784                w        0            0    6775.274         6775.27
## 5786                w        0            0    2176.918         2176.92
## 5794                f        0            0    4909.599         4909.60
## 5806                w        0            0    8337.194         8337.19
## 5809                f        0            0    8011.468         8011.47
## 5827                f        0            0   26901.768        26901.77
## 5848                w        0            0   11026.619        11026.62
```

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## 5849                w        0            0   16085.566        16085.57
## 5860                w        0            0   14212.045        14212.04
## 5874                f        0            0   25383.956        25383.96
## 5876                w        0            0    4302.390         4302.39
## 5886                f        0            0   10217.316        10217.32
## 5923                w        0            0    1032.190         1032.19
## 5948                w        0            0    7309.427         7309.43
## 5962                w        0            0   12648.854        12648.85
## 5974                w        0            0    9353.165         9353.17
## 6002                w        0            0    9080.951         9080.95
## 6051                w        0            0   15679.694        15679.69
## 6057                w        0            0    8175.695         8175.70
## 6083                w        0            0   20911.628        20911.63
## 6097                w        0            0   40918.883        40918.88
## 6126                w        0            0    1252.220         1252.22
## 6157                w        0            0   16555.156        16555.16
## 6159                f        0            0   10177.686        10177.69
## 6164                w        0            0   10980.353        10980.35
## 6165                f        0            0   21635.367        21608.32
## 6174                w        0            0   41426.210        41426.21
## 6183                f        0            0    3589.660         3587.42
## 6196                w        0            0   10625.739        10625.74
## 6203                w        0            0    1425.810         1425.81
## 6204                f        0            0    3598.092         3598.09
## 6207                w        0            0   10928.269        10928.27
## 6209                w        0            0   17144.775        17144.77
## 6237                w        0            0    3852.849         3852.85
## 6247                w        0            0   16225.654        16225.65
## 6250                w        0            0    7004.372         7004.37
## 6253                w        0            0    5260.782         5260.78
## 6289                w        0            0   10571.000        10571.00
## 6294                w        0            0    2035.907         2035.91
## 6298                w        0            0    6040.767         6040.77
## 6307                w        0            0   19436.028        19436.03
## 6316                f        0            0    5219.572         5219.57
## 6333                w        0            0    1014.950         1014.95
## 6352                w        0            0   41442.508        41442.51
## 6367                f        0            0    8165.554         8165.55
## 6388                w        0            0   13009.822        13009.82
## 6396                w        0            0     925.100          925.10
## 6402                w        0            0    1264.050         1264.05
## 6407                w        0            0    3018.290         3018.29
## 6410                w        0            0   20649.735        20649.73
## 6421                w        0            0    1047.969         1047.97
## 6422                w        0            0     395.800          395.80
## 6435                w        0            0   15121.041        15121.04
## 6449                w        0            0   10209.849        10209.85
## 6455                w        0            0   37883.856        37883.86
## 6456                w        0            0     543.020          543.02
## 6468                f        0            0   38563.929        38563.93
## 6470                w        0            0   11112.021        11112.02
## 6477                w        0            0   14542.455        14542.46
## 6490                w        0            0    7433.093         7433.09
## 6504                w        0            0   10802.980        10802.98
## 6505                w        0            0    8187.907         8187.91
## 6530                f        0            0   22074.114        22074.11
## 6533                w        0            0   30615.228        30615.23
## 6560                w        0            0   10105.324        10105.32
## 6570                w        0            0   27550.430        27550.43
## 6585                w        0            0   15697.171        15697.17
## 6599                w        0            0    1262.530         1262.53
## 6612                w        0            0   32187.545        32187.55
## 6617                w        0            0   10532.183        10532.18
## 6628                w        0            0   14842.503        14842.50
## 6642                w        0            0   18357.256        18357.26
## 6651                w        0            0   19342.433        19342.43
## 6653                w        0            0   13288.683        13288.68
## 6660                w        0            0   11678.758        11678.76
## 6673                w        0            0    1548.030         1548.03
## 6675                w        0            0    1408.030         1408.03
## 6680                w        0            0    2120.380         2120.38
## 6696                f        0            0    5360.945         5360.94
## 6712                w        0            0    4939.610         4939.61
## 6736                w        0            0   12063.377        12063.38
## 6750                f        0            0     723.500          723.50
## 6782                w        0            0    5231.863         5231.86
## 6784                w        0            0    2345.080         2345.08
## 6793                w        0            0   32030.672        32030.67
## 6815                w        0            0    8275.002         8275.00
## 6833                w        0            0    6880.719         6880.72
## 6854                w        0            0   15174.272        15174.27
## 6855                w        0            0   16363.602        16363.60
## 6878                f        0            0    3110.526         3110.53
## 6879                w        0            0   21116.622        21116.62
## 6884                w        0            0    2585.270         2585.27
## 6906                w        0            0   10563.316        10563.32
## 6922                w        0            0    4636.842         4636.84
## 6936                w        0            0    5303.624         5303.62
## 6950                w        0            0   35920.451        35920.45
## 6964                w        0            0    3328.503         3328.50
## 6984                w        0            0   15544.475        15544.48
## 6985                w        0            0   25223.465        25223.47
## 6993                w        0            0   25610.783        25610.78
## 7000                w        0            0   32998.568        32998.57
## 7021                w        0            0    6578.452         6578.45
## 7027                w        0            0    5345.170         5345.17
## 7034                w        0            0   15370.216        15370.22
## 7038                f        0            0    5643.778         5643.78
```

```
## 7039                    w        0            0   10738.561        10738.56
## 7043                    w        0            0   37932.593        37932.59
## 7068                    w        0            0   13569.262        13569.26
## 7081                    w        0            0   12089.854        12089.85
## 7095                    w        0            0    7969.902         7969.90
## 7096                    w        0            0   10299.227        10299.23
## 7099                    w        0            0   17939.320        17939.32
## 7111                    w        0            0    5375.949         5375.95
## 7115                    w        0            0   10523.064        10523.06
## 7132                    w        0            0   23884.164        23884.16
## 7133                    w        0            0    7520.106         7520.11
## 7147                    w        0            0   15416.262        15416.26
## 7158                    w        0            0    8137.036         8137.04
## 7167                    w        0            0   18874.580        18874.58
## 7168                    w        0            0   12308.774        12308.77
## 7169                    w        0            0   31136.642        31136.64
## 7188                    w        0            0   10054.307        10054.31
## 7193                    w        0            0   15082.379        15082.38
## 7232                    w        0            0    6325.583         6325.58
## 7237                    w        0            0    5218.540         5218.54
## 7249                    w        0            0   31606.627        31606.63
## 7255                    w        0            0    7504.256         7504.26
## 7262                    w        0            0    2073.970         2073.97
## 7279                    w        0            0   10463.099        10463.10
## 7302                    w        0            0   11219.543        11219.54
## 7310                    w        0            0   19652.333        19652.33
## 7323                    w        0            0    8442.239         8442.24
## 7344                    w        0            0   10717.317        10717.32
## 7353                    w        0            0    8439.941         8439.94
## 7355                    w        0            0    4258.737         4258.74
## 7426                    w        0            0   21590.143        21590.14
## 7445                    f        0            0   16911.650        16647.41
## 7446                    f        0            0    5182.494         5182.49
## 7460                    w        0            0   31576.397        31576.40
## 7465                    f        0            0    1382.670         1382.67
## 7474                    f        0            0    3656.300         3652.64
## 7479                    w        0            0   11570.301        11570.30
## 7485                    w        0            0    5128.989         5128.99
## 7530                    w        0            0    3502.504         3502.50
## 7533                    w        0            0   36891.519        36891.52
## 7538                    w        0            0   10361.384        10361.38
## 7555                    w        0            0   26791.449        26791.45
## 7562                    f        0            0       0.000            0.00
## 7564                    f        0            0    5088.366         5088.37
## 7579                    w        0            0    3349.150         3349.15
## 7591                    w        0            0    8345.443         8345.44
## 7594                    f        0            0    3111.458         3111.46
## 7612                    w        0            0    6422.276         6422.28
## 7619                    w        0            0   10202.061        10202.06
## 7621                    w        0            0   40621.579        40621.58
## 7704                    f        0            0   13740.074        13740.07
## 7715                    w        0            0   25543.023        25543.02
## 7737                    f        0            0   19978.676        19950.93
## 7777                    w        0            0    4115.586         4115.59
## 7792                    w        0            0   26807.677        26807.68
## 7794                    w        0            0    9049.711         9049.71
## 7824                    w        0            0    6295.832         6295.83
## 7828                    w        0            0    3173.515         3173.51
## 7833                    w        0            0   25996.511        25996.51
## 7838                    f        0            0    3073.282         3073.28
## 7840                    f        0            0    6568.318         6568.32
## 7882                    w        0            0   25371.279        25371.28
## 7893                    w        0            0   16361.128        16361.13
## 7900                    w        0            0   21162.036        21162.04
## 7910                    w        0            0   26284.288        26284.29
## 7925                    w        0            0   15896.796        15896.80
## 7945                    f        0            0   36974.940        36974.94
## 7963                    w        0            0   16291.711        16291.71
## 7972                    w        0            0    8328.282         8328.28
## 7980                    w        0            0   24033.938        24033.94
## 7985                    w        0            0    3460.970         3460.97
## 8006                    w        0            0   20877.912        20877.91
## 8009                    f        0            0       0.000            0.00
## 8024                    w        0            0   12863.517        12863.52
## 8042                    w        0            0    4050.727         4050.73
## 8046                    w        0            0   10109.582        10109.58
## 8047                    w        0            0    7845.085         7845.09
## 8080                    w        0            0   11037.262        11037.26
## 8086                    w        0            0   10711.755        10711.75
## 8111                    w        0            0    9345.558         9345.56
## 8125                    w        0            0    4724.790         4724.79
## 8140                    w        0            0   16030.965        16030.96
## 8148                    w        0            0     769.110          769.11
## 8154                    w        0            0   17858.262        17858.26
## 8174                    w        0            0   20804.831        20804.83
## 8192                    f        0            0    5082.307         5082.31
## 8261                    w        0            0    9855.345         9855.35
## 8269                    w        0            0   31432.746        31432.75
## 8275                    w        0            0   11505.604        11505.60
## 8287                    w        0            0     438.650          438.65
## 8303                    w        0            0   21926.999        21927.00
## 8304                    w        0            0    6349.814         6349.81
## 8339                    w        0            0   15640.487        15640.49
## 8352                    w        0            0   27703.894        27703.89
## 8370                    w        0            0    2590.655         2590.65
## 8384                    w        0            0   24370.604        24370.60
## 8388                    w        0            0   33712.365        33712.36
## 8400                    w        0            0    7631.323         7631.32
```

```
## 8420                    f         0             0   16733.686        16733.69
## 8432                    w         0             0    2954.760         2954.76
## 8439                    w         0             0    2713.020         2713.02
## 8440                    w         0             0   33673.620        33673.62
## 8444                    f         0             0    1021.813         1021.81
## 8455                    w         0             0   15834.997        15835.00
## 8457                    w         0             0     897.400          897.40
## 8460                    w         0             0    2409.700         2409.70
## 8466                    w         0             0   31725.611        31725.61
## 8478                    w         0             0   16033.068        16033.07
## 8485                    w         0             0    2613.190         2613.19
## 8494                    w         0             0    2609.775         2609.78
## 8495                    w         0             0   15516.971        15516.97
## 8503                    f         0             0    7375.596         7375.60
## 8520                    w         0             0    2002.390         2002.39
## 8546                    w         0             0    5712.146         5712.15
## 8548                    w         0             0    1985.640         1985.64
## 8562                    w         0             0    1106.607         1106.61
## 8577                    w         0             0   25437.189        25437.19
## 8582                    w         0             0    2431.761         2431.76
## 8584                    w         0             0   20459.247        20459.25
## 8593                    w         0             0    4428.740         4428.74
## 8597                    f         0             0   21224.770        21224.77
## 8601                    w         0             0   12148.454        12148.45
## 8603                    f         0             0    4754.539         4754.54
## 8645                    w         0             0   10259.475        10259.48
## 8659                    w         0             0    5150.751         5150.75
## 8679                    w         0             0    4349.710         4349.71
## 8682                    f         0             0    2722.360         2722.36
## 8691                    w         0             0   15347.618        15347.62
## 8695                    f         0             0    3331.910         3331.91
## 8698                    w         0             0    9885.131         9885.13
## 8725                    w         0             0    6302.384         6302.38
## 8730                    f         0             0   16920.208        16893.77
## 8733                    w         0             0    8877.154         8877.15
## 8734                    f         0             0     722.540          722.54
## 8748                    w         0             0    1841.490         1841.49
## 8755                    w         0             0    5227.660         5227.66
## 8774                    w         0             0   11610.661        11610.66
## 8784                    w         0             0    4035.432         4035.43
## 8789                    w         0             0    7709.375         7709.38
## 8799                    w         0             0   12993.590        12993.59
## 8813                    w         0             0   31979.479        31979.48
## 8815                    w         0             0    7049.705         7049.71
## 8827                    f         0             0   20122.361        20097.21
## 8829                    w         0             0    8066.753         8066.75
## 8833                    f         0             0       0.000            0.00
## 8836                    w         0             0   12505.766        12505.77
## 8842                    w         0             0   41677.298        41677.30
## 8849                    w         0             0    5124.567         5124.57
## 8863                    w         0             0    2013.877         2013.88
## 8879                    w         0             0    4062.738         4062.74
## 8886                    w         0             0   12719.619        12719.62
## 8889                    w         0             0    6333.882         6333.88
## 8930                    f         0             0     559.890          559.89
## 8934                    w         0             0    7525.290         7525.29
## 8936                    w         0             0   10002.234        10002.23
## 8940                    w         0             0    9055.657         9055.66
## 8949                    w         0             0    6231.818         6231.82
## 8952                    w         0             0   25881.155        25881.16
## 8954                    f         0             0   10271.471        10271.47
## 8996                    w         0             0    4325.937         4325.94
## 9028                    w         0             0     895.150          895.15
## 9029                    w         0             0    2167.340         2167.34
## 9039                    f         0             0   14760.449        14760.45
## 9043                    w         0             0    8659.471         8659.47
## 9044                    w         0             0   25820.148        25820.15
## 9046                    f         0             0    2033.242         2033.24
## 9062                    w         0             0   10788.448        10788.45
## 9065                    w         0             0   13013.154        13013.15
## 9144                    w         0             0    1627.357         1627.36
## 9172                    w         0             0   16226.228        16226.23
## 9184                    w         0             0    1819.361         1819.36
## 9201                    w         0             0    6270.565         6270.56
## 9213                    w         0             0   10704.594        10704.59
## 9224                    w         0             0   12621.537        12621.54
## 9233                    w         0             0   13313.056        13313.06
## 9239                    w         0             0   23639.074        23639.07
## 9256                    w         0             0   10498.380        10498.38
## 9260                    f         0             0    7899.059         7607.48
## 9272                    w         0             0     482.710          482.71
## 9279                    w         0             0    1323.900         1323.90
## 9290                    w         0             0   10988.286        10988.29
## 9302                    w         0             0   12484.653        12484.65
## 9308                    w         0             0   15333.170        15333.17
## 9315                    w         0             0   38111.217        38111.22
## 9320                    w         0             0    1191.980         1191.98
## 9341                    w         0             0   16629.717        16629.72
## 9379                    w         0             0   37568.104        37568.10
## 9400                    w         0             0    4002.175         4002.17
## 9418                    w         0             0   28495.108        28495.11
## 9437                    f         0             0    2268.920         2268.92
## 9477                    w         0             0   35802.336        35802.34
## 9495                    w         0             0    7530.151         7530.15
## 9496                    w         0             0     991.490          991.49
## 9505                    w         0             0   15968.543        15968.54
## 9532                    w         0             0   16365.259        16365.26
## 9538                    w         0             0   20010.863        20010.86
```

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## 9583                    w         0             0   16010.660        16010.66
## 9585                    f         0             0   11327.125        11327.13
## 9597                    w         0             0    1821.870         1821.87
## 9608                    f         0             0    6975.166         6975.17
## 9620                    f         0             0   10797.348        10527.41
## 9661                    f         0             0   12105.663        12105.66
## 9687                    f         0             0   36188.540        36188.54
## 9693                    w         0             0   16629.556        16629.56
## 9703                    w         0             0   10803.683        10803.68
## 9709                    w         0             0    8329.032         8329.03
## 9726                    w         0             0    1009.339         1009.34
## 9805                    w         0             0    2295.100         2295.10
## 9806                    w         0             0   10965.532        10965.53
## 9809                    w         0             0   31315.647        31315.65
## 9824                    w         0             0    5196.068         5196.07
## 9826                    w         0             0    8520.075         8520.08
## 9837                    w         0             0   10386.941        10386.94
## 9841                    f         0             0   40078.218        40053.17
## 9844                    w         0             0    8437.646         8437.65
## 9849                    f         0             0   20687.332        20635.61
## 9912                    w         0             0   18380.051        18380.05
## 9925                    w         0             0   27489.606        27489.61
## 9926                    f         0             0   11602.602        11602.60
## 9933                    w         0             0   10809.891        10809.89
## 9937                    w         0             0    1810.050         1810.05
## 9941                    w         0             0    6579.822         6579.82
## 9951                    f         0             0   26757.160        26757.16
## 9960                    w         0             0   25531.027        25531.03
## 9987                    w         0             0    8497.881         8497.88
## 9997                    w         0             0   15811.201        15811.20
## 10003                   w         0             0    4177.930         4177.93
## 10010                   w         0             0   17963.708        17963.71
## 10011                   w         0             0    3514.460         3514.46
## 10047                   w         0             0    6697.071         6697.07
## 10050                   w         0             0    9045.172         9045.17
## 10093                   w         0             0   14057.488        14057.49
## 10104                   w         0             0   31683.568        31683.57
## 10111                   w         0             0    1770.100         1770.10
## 10131                   f         0             0   19935.793        19935.79
## 10137                   w         0             0    3057.770         3057.77
## 10144                   f         0             0   11603.962        11603.96
## 10169                   w         0             0   20221.829        20221.83
## 10172                   w         0             0    2078.470         2078.47
## 10176                   f         0             0    5228.888         5228.89
## 10184                   w         0             0   21443.862        21443.86
## 10202                   w         0             0   15882.722        15882.72
## 10209                   w         0             0   27619.327        27619.33
## 10215                   w         0             0   19623.920        19623.92
## 10242                   f         0             0    6777.235         6777.23
## 10248                   w         0             0   18230.624        18230.62
## 10267                   f         0             0    6566.092         6566.09
## 10275                   w         0             0    5501.529         5501.53
## 10276                   w         0             0    3676.750         3676.75
##       total_rec_prncp total_rec_int total_rec_late_fee recoveries
## 35           10000.00        129.75               0.00       0.00
## 54           10000.00         64.90               0.00       0.00
## 59            8000.00        247.38               0.00       0.00
## 60           40000.00         58.10               0.00       0.00
## 71           10000.00        165.41               0.00       0.00
## 73           24000.00        308.36               0.00       0.00
## 74           10000.00          4.45               0.00       0.00
## 90            6500.00        189.51               0.00       0.00
## 101           3000.00          0.95               0.00       0.00
## 124           6600.00        141.15               0.00       0.00
## 137           3000.00         65.65               0.00       0.00
## 142           8500.00         56.08               0.00       0.00
## 143           8000.00         80.78               0.00       0.00
## 160           6400.00        273.45               0.00       0.00
## 161           8000.00          3.28               0.00       0.00
## 165          13500.00         10.18               0.00       0.00
## 174           3000.00         46.47               0.00       0.00
## 192          20400.00        481.23               0.00       0.00
## 193          12000.00        153.86               0.00       0.00
## 206           8700.00         71.30               0.00       0.00
## 212          10000.00          7.54               0.00       0.00
## 218          18000.00          6.71               0.00       0.00
## 229           4000.00         37.50               0.00       0.00
## 232           6000.00        102.68               0.00       0.00
## 234           5000.00          3.06               0.00       0.00
## 236           2500.00         47.11               0.00       0.00
## 246          35000.00       1003.94               0.00       0.00
## 247           3000.00         25.07               0.00       0.00
## 262           6000.00         81.95               0.00       0.00
## 285          10000.00        114.26               0.00       0.00
## 296           9600.00         73.07               0.00       0.00
## 302           1000.00          9.86               0.00       0.00
## 304           1000.00         18.85               0.00       0.00
## 324          15000.00         26.39               0.00       0.00
## 326          14000.00        398.85               0.00       0.00
## 328          15000.00        489.16               0.00       0.00
## 329             79.72        204.53               0.00       0.00
## 330          24000.00       1069.58               0.00       0.00
## 338          20000.00        318.15               0.00       0.00
## 353          15000.00        299.05               0.00       0.00
## 357          10500.00        568.22               0.00       0.00
## 361              0.00          0.00               0.00       0.00
## 370          30000.00        615.24               0.00       0.00
## 377           8000.00        130.20               0.00       0.00
```

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## 382          18000.00        867.63              0.00       0.00
## 410          10000.00        112.58              0.00       0.00
## 428           7000.00          1.63              0.00       0.00
## 450           6000.00         61.02              0.00       0.00
## 465           2500.00          0.00              0.00       0.00
## 466          15000.00        203.51              0.00       0.00
## 471           7500.00        259.24              0.00       0.00
## 479           5000.00         59.90              0.00       0.00
## 485           6000.00        142.85              0.00       0.00
## 491           6025.00        198.57              0.00       0.00
## 496          10000.00        233.07              0.00       0.00
## 497          18000.00        629.19              0.00       0.00
## 499          12000.00        178.41              0.00       0.00
## 548          21000.00        568.52              0.00       0.00
## 558           8500.00         19.04              0.00       0.00
## 570          10000.00        332.06              0.00       0.00
## 577          13000.00        105.83              0.00       0.00
## 579           9000.00          7.84              0.00       0.00
## 608           3700.00        102.16              0.00       0.00
## 626          20000.00         13.58              0.00       0.00
## 634          20000.00         15.79              0.00       0.00
## 636          10000.00        301.94              0.00       0.00
## 641          13200.00          4.03              0.00       0.00
## 658           3000.00        148.52              0.00       0.00
## 660          20000.00        147.44              0.00       0.00
## 670           1500.00         79.53              0.00       0.00
## 674          10000.00        345.59              0.00       0.00
## 689           8000.00        213.57              0.00       0.00
## 696          17000.00        348.37              0.00       0.00
## 705          12000.00        409.05              0.00       0.00
## 713          30000.00       1283.81              0.00       0.00
## 752          12150.00        814.54              0.00       0.00
## 790          10000.00        605.23              0.00       0.00
## 799          10000.00        238.29              0.00       0.00
## 819          12000.00        328.79              0.00       0.00
## 840          32000.00         16.72              0.00       0.00
## 844           4000.00          1.67              0.00       0.00
## 845          19925.00        794.42              0.00       0.00
## 855          25000.00        702.65              0.00       0.00
## 866          35000.00        922.05              0.00       0.00
## 869           2500.00         21.13              0.00       0.00
## 899          11000.00        373.77              0.00       0.00
## 904           8400.00         18.44              0.00       0.00
## 917           5500.00         51.22              0.00       0.00
## 940          20000.00        644.18              0.00       0.00
## 957           1500.00         37.29              0.00       0.00
## 960          24000.00        521.69              0.00       0.00
## 993           4500.00         85.49              0.00       0.00
## 998          17000.00         92.53              0.00       0.00
## 1025         35000.00       1830.10              0.00       0.00
## 1056          3000.00        121.81              0.00       0.00
## 1063          4000.00         68.52              0.00       0.00
## 1083         25000.00       1619.56              0.00       0.00
## 1105         17200.00        613.75              0.00       0.00
## 1117          6000.00         34.97              0.00       0.00
## 1118          7000.00         15.13              0.00       0.00
## 1146         25000.00       2655.62              0.00       0.00
## 1170          6000.00        422.98              0.00       0.00
## 1227          7200.00        379.74              0.00       0.00
## 1263          5000.00          3.25              0.00       0.00
## 1264         10000.00        324.72              0.00       0.00
## 1273         14000.00         64.36              0.00       0.00
## 1285          5000.00         73.37              0.00       0.00
## 1319          3500.00         71.51              0.00       0.00
## 1337          6000.00        175.13              0.00       0.00
## 1349         12500.00        184.06              0.00       0.00
## 1351         35000.00        903.76              0.00       0.00
## 1356         10000.00         16.73              0.00       0.00
## 1386          5000.00        144.16              0.00       0.00
## 1388          8000.00        168.54              0.00       0.00
## 1390         15000.00        342.77              0.00       0.00
## 1410         30000.00        697.16              0.00       0.00
## 1416         40000.00        576.12              0.00       0.00
## 1434         22000.00         10.11              0.00       0.00
## 1439          2000.00         90.88              0.00       0.00
## 1449         25000.00       1411.01              0.00       0.00
## 1459         15000.00        145.63              0.00       0.00
## 1462         12000.00        406.65              0.00       0.00
## 1480         12000.00          7.32              0.00       0.00
## 1484          5000.00        177.19              0.00       0.00
## 1487         35000.00       1366.32              0.00       0.00
## 1527          5100.00        347.86              0.00       0.00
## 1529          6000.00        218.73              0.00       0.00
## 1530          5000.00        322.66              0.00       0.00
## 1545         35000.00       1388.30              0.00       0.00
## 1567          5500.00        268.58              0.00       0.00
## 1597         10500.00        387.31              0.00       0.00
## 1601         16000.00        628.33              0.00       0.00
## 1623         40000.00       1234.14              0.00       0.00
## 1633           618.65        398.15              0.00       0.00
## 1636         15000.00        416.80              0.00       0.00
## 1640         20000.00       1001.96              0.00       0.00
## 1645          7425.00        390.88              0.00       0.00
## 1650         30175.00       1149.22              0.00       0.00
## 1671          1500.00          9.80              0.00       0.00
## 1672         11650.00        192.73              0.00       0.00
## 1696           174.21        100.43              0.00       0.00
## 1704         10000.00        203.86              0.00       0.00
```

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## 1721        12000.00        215.98              0.00       0.00
## 1724        12000.00        361.15              0.00       0.00
## 1728        10000.00        675.63              0.00       0.00
## 1730        27000.00        531.25              0.00       0.00
## 1734         1000.00        114.03              0.00       0.00
## 1752         4600.00        103.61              0.00       0.00
## 1771        35000.00         25.04              0.00       0.00
## 1816        15000.00        511.57              0.00       0.00
## 1846        11000.00        297.84              0.00       0.00
## 1850         4800.00        182.74              0.00       0.00
## 1853        10000.00        661.92              0.00       0.00
## 1856        20000.00        805.32              0.00       0.00
## 1857         2000.00         20.36              0.00       0.00
## 1862         5500.00         60.74              0.00       0.00
## 1865         8000.00        239.20              0.00       0.00
## 1866        15000.00        222.76              0.00       0.00
## 1867        25750.00       2502.45              0.00       0.00
## 1896        12000.00        438.05              0.00       0.00
## 1905         2400.00        186.65              0.00       0.00
## 1907         4000.00        116.75              0.00       0.00
## 1922        15000.00        965.92              0.00       0.00
## 1930        10000.00        362.32              0.00       0.00
## 1933        10000.00        625.67              0.00       0.00
## 1952        10000.00        108.25              0.00       0.00
## 1956         4000.00         26.90              0.00       0.00
## 1961        19500.00        290.56              0.00       0.00
## 1963        12000.00         20.94              0.00       0.00
## 2004         3000.00        237.32              0.00       0.00
## 2012        10000.00        266.54              0.00       0.00
## 2017        25000.00        472.65              0.00       0.00
## 2019        25000.00       1638.65              0.00       0.00
## 2026        15000.00        324.57              0.00       0.00
## 2027        40000.00        612.19              0.00       0.00
## 2039         9000.00        422.91              0.00       0.00
## 2041        30000.00         51.13              0.00       0.00
## 2051        10000.00         14.00              0.00       0.00
## 2060         1500.00         64.91              0.00       0.00
## 2065        10000.00        274.11              0.00       0.00
## 2073        28000.00         10.33              0.00       0.00
## 2105         3500.00         85.09              0.00       0.00
## 2117         2900.00         57.98              0.00       0.00
## 2128         6000.00          1.60              0.00       0.00
## 2129            0.00          0.00              0.00    1702.51
## 2136         5000.00        458.27              0.00       0.00
## 2137        12000.00        571.69              0.00       0.00
## 2148         3000.00        120.31              0.00       0.00
## 2155         3000.00         36.07              0.00       0.00
## 2168         8000.00        139.65              0.00       0.00
## 2197        10000.00        289.56              0.00       0.00
## 2215         4000.00         10.76              0.00       0.00
## 2224        10000.00         14.25              0.00       0.00
## 2234        10800.00        165.73              0.00       0.00
## 2255        16000.00        439.39              0.00       0.00
## 2258        24000.00        664.47              0.00       0.00
## 2286         3000.00         59.21              0.00       0.00
## 2296         3200.00         10.75              0.00       0.00
## 2329         1000.00         84.39              0.00       0.00
## 2342         5000.00         94.84              0.00       0.00
## 2347        30000.00       1454.72              0.00       0.00
## 2357        11000.00        276.12              0.00       0.00
## 2377         3300.00         92.06              0.00       0.00
## 2393            0.00          0.00              0.00       0.00
## 2396        35000.00       1616.84              0.00       0.00
## 2399         7400.00        775.21             15.00       0.00
## 2405        40000.00        675.00              0.00       0.00
## 2420         6000.00          7.51              0.00       0.00
## 2425        15000.00        373.89              0.00       0.00
## 2429         8000.00        480.92              0.00       0.00
## 2439         4800.00        111.50              0.00       0.00
## 2447        30000.00        107.67              0.00       0.00
## 2449         2000.00        150.56              0.00       0.00
## 2457        10000.00        281.71              0.00       0.00
## 2478         8500.00        265.39              0.00       0.00
## 2480         4200.00         29.40              0.00       0.00
## 2492        15000.00       1002.93              0.00       0.00
## 2494        19000.00        519.70             30.86       0.00
## 2504         4500.00         30.85              0.00       0.00
## 2510         6600.00         29.64              0.00       0.00
## 2514         3000.00         45.73              0.00       0.00
## 2516        15000.00         91.60              0.00       0.00
## 2522          528.79        620.55              0.00       0.00
## 2529        11500.00        389.70              0.00       0.00
## 2535          206.94        158.77              0.00       0.00
## 2545         8000.00        282.19              0.00       0.00
## 2549        11400.00        252.41              0.00       0.00
## 2593          197.83        374.75              0.00       0.00
## 2598        11000.00        381.04              0.00       0.00
## 2604         2400.00         64.29              0.00       0.00
## 2628        10000.00        764.70              0.00       0.00
## 2631         6200.00        284.95              0.00       0.00
## 2661        12000.00         39.46              0.00       0.00
## 2673        40000.00         16.68              0.00       0.00
## 2692          471.96       1468.93             34.15       0.00
## 2707        10000.00          6.11              0.00       0.00
## 2714        30000.00         16.28              0.00       0.00
## 2715        20750.00       1410.26              0.00       0.00
## 2761        16000.00        689.64              0.00       0.00
## 2772        12000.00        779.36              0.00       0.00
```

```
## 2788        10000.00         61.07              0.00       0.00
## 2789        21000.00       1220.39              0.00       0.00
## 2820        10000.00        476.16              0.00       0.00
## 2840        14000.00        302.81              0.00       0.00
## 2856        21000.00        602.64              0.00       0.00
## 2858        16000.00        546.68              0.00       0.00
## 2861         8000.00        469.84              0.00       0.00
## 2872         3600.00         49.28              0.00       0.00
## 2877        32000.00       1182.51              0.00       0.00
## 2878        12000.00        443.93              0.00       0.00
## 2879        19275.00        698.86              0.00       0.00
## 2893        30000.00         17.49              0.00       0.00
## 2913         1200.00          6.93              0.00       0.00
## 2915        34000.00       1171.20              0.00       0.00
## 2918        10000.00        395.75              0.00       0.00
## 2940        10000.00        391.11              0.00       0.00
## 2942        15000.00         17.97              0.00       0.00
## 2954         7200.00         48.38              0.00       0.00
## 2976         6000.00        167.03              0.00       0.00
## 2977         5000.00        149.19              0.00       0.00
## 2978         7150.00         10.49              0.00       0.00
## 2982        10000.00        161.41              0.00       0.00
## 3002         9500.00        200.45              0.00       0.00
## 3012        15000.00       1791.93              0.00       0.00
## 3017         3000.00        230.94              0.00       0.00
## 3018        10000.00        656.58              0.00       0.00
## 3021            0.00          0.00              0.00       0.00
## 3034         6800.00        286.58              0.00       0.00
## 3045        15000.00        458.67              0.00       0.00
## 3050        15000.00         63.41              0.00       0.00
## 3057        20000.00        430.14              0.00       0.00
## 3071        10000.00        190.67              0.00       0.00
## 3104         8000.00        270.05              0.00       0.00
## 3112        30000.00        632.78              0.00       0.00
## 3124        20000.00        294.49              0.00       0.00
## 3150        18000.00        253.68              0.00       0.00
## 3160        16000.00        188.83              0.00       0.00
## 3165        36000.00       1455.15              0.00       0.00
## 3172        15000.00        491.67              0.00       0.00
## 3177         7000.00        100.11              0.00       0.00
## 3213         4000.00        105.01              0.00       0.00
## 3222         2000.00         33.62              0.00       0.00
## 3237         7500.00         53.80              0.00       0.00
## 3252         6000.00        583.15              0.00       0.00
## 3257         8400.00        146.29              0.00       0.00
## 3258         1092.95        864.62              0.00       0.00
## 3265        24000.00        562.55              0.00       0.00
## 3276         6000.00        125.02              0.00       0.00
## 3289        30000.00       1244.44              0.00       0.00
## 3307        12000.00        578.55              0.00       0.00
## 3312        35000.00       1952.50              0.00       0.00
## 3317        35000.00       1016.38              0.00       0.00
## 3333        29000.00       3686.87              0.00       0.00
## 3366        30000.00       1877.20              0.00       0.00
## 3383         7000.00        379.74              0.00       0.00
## 3419        12000.00       1020.62              0.00       0.00
## 3421         4200.00        324.25              0.00       0.00
## 3422         9600.00        220.53              0.00       0.00
## 3429        20000.00        741.00              0.00       0.00
## 3433        10000.00        495.42              0.00       0.00
## 3449        15000.00        697.42              0.00       0.00
## 3458        16000.00        793.12              0.00       0.00
## 3467         9000.00        444.73              0.00       0.00
## 3471        12000.00        263.67              0.00       0.00
## 3480        18000.00       2504.97              0.00       0.00
## 3482         9000.00        324.79              0.00       0.00
## 3502        18000.00        292.21              0.00       0.00
## 3504         5900.00        215.91              0.00       0.00
## 3507         3000.00         69.40              0.00       0.00
## 3536        15500.00        719.30              0.00       0.00
## 3538        17000.00       2477.00              0.00       0.00
## 3542        12000.00        591.37              0.00       0.00
## 3547         6000.00         99.66              0.00       0.00
## 3553        30000.00        617.60              0.00       0.00
## 3567        10000.00         23.23              0.00       0.00
## 3590        17000.00       1293.53              0.00       0.00
## 3607        10000.00        328.97              0.00       0.00
## 3623        12000.00        575.57              0.00       0.00
## 3635         7200.00        274.84              0.00       0.00
## 3655         8000.00        145.49              0.00       0.00
## 3684         5000.00         22.45              0.00       0.00
## 3687         6000.00        726.20              0.00       0.00
## 3688        12875.00        150.33              0.00       0.00
## 3699        21000.00        638.52              0.00       0.00
## 3701         3500.00        134.11              0.00       0.00
## 3712        12000.00        558.54              0.00       0.00
## 3730        13000.00        447.79              0.00       0.00
## 3749         2339.70       1265.19              0.00       0.00
## 3756         1575.64       1061.37              0.00       0.00
## 3758         6025.00          3.49              0.00       0.00
## 3771        12000.00        219.33              0.00       0.00
## 3785        15000.00        308.08              0.00       0.00
## 3788        20000.00        536.64              0.00       0.00
## 3852         5000.00        281.54              0.00       0.00
## 3857        35000.00        355.55              0.00       0.00
## 3865        25000.00       1279.19              0.00       0.00
## 3889        20000.00        693.63              0.00       0.00
## 3892          873.68       1054.80              0.00       0.00
```

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## 3901        6000.00       289.85              0.00       0.00
## 3917       12000.00        40.06              0.00       0.00
## 3924        7200.00       359.01              0.00       0.00
## 3938        8000.00       176.90              0.00       0.00
## 3947         592.31       346.57              0.00       0.00
## 3949       10000.00       365.78              0.00       0.00
## 3959        8000.00        21.57              0.00       0.00
## 3977        5000.00       262.38              0.00       0.00
## 3990       20000.00       976.15              0.00       0.00
## 4001        4000.00       104.65              0.00       0.00
## 4003       15000.00       530.00              0.00       0.00
## 4016       35000.00      2654.97              0.00       0.00
## 4017       10000.00       230.72              0.00       0.00
## 4021       20000.00       811.43              0.00       0.00
## 4022         406.49       566.79              0.00       0.00
## 4026        4000.00       170.22              0.00       0.00
## 4036       10500.00        41.90              0.00       0.00
## 4049       15000.00       357.17              0.00       0.00
## 4054       15000.00       853.46              0.00       0.00
## 4093       25000.00        28.84              0.00       0.00
## 4099         677.71       364.28              0.00       0.00
## 4104       35000.00       239.99              0.00       0.00
## 4107        4800.00       154.18              0.00       0.00
## 4110       15000.00      1150.00              0.00       0.00
## 4122       19200.00       471.34              0.00       0.00
## 4128         465.72       193.08              0.00       0.00
## 4131        3000.00        58.89              0.00       0.00
## 4133       12000.00       182.84              0.00       0.00
## 4135        6000.00       421.93              0.00       0.00
## 4151        4000.00       330.65              0.00       0.00
## 4153       13000.00       322.57              0.00       0.00
## 4157        5000.00       229.07              0.00       0.00
## 4233       10000.00       538.18              0.00       0.00
## 4237        2500.00       183.20              0.00       0.00
## 4254        9600.00       610.11              0.00       0.00
## 4258        1600.00       120.80              0.00       0.00
## 4259         743.71       979.74              0.00       0.00
## 4261        9600.00       399.84              0.00       0.00
## 4265       12000.00      1090.67              0.00       0.00
## 4269         258.58        90.67              0.00       0.00
## 4297        1279.43       834.34             52.84       0.00
## 4307        2154.64       737.95              0.00       0.00
## 4341        2000.00       104.53              0.00       0.00
## 4342       10000.00       666.68              0.00       0.00
## 4351        7000.00       294.07              0.00       0.00
## 4352        5000.00       145.18              0.00       0.00
## 4376        3000.00       209.50              0.00       0.00
## 4395        3000.00       206.61              0.00       0.00
## 4412       13000.00       643.53              0.00       0.00
## 4414       10000.00       359.44              0.00       0.00
## 4448       11175.00      1870.53              0.00       0.00
## 4466       22000.00      1619.08              0.00       0.00
## 4476       10000.00       209.31              0.00       0.00
## 4477        9000.00       135.92              0.00       0.00
## 4498        2400.00       155.04              0.00       0.00
## 4501       16000.00      1342.54              0.00       0.00
## 4506       35000.00      2210.15              0.00       0.00
## 4517        7000.00       409.38              0.00       0.00
## 4524        5000.00       253.50              0.00       0.00
## 4532       14000.00       355.78              0.00       0.00
## 4539       16000.00      1238.17              0.00       0.00
## 4552       15000.00      1012.41              0.00       0.00
## 4565        8000.00       309.31              0.00       0.00
## 4580       20000.00      2445.29              0.00       0.00
## 4584       12000.00       671.74              0.00       0.00
## 4586       12000.00      1165.05              0.00       0.00
## 4611       40000.00       826.32              0.00       0.00
## 4632        6500.00       116.20              0.00       0.00
## 4682       17000.00        11.33              0.00       0.00
## 4688        7000.00       388.19              0.00       0.00
## 4692       10000.00       273.09              0.00       0.00
## 4712        4000.00       150.53              0.00       0.00
## 4743        7800.00         0.00              0.00       0.00
## 4758       40000.00      2304.67              0.00       0.00
## 4769       26975.00       972.31              0.00       0.00
## 4774       17000.00       446.67              0.00       0.00
## 4775       26725.00      3558.99              0.00       0.00
## 4786        1600.00        20.25              0.00       0.00
## 4791        4800.00       252.93              0.00       0.00
## 4792       12000.00       610.19              0.00       0.00
## 4797       30000.00      3993.03              0.00       0.00
## 4801       10000.00      1251.74              0.00       0.00
## 4816       13250.00        39.41              0.00       0.00
## 4818       10000.00       263.03              0.00       0.00
## 4832       18000.00         6.51              0.00       0.00
## 4834       10000.00       215.73              0.00       0.00
## 4880        5000.00       110.88              0.00       0.00
## 4921        5000.00       432.59              0.00       0.00
## 4922       21500.00      1106.64              0.00       0.00
## 4934       20000.00        10.13              0.00       0.00
## 4951       10000.00       947.41              0.00       0.00
## 4958        6000.00       255.26              0.00       0.00
## 4985        6000.00       304.09              0.00       0.00
## 5010       10000.00       833.10              0.00       0.00
## 5021       11000.00       464.35              0.00       0.00
## 5035       10000.00        10.37              0.00       0.00
## 5036       16000.00       448.67              0.00       0.00
## 5038         764.48       874.95              0.00       0.00
```

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## 5059        12000.00       475.76              0.00       0.00
## 5060         2500.00        17.36              0.00       0.00
## 5070        11600.00        23.53              0.00       0.00
## 5103         1200.00        60.66              0.00       0.00
## 5134        20000.00      1234.88             34.19       0.00
## 5136        12000.00       499.12              0.00       0.00
## 5155        35000.00      1790.80              0.00       0.00
## 5157        24500.00        12.84              0.00       0.00
## 5162         5000.00       259.99              0.00       0.00
## 5163        20000.00      1078.09              0.00       0.00
## 5168        16000.00       688.50              0.00       0.00
## 5169        12000.00       311.39              0.00       0.00
## 5177         5000.00       244.95              0.00       0.00
## 5184        30050.00      1040.79              0.00       0.00
## 5186         5500.00       177.45              0.00       0.00
## 5218        12000.00       681.76              0.00       0.00
## 5220          225.86       420.39              0.00       0.00
## 5221         5000.00        65.45              0.00       0.00
## 5244         4600.00        44.43              0.00       0.00
## 5255        24000.00       264.99              0.00       0.00
## 5278         8000.00       487.83              0.00       0.00
## 5295        10000.00         5.30              0.00       0.00
## 5317         2800.00       160.14              0.00       0.00
## 5325        13000.00       860.36              0.00       0.00
## 5345        17000.00       550.02              0.00       0.00
## 5348        10000.00       244.84              0.00       0.00
## 5354        30000.00      1767.18              0.00       0.00
## 5356        12500.00       653.52              0.00       0.00
## 5358        17575.00      1234.25              0.00       0.00
## 5365        12000.00       347.35              0.00       0.00
## 5379           56.26        25.33              0.00       0.00
## 5390        20000.00      1262.94              0.00       0.00
## 5406        30000.00      1493.84              0.00       0.00
## 5416        30000.00      2803.91              0.00       0.00
## 5431         6100.00       133.81              0.00       0.00
## 5442         1452.83      1788.34              0.00       0.00
## 5467        10000.00       542.30              0.00       0.00
## 5494         6000.00        14.79              0.00       0.00
## 5554        15000.00       723.55              0.00       0.00
## 5556        10000.00       994.59              0.00       0.00
## 5565         8000.00        82.77              0.00       0.00
## 5566        40000.00      2679.66              0.00       0.00
## 5568          766.68      1411.76              0.00       0.00
## 5574         3900.34      1209.65              0.00       0.00
## 5597            0.00         0.00              0.00    2813.72
## 5621        11075.00       396.88              0.00       0.00
## 5623        10700.00       747.19              0.00       0.00
## 5643         1183.66      2142.02             42.68       0.00
## 5664        12900.00       829.53              0.00       0.00
## 5666         1614.77       882.98              0.00       0.00
## 5720            0.00         0.00              0.00    4918.26
## 5731        20000.00      1022.72              0.00       0.00
## 5733         6000.00       753.09              0.00       0.00
## 5734         4000.00         1.38              0.00       0.00
## 5749         7200.00       544.96              0.00       0.00
## 5759        35000.00       462.51              0.00       0.00
## 5760        16000.00       950.99              0.00       0.00
## 5784         6400.00       375.27              0.00       0.00
## 5786         2000.00       176.92              0.00       0.00
## 5794         4800.00       109.60              0.00       0.00
## 5806         8000.00       337.19              0.00       0.00
## 5809         7500.00       511.47              0.00       0.00
## 5827        25000.00      1901.77              0.00       0.00
## 5848        10000.00      1026.62              0.00       0.00
## 5849        15000.00      1085.57              0.00       0.00
## 5860        14000.00       212.04              0.00       0.00
## 5874        24475.00       908.96              0.00       0.00
## 5876         4000.00       302.39              0.00       0.00
## 5886        10000.00       217.32              0.00       0.00
## 5923          672.91       359.28              0.00       0.00
## 5948         7000.00       309.43              0.00       0.00
## 5962        12000.00       648.85              0.00       0.00
## 5974         8500.00       853.17              0.00       0.00
## 6002         9000.00        80.95              0.00       0.00
## 6051        15000.00       679.69              0.00       0.00
## 6057         8000.00       175.70              0.00       0.00
## 6083        20000.00       911.63              0.00       0.00
## 6097        40000.00       918.88              0.00       0.00
## 6126          500.73       705.35             46.14       0.00
## 6157        16000.00       555.16              0.00       0.00
## 6159        10000.00       177.69              0.00       0.00
## 6164        10000.00       980.35              0.00       0.00
## 6165        20000.00      1635.37              0.00       0.00
## 6174        40000.00      1426.21              0.00       0.00
## 6183         3095.92       493.74              0.00       0.00
## 6196        10600.00        25.74              0.00       0.00
## 6203          897.27       528.54              0.00       0.00
## 6204         3500.00        98.09              0.00       0.00
## 6207        10000.00       928.27              0.00       0.00
## 6209        16000.00      1144.77              0.00       0.00
## 6237         3650.00       202.85              0.00       0.00
## 6247        15000.00      1225.65              0.00       0.00
## 6250         7000.00         4.37              0.00       0.00
## 6253         5000.00       260.78              0.00       0.00
## 6289         9600.00       971.00              0.00       0.00
## 6294         2000.00        35.91              0.00       0.00
## 6298         6000.00        40.77              0.00       0.00
## 6307        18000.00      1436.03              0.00       0.00
```

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## 6316        5000.00       219.57              0.00       0.00
## 6333         597.01       401.19             16.75       0.00
## 6352       40000.00      1442.51              0.00       0.00
## 6367        8000.00       165.55              0.00       0.00
## 6388       12000.00      1009.82              0.00       0.00
## 6396         660.03       265.07              0.00       0.00
## 6402         474.54       789.51              0.00       0.00
## 6407        1811.31      1157.17             49.81       0.00
## 6410       20000.00       649.73              0.00       0.00
## 6421        1000.00        47.97              0.00       0.00
## 6422         281.45       114.35              0.00       0.00
## 6435       15000.00       121.04              0.00       0.00
## 6449       10000.00       209.85              0.00       0.00
## 6455       37000.00       883.86              0.00       0.00
## 6456         291.90       251.12              0.00       0.00
## 6468       35000.00      3563.93              0.00       0.00
## 6470       10000.00      1112.02              0.00       0.00
## 6477       14000.00       542.46              0.00       0.00
## 6490        6950.00       483.09              0.00       0.00
## 6504       10800.00         2.98              0.00       0.00
## 6505        8000.00       187.91              0.00       0.00
## 6530       21200.00       874.11              0.00       0.00
## 6533       27600.00      3015.23              0.00       0.00
## 6560       10000.00       105.32              0.00       0.00
## 6570       27000.00       550.43              0.00       0.00
## 6585       15000.00       697.17              0.00       0.00
## 6599        1200.00        62.53              0.00       0.00
## 6612       30000.00      2187.55              0.00       0.00
## 6617       10000.00       532.18              0.00       0.00
## 6628       14000.00       842.50              0.00       0.00
## 6642       18000.00       357.26              0.00       0.00
## 6651       16800.00      2542.43              0.00       0.00
## 6653       13000.00       288.68              0.00       0.00
## 6660       10000.00      1678.76              0.00       0.00
## 6673        1009.39       538.64              0.00       0.00
## 6675         902.04       505.99              0.00       0.00
## 6680        1103.72      1016.66              0.00       0.00
## 6696        5000.00       360.94              0.00       0.00
## 6712        4800.00       139.61              0.00       0.00
## 6736       12000.00        63.38              0.00       0.00
## 6750         433.22       290.28              0.00       0.00
## 6782        5000.00       231.86              0.00       0.00
## 6784        1730.01       615.07              0.00       0.00
## 6793       30000.00      2030.67              0.00       0.00
## 6815        8000.00       275.00              0.00       0.00
## 6833        6500.00       380.72              0.00       0.00
## 6854       15000.00       174.27              0.00       0.00
## 6855       15500.00       863.60              0.00       0.00
## 6878        2800.00       310.53              0.00       0.00
## 6879       20000.00      1116.62              0.00       0.00
## 6884        1927.74       657.53              0.00       0.00
## 6906       10000.00       563.32              0.00       0.00
## 6922        4200.00       436.84              0.00       0.00
## 6936        5000.00       303.62              0.00       0.00
## 6950       35000.00       920.45              0.00       0.00
## 6964        3200.00       128.50              0.00       0.00
## 6984       15000.00       544.48              0.00       0.00
## 6985       24000.00      1223.47              0.00       0.00
## 6993       25000.00       610.78              0.00       0.00
## 7000       30000.00      2998.57              0.00       0.00
## 7021        6025.00       553.45              0.00       0.00
## 7027        5000.00       345.17              0.00       0.00
## 7034       15000.00       370.22              0.00       0.00
## 7038        5600.00        43.78              0.00       0.00
## 7039       10000.00       738.56              0.00       0.00
## 7043       36000.00      1932.59              0.00       0.00
## 7068       12000.00      1569.26              0.00       0.00
## 7081       11000.00      1089.85              0.00       0.00
## 7095        7800.00       169.90              0.00       0.00
## 7096        9500.00       799.23              0.00       0.00
## 7099       16000.00      1939.32              0.00       0.00
## 7111        5000.00       375.95              0.00       0.00
## 7115       10000.00       523.06              0.00       0.00
## 7132       23000.00       884.16              0.00       0.00
## 7133        7000.00       520.11              0.00       0.00
## 7147       15000.00       416.26              0.00       0.00
## 7158        8000.00       137.04              0.00       0.00
## 7167       17525.00      1349.58              0.00       0.00
## 7168       12000.00       308.77              0.00       0.00
## 7169       30000.00      1136.64              0.00       0.00
## 7188       10000.00        54.31              0.00       0.00
## 7193       15000.00        82.38              0.00       0.00
## 7232        6000.00       325.58              0.00       0.00
## 7237        3829.09      1389.45              0.00       0.00
## 7249       30000.00      1606.63              0.00       0.00
## 7255        7000.00       504.26              0.00       0.00
## 7262        1054.44      1019.53              0.00       0.00
## 7279       10000.00       463.10              0.00       0.00
## 7302       10500.00       719.54              0.00       0.00
## 7310       18150.00      1502.33              0.00       0.00
## 7323        8000.00       442.24              0.00       0.00
## 7344       10000.00       717.32              0.00       0.00
## 7353        8000.00       439.94              0.00       0.00
## 7355        4000.00       258.74              0.00       0.00
## 7426       20800.00       790.14              0.00       0.00
## 7445       16000.00       911.65              0.00       0.00
## 7446        5000.00       182.49              0.00       0.00
## 7460       30000.00      1576.40              0.00       0.00
```

```
## 7465          702.98       679.69              0.00       0.00
## 7474         2348.99      1307.31              0.00       0.00
## 7479        11000.00       570.30              0.00       0.00
## 7485         5000.00       128.99              0.00       0.00
## 7530         3500.00         2.50              0.00       0.00
## 7533        35000.00      1891.52              0.00       0.00
## 7538        10000.00       361.38              0.00       0.00
## 7555        25000.00      1791.45              0.00       0.00
## 7562            0.00         0.00              0.00       0.00
## 7564         5000.00        88.37              0.00       0.00
## 7579         2096.39      1252.76              0.00       0.00
## 7591         8000.00       345.44              0.00       0.00
## 7594         3000.00       111.46              0.00       0.00
## 7612         6000.00       422.28              0.00       0.00
## 7619        10000.00       202.06              0.00       0.00
## 7621        40000.00       621.58              0.00       0.00
## 7704        12500.00      1240.07              0.00       0.00
## 7715        25000.00       543.02              0.00       0.00
## 7737        18000.00      1978.68              0.00       0.00
## 7777         4000.00       115.59              0.00       0.00
## 7792        25000.00      1807.68              0.00       0.00
## 7794         8500.00       549.71              0.00       0.00
## 7824         6000.00       295.83              0.00       0.00
## 7828         3000.00       173.51              0.00       0.00
## 7833        25000.00       996.51              0.00       0.00
## 7838         3025.00        48.28              0.00       0.00
## 7840         6000.00       568.32              0.00       0.00
## 7882        24000.00      1371.28              0.00       0.00
## 7893        16000.00       361.13              0.00       0.00
## 7900        20000.00      1162.04              0.00       0.00
## 7910        26000.00       284.29              0.00       0.00
## 7925        15000.00       896.80              0.00       0.00
## 7945        35000.00      1974.94              0.00       0.00
## 7963        15000.00      1291.71              0.00       0.00
## 7972         8000.00       328.28              0.00       0.00
## 7980        24000.00        33.94              0.00       0.00
## 7985         2609.46       851.51              0.00       0.00
## 8006        20000.00       877.91              0.00       0.00
## 8009            0.00         0.00              0.00       0.00
## 8024        12000.00       863.52              0.00       0.00
## 8042         4000.00        50.73              0.00       0.00
## 8046         9600.00       509.58              0.00       0.00
## 8047         7200.00       645.09              0.00       0.00
## 8080        10000.00      1037.26              0.00       0.00
## 8086        10000.00       711.75              0.00       0.00
## 8111         9000.00       345.56              0.00       0.00
## 8125          490.13       817.13              0.00    3417.53
## 8140        15000.00      1030.96              0.00       0.00
## 8148          579.89       189.22              0.00       0.00
## 8154        17000.00       858.26              0.00       0.00
## 8174        20000.00       804.83              0.00       0.00
## 8192         5000.00        82.31              0.00       0.00
## 8261         9000.00       855.35              0.00       0.00
## 8269        30000.00      1432.75              0.00       0.00
## 8275        11000.00       505.60              0.00       0.00
## 8287          288.95       149.70              0.00       0.00
## 8303        21625.00       302.00              0.00       0.00
## 8304         6000.00       349.81              0.00       0.00
## 8339        14400.00      1240.49              0.00       0.00
## 8352        25000.00      2703.89              0.00       0.00
## 8370         2400.00       190.65              0.00       0.00
## 8384        22000.00      2370.60              0.00       0.00
## 8388        32000.00      1712.36              0.00       0.00
## 8400         7200.00       431.32              0.00       0.00
## 8420        16000.00       733.69              0.00       0.00
## 8432          658.98       382.54              0.00    1913.24
## 8439         1624.47      1088.55              0.00       0.00
## 8440        30000.00      3673.62              0.00       0.00
## 8444         1000.00        21.81              0.00       0.00
## 8455        15000.00       801.16             33.84       0.00
## 8457          561.00       321.40             15.00       0.00
## 8460         2325.00        84.70              0.00       0.00
## 8466        30000.00      1725.61              0.00       0.00
## 8478        15000.00      1033.07              0.00       0.00
## 8485         1578.84      1034.35              0.00       0.00
## 8494         2400.00       209.78              0.00       0.00
## 8495        15000.00       516.97              0.00       0.00
## 8503         7000.00       375.60              0.00       0.00
## 8520          452.38       216.23              0.00    1333.78
## 8546         5500.00       212.15              0.00       0.00
## 8548         1428.54       557.10              0.00       0.00
## 8562         1000.00       106.61              0.00       0.00
## 8577        23000.00      2437.19              0.00       0.00
## 8582         2400.00        31.76              0.00       0.00
## 8584        20000.00       459.25              0.00       0.00
## 8593          997.05      2505.35             33.39     892.95
## 8597        20000.00      1224.77              0.00       0.00
## 8601        12000.00       148.45              0.00       0.00
## 8603         4000.00       754.54              0.00       0.00
## 8645        10000.00       259.48              0.00       0.00
## 8659         4800.00       350.75              0.00       0.00
## 8679         3266.88      1082.83              0.00       0.00
## 8682         1869.90       852.46              0.00       0.00
## 8691        15000.00       347.62              0.00       0.00
## 8695         1644.26      1687.65              0.00       0.00
## 8698         9600.00       285.13              0.00       0.00
## 8725         6300.00         2.38              0.00       0.00
## 8730        16000.00       920.21              0.00       0.00
```

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## 8733        8400.00       477.15            0.00       0.00
## 8734         383.93       323.61           15.00       0.00
## 8748         196.06       315.52            0.00    1329.91
## 8755        5000.00       227.66            0.00       0.00
## 8774       10000.00      1610.66            0.00       0.00
## 8784        3850.00       185.43            0.00       0.00
## 8789        7500.00       209.38            0.00       0.00
## 8799       12000.00       993.59            0.00       0.00
## 8813       30000.00      1979.48            0.00       0.00
## 8815        6250.00       799.71            0.00       0.00
## 8827       20000.00       122.36            0.00       0.00
## 8829        7500.00       551.75           15.00       0.00
## 8833           0.00         0.00            0.00       0.00
## 8836       12500.00         5.77            0.00       0.00
## 8842       40000.00      1677.30            0.00       0.00
## 8849        5000.00       124.57            0.00       0.00
## 8863        2000.00        13.88            0.00       0.00
## 8879        4000.00        62.74            0.00       0.00
## 8886       12000.00       719.62            0.00       0.00
## 8889        6000.00       333.88            0.00       0.00
## 8930         308.61       236.28           15.00       0.00
## 8934        7200.00       325.29            0.00       0.00
## 8936       10000.00         2.23            0.00       0.00
## 8940        8000.00      1055.66            0.00       0.00
## 8949        6000.00       231.82            0.00       0.00
## 8952       24000.00      1881.16            0.00       0.00
## 8954       10000.00       271.47            0.00       0.00
## 8996        4000.00       325.94            0.00       0.00
## 9028         489.47       405.68            0.00       0.00
## 9029        1289.58       877.76            0.00       0.00
## 9039       13525.00      1235.45            0.00       0.00
## 9043        8000.00       659.47            0.00       0.00
## 9044       25000.00       820.15            0.00       0.00
## 9046        1900.00       133.24            0.00       0.00
## 9062       10000.00       788.45            0.00       0.00
## 9065       12000.00      1013.15            0.00       0.00
## 9144        1500.00       127.36            0.00       0.00
## 9172       15000.00      1226.23            0.00       0.00
## 9184        1800.00        19.36            0.00       0.00
## 9201        6000.00       270.56            0.00       0.00
## 9213       10000.00       704.59            0.00       0.00
## 9224       11500.00      1121.54            0.00       0.00
## 9233       12000.00      1313.06            0.00       0.00
## 9239       22500.00      1139.07            0.00       0.00
## 9256       10000.00       498.38            0.00       0.00
## 9260        7450.00       449.06            0.00       0.00
## 9272         212.49       270.22            0.00       0.00
## 9279         855.98       467.92            0.00       0.00
## 9290       10000.00       988.29            0.00       0.00
## 9302       12000.00       484.65            0.00       0.00
## 9308       14000.00      1333.17            0.00       0.00
## 9315       35000.00      3111.22            0.00       0.00
## 9320         805.75       386.23            0.00       0.00
## 9341       16000.00       629.72            0.00       0.00
## 9379       35000.00      2568.10            0.00       0.00
## 9400        4000.00         2.17            0.00       0.00
## 9418       27300.00      1195.11            0.00       0.00
## 9437         725.40      1543.52            0.00       0.00
## 9477       35000.00       802.34            0.00       0.00
## 9495        6400.00      1130.15            0.00       0.00
## 9496         814.67       176.82            0.00       0.00
## 9505       15000.00       968.54            0.00       0.00
## 9532       16000.00       365.26            0.00       0.00
## 9538       20000.00        10.86            0.00       0.00
## 9583       16000.00        10.66            0.00       0.00
## 9585       10000.00      1327.13            0.00       0.00
## 9597        1068.31       753.56            0.00       0.00
## 9608        6000.00       975.17            0.00       0.00
## 9620       10000.00       797.35            0.00       0.00
## 9661       12000.00       105.66            0.00       0.00
## 9687       35000.00      1188.54            0.00       0.00
## 9693       15000.00      1629.56            0.00       0.00
## 9703       10000.00       803.68            0.00       0.00
## 9709        8000.00       329.03            0.00       0.00
## 9726        1000.00         9.34            0.00       0.00
## 9805        1293.34      1001.76            0.00       0.00
## 9806       10000.00       965.53            0.00       0.00
## 9809       28000.00      3315.65            0.00       0.00
## 9824        5000.00       196.07            0.00       0.00
## 9826        8000.00       520.08            0.00       0.00
## 9837       10000.00       386.94            0.00       0.00
## 9841       40000.00        78.22            0.00       0.00
## 9844        8000.00       437.65            0.00       0.00
## 9849       20000.00       687.33            0.00       0.00
## 9912       17600.00       780.05            0.00       0.00
## 9925       25000.00      2489.61            0.00       0.00
## 9926       11600.00         2.60            0.00       0.00
## 9933       10000.00       809.89            0.00       0.00
## 9937         965.08       844.97            0.00       0.00
## 9941        6500.00        79.82            0.00       0.00
## 9951       26000.00       757.16            0.00       0.00
## 9960       25000.00       531.03            0.00       0.00
## 9987        7750.00       747.88            0.00       0.00
## 9997       15000.00       811.20            0.00       0.00
## 10003       2778.79      1399.14            0.00       0.00
## 10010      17000.00       963.71            0.00       0.00
## 10011       2406.04      1108.42            0.00       0.00
## 10047       6000.00       697.07            0.00       0.00
```

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## 10050         8400.00        645.17               0.00       0.00
## 10093        12000.00       2057.49               0.00       0.00
## 10104        30000.00       1683.57               0.00       0.00
## 10111         1074.21        695.89               0.00       0.00
## 10131        19000.00        935.79               0.00       0.00
## 10137         3000.00         57.77               0.00       0.00
## 10144        11000.00        603.96               0.00       0.00
## 10169        20000.00        221.83               0.00       0.00
## 10172         2000.00         78.47               0.00       0.00
## 10176         4800.00        428.89               0.00       0.00
## 10184        19450.00       1993.86               0.00       0.00
## 10202        15000.00        882.72               0.00       0.00
## 10209        24000.00       3619.33               0.00       0.00
## 10215        19000.00        623.92               0.00       0.00
## 10242         6000.00        777.23               0.00       0.00
## 10248        18000.00        230.62               0.00       0.00
## 10267         6000.00        566.09               0.00       0.00
## 10275         5000.00        501.53               0.00       0.00
## 10276         3600.00         76.75               0.00       0.00
##       collection_recovery_fee last_pymnt_d last_pymnt_amnt next_pymnt_d
## 35                     0.0000     Jan-2019        10141.66
## 54                     0.0000     Jan-2019        10079.32
## 59                     0.0000     Jan-2019         8268.18
## 60                     0.0000     Dec-2018        40093.97
## 71                     0.0000     Jan-2019        10171.97
## 73                     0.0000     Feb-2019           88.09
## 74                     0.0000     Dec-2018        10011.01
## 90                     0.0000     Jan-2019         6696.35
## 101                    0.0000     Dec-2018         3003.89
## 124                    0.0000     Jan-2019         6749.73
## 137                    0.0000     Jan-2019         3068.15
## 142                    0.0000     Jan-2019            0.95
## 143                    0.0000     Jan-2019         8083.65
## 160                    0.0000     Feb-2019         6438.44
## 161                    0.0000     Dec-2018         8013.77
## 165                    0.0000     Dec-2018        13541.52
## 174                    0.0000     Feb-2019         2949.91
## 192                    0.0000     Feb-2019          320.24
## 193                    0.0000     Jan-2019        12159.73
## 206                    0.0000     Jan-2019         8777.00
## 212                    0.0000     Dec-2018        10019.15
## 218                    0.0000     Dec-2018        18017.04
## 229                    0.0000     Jan-2019           40.38
## 232                    0.0000     Feb-2019         5919.59
## 234                    0.0000     Dec-2018         5012.45
## 236                    0.0000     Feb-2019           14.66
## 246                    0.0000     Feb-2019        35250.24
## 247                    0.0000     Jan-2019         3027.80
## 262                    0.0000     Dec-2018         6089.40
## 285                    0.0000     Jan-2019         9830.74
## 296                    0.0000     Dec-2018         9681.81
## 302                    0.0000     Dec-2018         1011.74
## 304                    0.0000     Dec-2018         1021.45
## 324                    0.0000     Nov-2018        15051.29
## 326                    0.0000     Dec-2018        14422.09
## 328                    0.0000     Jan-2019        15150.93
## 329                    0.0000     Dec-2018          306.97
## 330                    0.0000     Feb-2019        23472.78
## 338                    0.0000     Dec-2018          348.45
## 353                    0.0000     Feb-2019        14363.13
## 357                    0.0000     Feb-2019        10497.06
## 361                    0.0000                         0.00
## 370                    0.0000     Jan-2019        29693.26
## 377                    0.0000     Jan-2019          370.53
## 382                    0.0000     Feb-2019          108.07
## 410                    0.0000     Dec-2018        10120.62
## 428                    0.0000     Nov-2018         7004.22
## 450                    0.0000     Dec-2018         6065.54
## 465                    0.0000     Dec-2018            5.60
## 466                    0.0000     Dec-2018        15221.86
## 471                    0.0000     Feb-2019         7251.25
## 479                    0.0000     Dec-2018         5072.38
## 485                    0.0000     Feb-2019         5954.95
## 491                    0.0000     Jan-2019         5997.90
## 496                    0.0000     Jan-2019         9914.00
## 497                    0.0000     Jan-2019        18220.43
## 499                    0.0000     Dec-2018        12184.05
## 548                    0.0000     Jan-2019        21087.09
## 558                    0.0000     Nov-2018         8528.56
## 570                    0.0000     Jan-2019        10003.48
## 577                    0.0000     Dec-2018            1.56
## 579                    0.0000     Nov-2018         9011.76
## 608                    0.0000     Dec-2018         3806.05
## 626                    0.0000     Nov-2018        20053.51
## 634                    0.0000     Nov-2018        20062.21
## 636                    0.0000     Jan-2019         9654.77
## 641                    0.0000     Nov-2018        13216.44
## 658                    0.0000     Jan-2019         2934.68
## 660                    0.0000     Nov-2018        20156.15
## 670                    0.0000     Feb-2019           74.39
## 674                    0.0000     Jan-2019         9665.49
## 689                    0.0000     Dec-2018         8223.50
## 696                    0.0000     Feb-2019           30.83
## 705                    0.0000     Jan-2019        10416.75
## 713                    0.0000     Dec-2018        30169.90
## 752                    0.0000     Feb-2019        12093.85
## 790                    0.0000     Jan-2019         9850.21
## 799                    0.0000     Nov-2018        10246.33
```

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## 819                    0.0000     Jan-2019        11556.05
## 840                    0.0000     Oct-2018        32068.17
## 844                    0.0000     Oct-2018         4006.80
## 845                    0.0000     Dec-2018        19943.95
## 855                    0.0000     Dec-2018        24822.38
## 866                    0.0000     Dec-2018          155.37
## 869                    0.0000     Nov-2018         2525.83
## 899                    0.0000     Feb-2019        10677.45
## 904                    0.0000     Nov-2018           23.14
## 917                    0.0000     Oct-2018         5558.05
## 940                    0.0000     Feb-2019           59.38
## 957                    0.0000     Feb-2019         1398.22
## 960                    0.0000     Dec-2018        24021.35
## 993                    0.0000     Nov-2018         4588.67
## 998                    0.0000     Nov-2018        17098.83
## 1025                   0.0000     Jan-2019          146.28
## 1056                   0.0000     Jan-2019         2915.83
## 1063                   0.0000     Nov-2018         4074.95
## 1083                   0.0000     Feb-2019           77.80
## 1105                   0.0000     Dec-2018           71.47
## 1117                   0.0000     Oct-2018         6040.35
## 1118                   0.0000     Oct-2018         7020.97
## 1146                   0.0000     Feb-2019        24469.22
## 1170                   0.0000     Jan-2019         5759.75
## 1227                   0.0000     Jan-2019         6842.34
## 1263                   0.0000     Sep-2018         5008.24
## 1264                   0.0000     Nov-2018        10071.29
## 1273                   0.0000     Oct-2018        14074.26
## 1285                   0.0000     Nov-2018         5075.55
## 1319                   0.0000     Jan-2019         3253.91
## 1337                   0.0000     Jan-2019         5617.62
## 1349                   0.0000     Dec-2018           33.63
## 1351                   0.0000     Oct-2018        35973.64
## 1356                   0.0000     Sep-2018        10027.25
## 1386                   0.0000     Feb-2019         4526.68
## 1388                   0.0000     Dec-2018          221.87
## 1390                   0.0000     Jan-2019        13965.63
## 1410                   0.0000     Nov-2018        29659.03
## 1416                   0.0000     Oct-2018        40594.92
## 1434                   0.0000     Sep-2018        22025.67
## 1439                   0.0000     Nov-2018         2015.64
## 1449                   0.0000     Jan-2019        23791.45
## 1459                   0.0000     Oct-2018        15151.64
## 1462                   0.0000     Nov-2018        12000.55
## 1480                   0.0000     Sep-2018        12029.87
## 1484                   0.0000     Nov-2018         5008.54
## 1487                   0.0000     Nov-2018        35548.00
## 1527                   0.0000     Dec-2018         5064.14
## 1529                   0.0000     Dec-2018         5830.43
## 1530                   0.0000     Dec-2018         4951.36
## 1545                   0.0000     Jan-2019        32969.26
## 1567                   0.0000     Nov-2018         5572.92
## 1597                   0.0000     Jan-2019         9861.58
## 1601                   0.0000     Jan-2019        15581.73
## 1623                   0.0000     Jan-2019        37495.23
## 1633                   0.0000     Dec-2018          346.92
## 1636                   0.0000     Dec-2018        14450.86
## 1640                   0.0000     Jan-2019        18963.15
## 1645                   0.0000     Jan-2019         7040.15
## 1650                   0.0000     Nov-2018        30574.20
## 1671                   0.0000     Oct-2018         1510.45
## 1672                   0.0000     Oct-2018        11874.96
## 1696                   0.0000     Oct-2018          281.81
## 1704                   0.0000     Feb-2019           10.48
## 1721                   0.0000     Oct-2018        12230.88
## 1724                   0.0000     Dec-2018        11821.16
## 1728                   0.0000     Jan-2019         9296.93
## 1730                   0.0000     Dec-2018        26467.43
## 1734                   0.0000     Jan-2019          951.63
## 1752                   0.0000     Nov-2018         4548.74
## 1771                   0.0000     Sep-2018        35098.70
## 1816                   0.0000     Dec-2018        14066.23
## 1846                   0.0000     Dec-2018        10270.96
## 1850                   0.0000     Dec-2018         4443.82
## 1853                   0.0000     Dec-2018         9927.16
## 1856                   0.0000     Dec-2018        19528.18
## 1857                   0.0000     Nov-2018          635.26
## 1862                   0.0000     Sep-2018         5564.63
## 1865                   0.0000     Oct-2018         7968.47
## 1866                   0.0000     Nov-2018        14719.10
## 1867                   0.0000     Jan-2019        24332.10
## 1896                   0.0000     Feb-2019        10567.48
## 1905                   0.0000     Feb-2019         2240.91
## 1907                   0.0000     Oct-2018         3978.07
## 1922                   0.0000     Dec-2018        14863.80
## 1930                   0.0000     Dec-2018           75.50
## 1933                   0.0000     Dec-2018         9577.83
## 1952                   0.0000     Oct-2018         9810.32
## 1956                   0.0000     Sep-2018         4034.07
## 1961                   0.0000     Sep-2018        19838.98
## 1963                   0.0000     Aug-2018        12034.90
## 2004                   0.0000     Jan-2019         2804.11
## 2012                   0.0000     Dec-2018         9329.44
## 2017                   0.0000     Oct-2018          148.14
## 2019                   0.0000     Nov-2018        25309.81
## 2026                   0.0000     Nov-2018        14406.99
## 2027                   0.0000     Dec-2018           43.88
## 2039                   0.0000     Jan-2019         8254.33
```

```
## 2041                0.0000     Aug-2018        30082.70
## 2051                0.0000     Aug-2018        10019.60
## 2060                0.0000     Dec-2018           11.09
## 2065                0.0000     Nov-2018          413.95
## 2073                0.0000     Aug-2018        28028.30
## 2105                0.0000     Oct-2018         3470.09
## 2117                0.0000     Dec-2018            3.47
## 2128                0.0000     Aug-2018         6004.21
## 2129              153.2259                         0.00
## 2136                0.0000     Jan-2019         4711.67
## 2137                0.0000     Nov-2018        11716.37
## 2148                0.0000     Dec-2018           15.18
## 2155                0.0000     Sep-2018         3040.89
## 2168                0.0000     Oct-2018         7894.77
## 2197                0.0000     Jan-2019         9058.61
## 2215                0.0000     Sep-2018           14.35
## 2224                0.0000     Aug-2018        10023.22
## 2234                0.0000     Sep-2018        10976.51
## 2255                0.0000     Oct-2018        15928.88
## 2258                0.0000     Oct-2018        23875.90
## 2286                0.0000     Nov-2018          263.13
## 2296                0.0000     Aug-2018         3212.54
## 2329                0.0000     Feb-2019          694.97
## 2342                0.0000     Sep-2018         5104.82
## 2347                0.0000     Sep-2018        31555.29
## 2357                0.0000     Sep-2018        11296.79
## 2377                0.0000     Nov-2018         3181.46
## 2393                0.0000                          0.00
## 2396                0.0000     Oct-2018        35686.66
## 2399                0.0000     Feb-2019           78.15
## 2405                0.0000     Sep-2018        40705.13
## 2420                0.0000     Aug-2018         6012.52
## 2425                0.0000     Oct-2018        14881.91
## 2429                0.0000     Feb-2019         2235.86
## 2439                0.0000     Oct-2018         2846.71
## 2447                0.0000     Aug-2018        30128.89
## 2449                0.0000     Dec-2018         1927.16
## 2457                0.0000     Dec-2018         9339.91
## 2478                0.0000     Dec-2018         7955.13
## 2480                0.0000     Aug-2018         4231.75
## 2492                0.0000     Jan-2019        13936.40
## 2494                0.0000     Nov-2018        18944.33
## 2504                0.0000     Oct-2018           79.64
## 2510                0.0000     Aug-2018         6633.88
## 2514                0.0000     Sep-2018         2772.57
## 2516                0.0000     Aug-2018        15105.69
## 2522                0.0000     Oct-2018          585.43
## 2529                0.0000     Oct-2018        11500.53
## 2535                0.0000     Oct-2018          185.62
## 2545                0.0000     Jan-2019         7265.07
## 2549                0.0000     Oct-2018        11414.17
## 2593                0.0000     Sep-2018          630.24
## 2598                0.0000     Oct-2018        11137.59
## 2604                0.0000     Oct-2018          475.19
## 2628                0.0000     Dec-2018         9349.77
## 2631                0.0000     Nov-2018         5869.42
## 2661                0.0000     Aug-2018        12050.73
## 2673                0.0000     Aug-2018        40042.35
## 2692                0.0000     Dec-2018          600.00
## 2707                0.0000     Aug-2018        10015.50
## 2714                0.0000     Aug-2018        30041.31
## 2715                0.0000     Sep-2018        21514.31
## 2761                0.0000     Oct-2018        15950.08
## 2772                0.0000     Jan-2019           97.61
## 2788                0.0000     Aug-2018        10070.46
## 2789                0.0000     Jan-2019        19891.94
## 2820                0.0000     Jan-2019         3134.17
## 2840                0.0000     Nov-2018        13418.73
## 2856                0.0000     Sep-2018        20894.33
## 2858                0.0000     Sep-2018        16185.08
## 2861                0.0000     Dec-2018         7395.01
## 2872                0.0000     Aug-2018         3653.70
## 2877                0.0000     Nov-2018        30100.85
## 2878                0.0000     Jan-2019        10578.58
## 2879                0.0000     Oct-2018        18707.22
## 2893                0.0000     Jul-2018        30044.39
## 2913                0.0000     Aug-2018            7.70
## 2915                0.0000     Feb-2019        31800.88
## 2918                0.0000     Nov-2018         9741.63
## 2940                0.0000     Oct-2018         9923.43
## 2942                0.0000     Jul-2018        15029.27
## 2954                0.0000     Aug-2018         7253.47
## 2976                0.0000     Oct-2018         5793.35
## 2977                0.0000     Jan-2019         4389.09
## 2978                0.0000     Jul-2018         7165.55
## 2982                0.0000     Aug-2018        10173.83
## 3002                0.0000     Jan-2019          481.22
## 3012                0.0000     Feb-2019        13010.75
## 3017                0.0000     Nov-2018         2895.84
## 3018                0.0000     Dec-2018         9288.34
## 3021                0.0000                          0.00
## 3034                0.0000     Feb-2019         5664.36
## 3045                0.0000     Sep-2018        14960.50
## 3050                0.0000     Aug-2018        15077.50
## 3057                0.0000     Jan-2019            8.05
## 3071                0.0000     Aug-2018        10213.88
## 3104                0.0000     Oct-2018         7732.39
## 3112                0.0000     Aug-2018        30717.25
```

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## 3124                    0.0000     Sep-2018        19686.65
## 3150                    0.0000     Aug-2018        18266.41
## 3160                    0.0000     Aug-2018         3203.86
## 3165                    0.0000     Sep-2018        36596.01
## 3172                    0.0000     Jan-2019           28.79
## 3177                    0.0000     Aug-2018         7104.41
## 3213                    0.0000     Oct-2018         3854.49
## 3222                    0.0000     Sep-2018         1971.46
## 3237                    0.0000     Aug-2018         7560.53
## 3252                    0.0000     Jan-2019         1881.28
## 3257                    0.0000     Sep-2018         8290.99
## 3258                    0.0000     Sep-2018          993.85
## 3265                    0.0000     Sep-2018        24010.52
## 3276                    0.0000     Aug-2018         6134.06
## 3289                    0.0000     Sep-2018        30543.02
## 3307                    0.0000     Oct-2018        11955.59
## 3312                    0.0000     Nov-2018        33246.54
## 3317                    0.0000     Dec-2018        31740.60
## 3333                    0.0000     Jan-2019        28483.62
## 3366                    0.0000     Oct-2018        29686.42
## 3383                    0.0000     Nov-2018         6643.59
## 3419                    0.0000     Jan-2019        11563.28
## 3421                    0.0000     Dec-2018         3933.90
## 3422                    0.0000     Oct-2018         9221.54
## 3429                    0.0000     Nov-2018        18780.25
## 3433                    0.0000     Dec-2018         9174.45
## 3449                    0.0000     Oct-2018        14660.80
## 3458                    0.0000     Jan-2019           90.84
## 3467                    0.0000     Dec-2018         8273.54
## 3471                    0.0000     Aug-2018        12283.09
## 3480                    0.0000     Jan-2019        16797.55
## 3482                    0.0000     Oct-2018         8727.57
## 3502                    0.0000     Feb-2019         1332.03
## 3504                    0.0000     Sep-2018         5911.11
## 3507                    0.0000     Sep-2018           16.03
## 3536                    0.0000     Dec-2018        14207.05
## 3538                    0.0000     Dec-2018        16995.46
## 3542                    0.0000     Dec-2018           58.84
## 3547                    0.0000     Sep-2018         2915.10
## 3553                    0.0000     Aug-2018        20685.57
## 3567                    0.0000     Jul-2018        10037.57
## 3590                    0.0000     Jan-2019           22.01
## 3607                    0.0000     Dec-2018         8792.76
## 3623                    0.0000     Oct-2018        11714.77
## 3635                    0.0000     Nov-2018          548.59
## 3655                    0.0000     Aug-2018         7898.09
## 3684                    0.0000     Jul-2018         5024.69
## 3687                    0.0000     Feb-2019         5364.13
## 3688                    0.0000     Sep-2018          253.79
## 3699                    0.0000     Jul-2018        21660.04
## 3701                    0.0000     Jan-2019         1429.09
## 3712                    0.0000     Aug-2018        12265.19
## 3730                    0.0000     Dec-2018        11455.66
## 3749                    0.0000     Sep-2018         1221.71
## 3756                    0.0000     Sep-2018          895.83
## 3758                    0.0000     Jul-2018         6038.21
## 3771                    0.0000     Oct-2018        11142.42
## 3785                    0.0000     Sep-2018        14319.46
## 3788                    0.0000     Dec-2018        14793.30
## 3852                    0.0000     Nov-2018         4605.45
## 3857                    0.0000     Jul-2018        35380.94
## 3865                    0.0000     Sep-2018        24997.54
## 3889                    0.0000     Aug-2018        20109.10
## 3892                    0.0000     Aug-2018          982.53
## 3901                    0.0000     Sep-2018         5870.72
## 3917                    0.0000     Jul-2018        12051.03
## 3924                    0.0000     Oct-2018         6835.80
## 3938                    0.0000     Aug-2018         7921.34
## 3947                    0.0000     Oct-2018          315.62
## 3949                    0.0000     Sep-2018         9698.58
## 3959                    0.0000     Jun-2018         8026.96
## 3977                    0.0000     Jan-2019           28.65
## 3990                    0.0000     Oct-2018        18981.79
## 4001                    0.0000     Nov-2018          174.18
## 4003                    0.0000     Oct-2018        14084.86
## 4016                    0.0000     Nov-2018        34042.58
## 4017                    0.0000     Jul-2018        10242.05
## 4021                    0.0000     Jan-2019        17130.67
## 4022                    0.0000     Sep-2018          333.31
## 4026                    0.0000     Oct-2018         3776.28
## 4036                    0.0000     Jul-2018        10554.79
## 4049                    0.0000     Nov-2018        13536.97
## 4054                    0.0000     Dec-2018        13377.93
## 4093                    0.0000     Jun-2018        25046.98
## 4099                    0.0000     Oct-2018          100.00
## 4104                    0.0000     Jul-2018        35268.22
## 4107                    0.0000     Jul-2018         4959.36
## 4110                    0.0000     Jan-2019        14110.32
## 4122                    0.0000     Jul-2018        19692.05
## 4128                    0.0000     Aug-2018          332.77
## 4131                    0.0000     Aug-2018         2971.21
## 4133                    0.0000     Jul-2018        12192.52
## 4135                    0.0000     Nov-2018         5578.18
## 4151                    0.0000     Dec-2018         3635.94
## 4153                    0.0000     Sep-2018        12495.65
## 4157                    0.0000     Dec-2018         4429.93
## 4233                    0.0000     Dec-2018         9479.67
## 4237                    0.0000     Nov-2018         2316.30
```

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## 4254                    0.0000     Jan-2019         8328.88
## 4258                    0.0000     Oct-2018         1422.61
## 4259                    0.0000     Aug-2018          878.71
## 4261                    0.0000     Nov-2018         8773.43
## 4265                    0.0000     Dec-2018        10949.07
## 4269                    0.0000     Sep-2018          117.12
## 4297                    0.0000     Nov-2018          554.86
## 4307                    0.0000     Sep-2018          975.93
## 4341                    0.0000     Jan-2019         1721.76
## 4342                    0.0000     Nov-2018         9252.48
## 4351                    0.0000     Nov-2018         6391.40
## 4352                    0.0000     Feb-2019          144.21
## 4376                    0.0000     Nov-2018         2790.35
## 4395                    0.0000     Feb-2019         2422.26
## 4412                    0.0000     Nov-2018        11930.65
## 4414                    0.0000     Dec-2018         8813.33
## 4448                    0.0000     Jan-2019           21.65
## 4466                    0.0000     Nov-2018        20525.32
## 4476                    0.0000     Jul-2018        10217.10
## 4477                    0.0000     Jul-2018         9142.94
## 4498                    0.0000     Dec-2018         2152.08
## 4501                    0.0000     Jan-2019        14072.53
## 4506                    0.0000     Sep-2018        30145.17
## 4517                    0.0000     Oct-2018         6662.54
## 4524                    0.0000     Dec-2018          161.15
## 4532                    0.0000     Jul-2018        14372.77
## 4539                    0.0000     Jan-2019        13968.16
## 4552                    0.0000     Feb-2019        13786.19
## 4565                    0.0000     Nov-2018          335.95
## 4580                    0.0000     Feb-2019        17305.21
## 4584                    0.0000     Dec-2018        10520.93
## 4586                    0.0000     Jan-2019        11443.90
## 4611                    0.0000     Feb-2019         6827.01
## 4632                    0.0000     Sep-2018         6124.05
## 4682                    0.0000     Jun-2018        17046.18
## 4688                    0.0000     Dec-2018         6250.08
## 4692                    0.0000     Aug-2018         9957.74
## 4712                    0.0000     Sep-2018         3881.52
## 4743                    0.0000     Jun-2018         7804.60
## 4758                    0.0000     Jan-2019        34574.99
## 4769                    0.0000     Sep-2018        26123.66
## 4774                    0.0000     Aug-2018        17064.09
## 4775                    0.0000     Feb-2019        25317.17
## 4786                    0.0000     Jul-2018         1421.41
## 4791                    0.0000     Nov-2018         4412.42
## 4792                    0.0000     Oct-2018        11404.86
## 4797                    0.0000     Dec-2018        29477.90
## 4801                    0.0000     Dec-2018         9832.55
## 4816                    0.0000     Jun-2018        13309.12
## 4818                    0.0000     Sep-2018         8490.75
## 4832                    0.0000     Jun-2018        18016.09
## 4834                    0.0000     Aug-2018         9900.34
## 4880                    0.0000     Jul-2018         5117.24
## 4921                    0.0000     Jan-2019         4394.02
## 4922                    0.0000     Nov-2018        19117.64
## 4934                    0.0000     Jun-2018        20049.10
## 4951                    0.0000     Feb-2019           54.18
## 4958                    0.0000     Sep-2018           40.95
## 4985                    0.0000     Dec-2018         5157.49
## 5010                    0.0000     Dec-2018         8760.25
## 5021                    0.0000     Oct-2018         9839.67
## 5035                    0.0000     Jun-2018        10050.26
## 5036                    0.0000     Sep-2018        15388.90
## 5038                    0.0000     Jul-2018          859.72
## 5059                    0.0000     Oct-2018        10965.99
## 5060                    0.0000     Jun-2018         2518.48
## 5070                    0.0000     Jun-2018        11634.79
## 5103                    0.0000     Nov-2018         1066.16
## 5134                    0.0000     Nov-2018        18549.26
## 5136                    0.0000     Oct-2018        10944.68
## 5155                    0.0000     Aug-2018        35067.35
## 5157                    0.0000     Jun-2018        24562.25
## 5162                    0.0000     Nov-2018         4455.24
## 5163                    0.0000     Jan-2019        16694.78
## 5168                    0.0000     Aug-2018        15585.27
## 5169                    0.0000     Jul-2018        11905.20
## 5177                    0.0000     Nov-2018         4445.81
## 5184                    0.0000     Aug-2018        29801.02
## 5186                    0.0000     Aug-2018         5322.84
## 5218                    0.0000     Dec-2018        11372.71
## 5220                    0.0000     Jul-2018          330.41
## 5221                    0.0000     Jun-2018         5068.52
## 5244                    0.0000     Jun-2018         4650.78
## 5255                    0.0000     Jun-2018        24281.16
## 5278                    0.0000     Feb-2019           14.38
## 5295                    0.0000     May-2018        10020.89
## 5317                    0.0000     Nov-2018         2577.98
## 5325                    0.0000     Dec-2018        11320.80
## 5345                    0.0000     Aug-2018          406.79
## 5348                    0.0000     Jun-2018        10265.34
## 5354                    0.0000     Feb-2019        19644.34
## 5356                    0.0000     Aug-2018        12256.85
## 5358                    0.0000     Oct-2018        16301.03
## 5365                    0.0000     Sep-2018        11535.21
## 5379                    0.0000     Jun-2018           85.49
## 5390                    0.0000     Oct-2018           31.04
## 5406                    0.0000     Sep-2018        28502.30
## 5416                    0.0000     Jan-2019        27985.76
```

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## 5431                0.0000     Sep-2018         5679.71
## 5442                0.0000     Dec-2018          100.00
## 5467                0.0000     Nov-2018         8910.29
## 5494                0.0000     Jun-2018         6017.07
## 5554                0.0000     Feb-2019           49.52
## 5556                0.0000     Nov-2018         9137.77
## 5565                0.0000     Jun-2018         7836.09
## 5566                0.0000     Jan-2019        33452.90
## 5568                0.0000     Oct-2018          550.68
## 5574                0.0000     Sep-2018         1282.82
## 5597              506.4696                          0.00
## 5621                0.0000     Jun-2018        11490.82
## 5623                0.0000     Nov-2018         9650.75
## 5643                0.0000     Nov-2018          350.00
## 5664                0.0000     Sep-2018        12387.65
## 5666                0.0000     Sep-2018          628.31
## 5720              885.2868                          0.00
## 5731                0.0000     Nov-2018        17821.76
## 5733                0.0000     Nov-2018         5586.10
## 5734                0.0000     May-2018         4005.64
## 5749                0.0000     Jan-2019           24.97
## 5759                0.0000     Jun-2018        35517.07
## 5760                0.0000     Aug-2018        16060.19
## 5784                0.0000     Dec-2018         5527.80
## 5786                0.0000     Feb-2019         1640.22
## 5794                0.0000     Oct-2018         4334.31
## 5806                0.0000     Aug-2018         7772.35
## 5809                0.0000     Feb-2019         6085.90
## 5827                0.0000     Aug-2018        24928.14
## 5848                0.0000     Feb-2019         8260.18
## 5849                0.0000     Nov-2018        14350.96
## 5860                0.0000     Jun-2018        14222.98
## 5874                0.0000     Jun-2018        25419.05
## 5876                0.0000     Sep-2018         3847.43
## 5886                0.0000     Jul-2018          129.70
## 5923                0.0000     Aug-2018          346.85
## 5948                0.0000     Dec-2018         5997.15
## 5962                0.0000     Aug-2018        11788.05
## 5974                0.0000     Nov-2018         7758.70
## 6002                0.0000     Jun-2018         9084.93
## 6051                0.0000     Nov-2018        13287.50
## 6057                0.0000     Aug-2018           13.46
## 6083                0.0000     Sep-2018        11874.54
## 6097                0.0000     Aug-2018        39283.37
## 6126                0.0000     Sep-2018          323.05
## 6157                0.0000     Dec-2018        13612.71
## 6159                0.0000     Jun-2018        10184.35
## 6164                0.0000     Jan-2019         8536.80
## 6165                0.0000     Jan-2019        16569.85
## 6174                0.0000     Sep-2018          309.36
## 6183                0.0000     Aug-2018         1204.42
## 6196                0.0000     May-2018        10651.47
## 6203                0.0000     Jan-2019          179.44
## 6204                0.0000     Sep-2018           21.24
## 6207                0.0000     Nov-2018         9129.82
## 6209                0.0000     Jan-2019        13502.66
## 6237                0.0000     Sep-2018         3471.05
## 6247                0.0000     Nov-2018          136.63
## 6250                0.0000     May-2018         7007.22
## 6253                0.0000     Nov-2018         4457.79
## 6289                0.0000     Feb-2019         7950.98
## 6294                0.0000     Jul-2018         1972.95
## 6298                0.0000     May-2018         6046.59
## 6307                0.0000     Aug-2018        18328.17
## 6316                0.0000     Nov-2018          422.14
## 6333                0.0000     Oct-2018          351.82
## 6352                0.0000     Nov-2018        35252.22
## 6367                0.0000     Jul-2018         7903.09
## 6388                0.0000     Dec-2018        10555.96
## 6396                0.0000     Sep-2018          232.44
## 6402                0.0000     Aug-2018          427.39
## 6407                0.0000     Sep-2018         2042.11
## 6410                0.0000     Jul-2018        19951.39
## 6421                0.0000     Aug-2018          976.23
## 6422                0.0000     Aug-2018          132.82
## 6435                0.0000     Aug-2018          468.88
## 6449                0.0000     Jul-2018         9895.08
## 6455                0.0000     Jun-2018        37916.77
## 6456                0.0000     Aug-2018          182.95
## 6468                0.0000     Jan-2019        30066.06
## 6470                0.0000     Feb-2019         9215.50
## 6477                0.0000     Aug-2018        13601.74
## 6490                0.0000     Nov-2018         4439.27
## 6504                0.0000     May-2018        10814.88
## 6505                0.0000     Jul-2018         7926.72
## 6530                0.0000     Jul-2018        21274.28
## 6533                0.0000     Jan-2019        25403.83
## 6560                0.0000     Sep-2018          133.33
## 6570                0.0000     Jun-2018        27595.55
## 6585                0.0000     Nov-2018         5162.14
## 6599                0.0000     Oct-2018         1104.73
## 6612                0.0000     Nov-2018        28225.24
## 6617                0.0000     Oct-2018         9482.80
## 6628                0.0000     Nov-2018           71.88
## 6642                0.0000     Jun-2018        18394.16
## 6651                0.0000     Feb-2019        15752.71
## 6653                0.0000     Jul-2018        12485.90
## 6660                0.0000     Jan-2019         9488.18
```

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## 6673                    0.0000     Aug-2018          520.28
## 6675                    0.0000     Aug-2018          356.46
## 6680                    0.0000     Jul-2018          714.59
## 6696                    0.0000     Jan-2019         4205.39
## 6712                    0.0000     Sep-2018            0.95
## 6736                    0.0000     May-2018        12072.43
## 6750                    0.0000     Sep-2018          145.52
## 6782                    0.0000     Jan-2019           92.54
## 6784                    0.0000     Oct-2018          470.76
## 6793                    0.0000     Sep-2018        28744.83
## 6815                    0.0000     Oct-2018         7036.91
## 6833                    0.0000     Sep-2018         6002.26
## 6854                    0.0000     Oct-2018          654.05
## 6855                    0.0000     Jul-2018        15652.59
## 6878                    0.0000     Feb-2019            7.09
## 6879                    0.0000     Jan-2019        16114.58
## 6884                    0.0000     Aug-2018          649.21
## 6906                    0.0000     Jan-2019         7985.86
## 6922                    0.0000     Dec-2018         3606.75
## 6936                    0.0000     Dec-2018         4186.17
## 6950                    0.0000     Aug-2018        32647.54
## 6964                    0.0000     Jul-2018         3111.85
## 6984                    0.0000     Jun-2018           44.27
## 6985                    0.0000     Aug-2018        24020.37
## 6993                    0.0000     Jun-2018        24813.94
## 7000                    0.0000     Jan-2019        28048.39
## 7021                    0.0000     Feb-2019         4950.74
## 7027                    0.0000     Nov-2018         4312.64
## 7034                    0.0000     Aug-2018        14484.13
## 7038                    0.0000     May-2018         5652.53
## 7039                    0.0000     Nov-2018           81.47
## 7043                    0.0000     Feb-2019        27907.24
## 7068                    0.0000     Sep-2018        12092.11
## 7081                    0.0000     Dec-2018        10274.72
## 7095                    0.0000     Aug-2018         2281.51
## 7096                    0.0000     Dec-2018         8054.24
## 7099                    0.0000     Dec-2018        12840.90
## 7111                    0.0000     Jan-2019         4083.25
## 7115                    0.0000     Nov-2018         8613.48
## 7132                    0.0000     Jun-2018        23329.04
## 7133                    0.0000     Oct-2018         6328.13
## 7147                    0.0000     Sep-2018        13582.72
## 7158                    0.0000     May-2018         8141.67
## 7167                    0.0000     Aug-2018        17448.26
## 7168                    0.0000     Jun-2018        11918.30
## 7169                    0.0000     Aug-2018          268.49
## 7188                    0.0000     May-2018        10062.67
## 7193                    0.0000     Jun-2018          418.00
## 7232                    0.0000     Oct-2018         5348.46
## 7237                    0.0000     Aug-2018         1307.66
## 7249                    0.0000     Nov-2018        25821.82
## 7255                    0.0000     Jan-2019         5680.34
## 7262                    0.0000     Jul-2018          699.14
## 7279                    0.0000     Oct-2018         8892.07
## 7302                    0.0000     Jan-2019         8536.96
## 7310                    0.0000     Dec-2018        16839.49
## 7323                    0.0000     Nov-2018          388.73
## 7344                    0.0000     Feb-2019          102.51
## 7353                    0.0000     Jan-2019         5923.94
## 7355                    0.0000     Aug-2018         3831.97
## 7426                    0.0000     Jun-2018        21067.93
## 7445                    0.0000     Nov-2018        13796.54
## 7446                    0.0000     May-2018         5120.25
## 7460                    0.0000     Nov-2018        25808.13
## 7465                    0.0000     Jul-2018          466.10
## 7474                    0.0000     Nov-2018          524.20
## 7479                    0.0000     Oct-2018         9785.57
## 7485                    0.0000     Sep-2018           25.12
## 7530                    0.0000     Apr-2018         3511.00
## 7533                    0.0000     Jul-2018        35049.13
## 7538                    0.0000     Oct-2018         8824.22
## 7555                    0.0000     Oct-2018        23956.67
## 7562                    0.0000                         0.00
## 7564                    0.0000     Jul-2018         4784.64
## 7579                    0.0000     Aug-2018          848.31
## 7591                    0.0000     Sep-2018         7304.12
## 7594                    0.0000     Nov-2018         2049.03
## 7612                    0.0000     Nov-2018         5230.89
## 7619                    0.0000     Jul-2018         5527.03
## 7621                    0.0000     May-2018        40642.54
## 7704                    0.0000     Sep-2018        11773.52
## 7715                    0.0000     Jun-2018        25031.92
## 7737                    0.0000     Jan-2019        14999.08
## 7777                    0.0000     Jul-2018         3852.61
## 7792                    0.0000     Sep-2018        24397.56
## 7794                    0.0000     Dec-2018         6847.27
## 7824                    0.0000     Nov-2018         1845.45
## 7828                    0.0000     Oct-2018         2686.74
## 7833                    0.0000     Aug-2018        14345.57
## 7838                    0.0000     May-2018         3076.22
## 7840                    0.0000     Sep-2018         5668.17
## 7882                    0.0000     Oct-2018        22797.20
## 7893                    0.0000     Jun-2018        16039.44
## 7900                    0.0000     Dec-2018        16702.93
## 7910                    0.0000     May-2018        26324.94
## 7925                    0.0000     Oct-2018        14249.17
## 7945                    0.0000     Sep-2018        32333.06
## 7963                    0.0000     Jan-2019        12289.64
```

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## 7972          0.0000     Jul-2018         7787.13
## 7980          0.0000     Apr-2018        24055.29
## 7985          0.0000     Jul-2018         1160.27
## 8006          0.0000     Aug-2018        18898.92
## 8009          0.0000                         0.00
## 8024          0.0000     Jan-2019         9766.29
## 8042          0.0000     May-2018         3982.38
## 8046          0.0000     Jan-2019          693.69
## 8047          0.0000     Dec-2018         6121.88
## 8080          0.0000     Feb-2019         9014.41
## 8086          0.0000     Jan-2019         8103.59
## 8111          0.0000     Jul-2018         8740.81
## 8125        307.5777     Jun-2018          667.79
## 8140          0.0000     Jan-2019        12198.74
## 8148          0.0000     Jul-2018          257.84
## 8154          0.0000     Aug-2018        16695.48
## 8174          0.0000     Aug-2018        18832.37
## 8192          0.0000     May-2018         5086.08
## 8261          0.0000     Jan-2019         7456.72
## 8269          0.0000     Aug-2018        12301.79
## 8275          0.0000     Oct-2018         9745.07
## 8287          0.0000     Aug-2018          111.00
## 8303          0.0000     Jun-2018        21240.19
## 8304          0.0000     Nov-2018         5180.18
## 8339          0.0000     Nov-2018         3130.92
## 8352          0.0000     Nov-2018        22298.32
## 8370          0.0000     Dec-2018         2031.07
## 8384          0.0000     Feb-2019           41.05
## 8388          0.0000     Jan-2019        25723.22
## 8400          0.0000     Aug-2018         6658.27
## 8420          0.0000     Nov-2018          107.66
## 8432        344.3832     Jun-2018          527.43
## 8439          0.0000     Aug-2018          545.68
## 8440          0.0000     Dec-2018        28197.18
## 8444          0.0000     May-2018         1023.14
## 8455          0.0000     Sep-2018        14151.97
## 8457          0.0000     Oct-2018          605.76
## 8460          0.0000     Jul-2018          295.96
## 8466          0.0000     Jun-2018        30806.48
## 8478          0.0000     Jul-2018          359.84
## 8485          0.0000     Sep-2018          590.46
## 8494          0.0000     Nov-2018         2105.57
## 8495          0.0000     Jul-2018        14530.79
## 8503          0.0000     Oct-2018           47.23
## 8520        240.0804     Jun-2018          342.12
## 8546          0.0000     Nov-2018          290.25
## 8548          0.0000     Oct-2018          332.05
## 8562          0.0000     Jan-2019          799.41
## 8577          0.0000     Jan-2019         1182.92
## 8582          0.0000     May-2018         2433.64
## 8584          0.0000     Jul-2018        19668.91
## 8593        160.7310     Jan-2019          892.95
## 8597          0.0000     Sep-2018        18503.44
## 8601          0.0000     Jun-2018        11787.05
## 8603          0.0000     Jan-2019         3474.20
## 8645          0.0000     Jun-2018         9836.26
## 8659          0.0000     Jan-2019         3770.77
## 8679          0.0000     Oct-2018          727.11
## 8682          0.0000     Nov-2018          341.27
## 8691          0.0000     Jul-2018        13987.31
## 8695          0.0000     Oct-2018          558.64
## 8698          0.0000     May-2018         9073.46
## 8725          0.0000     Apr-2018         6310.01
## 8730          0.0000     Jun-2018        15774.93
## 8733          0.0000     Jun-2018         8257.24
## 8734          0.0000     Oct-2018           30.00
## 8748        239.3838     May-2018          267.12
## 8755          0.0000     Feb-2019           81.42
## 8774          0.0000     Jan-2019         8270.65
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## 8815          0.0000     Dec-2018         5267.44
## 8827          0.0000     Apr-2018        20137.27
## 8829          0.0000     Dec-2018         6099.31
## 8833          0.0000                         0.00
## 8836          0.0000     Mar-2018        12525.31
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## 8849          0.0000     Sep-2018         2753.06
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## 8886          0.0000     Aug-2018        11119.71
## 8889          0.0000     Oct-2018         5184.96
## 8930          0.0000     Dec-2018          100.00
## 8934          0.0000     Nov-2018         5964.15
## 8936          0.0000     Mar-2018        10005.96
## 8940          0.0000     Jan-2019         6479.52
## 8949          0.0000     Dec-2018           13.00
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## 8954          0.0000     May-2018        10284.73
## 8996          0.0000     Dec-2018          434.27
## 9028          0.0000     Jul-2018          225.54
## 9029          0.0000     Jul-2018          545.68
## 9039          0.0000     Oct-2018        11931.09
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## 9044          0.0000     Jun-2018        24709.96
## 9046          0.0000     Aug-2018         1771.19
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## 9184                  0.0000     May-2018         1765.75
## 9201                  0.0000     Oct-2018         5148.46
## 9213                  0.0000     Nov-2018         8428.26
## 9224                  0.0000     Nov-2018        10763.45
## 9233                  0.0000     Dec-2018        10003.35
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## 9320                  0.0000     Aug-2018          239.49
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## 9437                  0.0000     Jul-2018          573.86
## 9477                  0.0000     May-2018        35037.47
## 9495                  0.0000     Jan-2019         5342.55
## 9496                  0.0000     Nov-2018          124.14
## 9505                  0.0000     Nov-2018        12568.85
## 9532                  0.0000     Jun-2018         3804.25
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## 9693                  0.0000     Oct-2018        14306.39
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## 9849                  0.0000     Sep-2018        17620.29
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## 74              Dec-2018                          0           1
## 90              Feb-2019                          0           1
## 101             Feb-2019                          0           1
## 124             Jan-2019                          0           1
## 137             Jan-2019                          0           1
## 142             Jan-2019                          0           1
## 143             Feb-2019                          0           1
## 160             Feb-2019                          0           1
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## 165          Feb-2019                    0          1
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## 1351         Feb-2019                    0          1
## 1356         Feb-2019                    0          1
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## 2425          Feb-2019                        0          1
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## 3502          Jan-2019                        0          1
## 3504          Oct-2018                        0          1
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## 4611          Feb-2019                        0          1
## 4632          Jan-2019                        0          1
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## 2840        Individual                                    0            0
```

```
## 2856        Individual                                    0            0
## 2858        Individual                                    0            0
## 2861        Individual                                    0         1289
## 2872        Individual                                    0         1220
## 2877        Individual                                    0            0
## 2878        Individual                                    0         6933
## 2879        Individual                                    0            0
## 2893        Individual                                    0            0
## 2913        Individual                                    0            0
## 2915        Individual                                    0            0
## 2918        Individual                                    0          316
## 2940        Individual                                    0            0
## 2942        Individual                                    0            0
## 2954        Individual                                    0            0
## 2976        Individual                                    0            0
## 2977        Individual                                    0            0
## 2978        Individual                                    0            0
## 2982        Individual                                    0            0
## 3002        Individual                                    0            0
## 3012        Individual                                    0            0
## 3017        Individual                                    0            0
## 3018        Individual                                    0            0
## 3021        Individual                                    0            0
## 3034        Individual                                    0         3102
## 3045        Individual                                    0            0
## 3050        Individual                                    0            0
## 3057        Individual                                    0            0
## 3071        Individual                                    0            0
## 3104        Individual                                    0            0
## 3112        Individual                                    0            0
## 3124        Individual                                    0            0
## 3150        Individual                                    0            0
## 3160        Individual                                    0            0
## 3165        Individual                                    0            0
## 3172        Individual                                    0            0
## 3177        Individual                                    0            0
## 3213        Individual                                    0            0
## 3222        Individual                                    0          259
## 3237        Individual                                    0            0
## 3252        Individual                                    0            0
## 3257        Individual                                    0            0
## 3258        Individual                                    0            0
## 3265        Individual                                    0            0
## 3276        Individual                                    0            0
## 3289        Individual                                    0            0
## 3307        Individual                                    0            0
## 3312        Individual                                    0            0
## 3317        Individual                                    0            0
## 3333        Individual                                    0            0
## 3366        Individual                                    0            0
## 3383        Individual                                    0            0
## 3419        Individual                                    0            0
## 3421        Individual                                    0            0
## 3422        Individual                                    0            0
## 3429        Individual                                    0            0
## 3433        Individual                                    0            0
## 3449        Individual                                    0          140
## 3458        Individual                                    0            0
## 3467        Individual                                    0            0
## 3471        Individual                                    0          166
## 3480        Individual                                    0            0
## 3482        Individual                                    0            0
## 3502        Individual                                    0            0
## 3504        Individual                                    0            0
## 3507        Individual                                    0            0
## 3536        Individual                                    0            0
## 3538        Individual                                    0            0
## 3542        Individual                                    0            0
## 3547        Individual                                    0            0
## 3553        Individual                                    0         6208
## 3567        Individual                                    0            0
## 3590        Individual                                    0            0
## 3607        Individual                                    0            0
## 3623        Individual                                    0            0
## 3635        Individual                                    0           61
## 3655        Individual                                    0          189
## 3684        Individual                                    0          457
## 3687        Individual                                    0          860
## 3688        Individual                                    0            0
## 3699        Individual                                    0          290
## 3701        Individual                                    0            0
## 3712        Individual                                    0            0
## 3730        Individual                                    0            0
## 3749        Individual                                    0            0
## 3756        Individual                                    0            0
## 3758        Individual                                    0            0
## 3771        Individual                                    0            0
## 3785        Individual                                    0         3714
## 3788        Individual                                    0            0
## 3852        Individual                                    0         5649
## 3857        Individual                                    0          232
## 3865        Individual                                    0         1450
## 3889        Individual                                    0            0
## 3892        Individual                                    0           94
## 3901        Individual                                    0            0
## 3917        Individual                                    0          229
## 3924        Individual                                    0            0
## 3938        Individual                                    0            0
```

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## 3947        Individual                                    0            0
## 3949        Individual                                    0            0
## 3959        Individual                                    0          788
## 3977        Individual                                    0            0
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## 4016        Individual                                    0            0
## 4017        Individual                                    0            0
## 4021        Individual                                    0            0
## 4022        Individual                                    0            0
## 4026        Individual                                    0            0
## 4036        Individual                                    0            0
## 4049        Individual                                    0            0
## 4054        Individual                                    0            0
## 4093        Individual                                    0            0
## 4099        Individual                                    0            0
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## 4107        Individual                                    0          191
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## 4133        Individual                                    0            0
## 4135        Individual                                    0           86
## 4151        Individual                                    0         1610
## 4153        Individual                                    0            0
## 4157        Individual                                    0            0
## 4233        Individual                                    0            0
## 4237        Individual                                    0            0
## 4254        Individual                                    0            0
## 4258        Individual                                    0            0
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## 4265        Individual                                    0            0
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## 4307        Individual                                    0            0
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## 4448        Individual                                    0            0
## 4466        Individual                                    0            0
## 4476        Individual                                    0            0
## 4477        Individual                                    0            0
## 4498        Individual                                    0            0
## 4501        Individual                                    0            0
## 4506        Individual                                    0            0
## 4517        Individual                                    0           83
## 4524        Individual                                    0            0
## 4532        Individual                                    0         2192
## 4539        Individual                                    0            0
## 4552        Individual                                    0            0
## 4565        Individual                                    0            0
## 4580        Individual                                    0          502
## 4584        Individual                                    0            0
## 4586        Individual                                    0          422
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## 4632        Individual                                    0            0
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## 4688        Individual                                    0            0
## 4692        Individual                                    0            0
## 4712        Individual                                    0         1284
## 4743        Individual                                    0            0
## 4758        Individual                                    0            0
## 4769        Individual                                    0            0
## 4774        Individual                                    0            0
## 4775        Individual                                    0            0
## 4786        Individual                                    0            0
## 4791        Individual                                    0            0
## 4792        Individual                                    0            0
## 4797        Individual                                    0            0
## 4801        Individual                                    0            0
## 4816        Individual                                    0            0
## 4818        Individual                                    0         6583
## 4832        Individual                                    0            0
## 4834        Individual                                    0            0
## 4880        Individual                                    0            0
## 4921        Individual                                    0            0
## 4922        Individual                                    0          273
## 4934        Individual                                    0          214
## 4951        Individual                                    0            0
## 4958        Individual                                    0         1418
## 4985        Individual                                    0          208
## 5010        Individual                                    0          671
## 5021        Individual                                    0            0
## 5035        Individual                                    0          161
## 5036        Individual                                    0            0
## 5038        Individual                                    0            0
## 5059        Individual                                    0            0
## 5060        Individual                                    0         2737
## 5070        Individual                                    0            0
## 5103        Individual                                    0         3313
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## 5134        Individual                                    0            0
## 5136        Individual                                    0           70
## 5155        Individual                                    0          411
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## 5169        Individual                                    0            0
## 5177        Individual                                    0            0
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## 5220        Individual                                    0            0
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## 5390        Individual                                    0            0
## 5406        Individual                                    0            0
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## 5623        Individual                                    0            0
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## 5760        Individual                                    0            0
## 5784        Individual                                    0            0
## 5786        Individual                                    0          440
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## 5809        Individual                                    0            0
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## 5860        Individual                                    0            0
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## 5876        Individual                                    0         1501
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## 5948        Individual                                    0            0
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## 5974        Individual                                    0            0
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## 6083        Individual                                    0            0
## 6097        Individual                                    0            0
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## 6165        Individual                                    0            0
## 6174        Individual                                    0            0
## 6183        Individual                                    0            0
## 6196        Individual                                    0            0
## 6203        Individual                                    0            0
## 6204        Individual                                    0            0
## 6207        Individual                                    0            0
## 6209        Individual                                    0            0
## 6237        Individual                                    0            0
## 6247        Individual                                    0            0
## 6250        Individual                                    0            0
## 6253        Individual                                    0            0
## 6289        Individual                                    0            0
## 6294        Individual                                    0            0
## 6298        Individual                                    0            0
## 6307        Individual                                    0            0
## 6316        Individual                                    0            0
## 6333        Individual                                    0            0
## 6352        Individual                                    0            0
## 6367        Individual                                    0            0
```

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## 6388        Individual                                    0         2911
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## 6402        Individual                                    0            0
## 6407        Individual                                    0            0
## 6410        Individual                                    0            0
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## 6422        Individual                                    0          171
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## 6470        Individual                                    0            0
## 6477        Individual                                    0          213
## 6490        Individual                                    0            0
## 6504        Individual                                    0            0
## 6505        Individual                                    0         2638
## 6530        Individual                                    0         1352
## 6533        Individual                                    0            0
## 6560        Individual                                    0            0
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## 6585        Individual                                    0          988
## 6599        Individual                                    0          847
## 6612        Individual                                    0           96
## 6617        Individual                                    0            0
## 6628        Individual                                    0            0
## 6642        Individual                                    0            0
## 6651        Individual                                    0            0
## 6653        Individual                                    0            0
## 6660        Individual                                    0            0
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## 6675        Individual                                    0            0
## 6680        Individual                                    0            0
## 6696        Individual                                    0            0
## 6712        Individual                                    0            0
## 6736        Individual                                    0            0
## 6750        Individual                                    0            0
## 6782        Individual                                    0            0
## 6784        Individual                                    0            0
## 6793        Individual                                    0            0
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## 6833        Individual                                    0            0
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## 6855        Individual                                    0            0
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## 6884        Individual                                    0            0
## 6906        Individual                                    0            0
## 6922        Individual                                    0            0
## 6936        Individual                                    0          459
## 6950        Individual                                    0            0
## 6964        Individual                                    0            0
## 6984        Individual                                    0            0
## 6985        Individual                                    0          219
## 6993        Individual                                    0            0
## 7000        Individual                                    0         4760
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## 7027        Individual                                    0            0
## 7034        Individual                                    0            0
## 7038        Individual                                    0            0
## 7039        Individual                                    0            0
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## 7068        Individual                                    0           72
## 7081        Individual                                    0            0
## 7095        Individual                                    0            0
## 7096        Individual                                    0         1418
## 7099        Individual                                    0            0
## 7111        Individual                                    0          429
## 7115        Individual                                    0          320
## 7132        Individual                                    0            0
## 7133        Individual                                    0            0
## 7147        Individual                                    0            0
## 7158        Individual                                    0            0
## 7167        Individual                                    0            0
## 7168        Individual                                    0            0
## 7169        Individual                                    0         1110
## 7188        Individual                                    0            0
## 7193        Individual                                    0            0
## 7232        Individual                                    0            0
## 7237        Individual                                    0            0
## 7249        Individual                                    0            0
## 7255        Individual                                    0            0
## 7262        Individual                                    0            0
## 7279        Individual                                    0            0
## 7302        Individual                                    0         4967
## 7310        Individual                                    0            0
## 7323        Individual                                    0            0
## 7344        Individual                                    0            0
## 7353        Individual                                    0            0
## 7355        Individual                                    0          193
## 7426        Individual                                    0            0
## 7445        Individual                                    0            0
## 7446        Individual                                    0            0
## 7460        Individual                                    0            0
## 7465        Individual                                    0            0
## 7474        Individual                                    0            0
## 7479        Individual                                    0          117
## 7485        Individual                                    0            0
```

```
## 7530        Individual                                    0            0
## 7533        Individual                                    0            0
## 7538        Individual                                    0            0
## 7555        Individual                                    0            0
## 7562        Individual                                    0            0
## 7564        Individual                                    0            0
## 7579        Individual                                    0            0
## 7591        Individual                                    0            0
## 7594        Individual                                    0            0
## 7612        Individual                                    0          494
## 7619        Individual                                    0            0
## 7621        Individual                                    0            0
## 7704        Individual                                    0            0
## 7715        Individual                                    0            0
## 7737        Individual                                    0            0
## 7777        Individual                                    0            0
## 7792        Individual                                    0            0
## 7794        Individual                                    0            0
## 7824        Individual                                    0            0
## 7828        Individual                                    0            0
## 7833        Individual                                    0            0
## 7838        Individual                                    0            0
## 7840        Individual                                    0            0
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## 7893        Individual                                    0            0
## 7900        Individual                                    0            0
## 7910        Individual                                    0            0
## 7925        Individual                                    0            0
## 7945        Individual                                    0            0
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## 7980        Individual                                    0            0
## 7985        Individual                                    0            0
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## 8009        Individual                                    0            0
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## 8046        Individual                                    0            0
## 8047        Individual                                    0            0
## 8080        Individual                                    0            0
## 8086        Individual                                    0            0
## 8111        Individual                                    0            0
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## 8140        Individual                                    0         3376
## 8148        Individual                                    0            0
## 8154        Individual                                    0            0
## 8174        Individual                                    0            0
## 8192        Individual                                    0            0
## 8261        Individual                                    0            0
## 8269        Individual                                    0            0
## 8275        Individual                                    0            0
## 8287        Individual                                    0            0
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## 8304        Individual                                    0         1081
## 8339        Individual                                    0            0
## 8352        Individual                                    0           69
## 8370        Individual                                    0          378
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## 8440        Individual                                    0            0
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## 8455        Individual                                    0            0
## 8457        Individual                                    0            0
## 8460        Individual                                    0            0
## 8466        Individual                                    0            0
## 8478        Individual                                    0            0
## 8485        Individual                                    0            0
## 8494        Individual                                    0            0
## 8495        Individual                                    0            0
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## 8520        Individual                                    0            0
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## 8548        Individual                                    0         1048
## 8562        Individual                                    0            0
## 8577        Individual                                    0         5717
## 8582        Individual                                    0          200
## 8584        Individual                                    0            0
## 8593        Individual                                    0            0
## 8597        Individual                                    0            0
## 8601        Individual                                    0            0
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## 8645        Individual                                    0            0
## 8659        Individual                                    0         4676
## 8679        Individual                                    0            0
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## 8691        Individual                                    0            0
## 8695        Individual                                    0            0
## 8698        Individual                                    0           96
## 8725        Individual                                    0          526
## 8730        Individual                                    0            0
## 8733        Individual                                    0            0
## 8734        Individual                                    0          427
## 8748        Individual                                    0            0
## 8755        Individual                                    0            0
```

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## 8774        Individual                    0          224
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## 9585        Individual                    0         2647
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## 9661        Individual                    0            0
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## 9726        Individual                    0            0
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## 9806        Individual                    0            0
## 9809        Individual                    0            0
## 9824        Individual                    0            0
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## 9997        Individual                    0            0
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## 10011       Individual                    0         1440
## 10047       Individual                    0         5064
## 10050       Individual                    0          192
## 10093       Individual                    0          129
## 10104       Individual                    0            0
## 10111       Individual                    0         1720
```

```
## 10131       Individual                                        0          270
## 10137       Individual                                        0            0
## 10144       Individual                                        0            0
## 10169       Individual                                        0            0
## 10172       Individual                                        0            0
## 10176       Individual                                        0            0
## 10184       Individual                                        0            0
## 10202       Individual                                        0            0
## 10209       Individual                                        0            0
## 10215       Individual                                        0            0
## 10242       Individual                                        0          129
## 10248       Individual                                        0            0
## 10267       Individual                                        0            0
## 10275       Individual                                        0            0
## 10276       Individual                                        0            0
##       tot_cur_bal open_acc_6m open_act_il open_il_12m open_il_24m
## 35          51753           2          14           2           4
## 54         100727           0           3           0           2
## 59         141732           3          16           4           4
## 60         266450           3           1           2           2
## 71          20554           0           1           1           2
## 73         164571           0           1           0           1
## 74          37580           0           6           0           0
## 90          56286           2           3           1           4
## 101        398916           0           3           0           1
## 124        278686           2           3           1           1
## 137         18587           1           1           0           2
## 142        142322           1           5           1           3
## 143        738104           1           3           1           4
## 160         27243           4           2           0           0
## 161         12524           0           2           1           1
## 165         56808           3           2           1           2
## 174          8383           2           2           0           6
## 192        389268           0           3           0           2
## 193        154318           2           5           2           6
## 206        107242           1           7           3           4
## 212          5097           2           1           1           2
## 218         35201           1           2           1           2
## 229        299388           4           6           4           5
## 232        201723           6           2           0           2
## 234         15821           1           1           1           2
## 236          6570           4           1           4           5
## 246         37708           2           1           0           0
## 247          3863           0           1           0           1
## 262        129968           4           3           2           3
## 285         10481           1           1           0           2
## 296         19110           3           1           1           2
## 302         46508           3           3           3           4
## 304         35566           1           2           1           3
## 324         96207           0          11           3           3
## 326         23804           2           2           1           1
## 328        381569           1           2           1           2
## 329         23289           2           2           3           5
## 330        110626           0           2           0           1
## 338          9574           2           3           0           0
## 353         35913           3           4           2           4
## 357         32995           0           4           1           2
## 361         87111           0           4           1           2
## 370         44970           1           2           1           1
## 377        241739           0           2           0           1
## 382        459376           4          18           4           5
## 410         38580           0           3           0           3
## 428         19052           0           1           0           2
## 450        169267           0           3           1           2
## 465         19948           0           2           0           1
## 466        117463           0           3           1           2
## 471        289280           2          13           0           0
## 479         95198           0           2           0           2
## 485          6189           2           1           0           1
## 491         36333           0           2           2           3
## 496         22244           1           2           2           4
## 497        469659           0           3           0           2
## 499        119884           0           6           0           1
## 548         12667           1           1           1           1
## 558         23312           1           4           0           1
## 570        126223           3           3           0           0
## 577         87676           1           1           0           1
## 579          3145           0           1           0           1
## 608         15081           1           1           2           8
## 626        240626           1           9           2           2
## 634         68963           2           3           1           2
## 636         33099           0           2           0           1
## 641        227525           1           2           0           2
## 658         15219           1           1           1           4
## 660        686734           0           2           0           0
## 670         69595           1          14           0           1
## 674        265919           3           1           1           2
## 689         73535           0           7           0           1
## 696        110713           0           2           0           0
## 705          9577           1           1           0           0
## 713        218880           0           2           0           2
## 752        107296           0           6           0           0
## 790        389858           0           3           1           4
## 799         60321           1          15           1           3
## 819        266611           0           2           0           1
## 840         83873           3           4           4           4
## 844         21154           1           1           0           0
## 845        246986           1           2           0           1
```

```
## 855        240102          1          2          2          2
## 866        527779          0          1          0          1
## 869         52897          2          5          3          5
## 899        226825          3          4          1          5
## 904         14363          1          1          2          3
## 917        108701          1          3          1          3
## 940        373495          0          2          1          2
## 957        157709          0          3          0          1
## 960         21659          0          7          0          3
## 993        466350          1          7          0          0
## 998         36065          2          5          0          0
## 1025       270342          0         12          1          2
## 1056       182787          5          1          2          4
## 1063        33567          7          2          1          2
## 1083       312754          1          3          2          3
## 1105       609046          0          2          0          0
## 1117       116174          1          1          2          5
## 1118         5077          0          2          1          2
## 1146        84810          0          2          1          3
## 1170       106448          0          3          2          2
## 1227       114675          1          2          2          2
## 1263       162173          4          1          2          2
## 1264       257357          2          1          1          1
## 1273        38080          1          3          1          1
## 1285       258485          1          3          2          4
## 1319        77808          1          1          1          2
## 1337       166451          3          2          3          3
## 1349       277702          5          9          1          1
## 1351        89681          1          3          1          5
## 1356        12697          1          1          1          2
## 1386        96098          2          5          2          3
## 1388        31327          0          3          0          2
## 1390       308143          1          3          1          2
## 1410       417588          1          3          2          2
## 1416       410830          3          2          2          2
## 1434        10541          0          2          0          2
## 1439        10059          1          1          0          0
## 1449       120780          4          6          3          5
## 1459       317824          2          2          1          2
## 1462       166409          1          3          1          3
## 1480        12300          0          3          0          1
## 1484        25308          1          4          0          0
## 1487        57728          1          4          2          3
## 1527        19900          2          1          0          0
## 1529         9665          1          1          0          1
## 1530         6713          2          1          0          1
## 1545        15025          2          1          3          4
## 1567        39454          3          2          0          3
## 1597       415778          2          1          1          1
## 1601        26819          3          1          2          3
## 1623        37077          0          2          0          0
## 1633       210120          0          4          1          3
## 1636        94462          0          4          1          1
## 1640       153973          1          4          4          7
## 1645       136681          1          3          3          3
## 1650       133068          2          2          0          0
## 1671       219657          1          1          1          1
## 1672       123987          0          1          0          1
## 1696       181465          0          1          0          0
## 1704        33990          0          2          1          2
## 1721       174966          0          4          0          2
## 1724       218282          1          3          3          6
## 1728        45298          4          2          0          2
## 1730       444548          0          1          0          0
## 1734       713851          0          7          1          2
## 1752        24839          0          6          0          1
## 1771        49094          0          5          1          2
## 1816        92386          3          6          0          3
## 1846       192516          1          1          0          1
## 1850       178703          0          6          2          4
## 1853       344600          1          2          2          3
## 1856       160415          2          2          1          3
## 1857       345050          0          2          1          1
## 1862        83783          0          1          1          2
## 1865        82027          1          3          2          2
## 1866       247415          1          2          1          3
## 1867       717009          0          2          0          2
## 1896       171765          1          4          2          4
## 1905        89501          1          3          1          3
## 1907        42778          1          3          1          4
## 1922        67882          1          3          1          3
## 1930        33421          3          2          3          4
## 1933       261416          0          1          0          1
## 1952       153043          1          1          1          1
## 1956        19550          1          1          0          0
## 1961       267263          1          2          1          2
## 1963        45171          5          3          4          6
## 2004       217211          2          1          1          2
## 2012       167039          0          2          1          2
## 2017        27204          0          2          0          2
## 2019       293238          0          2          0          3
## 2026        20538          3          2          2          2
## 2027       318239          0          3          0          1
## 2039       351114          0          2          1          1
## 2041       150724          2          3          1          3
## 2051       119134          2          1          1          1
## 2060       278179          1          2          2          4
## 2065        26625          0          1          0          1
```

```
## 2073      200248          1          2          2          5
## 2105      218398          2          3          3          4
## 2117      131294          1          2          1          2
## 2128      141773          1          1          0          1
## 2129       94861          3          3          0          2
## 2136        9232          3          1          2          2
## 2137      166257          2          3          1          2
## 2148      155096          2          4          3          6
## 2155      266332          0          1          1          1
## 2168      195955          1          3          0          1
## 2197      268307          0          2          0          2
## 2215      254558          0          3          0          1
## 2224       75477          1          1          0          0
## 2234      120183          2          3          5          9
## 2255      295961          1          5          0          1
## 2258       57061          0          3          1          2
## 2286       60109          0          5          0          0
## 2296       75102          2         12          2          5
## 2329       22505          2          5          1          1
## 2342       36494          1          4          2          3
## 2347      347219          1          3          1          1
## 2357      392643          2          4          1          3
## 2377       73906          0          5          0          2
## 2393      489313          2          9          3          4
## 2396      210328          2          2          2          2
## 2399       26266          2          9          2          2
## 2405      169664          1          4          2          3
## 2420       13067          2          1          0          0
## 2425      119529          0          1          0          1
## 2429       45834          2          8          1          2
## 2439       24515          0          3          0          1
## 2447       68987          0          3          3          5
## 2449       38199          0          2          0          2
## 2457      186569          1          1          0          1
## 2478       21882          1          1          0          1
## 2480      283914          0          3          0          2
## 2492       70062          4          2          0          2
## 2494      248336          1          3          1          1
## 2504      334360          0          2          0          1
## 2510       83380          2          3          2          5
## 2514        2832          0          1          1          2
## 2516      168864          0         15          0          0
## 2522       46026          2          2          1          2
## 2529       32003          2          3          1          2
## 2535        5274          2          1          2          2
## 2545      178595          2          2          0          2
## 2549      129042          2         15          1          1
## 2593      448423          0          2          0          0
## 2598      140381          4          2          2          2
## 2604      555891          5          3          0          2
## 2628      396845          0          2          0          0
## 2631      115154          2          3          1          5
## 2661      281026          4          3          5          7
## 2673       38087          0          2          0          1
## 2692       34507          0          3          2          4
## 2707      121505          0          1          1          1
## 2714      414723          0          3          0          0
## 2715      323902          1          7          1          5
## 2761      135194          0          2          0          2
## 2772      136499          0          3          1          2
## 2788      307723          6          6          3          6
## 2789      262036          0         12          2          4
## 2820      413724          0          3          1          3
## 2840      283784          5          3          3          5
## 2856      456518          2          2          1          9
## 2858       62489          4          2          1          2
## 2861       83270          1          3          0          1
## 2872       47442          0          9          2          3
## 2877      596141          2          3          2          3
## 2878       83225          1          3          0          1
## 2879       42699          1          6          1          1
## 2893       54309          3          3          1          3
## 2913       10094          0          2          1          2
## 2915      337967          0          1          0          1
## 2918      115265          3          2          0          2
## 2940      145120          3          2          0          1
## 2942      372121          0          3          0          2
## 2954      184524          0          3          2          3
## 2976       60135          0         10          1          1
## 2977      188660          3          1          2          2
## 2978      249050          2          2          1          2
## 2982       73590          2          4          1          2
## 3002      101826          3          4          4         10
## 3012      105724          2          2          1          2
## 3017       52451          1          2          1          2
## 3018       63258          2          7          1          1
## 3021       87608          2          3          2          3
## 3034      109369          0          2          1          2
## 3045      528568          0          3          1          1
## 3050       40182          2          1          0          2
## 3057       46787          0          1          0          1
## 3071      472785          0          7          0          0
## 3104       21064          0          1          0          0
## 3112       29259          0          1          0          0
## 3124      350750          3          3          1          4
## 3150     1052689          1          1          1          1
## 3160      384691          4          2          5          8
## 3165      252899          1          1          0          1
```

```
## 3172      200244          3          3          2          4
## 3177      207330          0          2          0          1
## 3213        7494          0          1          1          1
## 3222       37415          0          3          1          3
## 3237      176062          1         14          0          1
## 3252       19097          1          1          1          1
## 3257       42930          0          3          2          2
## 3258       28054          0          2          1          5
## 3265      273071          0          3          0          0
## 3276      747833          2          2          4          5
## 3289      142046          2          5          3          5
## 3307      340869          3          6          2          6
## 3312      320726          1          1          0          0
## 3317      287634          0          2          1          2
## 3333      205767          0          2          0          3
## 3366      542972          1          4          1          2
## 3383      500145          1          3          1          2
## 3419      400833          0          3          2          4
## 3421      171955          2          3          2          3
## 3422      255563          0          3          0          1
## 3429      705907          3          3          3          4
## 3433      255600          2          2          1          2
## 3449       90997          1          2          1          1
## 3458       14842          0          3          0          0
## 3467       25524          4          2          2          3
## 3471       83797          0          7          1          5
## 3480      352063          2          4          2          3
## 3482       55561          2          2          1          1
## 3502       52301          1          2          2          2
## 3504       18650          1          1          3          3
## 3507       99562          0         10          1          2
## 3536      296907          1          5          0          2
## 3538       60833          1          4          1          2
## 3542      176994          2          2          2          4
## 3547       42075          2          2          1          1
## 3553      412623          1          3          2          3
## 3567      119142          0          4          3          4
## 3590      242275          3          4          1          1
## 3607      211499          3          2          1          2
## 3623      227797          5          1          3          4
## 3635       96458          0          3          1          2
## 3655      246469          0          2          0          2
## 3684        7362          0          2          1          4
## 3687      107216          0          4          1          5
## 3688      405632          2          1          0          2
## 3699      287224          1          1          1          2
## 3701       29738          1          1          1          1
## 3712      185611          2          1          1          2
## 3730      314323          2          1          0          3
## 3749      713572          2          3          4          4
## 3756      265726          1          2          2          2
## 3758      219988          2          3          1          2
## 3771        7422          1          1          0          0
## 3785       12864          0          1          1          2
## 3788       19072          0          1          0          0
## 3852      223197          3          2          2          2
## 3857       21022          1          1          1          3
## 3865      242069          2          2          0          1
## 3889      381634          1          1          2          4
## 3892      136755          2          2          0          0
## 3901      120166          1          2          1          3
## 3917       20163          1          1          1          1
## 3924       91259          0          3          0          1
## 3938      129892          4          3          2          4
## 3947      207042          0          4          1          1
## 3949        9130          0          1          0          0
## 3959       14503          2          5          0          0
## 3977      201989          0          2          0          2
## 3990      166902          2          9          0          1
## 4001       16344          1          1          1          1
## 4003      537731          2          2          1          2
## 4016      285669          3          3          2          2
## 4017      257267          2          2          1          1
## 4021      416420          0          7          0          3
## 4022       47570          1          7          2          7
## 4026      509736          2          5          2          3
## 4036       28699          0          3          0          1
## 4049      723613          0          8          1          6
## 4054      342265          2          2          1          1
## 4093       50118          1          3          0          1
## 4099      266350          1          1          1          1
## 4104      151460          1          1          1          1
## 4107       50509          1          3          2          3
## 4110       99785          2          2          1          2
## 4122      266980          0          3          0          1
## 4128      456260          1          4          3          5
## 4131      121868          0          2          0          0
## 4133       20738          0          1          1          1
## 4135       26638          2          1          2          4
## 4151      184063          3          4          0          1
## 4153      558105          1          3          1          2
## 4157      371669          2          3          1          2
## 4233      233985          0          1          0          2
## 4237       38610          1          5          1          3
## 4254      184764          0          1          0          0
## 4258       17407          0          2          1          1
## 4259      207805          1          3          2          4
## 4261      128638          0          5          0          2
```

```
## 4265      185506          3          3          6          8
## 4269      122226          2          2          0          0
## 4297      341173          2          2          1          2
## 4307       28091          2          2          1          2
## 4341       47493          1          2          4          8
## 4342       51459          0          4          1          2
## 4351        6286          1          1          1          1
## 4352      268175          0          2          0          2
## 4376      237745          2          2          1          1
## 4395       13482          1          2          0          0
## 4412      593514          2          2          1          2
## 4414      141782          1          2          2          3
## 4448      179654          0          1          0          0
## 4466       37553          1          2          2          2
## 4476       81193          0         11          1          1
## 4477      178919          0          1          2          4
## 4498      263415          0          7          5         10
## 4501       29981          1          1          1          2
## 4506      254122          2          3          1          2
## 4517      396027          2          4          3          4
## 4524       45384          1          4          2          2
## 4532       33674          2         12          1          7
## 4539      105932          2          2          0          2
## 4552      214226          1          2          0          2
## 4565        6286          0          2          0          1
## 4580       13744          0          4          0          0
## 4584      170783          1          3          1          1
## 4586      144435          1          1          0          1
## 4611      123679          0          2          0          1
## 4632      212643          2          1          2          4
## 4682      133293          1          2          4          6
## 4688      221767          3          3          2          3
## 4692       21675          2          3          1          1
## 4712       23482          0          2          2          2
## 4743       23869          0          2          1          2
## 4758       10491          1          1          1          1
## 4769       31970          0          2          1          4
## 4774      195443          2          3          3          3
## 4775      397704          0          5          2          3
## 4786      132196          0         11          1          3
## 4791      206996          1          7          1          3
## 4792       10512          0          1          0          0
## 4797      207792          3          2          3          5
## 4801       92764          1          2          1          2
## 4816      306777          1          2          2          4
## 4818       50939          4          2          3          3
## 4832       41748          2          1          1          2
## 4834      618889          0          8          3          6
## 4880      243482          0          2          0          1
## 4921       35119          1          1          1          1
## 4922      169674          2          3          1          2
## 4934       84017          0          1          0          2
## 4951        6507          0          2          0          1
## 4958       38434          1         11          1          1
## 4985       49637          3          2          2          2
## 5010       54008          1          1          0          2
## 5021       40408          3          3          0          1
## 5035       46188          2          1          1          1
## 5036      192797          1          1          0          0
## 5038       20530          1         10          2          2
## 5059       24045          1          1          1          1
## 5060      202171          1          1          0          3
## 5070      116989          2          2          1          1
## 5103      110836          3          1          2          2
## 5134      376087          3          2          3          4
## 5136      398111          1          2          1          1
## 5155      331856          3          5          2          3
## 5157      233807          3          7          5          7
## 5162       37773          3          2          2          4
## 5163      880761          0          3          2          5
## 5168       45256          0          4          3          5
## 5169       50943          1          5          2          2
## 5177       36277          0          5          0          1
## 5184      165083          3          2          0          1
## 5186      136082          1          3          1          1
## 5218      125676          0          2          0          1
## 5220      368593          2          3          1          3
## 5221      316461          2          4          1          7
## 5244        9477          2          2          2          2
## 5255       85804          0          2          0          0
## 5278       24910          0          1          1          1
## 5295       37358          3          1          1          4
## 5317      107036          2          3          2          2
## 5325       37685          0          2          0          1
## 5345       34305          0          0          1          2
## 5348      171818          2          1          1          1
## 5354       25125          2          2          2          3
## 5356       27518          3          1          0          1
## 5358      131376          2          4          1          4
## 5365      267148          1          3          1          4
## 5379       40474          0          9          0          1
## 5390      316412          3          1          1          3
## 5406      127150          4          2          4          5
## 5416      505268          0          6          1          2
## 5431       40737          0          7          2          3
## 5442       50259          1          4          2          2
## 5467      139205          0          3          1          1
## 5494      594538          1          1          0          2
```

```
## 5554       291765          0          2          0          0
## 5556        17906          1          1          0          1
## 5565         7015          3          1          1          1
## 5566       488620          0          3          0          2
## 5568        14217          2          3          0          0
## 5574        45904          1          2          1          1
## 5597       207842          1          2          2          2
## 5621       278430          2          3          2          4
## 5623        25079          1          3          1          4
## 5643        45160          3          2          3          3
## 5664       157195          0          2          0          0
## 5666        19842          4          1          0          1
## 5720        65067          1          5          1          1
## 5731        39265          1          2          0          0
## 5733        34456          0          3          0          3
## 5734         3452          0          1          0          1
## 5749        38775          1          2          1          1
## 5759       393780          0          6          1          2
## 5760       259081          3          4          3          4
## 5784        33947          0          7          0          1
## 5786       142400          1          1          0          0
## 5794       444898          1          5          1          4
## 5806        83791          2          5          2          6
## 5809       252322          1          1          0          0
## 5827        40574          0          1          0          1
## 5848       222654          0          1          0          1
## 5849       230218          1          5          1          2
## 5860       325314          2          1          1          4
## 5874        59889          0          2          1          2
## 5876         7712          5          1          0          1
## 5886       314981          0          1          0          0
## 5923        40533          1          2          0          1
## 5948       273162          3          2          1          2
## 5962       343171          1          4          1          2
## 5974        17196          0          1          1          1
## 6002       337359          3          2          3          7
## 6051       118837          0          1          0          0
## 6057       435542          3          1          1          5
## 6083        44492          0          4          0          3
## 6097       234460          0          2          1          2
## 6126        22982          0          0          1          1
## 6157       162871          0          1          0          2
## 6159       341629          0          5          1          2
## 6164       197251          3          4          4          7
## 6165        19726          1          1          1          1
## 6174        24480          0          3          0          0
## 6183       269013          3          2          1          3
## 6196       256586          5          2          1          1
## 6203        15785          0          1          0          0
## 6204        15639          1          1          1          2
## 6207        24512          0          2          0          1
## 6209        46592          0          3          1          4
## 6237       298521          1          3          2          2
## 6247        79250          0          1          1          1
## 6250       102838          2          4          3          4
## 6253        32336          1          3          0          1
## 6289        34741          0          0          0          2
## 6294       395471          0          1          0          0
## 6298       289545          2          2          0          2
## 6307       124801          4          2          4          5
## 6316       123116          3          2          1          1
## 6333        14725          0          1          0          1
## 6352       123836          1          2          0          0
## 6367       161928          1         10          1          1
## 6388       296630          2          3          1          3
## 6396        20564          0          2          1          1
## 6402       173630          3          2          0          3
## 6407       321121          1          3          1          2
## 6410        20561          1          1          0          2
## 6421       149873          3         22          2          5
## 6422        39697          0          3          4          5
## 6435       356210          2          5          2          4
## 6449        66599          0          8          4          7
## 6455       576318          5          2          4          7
## 6456        59252          1          4          1          2
## 6468       133529          2          3          3          3
## 6470       448338          1          1          0          0
## 6477        39539          0          2          1          2
## 6490        32755          4          4          4          6
## 6504        62979          0          1          0          2
## 6505       482071          3          4          0          2
## 6530        65896          1          3          0          0
## 6533       116548          1          3          2          5
## 6560       681121          0          2          1          1
## 6570       418024          1          9          0          3
## 6585        29877          0          1          1          3
## 6599        24782          2          3          2          3
## 6612        11697          0          1          1          1
## 6617        73755          1          3          1          1
## 6628        20121          2          1          0          2
## 6642        24611          1          1          1          1
## 6651       127870          6          5          3          7
## 6653       406012          0          5          1          1
## 6660       364610          2          4          0          0
## 6673       114836          1          3          1          2
## 6675        44120          0          3          1          2
## 6680       453082          0          2          0          0
## 6696       181466          2          0          2          3
```

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## 6712        79515          2          4          1          3
## 6736       106865          2          2          0          2
## 6750        67422          4          4          4          4
## 6782       121403          1          4          3          4
## 6784        81368          1          1          1          1
## 6793      1034761          0          1          1          2
## 6815       168128          0          1          0          1
## 6833         9707          1          1          1          2
## 6854       179053          0         18          0          0
## 6855       186357          2          3          2          3
## 6878       241967          3          1          3          3
## 6879       110834          0          3          0          1
## 6884        17026          1          1          0          1
## 6906        42117          2          5          0          1
## 6922        20601          0          1          0          1
## 6936       119628          0          2          2          2
## 6950      1482470          2          8          2          4
## 6964       204921          1         13          0          3
## 6984       230696          1          9          4          6
## 6985       205650          2          3          2          4
## 6993       464634          3          2          2          2
## 7000       501999          1          2          1          3
## 7021        21515          2          2          1          2
## 7027        10506          0          1          0          1
## 7034       323151          0          4          0          1
## 7038       334525          2          2          3          3
## 7039       194914          0          2          0          1
## 7043       416998          0          2          0          0
## 7068       165573          2          2          1          1
## 7081       110802          0         12          0          1
## 7095        23814          4          1          1          1
## 7096       359231          1          1          0          1
## 7099        40391          1          2          1          3
## 7111       226053          2          3          3          6
## 7115       246963          1          3          2          4
## 7132       331309          3          2          1          3
## 7133       238768          2          3          3          4
## 7147       289147          0          2          0          1
## 7158       107083          1          2          2          2
## 7167       491648          1          7          3          3
## 7168        22083          2          1          2          3
## 7169       324327          0          2          0          1
## 7188        16056          1          4          0          0
## 7193       430053          0          3          0          0
## 7232       272988          1          3          0          2
## 7237        97043          4         12          2          5
## 7249       357831          0          1          0          1
## 7255       133038          1          1          0          1
## 7262        47218          2          7          0          1
## 7279         9809          1          1          0          1
## 7302        60272          1          5          0          1
## 7310       491162          3          5          1          2
## 7323       782195          2          4          6          7
## 7344        30893          1          1          0          1
## 7353       131088          0          3          1          2
## 7355        38573          0          4          0          1
## 7426        49720          0          3          0          1
## 7445        88211          0          1          0          1
## 7446        10561          1          1          2          2
## 7460       436000          0          2          0          1
## 7465        47475          1          2          0          0
## 7474       171890          1          3          1          1
## 7479        71147          1          4          2          4
## 7485       157504          2         10          1          4
## 7530        56965          0          9          0          0
## 7533        40626          0          2          0          0
## 7538       222195          0          1          0          1
## 7555       325993          3          4          4          8
## 7562       232004          3          5          0          1
## 7564        13913          0          1          0          1
## 7579       473354          2          2          1          2
## 7591        24859          0          1          0          1
## 7594         4821          1          1          3          4
## 7612       139277          0          4          0          1
## 7619        73601          2          5          1          3
## 7621       200861          1          8          1          1
## 7704       113554          0          5          0          1
## 7715       267331          1          3          0          5
## 7737       271943          1          2          1          2
## 7777       291509          2          2          1          3
## 7792       321891          2          2          1          3
## 7794       217164          2          3          1          2
## 7824       629185          2         12          4          5
## 7828        68886          1          8          1          1
## 7833        33365          1          3          2          3
## 7838        42666          0          3          1          4
## 7840        10329          0          1          1          2
## 7882        57118          0         12          0          2
## 7893       233733          0          2          1          2
## 7900       138674          1          3          0          1
## 7910        90823          2          0          0          1
## 7925       206549          0          4          0          1
## 7945       102221          1          2          0          0
## 7963        18757          0          1          1          1
## 7972        25494          0          2          0          1
## 7980        27432          3          2          0          2
## 7985       100779          0         13          0          0
## 8006       282751          0          3          0          2
```

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## 8009      317208          5          2          1          3
## 8024       49714          3          2          2          2
## 8042       39125          0         10          2          3
## 8046       49635          1          2          1          2
## 8047      182836          3          2          0          0
## 8080      172677          1          8          1          5
## 8086      214842          0          3          0          1
## 8111      425209          2         12          3          4
## 8125       21088          0          1          1          1
## 8140      406585          3          6          0          2
## 8148      102328          0          5          0          3
## 8154      269175          1          2          1          2
## 8174      348416          3          1          0          0
## 8192        5159          2          1          0          0
## 8261      140728          0          1          0          1
## 8269       95907          3          4          2          2
## 8275      175141          2          8          1          2
## 8287      133072          0          3          3          6
## 8303      582397          2          0          2          3
## 8304      363749          2          3          1          2
## 8339      469512          1          6          4          6
## 8352      365841          2          4          2          5
## 8370       10969          0          1          0          1
## 8384       22131          0          2          0          3
## 8388      504522          1         21          1          3
## 8400      334150          3          1          1          2
## 8420       28712          0          1          0          1
## 8432       41740          1          3          1          2
## 8439       22112          1          3          0          2
## 8440       58056          1          5          0          0
## 8444       45549          1          2          3          6
## 8455      208216          0          3          1          2
## 8457       16527          1          2          1          1
## 8460       66408          1          9          1          2
## 8466      351585          2          2          1          1
## 8478      264474          0          2          0          2
## 8485      286465          2          1          0          2
## 8494      202889          3         11          1          1
## 8495      352402          1          3          2          6
## 8503      372528          7          3          1          2
## 8520       71446          0         11          2          3
## 8546      158328          1          1          0          0
## 8548       65438          3          3          1          2
## 8562       27564          2          2          1          2
## 8577       76458          4          2          2          6
## 8582      200868          1          4          1          3
## 8584      142973          1          3          1          1
## 8593       94984          0          1          0          0
## 8597      357671          0          6          0          3
## 8601       19305          0          1          2          2
## 8603       19063          1         11          2          6
## 8645      195723          0          2          0          0
## 8659      366503          1          4          0          1
## 8679      506463          2          3          1          3
## 8682      283811          1          4          1          3
## 8691      127322          0          3          0          1
## 8695       58869          3         11          3          6
## 8698       36543          0          3          0          3
## 8725      109366          1          1          0          1
## 8730      261480          2         13          1          2
## 8733      401232          0          4          1          2
## 8734       83971          0          3          0          0
## 8748       12341          0          0          1          1
## 8755       38124          2          2          0          1
## 8774       78222          0          7          0          1
## 8784       10878          2          0          1          3
## 8789      162826          0          3          0          1
## 8799       31953          3          4          4          5
## 8813       89831          2          4          1          2
## 8815      134739          3          2          1          1
## 8827      302101          0          2          0          4
## 8829      143121          0          4          1          2
## 8833       24829          1          2          1          1
## 8836      209002          0          2          0          1
## 8842      155766          4          3          1          1
## 8849      155494          0          1          0          3
## 8863      447531          1          2          2          3
## 8879      539671          2          3          0          2
## 8886      107637          0          1          0          0
## 8889      110275          3          1          0          0
## 8930       11435          1          1          0          0
## 8934      552373          0          2          1          2
## 8936      175974          0          2          0          1
## 8940       49324          1          3          1          2
## 8949       94104          0          2          0          2
## 8952      244114          2          3          1          1
## 8954      232950          0          5          2          4
## 8996      213393          2          3          1          2
## 9028      109883          0          1          0          1
## 9029       14880          0          1          0          2
## 9039       89359          0          5          1          6
## 9043       93587          1          4          0          3
## 9044      115650          2          7          4          9
## 9046      159446          1          5          1          1
## 9062      433936          3          4          3          3
## 9065      203707          5          4          4          6
## 9144       20135          2          2          3          3
## 9172      799988          5          3          2          2
```

```
## 9184        63359           1           4           2           2
## 9201       137656           3           3           0           1
## 9213        17450           0           1           0           1
## 9224       100634           1          11           2           2
## 9233        78604           2           2           2           6
## 9239       559956           1           2           0           0
## 9256       189522           3          15           3           6
## 9260         8574           0           1           1           1
## 9272       404749           1           4           5           7
## 9279       246089           2           2           0           0
## 9290        43318           0           2           0           0
## 9302        15753           1           3           1           3
## 9308       158685           1           2           2           3
## 9315       592211           1           1           0           0
## 9320        23150           0           3           2           2
## 9341       372071           5           1           2           3
## 9379        55252           0           3           1           3
## 9400        21940           2           2           0           0
## 9418       670290           0           2           1           3
## 9437       185821           4           1           3           6
## 9477        46460           0           3           1           1
## 9495        91416           0          13           0           2
## 9496       319173           1           6           2           3
## 9505       212044           0           4           0           2
## 9532       186025           2           3           3           7
## 9538         1535           0           1           1           2
## 9583        25432           4           1           1           2
## 9585       111999           1           2           0           1
## 9597        10128           0           1           0           1
## 9608       187931           3           2           1           2
## 9620        34023           0           1           0           0
## 9661       116274           0           3           2           2
## 9687       474365           3           2           1           2
## 9693       769286           2          11           6           9
## 9703       367695           0           4           0           1
## 9709        78735           1           2           0           1
## 9726         5744           0           1           0           0
## 9805        26963           1           2           0           1
## 9806       112703           1           1           0           0
## 9809        44081           3           2           1           2
## 9824       168875           0           1           0           1
## 9826       298816           2           3           1           2
## 9837        29719           1           2           0           1
## 9841        51643           1           2           2           4
## 9844       195908           1           2           0           0
## 9849       173525           1           3           0           2
## 9912       124431           1           3           2           4
## 9925       496683           1           3           0           1
## 9926       189243           2           4           1           1
## 9933        40624           1           2           1           2
## 9937        15376           4           2           1           2
## 9941        24529           0           1           0           2
## 9951       222798           2          12           4           4
## 9960       217814           2           3           2           4
## 9987       454751           2           7           2           4
## 9997       142290           1           1           1           1
## 10003      144630           0          11           1           1
## 10010      181990           0           4           2           3
## 10011      192201           0           4           2           4
## 10047       14359           2           1           0           0
## 10050      204005           2           3           1           2
## 10093       35876           7           3           2           4
## 10104      143494           3           2           2           5
## 10111      268885           1           2           0           2
## 10131      207537           4          18           1           2
## 10137       16170           1           1           2           2
## 10144      302768           2           2           2           2
## 10169      163265           0           4           2           6
## 10172        2774           4           1           1           3
## 10176      687777           2           3           2           4
## 10184      672813           0           3           2           5
## 10202      153157           0           2           1           1
## 10209       26377           2           2           1           2
## 10215      106494           1           1           1           3
## 10242       93442           0           2           1           1
## 10248       68038           1           3           4           8
## 10267      170421           1           6           0           0
## 10275      251146           0           2           0           1
## 10276       31533           3           4           4           5
##       mths_since_rcnt_il total_bal_il il_util open_rv_12m open_rv_24m
## 35                     2        37996      52           0           0
## 54                    19        37611      73           0           0
## 59                     2       121437     104           5           6
## 60                     6        10900      95           4           4
## 71                    11        15046      78           0           1
## 73                    15         3832      47           0           2
## 74                    46        30160     112           0           1
## 90                     5        50967      84           4          10
## 101                   19        43091      82           0           1
## 124                    2        55399     100           1           5
## 137                   18         9251      65           2           2
## 142                    5       140548      86           0           0
## 143                   11       105060      57           1           2
## 160                   49        14613      54           5           5
## 161                   12         5604      24           1           3
## 165                    4        42822     104           2           8
## 174                   17         7727      41           9          11
## 192                   17        36875      82           2           5
```

```
## 193          5    86144   69     1     2
## 206          2    95446   78     0     1
## 212          4     4761   95     1     4
## 218         10    34646   71     1     3
## 229          4   118362   76     1     4
## 232         15    33838   76     2     2
## 234          3    14940   83     4     6
## 236          3     6219   59     2     3
## 246         31     1430   11     5    11
## 247         24      699   50     0     0
## 262          1    40468  108     3     4
## 285         15    10191   64     2     4
## 296         12     7081   74     7     7
## 302          2    42990   93     1     1
## 304          3    21819   58     2     3
## 324          8    85941   89     2     2
## 326          6    12815   72     2     2
## 328          5    33280   84     0     0
## 329          1    20096   93     0     2
## 330         22    91989   44     1     4
## 338         45     2827   83     2     5
## 353          1    21592   59     2     7
## 357          7    26752   62     3     4
## 361         12    42828   69     1     2
## 370          9    33578   93     1     1
## 377         13    40304   70     1     2
## 382          2   302019  115     1     1
## 410         13    16782   70     1     2
## 428         15    10972   74     1     3
## 450          8    44431   57     0     1
## 465         16    17391   54     0     0
## 466          7   110623   82     0     3
## 471         35    47066   85     3     3
## 479         23    12232   63     0     3
## 485         17     2848   18     5     7
## 491          7     9533   39     0     0
## 496          1    19488   96     1     1
## 497         18    42148   46     0     6
## 499         17    23681   42     0     0
## 548         12    10986   79     1     1
## 558         22    21064   66     4     7
## 570         42   100551   53     6    12
## 577         13     3463   69     1     3
## 579         21      859   16     0     3
## 608          2    15012   98     1     5
## 626          5    38101  108     1     1
## 634          2    50762   73     1     2
## 636         18    13140   31     1     1
## 641         13    71873   70     3     6
## 658          4    13743   63     0     0
## 660         29    63253   19     0     0
## 670         16    52239   74     1     4
## 674          5    12216   93     1     2
## 689         21    44041   87     1     2
## 696        118      584    6     2     6
## 705         27     4083   28     3     4
## 713         16     5813   53     1     5
## 752         35   103503  111     0     1
## 790          8    32699   70     1     6
## 799          4    57988  106     0     2
## 819         17    34447   85     2     5
## 840          6    72279   89     3    10
## 844         25    15590   67     3     5
## 845         14    44142   50     1     6
## 855          3    14484   53     1     3
## 866         19    15006   75     0     0
## 869          5    51385   62     0     0
## 899          2    81363   88     2     8
## 904          4     9243   92     0     3
## 917          4    34760   79     0     0
## 940         12    54925    4     2     3
## 957         14    45730   71     0     1
## 960         13    12986   70     1     1
## 993         31   169878   66     1     2
## 998         28    17010   44     4     4
## 1025        12    52817   70     0     0
## 1056         3     2936   98     6     7
## 1063         7    32757   89    11    18
## 1083         3    71932   94     2     3
## 1105        38    30793   60     1     2
## 1117         1    22572  100     2     3
## 1118        10     2303   31     0     0
## 1146         9    31435   76     0     0
## 1170         8    46198   89     1     2
## 1227         5    26515   90     3     4
## 1263        11    12001   90     5     8
## 1264        11    22925   90     2     2
## 1273         1    23520  102     0     1
## 1285         7    30959   57     3     3
## 1319         8    12374   83     2     3
## 1337         4    23921   82     2     2
## 1349        11    37412   87     5     7
## 1351        10    77869   83     3     6
## 1356         8     5894   66     5     6
## 1386         4    28931   38     0     0
## 1388        14    27933   67     1     2
## 1390         8    85057   92     1     3
## 1410         6    66383   59     0     0
```

```
## 1416          3     62206    98     2     3
## 1434         15      7610    73     1     3
## 1439         41      6954    51     1     2
## 1449          3    114759    84     2     5
## 1459          9    312514    97     3     4
## 1462          7     24243    50     1     1
## 1480         20      4239    14     0     1
## 1484         27     19155    80     2     2
## 1487          5     39207    78     0     0
## 1527         39     13231    52     2    10
## 1529         18      7256    69     2     7
## 1530         13        94     9     2     3
## 1545          1     15000   100     1     4
## 1567         18     33296    69     3     3
## 1597          3      4885    98     1     1
## 1601          6      5852    77     3     5
## 1623         28     36323   111     0     0
## 1633          9     13597    60     0     0
## 1636          9     13272    45     0     0
## 1640          5     98523    88     0     0
## 1645          2     16791    92     0     1
## 1650         25     64589    53     3     4
## 1671         11      1874    75     2     3
## 1672         14     23361    81     2     5
## 1696         65      5699    34     1     2
## 1704          8     30359    71     0     2
## 1721         19     33045    53     0     0
## 1724          3     83198    93     0     0
## 1728         17     32166    82     4     9
## 1730         29      4254    20     1     1
## 1734         11    696689   101     0     1
## 1752         14     19963    36     1     2
## 1771          7     42066    96     0     0
## 1816         16     71507    70     4     6
## 1846         22     17506    79     1     8
## 1850          8     33617    92     0     1
## 1853          2    122869    90     1     1
## 1856         10     21540    69     4     8
## 1857         10    189926    30     0     2
## 1862         12      2594    74     1     1
## 1865          2     69374    95     0     1
## 1866          5     44079    12     1     1
## 1867         13     27546    61     0     0
## 1896          1     56839    89     0     2
## 1905          4     83886    83     0     0
## 1907          7     36869    85     3     3
## 1922          1     57201    76     0     0
## 1930          5     29286    98     3     6
## 1933         21      2999    42     0     3
## 1952         10      4043    25     2     4
## 1956         29     19058    75     1     2
## 1961          9     41311    70     2     2
## 1963          1     40397    69     5     7
## 2004          4      5998    97     0     2
## 2012          8     35424    77     0     1
## 2017         17     18711    77     0     0
## 2019         17     44986    50     0     0
## 2026          4     20421    89     1     1
## 2027         14     77999    46     0     3
## 2039         10     13341    48     1     3
## 2041          4    149185    87     1     2
## 2051          3     11140    93     2     7
## 2060          3     26240    86     0     2
## 2065         18     23212    70     1     3
## 2073          7     49772    94     1     2
## 2105          1     52138    95     0     3
## 2117         12     37923    87     1     3
## 2128         19      6947   104     3    16
## 2129         18     89426    76     4     4
## 2136         10      8017    87     3     8
## 2137          2     13993    65     2     5
## 2148          2    119788    90     0     0
## 2155          7     12166    94     0     1
## 2168         24     28975   113     1     2
## 2197         14     49885    89     0     1
## 2215         20     18476    35     1     1
## 2224         58      3916    26     2     2
## 2234          4     31945    84     1     1
## 2255         13     28462    59     3     4
## 2258          7     40935    79     0     2
## 2286         30     20581    85     1     2
## 2296          1     69279    90     1     2
## 2329          6     21027    98     1     3
## 2342          8     33165    76     1     3
## 2347          9     18726    61     1     5
## 2357          2     44347    72     0     0
## 2377         14     70652    73     0     1
## 2393          2     58154    88     2     3
## 2396          5     44478    94     1     1
## 2399          5     23810    67     3     6
## 2405          2     17140    41     2     3
## 2420         26     11801    62     2     3
## 2425         21     22818    77     0     2
## 2429         10     43628    80     2     3
## 2439         13     18604    58     2     4
## 2447          7     53034    88     3     4
## 2449         13      8796    88     0     0
## 2457         17     18571    76     1     3
```

```
## 2478          13      12433     69          1          4
## 2480          13      14189     41          1          4
## 2492          17      58024    119         12         17
## 2494           4      89004     47          1          2
## 2504          18      74644     58          0          3
## 2510           1      35969     81          1          5
## 2514           8        336      3          0          0
## 2516          90     156614    145          1          2
## 2522           9      26709     76          6          6
## 2529           4      26946     50          1          4
## 2535           5       1917     95          2          2
## 2545          18       8599     51          1          2
## 2549           8      62370    102          3          5
## 2593          33      13269     20          0          0
## 2598           1      37481     99          2          5
## 2604          13      97946     44         11         11
## 2628          28      36586     73          0          0
## 2631           6     110673     90          1          7
## 2661           1      87433     96          0          2
## 2673          21      21428     71          1          2
## 2692           8      26288     72          1          5
## 2707          10      17470     86          0          3
## 2714          29      31858     43          0          0
## 2715          10      52465     72          0          0
## 2761          15      63674     59          1          2
## 2772           8      18437     59          0          0
## 2788           4      56594     59          3          6
## 2789           7      78075     98          1          5
## 2820          10      74447     79          0          2
## 2840           4      49180     90          2          2
## 2856           6      56414     71          1          4
## 2858           2      51830     99          5          6
## 2861          17      29194     63          1          1
## 2872          11      39471     93          0          3
## 2877          11     115958     88          2          4
## 2878          24      13115     59          2          3
## 2879           5      21821     63          1          2
## 2893           5      44158     80          4          8
## 2913           9       6118     81          1          2
## 2915          20      19533     82          0          0
## 2918          15      64548     86          6          6
## 2940          13     117968     73          4          8
## 2942          13      54338     49          0          1
## 2954           7      44548     70          1          2
## 2976           7      54932     85          2          2
## 2977           4       2919     96          1          4
## 2978           7      57483     95          1          1
## 2982           2      50393     69          1          4
## 3002           2      93562     90          1          2
## 3012           7      12726     62          4          5
## 3017           4      47388     64          1          3
## 3018           3      39916     68          1          2
## 3021           3      24702     57          0          1
## 3034           9      54267     62          3          4
## 3045           9      65073     80          0          0
## 3050          14      28365     81          6          6
## 3057          13      27141     84          1          6
## 3071          25      60629    116          0          3
## 3104          30      13178     66          0          0
## 3112          35      18372     54          0          0
## 3124           6      56256     75          2          4
## 3150           5       3790     25          0          0
## 3160           4      26080     99          2          7
## 3165          24       3767     33          2          5
## 3172           1      57308     85          3          4
## 3177          19      10041     56          0          1
## 3213           8        603     12          2          2
## 3222          11      35978     89          0          3
## 3237          23     167971    109          1          1
## 3252          12      13569     91          1          1
## 3257           9      38196     70          2          7
## 3258           8      19048     88          1          3
## 3265          31      11463     32          0          2
## 3276           3      61288     92          0          1
## 3289           6      35742     59          1          3
## 3307           3     122517     92          3          5
## 3312          28      10548     73          1          5
## 3317           9      70298     86          2          5
## 3333          21      16153     48          1          4
## 3366           5      95082     63          0          3
## 3383           1      35652     75          0          0
## 3419           9      26977     82          1          1
## 3421           3      75222     72          3          5
## 3422          23      81547     45          0          0
## 3429           2      69479     94          2          5
## 3433           3      14292     38          1          2
## 3449           6      16926     52          0          1
## 3458          25       8914     22          1          3
## 3467           3      15330     93          4          6
## 3471          10      71078     96          1          6
## 3480           1      76486     82          2          2
## 3482           6      54818     45          2          2
## 3502           9      48535     74          1          2
## 3504           3      14744     98          0          0
## 3507           8      83003    104          3          4
## 3536          16      71393     69          1          1
## 3538          11      41784     94          1          3
## 3542           6      35249     94          2          2
```

```
## 3547          7     27654    70     2     2
## 3553          5    276928   103     0     0
## 3567          8    115302    88     0     3
## 3590         12     25026    51     7    10
## 3607          2     30730    79     2     2
## 3623          4     40090    18     4    10
## 3635         10     47673    98     0     2
## 3655         16     13466    48     1     2
## 3684         11      6856    55     1     4
## 3687         10     28805    80     0     1
## 3688         16      7926    79     0     3
## 3699          3      7017    74     0     2
## 3701          8     26323    88     1     2
## 3712          6      5331    89     2     2
## 3730         16     12278    75     1     3
## 3749          2     82351    93     1     2
## 3756         11     27920    73     3     6
## 3758          1     51687   104     2     2
## 3771         47      5065    42     1    10
## 3785         12      6609    66     1     4
## 3788         36      4306    45     2     3
## 3852          4     21356    91     5     5
## 3857          7     21022    83     1     3
## 3865         24     34733    46     4     6
## 3889          3      6230    98     0     0
## 3892         26    130178    60     5     9
## 3901          4     24909    83     1     1
## 3917          6     16878    94     0     2
## 3924         23     75941    74     2     4
## 3938          8     18016    73     5     7
## 3947         11     47497    70     0     0
## 3949         31      6344    48     1     3
## 3959         54     14052    70     3     3
## 3977         18    182891    72     0     0
## 3990         16    157996    56     2     2
## 4001         10     16054    75     3     3
## 4003          3     34401    85     2     2
## 4016          2    128568    96     2     2
## 4017          6     24203    71     1     1
## 4021         16    121505   114     0     1
## 4022          7     34015    69     1     2
## 4026          2     53701   103     1     1
## 4036         18     22850    49     0     2
## 4049          7    166880    72     3     7
## 4054         10     14940    37     2     3
## 4093         20     47201    61     2     4
## 4099          9      6760    72     3     3
## 4104          4     20494    95     0     0
## 4107          5     50028    94     0     0
## 4110         10     37855    88     2     4
## 4122         17     40029    74     0    10
## 4128          1     75440    90     3     7
## 4131         35     11036    44     0     0
## 4133         11      9233    77     0     0
## 4135          3     25060    99     0     1
## 4151         23     98964    74     3     3
## 4153          3      7939    45     0     1
## 4157         11     24086    70     5    10
## 4233         15     11976    53     0     1
## 4237          8     37326   108     2     3
## 4254         61       552     2     0     0
## 4258          7     16948    93     0     1
## 4259          2     18120    89     0     5
## 4261         18    110246    73     0     1
## 4265          2     47019    95     0     2
## 4269         32      2266    10     2     5
## 4297          2     30997    85     1     1
## 4307          3     26212    58     1     4
## 4341          5     38928    78     0     3
## 4342         12     39667    72     1     1
## 4351          8      3307    83     3     3
## 4352         14     22335    74     3     3
## 4376          2     22459    83     1     1
## 4395         30      4573    18     2     5
## 4412         12     38446    74     3     5
## 4414          8     33780    95     1     4
## 4448         33      8378    51     0     0
## 4466          5     19495    90     1     4
## 4476         12     66992    64     0     0
## 4477          7     10203    57     0     1
## 4498          7    134264    80     0     1
## 4501          4     10403    97     1     3
## 4506          7     24572    75     2     2
## 4517          6    190406    57     0     1
## 4524          6     41502    62     0     1
## 4532          5     32294   101     1     3
## 4539         21     11122    73     1     3
## 4552         13     35996    89     1     5
## 4565         13      5929    27     1     3
## 4580         33      9275    88     0     2
## 4584          5     36816    99     0     1
## 4586         14     12708    85     3     7
## 4611         19     35635    63     1     3
## 4632          3     13622    94     3     5
## 4682          4     37892    92     2     7
## 4688          5     48089    88     2     3
## 4692          5     15785    41     1     1
## 4712          9     20718    76     1     2
```

```
## 4743          11      19892     75        2        5
## 4758          11       9403     87        1        2
## 4769           9      10801     54        0        5
## 4774           4      30142     87        0        1
## 4775           7     115809     81        0        3
## 4786           8     132115    108        0        0
## 4791           2      99063    116        1        1
## 4792          35        495      6        1        2
## 4797           5      29001     77        3        3
## 4801           7      15704     72        3        4
## 4816          10      66439     73        1        1
## 4818           5      45224     37        6        7
## 4832           7      31356     93        3        8
## 4834           9      80767     74        0        2
## 4880          22      45222     45        0        3
## 4921           5      31074     97        0        0
## 4922           8      14164     47        3        3
## 4934          14      11294     87        0        0
## 4951          23       1969     39        3        3
## 4958          10      38337     96        1        1
## 4985           5      43884     93        4        4
## 5010          19       2379     49        2        4
## 5021          20      27939     81        3        5
## 5035          11       2046     81        2        2
## 5036          25      15521     79        1       11
## 5038           8      20522     83        2        4
## 5059           6      14652     81        1        3
## 5060          17       8165     78        1        1
## 5070           4     114683     38        6        7
## 5103           8      17692     92        3        5
## 5134           5      88105     98        1        2
## 5136           3      50025     25        0        0
## 5155           5     118938     78        2        3
## 5157           4      37691     93        3        7
## 5162           6      36589     88        4       14
## 5163           9      76124     90        2        2
## 5168           9      33866     83        7       18
## 5169           7      33500     61        3        7
## 5177          15      30750     37        0        0
## 5184          14      46225     71        6       21
## 5186           3     131495     74        0        2
## 5218          15       8170     57        0        4
## 5220           3      16358     74        1        3
## 5221           4      57087    103        1        2
## 5244           2       5851     83        1        3
## 5255          33      62219     55        1        5
## 5278          10      15698     93        0        1
## 5295           8      28835     91        4       10
## 5317           3       8118     72        1        1
## 5325          20      25970     83        2        7
## 5345           8      27963     94        0        2
## 5348           3      31712     79        1        1
## 5354           5      24467     86        1        3
## 5356          21      17571     71        4        5
## 5358          10      40485     50        2        5
## 5365           4      35409     77        0        5
## 5379          22      31506     78        0        8
## 5390           9      10239     83        4        5
## 5406           1      22962     72        2        2
## 5416          12     106167     71        0        2
## 5431           9      40306     73        1        1
## 5442           2      19564     73        0        0
## 5467          11      39993     75        2        2
## 5494          16      24283     78        2        3
## 5554          31     114319    103        0        0
## 5556          21      10186     65        1        4
## 5565          10       2077     69        3        4
## 5566          20      59208     73        3        4
## 5568         114      11582    122        2        2
## 5574           1      39109     73        0        0
## 5597           3      43485     71        0        1
## 5621           2      58168     91        3        5
## 5623           6       9331     56        1        1
## 5643           2      28752     85        3       10
## 5664          26       4049     21        0        1
## 5666          24      11335     81        4        8
## 5720           6      64268     84        1        2
## 5731          32      18837    100        1        1
## 5733          15      19066     56        5       11
## 5734          22       1164     47        0        0
## 5749           4      34326     75        0        1
## 5759          10      96465     95        1        3
## 5760           6      21666     69        3        4
## 5784          13      31525     79        0        0
## 5786          34      23978    102        2        2
## 5794           9     183693     37        3        7
## 5806           4      35131     67        3        7
## 5809          65       2503     15        1        5
## 5827          18       4298     50        0        5
## 5848          19      26844     80        0        3
## 5849           1      65919     69        0        1
## 5860           3       4622     26        1        1
## 5874           8      37784     86        1        1
## 5876          14       6906     86        7        9
## 5886          33       1013      8        3        4
## 5923          14      28896     69        2        5
## 5948          12      58558     53        3        7
## 5962           6      22975     33        2        3
```

```
## 5974          12       9028     79        0        1
## 6002           4      47756     96        2        4
## 6051          55       4224     71        0        2
## 6057           3       8110    100        1        4
## 6083          15      34975     63        0        1
## 6097          12      26279     77        2        4
## 6126          12      21834     97        4        4
## 6157          13      12376     52        0        2
## 6159          12      73767     80        1        4
## 6164           3      44201     96        0        0
## 6165           9      12096     75        3        5
## 6174          25      23527     67        0        1
## 6183           5      59934     61        1        1
## 6196           4       5163     73        2        3
## 6203          37       5325     46        2        2
## 6204           5       8754     58        0        0
## 6207          23      18739     62        0        2
## 6209           8      35831     81        0        1
## 6237           4      32590     60        0        1
## 6247          12       6231     89        0        2
## 6250           2      32745     72        1        4
## 6253          20       8149     21        3        5
## 6289          13      29056     76        2        5
## 6294          47       7263     37        0        1
## 6298          17      29614     75        2        3
## 6307           2      15037     91        1        1
## 6316           1      53008     30        5        6
## 6333          17       9035     80        0        0
## 6352          25      60441    127        5        6
## 6367           0      54536     98        0        1
## 6388           9      51362     89        4        8
## 6396          12      16579     46        0        0
## 6402          16      39053     86        3        4
## 6407           6      41895     75        0        1
## 6410          17        764     22        1        2
## 6421           6     145275    107        2        2
## 6422           9      38536     79        2        5
## 6435           5      85730     60        1        1
## 6449           7      65873     96        1        3
## 6455           1      54975     68        1        3
## 6456           5      52157     83        0        2
## 6468           3     112881     91        0        0
## 6470          37      11163     57        1        1
## 6477          11      34120     13        0        4
## 6490           2       5641     69        3        7
## 6504          23        585     29        0        1
## 6505          16     123543     73        1        3
## 6530          30      49660     57        1        4
## 6533           8     104690     73        4        7
## 6560          11      37402     61        2        2
## 6570          18     143055    101        3        3
## 6585           8      19425     86        2        5
## 6599           1      23662     87        2        4
## 6612          11       6913     72        0        0
## 6617           8      56580     66        1        3
## 6628          19       8740     53        2        5
## 6642           4      11063     89        0        0
## 6651           5     127221     97        6       11
## 6653           8      52557    102        0        1
## 6660          26      41611     55        3        3
## 6673          11      15272     54        4        6
## 6675          11      43657     73        1        3
## 6680          29       5954     16        0        0
## 6696           7      18131     98        2        2
## 6712           5      63974     70        2        3
## 6736          20      30677     74        2        3
## 6750           1      62836     98        4        5
## 6782           6      14929     36        1        2
## 6784           6       5843     93        2        2
## 6793          10      28871     60        1        1
## 6815          13       5424     68        0        3
## 6833           9       4468     80        1        2
## 6854          32     164428     77        0        1
## 6855           2     177323     81        1        3
## 6878           5      46880     94        3       11
## 6879          17     106431     67        1        1
## 6884          17       7024     70        1        2
## 6906          15      24015     78        2        3
## 6922          20       2416     48        0        3
## 6936           8      25660     62        0        0
## 6950           1     296279     48        0        0
## 6964          15     198223    116        1        3
## 6984           3      85733     82        0        0
## 6985           4     131789     93        2        4
## 6993          12      21408     88        3        8
## 7000          11     437639     90        1        1
## 7021          10       9351     55        5        8
## 7027          17       9591     59        0        1
## 7034          23      20373     35        0        0
## 7038           6      56974     76        1        1
## 7039          15       5399     13        0        3
## 7043          30      45491     21        0        0
## 7068           3      30321     78        2        5
## 7081          17      53242     73        0        2
## 7095           8      17236     91        6        6
## 7096          16      12286     85        1        1
## 7099          10      25382     84        3        3
## 7111           1      49150     87        1        2
```

```
## 7115          7     54809     83     1     2
## 7132          8     27953     84     4     5
## 7133          4     35134     92     1     4
## 7147         21     10805     39     0     3
## 7158          2     16568     93     0     0
## 7167          1     54476     61     0     0
## 7168          9      5975     76     3     6
## 7169         15     71390     83     1     1
## 7188         39     14225     71     1     2
## 7193         25     25650     60     0     2
## 7232         13    137294    138     1     4
## 7237          5     92140    115     3     4
## 7249         19     15374     58     0     1
## 7255         20      4934     65     1     4
## 7262         17     43564     91     2    11
## 7279         20      6338     71     2     3
## 7302         14     46492     54     1     2
## 7310          3    105673     66     3     7
## 7323          2     75717     87     0     2
## 7344         23     21066     76     3     5
## 7353         10    123407     63     1     2
## 7355         22     31002     81     0     2
## 7426         15     29692     61     0     2
## 7445         16      3809     64     1     3
## 7446          3      6723     67     0     0
## 7460         14     34106     57     0     1
## 7465         25     32087     68     1     2
## 7474          1     44817     60     0     0
## 7479          4     57245     88     0     1
## 7485         12    141552     61     3     6
## 7530         27     51690    103     3     4
## 7533         71     40600     93     1     1
## 7538         18     12716     52     0     2
## 7555          6     96195     80     2     5
## 7562         23     41355     69     3     3
## 7564         18     11659     62     0     0
## 7579         10     41568     69     1     2
## 7591         18     12475     78     2     4
## 7594          5      4821     67     2     2
## 7612         13     19675     29     0     3
## 7619         11     71481    109     4     7
## 7621          6    122036     53     0     0
## 7704         22     13643     37     1     3
## 7715         16     32280     42     1     2
## 7737          3     35493     56     0     4
## 7777          9     18821     69     3     4
## 7792          1     27116     78     1     6
## 7794          8     52065     35     1     1
## 7824          2    138915    108     1     2
## 7828          1     66776    118     0     1
## 7833          7     19395     70     3     5
## 7838         10     37649     78     0     0
## 7840          7      4474     90     1     7
## 7882         22     48358     95     0     1
## 7893          9     12061     75     0     1
## 7900         19     48765    108     3     3
## 7910         16     12839     67     2    11
## 7925         13     68798     81     0     0
## 7945         36     56706     70     1     2
## 7963         12     11779     79     2     5
## 7972         23     18579     77     1     3
## 7980         20      9071     68     4     8
## 7985         25     93483    105     0     0
## 8006         14     31236     58     0     4
## 8009          5     55601     73     3     4
## 8024          6     32518     90     3     5
## 8042          7     34230     90     0     0
## 8046          6     28929     90     0     0
## 8047         25     10242     40     2     2
## 8080          6     99415     72     0     0
## 8086         23    120309     81     0     0
## 8111          5     93812     46     0     0
## 8125          9     19110     72     0     7
## 8140         16    112960     63     6     6
## 8148         16     26009     58     0     1
## 8154         10     16709     87     3     6
## 8174         26     15500     55     5    13
## 8192         95      4440    127     6    13
## 8261         15     10324    122     0     1
## 8269          6     95858     97     1     2
## 8275          6     15380     54     0     1
## 8287          9     30350     90     1     3
## 8303          9     26944     95     1     1
## 8304         11     96378     94     2     2
## 8339          8    215856     75     2     3
## 8352          4     41899     94     6    11
## 8370         13      3437     73     1     3
## 8384         19     21872     79     0     0
## 8388          5     96319    101     0     2
## 8400          3     12770     97     2     4
## 8420         22     14049     67     0     1
## 8432          6     33622     64     1     3
## 8439         18     16461     67     1     3
## 8440         27     48407     58     1     3
## 8444          6     44959     93     0     4
## 8455         12     49027     67     2     6
## 8457          6     14500     81     1     1
## 8460          5     60739     91     0     1
```

```
## 8466          7     29004    64     4     4
## 8478         16     22206    76     2     4
## 8485         18      7714    86     3     3
## 8494          7     55645   144     1     1
## 8495          4    172376    70     3     6
## 8503          5     26932    76     6     9
## 8520         10     70385   111     1     2
## 8546         27     23375    74     1     1
## 8548          8     51707    84     3     6
## 8562          5     23669    89     1     4
## 8577          6     22112    93     5     9
## 8582          3     41265    81     1     5
## 8584          5     30242    66     1     1
## 8593         27      2959    22     0     1
## 8597         19     89974    88     1     1
## 8601         11     10633    77     1     2
## 8603          3     15724    97     0     4
## 8645         42     45250    67     0     0
## 8659         23     30793    47     2     5
## 8679          9     56610    62     1     3
## 8682          9     32007    66     1     2
## 8691         19    109588    84     0     0
## 8695          5     48961   103     6    23
## 8698         16     22573    67     0    10
## 8725         13     25066    85     4    10
## 8730          3     67063    66     1     1
## 8733          9     25503    64     1     2
## 8734         27     39713    65     0     1
## 8748         10      9731    78     1     2
## 8755         24     27781    27     2     3
## 8774         22     50527    98     2     5
## 8784          7      5303    88     3     3
## 8789         14     27652    90     0     3
## 8799          2     27104    88     2     6
## 8813          9     66219    89     1     1
## 8815         12     14152    45     3     5
## 8827         13     54566    75     0     0
## 8829          9    138406    67     0     1
## 8833          2     14689    75     1     1
## 8836         21      4518    32     0     0
## 8842          4     41352    70     3     4
## 8849         17      4758    61     1     3
## 8863          6     46867    67     1     2
## 8879         20      2751    29     2     3
## 8886         54      8051    31     3     4
## 8889         34     13984    45     2     2
## 8930         33      9401    65     1     1
## 8934          9     20565    72     0     1
## 8936         15      6377    68     1     3
## 8940          9     30708    79     1     4
## 8949         13     11720    67     2     2
## 8952          6     37706    58     1     2
## 8954          8     50848    63     0     3
## 8996          7     72259    48     6     9
## 9028         22     37714    90     0     1
## 9029         16     14717    82     0     1
## 9039          7     79519    81     1     2
## 9043         13     21596    67     1     1
## 9044          2     92662    99     0     1
## 9046          2     33425    96     0     1
## 9062          3     70144    85     2     3
## 9065          3     69398    82     3     3
## 9144          6     15234    89     1     3
## 9172          3     15719    75     7     8
## 9184          8     27597    59     1     2
## 9201         22    135964    46     7    14
## 9213         16      5458    68     0     0
## 9224          6     95603    85     0     1
## 9233          7     70910    93     3     7
## 9239         34     36212    61     1     2
## 9256          2     88627    93     1     2
## 9260          9      2907    81     1     1
## 9272          2     53973    93     0     2
## 9279         28     17478    25     1     5
## 9290         26     33731    31     1     2
## 9302          1     14915    66     1     1
## 9308          1     35533   100     5     8
## 9315         30      2283    17     1     4
## 9320         12      8535    36     0     0
## 9341          5     22334    89     5     6
## 9379         12     34654    69     0     1
## 9400         51     15258    34     3     3
## 9418          7     52617    71     0     2
## 9437          3     30580    91     5     6
## 9477          9     22314    48     0     0
## 9495         16     85332   115     0     2
## 9496          3    132969    44     3     6
## 9505         20     43564    64     1     3
## 9532          3     13669    71     1     1
## 9538         12      1239    56     1     2
## 9583         11     17883    91     4     6
## 9585         19     18719    70     2     2
## 9597         20      3426    54     1     1
## 9608         11     44259    58     3     3
## 9620        120      1628    47     1     3
## 9661          7    102986    67     5    10
## 9687         12     70915    75     3     3
## 9693          4    202298    81     0     1
```

```
## 9703                13       108441      92           0           0
## 9709                22        17660      54           1           2
## 9726                50         5210      20           0           0
## 9805                24        25311      36           1           2
## 9806                30         5677      38           2           2
## 9809                12        31064      64           3           3
## 9824                13         8900      76           1           2
## 9826                 3       103708      85           1           1
## 9837                24        24122      39           2           5
## 9841                 3        50404      93           0           0
## 9844                31         6594      25           2           2
## 9849                14        51045      51           2           3
## 9912                 4        47775      87           0           2
## 9925                17        61326      65           2           4
## 9926                11        85630      54           1           6
## 9933                 6        15100      65           0           0
## 9937                 2        14964      67           6           8
## 9941                23        18505      79           0           5
## 9951                 2       190510     114           3           3
## 9960                 2        47854      68           2           2
## 9987                 3        82525      70           2           2
## 9997                11         1348      87           0           0
## 10003                7        98057      92           0           0
## 10010                8        66921      84           2           2
## 10011                7        52205      88           0           2
## 10047               32          498      17           2           9
## 10050                6        58954      91           0           1
## 10093                6        26106      68           7          14
## 10104                5        41894      92           1           3
## 10111               18        25306      70           1           2
## 10131                3       189838     125           5           7
## 10137                7        13823      60           1           4
## 10144                4        21760      90           2           5
## 10169               11       145513      84           0           2
## 10172                5         1829      37           5          10
## 10176                2        36326      58           0           0
## 10184                7        57281      73           0           0
## 10202                8        23349      79           1           4
## 10209                6        19036      77           1           3
## 10215                9        16033      89           2           5
## 10242               10        12573      58           0           2
## 10248                6        64035      85           3           5
## 10267               25        44627      75           5           6
## 10275               14        34818      69           0           1
## 10276                3        27671      92           1           1
##       max_bal_bc all_util total_rev_hi_lim inq_fi total_cu_tl inq_last_12m
## 35          7805       43            46500      1           2            3
## 54          4028       63            18400      0           0            0
## 59          8583       80            60000      4          13            6
## 60          8359       35           138900      0           7            3
## 71          2457       79             6500      1           4            1
## 73          2551       28            15800      1           4            0
## 74          2075       71            25800      1           0            2
## 90          1218       66            24500      0           0            1
## 101         2563       78             5500      4           5            1
## 124         1545       74            15200      5           6            4
## 137          311       67            13400      1           5            0
## 142         1669       54            41000      2           1            1
## 143         6479       50            20700      1           6            3
## 160         4216       51            25900      0           0            2
## 161         1961       34            13900      0           0            0
## 165         3770       75            34600      2           1            2
## 174          614       19            24200      3           0            8
## 192         1509       80             5700      4           1            0
## 193         4262       53            44100      3           2            3
## 206         6552       63            47900      2           1            5
## 212           61       27            13700      2           9            3
## 218           50       40            39400      5           0           13
## 229         1335       64            14300      4          16            8
## 232         7340       45            60300      3           1            2
## 234          476       69             5200      0           2            0
## 236          218       32            10000      5           1            5
## 246         6333       37            90100      0           0            4
## 247          618       29            11900      1           8            1
## 262         3443       65            50000      0           4            3
## 285           21       37            12600      5           4            0
## 296         3612       27            64000      2           2            3
## 302         1544       84             9400     10           2            5
## 304         5974       56            26000      0           4            3
## 324         6881       64            53400      2           1            3
## 326         4079       73            14900      0           0            1
## 328         5529       75            16100      3           0            2
## 329         1568       91             3800      0          11            2
## 330         7515       49            36600      1           0            0
## 338          456       45            18000      0           2            2
## 353        12013       22           123500      1           0            5
## 357         2189       63             9300      1           0            3
## 361         4064       77            52400      1           0            5
## 370         7752       89            14000      0           0            2
## 377        23369       48            60500      1           2            2
## 382         5377      105            32600      2           1            3
## 410            0       58            16700      0          15            1
## 428         2395       30            48600      1           1            0
## 450         1706       38             7800      4           1            9
## 465         1238       48             9300      1           0            0
## 466         3813       28            44400      1           0            1
## 471         3302       83             7200      4           0            1
## 479         5320       54            22500      0           0            4
```

```
## 485        461      19          16300     2         13          2
## 491       9679      43          55900     1          2          3
## 496          8      59          17700     0          6          6
## 497       3876      27          64800     5          7          2
## 499       7310      50          23000     1          0          0
## 548        686      49          11800     1          0          2
## 558       2240      41          24400     6          0          8
## 570       2078      31          40300     1          2          1
## 577       6496      31          50200     1          1          0
## 579        636      24           7700     1          0          2
## 608         69      89           1600     9         25          7
## 626        225     105           1500     1          2          3
## 634       1162      78          20200     0          4          1
## 636       5906      49          23300     1          0          1
## 641       2183      34          20100     2          1          1
## 658          0      57           5000     1          0          3
## 660       9078      60          26100     1          0          2
## 670      10613      73          24100     1          0          0
## 674       3611      65          17000     1          4          1
## 689       6000      80          41200     0          2          1
## 696       8608      30          33600     0          1          0
## 705        812      34          13200     0          0          1
## 713       2432      41          54800     1          0          0
## 752       1625      96          13500     0          0          0
## 790       2934      67          25500     4         12          2
## 799          0      83          18200     2          0          0
## 819       5576      73          16600     5          1          5
## 840       6025      47          95600     6          1          9
## 844       5076      45          24100     0          1          2
## 845       7350      28          81000     2          1          0
## 855      10372      53          79500     0          6          1
## 866      17872      87          42600     4          0          1
## 869       1512      62           3000     4          0          3
## 899       5884      37          81200     0          3          0
## 904       2443      52          17900     0          0          0
## 917       4500      68          22900     2          2          1
## 940      11881      42          31100     2          1          4
## 957       1463      61          12500     1          1          0
## 960       3195      68          13200     3          0          1
## 993       8745      69          13900     1          0          2
## 998       4911      52          30700     0          3          0
## 1025      5681      57          57800     1          1          0
## 1056      5962      31          41900     0          5          4
## 1063        93      40          47200     2          2         10
## 1083      3659      86          12600     3          3         10
## 1105     10239      59          44100     0          1          1
## 1117      5203      39         159400     3          0          3
## 1118      1427      45           4000     1          0          1
## 1146     19059      76          61000     3          0          2
## 1170      3479      72          22900     0          4          1
## 1227      2870      80          16200     2          4          7
## 1263      2058      74           8100     2          2          3
## 1264        94      67          16900     0          0          2
## 1273      6604      45          62400     0          0          1
## 1285      3277      38          45700     1          6          2
## 1319      2905      19          75900     1          0          1
## 1337         0      43          28200     2          2          6
## 1349      2805      66          30300     4          3          7
## 1351      1082      66          32400     9          0          5
## 1356      6328      43          20800     2          7          3
## 1386       376      24          55300     0          0          1
## 1388      2821      54          13000     3          3          0
## 1390      3491      62          35700     1          1          1
## 1410     17067      50          80200     2          6          6
## 1416     35452      70          45700     0         11          4
## 1434      1153      63           6300     1          2          0
## 1439         0      42          10000     1          4          1
## 1449      4084      69          18300     3          7          4
## 1459      2288      32          25600     0          0          1
## 1462      2963      58          14900     0          0          0
## 1480      2706      30          10300     0          7          2
## 1484      3374      64          15400     0          0          1
## 1487      9712      73          29300     2          0          1
## 1527      2069      46          18200     0          0          1
## 1529       396      55           7000     0          2          2
## 1530      4430      22          29700     0          0          1
## 1545        15      18          67300     1          0          1
## 1567      1200      59          18700     0          0          1
## 1597       671      48           7400     4          0          4
## 1601      5195      36          67000     1          0          7
## 1623       675      65          24500     1          0          5
## 1633      3813      74          23600     2          1          1
## 1636      4958      52           8200     1          8          1
## 1640     23380      73         124200     1          0          1
## 1645      1756      73          10200     1          0          3
## 1650      5400      39          45600     0          0          2
## 1671      1401      14          32600     1          0          3
## 1672     11533      51          54600     0          0          3
## 1696       378      36           1800     2          1          7
## 1704       878      42          70500     2          0          1
## 1721      2621      59          11600     3          0          0
## 1724      5605      49          26400    11          4         15
## 1728      5932      47          54300     3          1          2
## 1730      9773      44          50700     0          0          0
## 1734         0      94          24900     0          1          2
## 1752      3904      29          28600     3          2          7
## 1771      7028      64          32300     2          0          1
## 1816      6910      60          52200     0          0          2
```

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## 1846        4047       41            47400      0           0            1
## 1850        8795       53            58700      2           4            5
## 1853        5635       42            55200      0           3            5
## 1856       15397       41            69100      1           1            3
## 1857         991        7            20200      1           0            2
## 1862        3264       23            30200      0           0            2
## 1865        2489       83            26400      4           3            6
## 1866        6260       27            42200      0           1            3
## 1867       33406       75            98900      2           2            1
## 1896       11810       79            18100      1           1            2
## 1905        2920       80             8200      1           0            1
## 1907        3199       69            18300      1           3            4
## 1922        6864       65            28500      3           2            3
## 1930        2068       44            45500      2           4            2
## 1933           0       13            44700      0           0            3
## 1952        4534       14           130200      0           1            1
## 1956         380       59             7900      2           0            2
## 1961        3958       73            12900      4           0            6
## 1963        1745       25            32900      0           6            1
## 2004        3448       42            17000      6           0            4
## 2012        3790       45            53500      1           0            1
## 2017        3012       77            10900      0           9            0
## 2019        7988       65            27900      1           3            1
## 2026           0       62            10500      3           0            5
## 2027        3048       25            77900      0           6            1
## 2039        2804       55            11600      0           2            0
## 2041        1534       26            19300      0           0            0
## 2051        4990       15           115000      0           0            1
## 2060        3413       61            25700      3          13            2
## 2065         208       36            40600      1           0            0
## 2073        8285       33            61500      2           1            2
## 2105        1475       52            59200      7           5            6
## 2117         693       14            55500      2           2            1
## 2128        9675       19           214400      0           6            0
## 2129        2466       65            16800      1           1            5
## 2136         452       35            17200      4           0            8
## 2137        6328       59            26600      4           1            2
## 2148       17931       92            20500      2           0            3
## 2155        1880       26            42400      2           0            6
## 2168        3781       71            23600      1           0            8
## 2197        5387       60            46300      0           0            1
## 2215        4424       39            27000      1           0            0
## 2224        4353       41            47300      0           0            1
## 2234        4632       62            33500      4           2            3
## 2255        8919       56            34800      1           2            4
## 2258       14628       63            38400      3           0            5
## 2286        1102       79             3100      0           0            3
## 2296        2740       44           142700      0           2            1
## 2329        1349       88             4000      1           0            2
## 2342        1100       66            12200      4           1            7
## 2347        3618       64           139600      0           6            6
## 2357        1674       72            16000      4           5            4
## 2377        1577       39            21200      1           0            1
## 2393       11806       78            75400      3           1            5
## 2396        1169       85             8400      2           4            7
## 2399        2007       48            18800      1           0            4
## 2405        7533       40            23800      0          11            3
## 2420         712       38            15700      0           0            2
## 2425        7457       77            11900      2           0            0
## 2429        1998       72            14200      1           0            1
## 2439        1050       50            16900      0           4            1
## 2447        6156       65            43000      5           0            5
## 2449        5310       92             6800      1           0            0
## 2457        2657       52            19900      0           0            0
## 2478        4741       27            64200      1           0            0
## 2480        3679       51            17000      1           0            0
## 2492        2943       59            39400      2           1            6
## 2494       14993       62            77200      0           0            1
## 2504        8350       54            56400      1           0            0
## 2510        1287       47            37100      7          11            7
## 2514        1372       12            14100      1           3            3
## 2516        5371      137            14500      0           0            0
## 2522        5397       53            52200      0           0            1
## 2529         499       45            17600      2           0            1
## 2535        1313       49             8700      3           0            5
## 2545        1022       20            36400      1           1            2
## 2549        3219       86            22600      1           6            4
## 2593         227       26            28700      0           2            5
## 2598           0       70            15500      0           1            2
## 2604       27208       40           113700      1           1            4
## 2628           0       81            16500      0           3            1
## 2631        2481       51            14900      6          12            8
## 2661        5432       73            25000      5           0            8
## 2673        9437       63            30400      1           0            1
## 2692        4125       51            30900      4           0            5
## 2707         739       56            18600      0           0            1
## 2714        7056       51            21000      5           0           11
## 2715        9247       73            24300      1           4            7
## 2761        6676       52            23600      4           0            1
## 2772        5204       65            11200      3           0            1
## 2788        5197       48            33900      6           4            3
## 2789        5413       71            38900      0           1            1
## 2820         737       45            14600      2           3            2
## 2840        1370       62            26500      2           8            1
## 2856         915       48            19000      3           4            2
## 2858        5682       23            65300      0           7            3
## 2861        3849       61            27700      1           3            2
## 2872        2526       66            29700      2           0            1
```

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## 2877        7819       42            63800      1           4            1
## 2878        3171       42            16500      0           0            1
## 2879        5949       67            29300      2           3            1
## 2893        7671       56            41300      3           1            4
## 2913        1033       46            14200      2          28            1
## 2915       25058       81            32800      2           2            1
## 2918        2627       58            26900      3           0            0
## 2940       17327       41            60900      2           3            5
## 2942       13463       30           112300      2           0            0
## 2954        2271       40            45000      2           7            1
## 2976        2804       76            14100      2           1            3
## 2977        2854       33            29200      1           1            5
## 2978        2584       59            24000      1           5            2
## 2982        9797       63            38300      3           5            2
## 3002        6351       56            54200      7           1            4
## 3012        5268       56            38300      1           2            2
## 3017         449       45            17500      1           1            3
## 3018        3207       59            49100      0           1            1
## 3021        4202       40            39600      2           0            1
## 3034        3227       18            57300      6           2           14
## 3045       14770       69            42300      0           0            2
## 3050        7545       39            70300      0           5           12
## 3057        8042       60            45700      0           2            1
## 3071        3825      103            15000      5           1            2
## 3104        2530       41            31900      0           1            0
## 3112        5797       62            13300      1           0            1
## 3124        5140       58            50800      6          18            8
## 3150       14642       67            30500      0           0            2
## 3160        2239       52            97600      6           9           12
## 3165        5305       21            57600      2           0            7
## 3172           0       70            14300      3           1            5
## 3177        3560       61            28300      1           5            0
## 3213        2921       15            46200      1           0            1
## 3222         818       78             7600      7           0            3
## 3237        1906       99            20500      0           0            3
## 3252        1543       63            15200      1           0            2
## 3257        2371       30            88400      2           0            8
## 3258        4777       67            20600      3           4            3
## 3265       11163       47            51500      0           0            1
## 3276        4616       31            30300      3           0            3
## 3289        1853       55            12700      4           2            3
## 3307        5718       80            33700      2          13            4
## 3312        3402       54            38600      0           0            2
## 3317        9049       31           148300      0           0            1
## 3333        3504       60            10600      0           2            1
## 3366       14824       74            63300      3          16            2
## 3383        2558       78            10500      0          19            0
## 3419        4880       85            10500      3           3            7
## 3421       11760       40            94500      1           1            4
## 3422       11942       44            47900      1           0            0
## 3429        8382       77            41900      1           9            6
## 3433        2310       25            37000      0           0            4
## 3449        3982       50            17500      0           3            3
## 3458        5928       25            18900      0           1            0
## 3467        3549       41            45200      2           0            4
## 3471        3978       80            30900      2           0            0
## 3480        5980       75            21900      2           2            2
## 3482         387       28             8900      0           0            1
## 3502        3741       28            38600      0           1            1
## 3504        1626       71            11200      2           0            2
## 3507        9903       98            19500      5           1            4
## 3536        3568       65            40200      2           1            0
## 3538        4102       59            58400      0           0            0
## 3542         288       79            13500      3           2            6
## 3547        7724       54            37800      1           3            3
## 3553         726       89             6300      0           0            1
## 3567        2923       84             7400      1           5            1
## 3590        2652       42            29600      1           1            4
## 3607        5212       68            40500      0           0            2
## 3623        6093       15            79100      5           0            5
## 3635       18712       75            80800      2           4            1
## 3655        4582       28            46200      2           0            1
## 3684         337       37             7600      1           5            1
## 3687        8375       85            11500      1           4            0
## 3688         770       12            63900      4           2            2
## 3699       11937       73            24800      2           4            5
## 3701        3415       77             9000      3           3            4
## 3712        3101       69             8400      3           1            2
## 3730        3448       19            68900      2           5            3
## 3749       18824       84            42500      4           0            8
## 3756        9509       69            45900      1           0            3
## 3758         230       98            15000      3           2            3
## 3771        2357       12            48400      0           6            1
## 3785        2989       24            43300      3          16            3
## 3788        5913       48            30600      0           1            1
## 3852         517       71            12600      4           1            6
## 3857           0       69             5200      4           2            1
## 3865        5241       38            43400      1           2            0
## 3889        2117       83             5100      3           2            1
## 3892        5058       22            77800      3           1            7
## 3901        7912       60            34200      0          11            1
## 3917        2187       45            26700      3           0            6
## 3924       11962       45            43400      0           0            2
## 3938          34       40            24700      2           0            7
## 3947        6883       58            45000      0           1            1
## 3949         930       39            10000      1           1            0
## 3959         451       66             1800      0           0            2
## 3977        4789       56            23500      2          11            1
```

```
## 3990      3464      55          17000     3          0          0
## 4001       284      57           7100     0          0          2
## 4003      2737      72          23800     1          0          3
## 4016      1080      56          29600     0          5          3
## 4017      1077      54          16100     0          2          3
## 4021     21339      82          98700     1          1          2
## 4022      2890      56          35100     4         16          1
## 4026     21737     101         133600     1          0          3
## 4036      3704      51           9600     0          3          1
## 4049      6794      60          40400     1         18          1
## 4054      2668      40           6700     1          0          2
## 4093       810      37          30800     2          2          1
## 4099       737      20          29200     1          1          5
## 4104      1081      56          17300     1          2          1
## 4107       408      90           3400     0          1          3
## 4110      1839      55          37700     1          1          1
## 4122      3304      67          30800     1          1          0
## 4128      7577      73          32400     7          1          6
## 4131      4489      44          10200     3          1          1
## 4133      4634      80          14000     1          6          1
## 4135      1493      87           5200     3          1          3
## 4151       668      59          21000     1          1          1
## 4153      8237      53          17800     4          1          5
## 4157      3762      39          47000     6          2          9
## 4233      3087      49          10500     1          0          2
## 4237       967      91           7900     1          2          7
## 4254     10116      52          43700     0          1          2
## 4258       357      92            800     1          0          3
## 4259      1001      68           8300     4          0          4
## 4261      4777      53          42100     2          0          0
## 4265      4468      82          15400     4          2          6
## 4269      3020      16          23900     1          2          2
## 4297      7577      67          26400     1          1          2
## 4307       742      35          35600     1          0          0
## 4341      4850      67          21100     9          1          8
## 4342      3490      68          20300     1          4          0
## 4351      2704      34          14700     2          0          4
## 4352        35      33          49700     2          1          1
## 4376      1208      69           8800     0          0          2
## 4395      4776      25          28900     0          0          0
## 4412      2266      47          52100     0          0          2
## 4414      3049      70          26300     4          2          6
## 4448     11690      71          35000     0          2          4
## 4466      4790      79          26000     0          1          4
## 4476      4992      55          42700     2          0          3
## 4477      3388      54          13100     6          0          2
## 4498      2142      80           4000     2          7          2
## 4501      9985      67          34100     2          0          1
## 4506     10111      57          34300     1          0          3
## 4517      5101      52          17400     3          0          4
## 4524      2264      63           5100     4          1          5
## 4532      1228      76          12200     1          6          3
## 4539      5959      62          14200     0          1          2
## 4552      1203      67          14900     1          2          0
## 4565       328      15          21400     1          5          3
## 4580       999      74           8000     1          0          0
## 4584      5423      86          13700     3          0          3
## 4586      4467      41          46700     1          4          0
## 4611      7591      58          39100     2          1          2
## 4632      3970      37          37500     1          6          3
## 4682      3625      73          22000     0         10          0
## 4688      4389      57          45700     2          3          6
## 4692      2206      45          10200     2          0          3
## 4712      1968      77           3200     0          0          4
## 4743      1220      30          54400     0          3          1
## 4758       723      19          45500     2          0          5
## 4769      7250      34          72900     3          1          4
## 4774      5178      69          31100     0          1          1
## 4775      9360      63          48700     0         16          5
## 4786        81     100          11000     2          0          4
## 4791       637     109           3600     4          0          3
## 4792      2388      26          32400     0          0          1
## 4797      8007      71          54500     1         10          3
## 4801      1384      64           6700     1          0          5
## 4816     12663      72          31600    13          5          6
## 4818      3150      20          50000     4          3          7
## 4832      5583      42          66400     2          0          3
## 4834     10707      69         111600     4         18          2
## 4880      2637      31          25100     1          5          3
## 4921      3174      96           4600     0          0          2
## 4922      1222      47           6500     1          5          5
## 4934      5148      50          19700    10          3          2
## 4951      4007      34          14400     1          0          4
## 4958        97      95            500     0          0          4
## 4985      1377      70          23500     0          0          8
## 5010      2807      40          14000     1          0          1
## 5021      4646      65          27900     2          1          2
## 5035      4022      63          15700     0          0          1
## 5036      2565      68          26100     0          3          6
## 5038         8      73           3600     0          0          1
## 5059      6393      84          10600     0          3          1
## 5060         0      66           1800     2          0          3
## 5070      1667      23          11200     3          0          9
## 5103       677      56          16800     9          2         25
## 5134     10622      66          54100     0          5          5
## 5136      4809      46          16000     1          4          5
## 5155      5208      65          22900     0          1          4
## 5157      4325      42          65600     2          0          2
```

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## 5162        507       23          123500      8           7           6
## 5163      18618       48          125700      3           4           1
## 5168       2357       59           34800      5           6          11
## 5169       4088       57           34900      5           4           8
## 5177        762       38           12800      1           0           1
## 5184       8002       16          327700      1           1           2
## 5186       2622       51           24200      0           0           2
## 5218       4958       28           45300      0           5           1
## 5220       2552       68            9200      3           0           2
## 5221       1757       72           31000      6           0           5
## 5244       3234       24            8800      6           0           4
## 5255       6902       45           54200      1           0           1
## 5278       1720       79           14800      2           1           5
## 5295       7846       65           26300      2           0           2
## 5317       2401       49           12000      2           2           2
## 5325       5387       63           28200      0           0           2
## 5345       3059       67           21500      5           1          12
## 5348       2634       78            9500      1           0           3
## 5354        453       44           28600      1           2           2
## 5356       3285       70           14400      3           0           1
## 5358       9200       57           44400      4          10           4
## 5365       2300       64           20100      2           0           2
## 5379       3417       73           15300      1           1           0
## 5390       2730       67           23600      2           0           2
## 5406       3270       56           15400      3           0           7
## 5416      33542       62          206200      3           0           3
## 5431        363       51           25300      1           1           1
## 5442       9992       79           36600      2           0           2
## 5467       5047       74           35900      0           2           1
## 5494       2117       59           23600      3           2           2
## 5554       2646       57           83000      0           6           1
## 5556       1344       64           12200      1           0           0
## 5565        333       13           52400      0           0           0
## 5566       9086       68           41200      3           0           5
## 5568       1156       93            5800      0           2           2
## 5574       2933       57           26600      3           1           6
## 5597       1523       36            8800      5           1           4
## 5621       1825       70           19800      4           5           8
## 5623       5010       68           17200      0           0           1
## 5643       4400       58           37400      2           0           3
## 5664       9171       48           16700      2           1           0
## 5666       3596       63           17300      0           0           3
## 5720        695       48           16500      0           0           1
## 5731       4997       91           24500      0           0           1
## 5733       2435       43           45600      2           4           6
## 5734       1887       31            8700      1           0           0
## 5749       2871       75            6100      3           0           4
## 5759       6202       78          181600      1           6           4
## 5760        420       64            4400      3           0           8
## 5784       2414       67           10400      1           0           1
## 5786       3386       80           17200      3           0           4
## 5794       1939       19           66700      5           0           1
## 5806      13946       61           85500      3           3           3
## 5809       1971       34           12400      2           0           2
## 5827       8204       30          185600      0           0           0
## 5848       1895       78           15200      0           2           0
## 5849      15382       67           38000      1           0           1
## 5860       4987       51           34000      3           2           6
## 5874       7510       74           36600      1           0           1
## 5876        474       58            5200      5           0           3
## 5886       6012       42           35900      0           0           1
## 5923       3532       71           15100      0           0           1
## 5948       3200       12          111400      3           0           1
## 5962      19382       52           40400      3           4           3
## 5974       4893       56           19000      1           0           2
## 6002       2682       47           57700      6           1           4
## 6051          2       32            8000      2           0           2
## 6057          3       54           16200      5           0           3
## 6083       4830       62           16900      1           0           0
## 6097      18089       53           83700      0           3           4
## 6126        372       93            2200      4           0           9
## 6157        434       31           30200      1           1           0
## 6159       4972       65           27200      1           7           1
## 6164        804       78            3600      6           0           6
## 6165       4703       49           23900      1           0           3
## 6174        542       35           34100      0           0           0
## 6183     208872       31          341800      1           2           3
## 6196       5288       75           32300      3           6           5
## 6203       2693       21           58600      0           0           1
## 6204       2345       30           37300      2           3           2
## 6207       4747       54           15100      0           0           2
## 6209       5297       42           66000      2           3           1
## 6237       4357       52           19400      1           3           1
## 6247       7267       70           17900      0           0           1
## 6250        570       37           50500      0           3           5
## 6253       5540       39           48000      1           9           2
## 6289       1919       74            8700      3           0           2
## 6294       8941       27           47800      4           0           2
## 6298       4761       69           12200      5           0           4
## 6307       3108       85            5500      1           0           3
## 6316       1206       20           33200      1           1           5
## 6333        732       64           11800      1           2           1
## 6352       1117        7          219400      2           0          10
## 6367        133       68           25200      1           0           3
## 6388      15843       71           49000      2           4           3
## 6396       2408       41           13400      1           1           4
## 6402       4765       90           12900      7           0           4
## 6407      14362       56           82000      1           7           6
```

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## 6410        5381       42            45000      0           4            1
## 6421         966      104             8100      5           1            3
## 6422         137       75             4300      4           2            7
## 6435        4542       60            30800      2           3            4
## 6449         704       85             9800      2           0            3
## 6455        5637       78            23600      8           8           18
## 6456        1881       84             7600      0           2            0
## 6468        9972       70            40200      0           8            2
## 6470        1666       61             2700      1           0            2
## 6477        4131       13            40700      2           0            1
## 6490        3781       51            54800      1           6            3
## 6504        4693       64            15800      1           0            5
## 6505        2660       59            16600      1           0            1
## 6530        4555       50            44200      8           0            3
## 6533        6800       40            60600      2           7            8
## 6560       26218       77            83000      1           1            2
## 6570        9709       91            27800      0           0            1
## 6585        4839       45            43700      7           1           17
## 6599         617       58            15300      2           3            4
## 6612        3873       46            15900      2           0            3
## 6617        8290       37            53100      0           0            3
## 6628        6564       27            58700      5           3            2
## 6642        5894       53            34200      0           0            1
## 6651         507       46            39500      5           6            6
## 6653        5554       73            31700      2           3            3
## 6660       13864       58            33600      3           1            1
## 6673        6270       57            22800      1           2            3
## 6675          57       43            43300      0           1            5
## 6680       18068       63            51000      0           0            1
## 6696        2809       71            14500      2           5            3
## 6712       11333       51            64700      1           0            3
## 6736        5034       40            56700      1           4            1
## 6750        2313       81            18900      0           5            1
## 6782        9367       32            83200      3           1            4
## 6784          85       52             8100      2           2            5
## 6793        5740       60            10000      4           0           12
## 6815       11042       34            56400      1           0            1
## 6833        4822       57            11300      1           1            1
## 6854       13363       75            21000      0           0            1
## 6855        6219       55            18700      1           1            2
## 6878         309       43            20500      2           0            3
## 6879        4214       50            17200      1           1            1
## 6884        2533       30            47400      1           0            0
## 6906        6230       46            60800      1           1            0
## 6922        6651       45            40700      1           2            0
## 6936        5219       64            17500      1           2            3
## 6950       13887       54            79600      2           0            2
## 6964        4742      112            11800      3           2            2
## 6984        6205       84            10500      2           5            6
## 6985        2788       74            19800      1           2            6
## 6993       15905       40           143900      1           3            2
## 7000        1281       55            12900      2           0            8
## 7021        3676       46            29800      2           0            3
## 7027         915       54             3300      0           0            0
## 7034        9942       36            58300      0           2            0
## 7038       10697       47            43100      5           0            4
## 7039        5769       43            52300      1          11            0
## 7043        5139       42            10900      0           0            1
## 7068        1635       71             8900      0           0            1
## 7081        5068       63            25000      1           0            0
## 7095        3800       58            22300      0           0           11
## 7096        3146       73             9800      3           0            3
## 7099        3409       73            25300      1           7            3
## 7111        2987       84             5600      2           6            5
## 7115        5540       62            47100      5           4           12
## 7132        4848       62            43200      0           4            4
## 7133         703       71            14200      4           5            7
## 7147       13800       39            94500      2           0            0
## 7158        3522       59            17700      2           4            2
## 7167        6321       66            14600      0           2            2
## 7168        7729       41            45900      2           0            2
## 7169        9077       63            18000      1           0            0
## 7188        1174       44            16500      0           0            1
## 7193        2077       55            12100      1           0            1
## 7232        6036       57            25500      4           0            6
## 7237        1927      100            17200      4           0            3
## 7249        8910       57            22900      0           0            0
## 7255        2158       31            46400      0           0            0
## 7262        1888       69            20600      4           0            3
## 7279        1897       55             9100      0           1            1
## 7302        3299       47            41700      0           1            0
## 7310        3639       23           237700      2           0            3
## 7323        9200       65            56700      4          10            2
## 7344        3185       64            20600      0           1            0
## 7353        4470       58            16600      1           0            1
## 7355        4606       80            10300      1           1            0
## 7426        8723       66            21500      1           2            0
## 7445        1471       78            12900      0           0            0
## 7446        3838       56             9000      0           0            1
## 7460        4835       56            21500      4          13            2
## 7465        5251       52            44200      1           0            1
## 7474        3683       53            22200      1           0            2
## 7479        6990       66            43600      3           3            7
## 7485        6152       29            96400      1           0            1
## 7530        3246       98             8200      0           0            1
## 7533          26       83             5300      0           0            2
## 7538        5611       50            69200      0           1            2
## 7555        1554       42            37000      1           2            2
```

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## 7562        819       52          27500      1          0          5
## 7564       2147       43          13500      2          5          3
## 7579       6271       29         145800      2          1          4
## 7591       3832       73          18200      1          0          0
## 7594          0       19          18200      2          2          3
## 7612       5929       31          37700      2          3          2
## 7619       1032       52          43800      2          1          3
## 7621      25904       63         108200      1          2          5
## 7704       5350       52          50600      4          9          3
## 7715       8007       45          23000      3          2          5
## 7737       4368       52          33800      0          1          2
## 7777       8401       60          35300      2          1          4
## 7792       3550       82          14300      2          4          1
## 7794       8505       52          29600      0          0          6
## 7824       6593       74          83000      2          1          3
## 7828       1426      115           2300      0          1          0
## 7833       6145       36          64200      4          0          7
## 7838       2409       64          18100      7          0          4
## 7840       1713       42          19700      2          0          8
## 7882       3909       89          12900      0          0          0
## 7893      23190       47          70900      4          0          2
## 7900      30809       68          77600      4          1          1
## 7910       6533       59          28100      5          1          0
## 7925      13427       56          73700      1          0          0
## 7945      17036       65          72500      0          0          0
## 7963       6283       50          22300      1          0          1
## 7972       3491       74          10400      1          0          1
## 7980       2600       40          54700      2          3          1
## 7985       4400       90          23600      0          1          2
## 8006       7431       50          69700      1          4          0
## 8009       3200       47          38700      3          4          9
## 8024       9111       63          43000      2          0          5
## 8042       1722       85           8200      4          0          1
## 8046       9573       66          43400      1          2          2
## 8047       4223       49          13700      1          1          2
## 8080      28696       81          43500      1          2          3
## 8086       1365       58          26400      0          2          4
## 8111       9711       49          25200      2          5          6
## 8125       1813       41          24900      4          0          2
## 8140       6460       51          67800      4          0          6
## 8148       1678       55          19500      3          1          0
## 8154       5585       45          44500      3          1          6
## 8174       5782       29          55100      0          3          2
## 8192        427       29          14200      0          0          3
## 8261       7900       88          12900      0          3          1
## 8269         49       77          13000      0          1          1
## 8275       7460       57          20000      1          0          5
## 8287       1647       85           6600      2          1          1
## 8303       7930       60          37500      1          1          9
## 8304       3458       48          37800      2          0          4
## 8339       2534       61          41000      2          9          2
## 8352       3596       71          35200      0          4          4
## 8370       3721       51          17000      1          1          1
## 8384        207       55          12500      1          0          0
## 8388       6675       88          30100      1          1          5
## 8400       5765       71          23200      1          2          4
## 8420       6894       60          27000      2          1          0
## 8432       4341       48          35200      0          0          1
## 8439       1172       65           9400      0          2          5
## 8440       4957       56          20100      3          9          3
## 8444         99       82           7600     10          0          6
## 8455       2086       34          61200      6          9          9
## 8457        245       77           3500      0          5          1
## 8460       4104       88           9200      5          2          7
## 8466       2552       60          11200      6          3         11
## 8478       7854       65          28300      3          1          1
## 8485       4022       16          84900      2          0          4
## 8494        276      138           2000      0          3          2
## 8495       7751       48         103800      1          4          4
## 8503       1989       69          14100     10          0          9
## 8520        671      106           3500      0          0          2
## 8546       3812       64          11000      0          0          1
## 8548       6364       78          22300      3          1          7
## 8562       1851       87           5100      3          0          2
## 8577        516       56          19400      4          0          8
## 8582       1749       59          17500      1          3          2
## 8584      11122       48          37500      0          0          2
## 8593      14287       57         106700      1          0          0
## 8597        991       77          17800      0          6          1
## 8601       3614       30          51500      0          0          2
## 8603       2654       84           6400      2          0          2
## 8645       6433       69           7000      0          1          1
## 8659        973       37          30000      0          5          1
## 8679      13497       62         130300      2          5          4
## 8682       3667       55          27700      2          0          4
## 8691       9972       76          28100      1          0          0
## 8695       2035       78          28200      3          1          4
## 8698       5941       60          27300      5          0          6
## 8725         16       57          14700      7          0         17
## 8730       4101       66          38700      1          4          1
## 8733      11149       77          24700      1          0          2
## 8734       3631       60          13600      0          5          1
## 8748       1125       70           5100      2          0          3
## 8755       1460       22          49300      1          0          1
## 8774      14752       76          45000      0          1          1
## 8784       2949       53          14700      2          0          2
## 8789       7970       56          34800      1          1          1
## 8799       2619       61          21900      3          0         14
```

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## 8813      15641      69          43200     1          0          3
## 8815       5868      44          15100     1          1          4
## 8827       6068      64         111000     2          4          2
## 8829       4715      64           9000     0          1          4
## 8833       5918      61          21100     1          0          0
## 8836       8879      39          26400     1          3          0
## 8842       2897      55          32000     0          2          8
## 8849       4575      38          21500     2          2          2
## 8863          0      47          35000     1          9          2
## 8879       3950      18          33500     0          5          2
## 8886        289      27          13400     0          0          3
## 8889        820      40           6500     4          0          5
## 8930       1112      66           2800     0          3          1
## 8934       5977      81          15800     2          0          0
## 8936       2042      20          70900     1          1          1
## 8940       5892      51          58500     0          1          0
## 8949       4113      21          70600     2          0          0
## 8952       3108      52          19700     1          1          2
## 8954       5607      70          87800     2          4          1
## 8996       4679      47          46600     4          1          7
## 9028       2420      84           9500     1          4          0
## 9029        158      53          10000     8          1          8
## 9039       1936      66          26000     2          3          1
## 9043       6065      56          28300     2          0          0
## 9044      17450      75          59800     1          1          5
## 9046       3861      67          27000     1          2          0
## 9062          8      70          12900     1          3          8
## 9065       5709      45          83500     3          0          4
## 9144       3648      52          21500     0          3          1
## 9172       5004      25         140300     3          3          6
## 9184        333      28          87700     1          2          2
## 9201        379       5          77000     2          3          5
## 9213       4914      64          19300     1          0          0
## 9224       4451      70          17000     3          0          9
## 9233       3591      54          38600    10          4         18
## 9239       8100      62          30300     2          1          2
## 9256       3882      80          18800     4          0          3
## 9260       1105      20          38900     1          5          1
## 9272       4932      87          10800     3          5          1
## 9279       2016      40          23500     0          0          3
## 9290       4159      44          18200     0          0          0
## 9302        838      47          11000     2          1          1
## 9308       4358      40          31000     2          4          1
## 9315      14857      39         133900     1          1          2
## 9320       5447      49          23200     1          0          0
## 9341       7759      52          63100     3          1          5
## 9379       7286      72          26900     0          6          1
## 9400       2673      37          13500     2          0          4
## 9418      28850      86         151100     2          3          2
## 9437       4869      65          23600     2          0          4
## 9477      10058      36          83800     2          3          2
## 9495       1977     114           6300     2          2          1
## 9496        246      30          83000     2         12          5
## 9505       7430      60          32800     0          1          1
## 9532       5186      52          35400     0          4          0
## 9538        105      26           3800     0          0          1
## 9583       2176      70          16500     0          3          5
## 9585        375      66           2600     4          0          6
## 9597       3091      65           9200     1          1          0
## 9608       1255      21          18700     1          0          5
## 9620       2974      68          20100     2          0          4
## 9661       2879      55          31700     4          0         11
## 9687       9281      58          61000     4          6          5
## 9693      16055      79          25000     0          0          5
## 9703        480      92          18600     1          9          2
## 9709          0      52           1500     3          1          1
## 9726        534      16          11000     0          2          1
## 9805          0      11          22600     0          4          1
## 9806       1802      51          13600     1          2          2
## 9809       3008      69          15100     4          0          1
## 9824       4100      49          19500     2          1          5
## 9826       7169      66          24100     1          2          2
## 9837       3216      22          55800     0          0          1
## 9841       1239      75          14300     0          0          1
## 9844       7369      20          54500     0          1          3
## 9849       9140      42          32100     3          3          5
## 9912       5221      88          12000     5          0          4
## 9925       3523      57          25500     0          0          3
## 9926       5107      32          63400     1          3          4
## 9933       9534      66          37900     2          0          3
## 9937         15      33          24900     1          1          2
## 9941       3579      42          35300     0          8          1
## 9951      15669     105          44700     2          2         12
## 9960        509      63           7100     7          4          7
## 9987       4607      66          23100     1          4          2
## 9997       2330      66           5400     1          0          2
## 10003     15776      83          68300     1          0          4
## 10010         0      78           5600     0         19          4
## 10011      5841      80          16600     1          0          0
## 10047      2276      53          24000     2          0          1
## 10050     18267      85          30300     3          2          5
## 10093      2474      52          30100     2          1          3
## 10104      1214      44          53900     2          0          3
## 10111      4595      73          22000     1          9          1
## 10131      3799     105          45800     3          1          0
## 10137      1273      60           4000     2          6          2
## 10144      3335      64          27100     1          5          3
## 10169      4257      79          27300     3         23          4
```

```
## 10172        656        4            74900      1           0            3
## 10176       5082       57            26900      1           4            6
## 10184      17603       79            41300      2           0            1
## 10202        717       69            19000      0           7            1
## 10209       7280       65            15700      6           0            6
## 10215       8854       48            45900      0           4            1
## 10242       2112       46            16600      2           1            4
## 10248       3856       79            11200      2           1            5
## 10267       4531       62            39200      0           0            3
## 10275        514       43             9000      1           6            0
## 10276        428       44            41600      1           1            2
##       acc_open_past_24mths avg_cur_bal bc_open_to_buy bc_util
## 35                       4        3044          32743    29.6
## 54                       2        9157           8212    44.9
## 59                      10        5451          22866    39.8
## 60                       7       14803          61901    26.3
## 71                       3        3426            992    84.7
## 73                       4       13714           1449    63.8
## 74                       1        1978          10218    35.7
## 90                      14        2962          11993    20.0
## 101                      3       49865           1918    57.4
## 124                      8       25335           6503    25.3
## 137                      4        3098           2689    10.4
## 142                      3       15814          10329    13.9
## 143                      7       73810           9067    45.7
## 160                      5        2270          11167    41.2
## 161                      4        1566           3376    65.6
## 165                     10        3551          13651    40.9
## 174                     17         399          12454     4.9
## 192                      8       48659              0   100.6
## 193                      8        8573          19998    40.3
## 206                      6        8249          36104    24.6
## 212                      6         637           7939     0.8
## 218                      5        2514          26350     0.2
## 229                     10       21385            665    66.8
## 232                      8       15517          42274    23.8
## 234                      8        1978           1269    36.5
## 236                      8         821           6149     5.4
## 246                     11        1985          42630    44.7
## 247                      1         552           1452    36.9
## 262                      7        6498          19955    33.9
## 285                      6         953           5479     0.4
## 296                      9        1194          43865    19.4
## 302                      5        7751           3751    43.2
## 304                      6        3557           3576    79.3
## 324                      5        4373          29219    25.8
## 326                      3        2976           1344    88.6
## 328                      3       47696           3236    71.9
## 329                      7        5822            232    87.1
## 330                      5       11063           2767    86.2
## 338                      5         736            977    38.9
## 353                     11        2245         108179    11.7
## 357                      6        3000            399    90.0
## 361                      4        3960           5173    74.4
## 370                      2       11243           2748    73.8
## 377                      3       26860          32950    41.8
## 382                      8       16406          23913    22.4
## 410                      5        3858           3400     0.0
## 428                      5        1588          38520    17.3
## 450                      3       28211           6094    21.9
## 465                      1        2216           3135    43.0
## 466                      5        9036          31676    17.5
## 471                      4       16071            756    83.2
## 479                      5       10578           4310    70.1
## 485                      8         413           4131    10.2
## 491                      3        2595          26912    45.2
## 496                      5        2472           7292     0.1
## 497                      9       16774          28329    13.4
## 499                      1        8563           4090    78.5
## 548                      2        4222           5114    11.8
## 558                      8        1371          17852    11.2
## 570                     13        6011          21159    23.1
## 577                      4        3812          16208    42.5
## 579                      4         524            864    42.4
## 608                     13        3770           1131     5.8
## 626                      3       21875           1275    15.0
## 634                      4        9852           2838    29.1
## 636                      2        3009           3203    81.7
## 641                      8       17502           4817    31.2
## 658                      5        3805            300     0.0
## 660                      0       68673           1593    92.0
## 670                      5        3026           1506    89.1
## 674                      6       29547           5038    55.8
## 689                      3        4085           1273    91.2
## 696                      6        9226          10695    55.2
## 705                      4        1197           5536    23.1
## 713                      8       13680           3377    57.8
## 752                      1        7664           6613    33.2
## 790                     11       32488            942    85.5
## 799                      5        2413          12200     0.0
## 819                      9       22218           4381    62.2
## 840                     14        2796          42051    19.9
## 844                      5        2115          10524    32.5
## 845                      8       17642          45295    19.8
## 855                      5       26678          36236    38.1
## 866                      2       87963           1429    96.5
## 869                      5        8816           1488    50.4
## 899                     13       12601          43472    18.0
```

```
## 904                    6        2873          12780    28.6
## 917                    3        7764           4675    54.6
## 940                    5       37350          11668    62.5
## 957                    3       31542          11037    11.7
## 960                    4        1969            892    86.7
## 993                    3       38863            455    96.1
## 998                    4        2254           5682    75.1
## 1025                   3       11264          31099    42.3
## 1056                  12       16617          23982    29.3
## 1063                  20        1459          27894     1.4
## 1083                   6       28432           1240    84.5
## 1105                   2       55368          15846    60.7
## 1117                   8       16596          49798    16.2
## 1118                   2        1269           1226    69.3
## 1146                   3        8481           7250    85.4
## 1170                   4        9677           7837    39.7
## 1227                   6       10425           1190    82.5
## 1263                  10       18019           1673    70.1
## 1264                   3       42893           8255     1.7
## 1273                   2        3808          42469    24.0
## 1285                   8       17232          24404    12.8
## 1319                   5        5558          53558     8.3
## 1337                   6       20806           8300     0.0
## 1349                   9       16335          10495    21.1
## 1351                  11        3899           9322    39.9
## 1356                   8        1587          12197    35.8
## 1386                   3        8008          44219     1.3
## 1388                   4        4475           1606    67.9
## 1390                   5       18126          11509    23.3
## 1410                   2       27839          31340    44.3
## 1416                   6       58690           6048     0.0
## 1434                   5        1318           2010    52.1
## 1439                   2        2515           1000     0.0
## 1449                  10       10065           9722    37.3
## 1459                   7       28893          20290    20.7
## 1462                   4       11094           2067    82.6
## 1480                   2        1538           1666    75.5
## 1484                   2        2301           4086    55.1
## 1487                   3        5773           5673    76.0
## 1527                  10        1421           2886    57.6
## 1529                   8        1208            751    49.9
## 1530                   4        1343          20573    22.4
## 1545                   8        2146          66775     0.0
## 1567                   7        4932           7000    14.6
## 1597                   4       59397           4329    13.4
## 1601                   8        2063          27327    34.6
## 1623                   0        9269          23746     3.1
## 1633                   3       19102              0   100.3
## 1636                   1       11808            425    93.1
## 1640                   7       13998          74185    50.8
## 1645                   5       17085           1744    50.2
## 1650                   4       11089          27187    36.3
## 1671                   5       16897          13960    14.9
## 1672                   7       11272          28168    37.8
## 1696                   2       45366            122    75.6
## 1704                   5        4249          69203     1.3
## 1721                   2       21871            379    87.4
## 1724                   6       21828            983    91.7
## 1728                  12        3484          42753    21.3
## 1730                   3       44455          22888    54.5
## 1734                   3       64896           4500     0.0
## 1752                   3        2070          18120    20.5
## 1771                   2        4909          24872    22.0
## 1816                   9        3553          15491    46.9
## 1846                  11       10132          13742    36.7
## 1850                   7       10512          35382    31.6
## 1853                   5       31327          35145    24.3
## 1856                  12       17824          41531    30.6
## 1857                   3       38339           6820    13.7
## 1862                   3        7617          16288    24.2
## 1865                   3        5468           1867    76.4
## 1866                   4       27491          23457    31.0
## 1867                   4      102430          17819    82.0
## 1896                   6       24538           6230    65.6
## 1905                   4        8950            882    86.2
## 1907                   7        4753          10343    28.7
## 1922                   3        8485          15496    40.2
## 1930                  10        2571          22605    10.3
## 1933                   5       18673           6000     0.0
## 1952                   6        6377         100226    14.5
## 1956                   2        3910           5608     8.1
## 1961                   4       29696           1361    89.0
## 1963                  13        3227          16091    14.4
## 2004                   5       43442          13237    22.1
## 2012                   3       10440          20390    28.0
## 2017                   2        3886            243    95.1
## 2019                   3       36655            412    95.1
## 2026                   3        3423           3500     0.0
## 2027                   5       24480          52788    11.1
## 2039                   4       50159           1470    74.7
## 2041                   6       13702          15361     9.1
## 2051                   8        4765          99110     6.4
## 2060                   7       25289           3074    65.8
## 2065                   4        1401           7666     6.5
## 2073                   9       16687          48715    14.5
## 2105                   7       10400          36631    10.7
## 2117                   5        8753          38933     3.2
## 2128                  17        3297         155304    16.7
```

```
## 2129          6      6776       6055   45.0
## 2136         10       839       4431    9.6
## 2137          8     16626      10506   48.2
## 2148          6     19387        237   98.8
## 2155          3     38047      27120    6.5
## 2168          4     19596       8710   39.5
## 2197          4     29812      20013   21.2
## 2215          2     18183       3332   71.3
## 2224          2     15095        147   96.7
## 2234         11     10015       8204   57.0
## 2255          5     21140      12711   56.8
## 2258          4      6340      20783   42.9
## 2286          2      6679       1998   35.5
## 2296          8      3265     132235    4.2
## 2329          4      2813       2522   37.0
## 2342          6      3649       6772   30.2
## 2347          6     13889       5865   72.5
## 2357          4     32720       2714   38.3
## 2377          3      5279       2423   39.4
## 2393          8     27184      15275   74.5
## 2396          3     30047       5542   23.0
## 2399          8      1459      12931   15.5
## 2405          6     15424      11167   40.3
## 2420          4      2613      10088    6.6
## 2425          3     23906       2946   75.2
## 2429          5      3820       6302    0.0
## 2439          5      1290       3051   50.8
## 2447          9      4599      23997   39.7
## 2449          3      7640        191   97.2
## 2457          5     26653       3627   46.7
## 2478          5      2188      46451   16.2
## 2480          6     23660       1286   87.9
## 2492         19      3336      21797   29.9
## 2494          3     20695       5323   74.0
## 2504          4     22291      12243   70.0
## 2510         10      5559      23997    5.5
## 2514          2       405       7604   24.7
## 2516          2      8888       1750   87.5
## 2522          8      2707      14992   47.9
## 2529          6      2286       1301   27.7
## 2535          4       879       4943   40.4
## 2545          5     17860      30022    4.4
## 2549          6      5866       6804   47.3
## 2593          1     74737      15773    1.4
## 2598          8     15598      14000    0.0
## 2604         13     24169      59870   42.3
## 2628          0     79369       1500    0.0
## 2631         12     14394       7419   25.1
## 2661          9     23419      18049   23.2
## 2673          3      5441       1593   90.2
## 2692          9      2030      10171   41.2
## 2707          4     20251       5061   12.7
## 2714          1     51840       4257   79.7
## 2715          6     24916          0  103.5
## 2761          4     15022       2825   72.8
## 2772          4     15167       1125   88.0
## 2788         13     21980      12303   29.7
## 2789          9     13791      14728   30.2
## 2820          5     24337       3960   17.5
## 2840          8     31532      17497    7.9
## 2856         13     41502      12980    8.3
## 2858          8      5681      42238   19.9
## 2861          2      9252          0  101.3
## 2872          6      2791      15408   25.6
## 2877          7     37259      34069   43.0
## 2878          4      7566       7829   28.8
## 2879          3      4270       6239   48.9
## 2893         11      3879      26564   26.2
## 2913          4      1262        667   60.8
## 2915          2     84492       6565   80.0
## 2918          8     12807      12458   35.8
## 2940          9      9070      26454   41.1
## 2942          3     20673      64368   27.8
## 2954          6     12302       6235   38.6
## 2976          3      3758       8512   36.0
## 2977          7     14512      13916   31.8
## 2978          4     31131      19487   18.5
## 2982          6      4599       6312   74.9
## 3002         12     11314      45936   15.2
## 3012          7     10572       1986   79.5
## 3017          5      5245       6403   14.6
## 3018          3      4217      21648   36.5
## 3021          4      8761      30944   21.7
## 3034          6      6076      24888   17.9
## 3045          1     52857      18258   55.0
## 3050          9      2870      28665   24.0
## 3057          7      4679      16054   55.0
## 3071          3     26266       3239   65.9
## 3104          0      2633      21942   19.6
## 3112          0      5852        243   97.8
## 3124         10     13490       6013   46.3
## 3150          2    150384       3637   88.1
## 3160         16     27478       8802   31.2
## 3165          7     16860      34897   21.8
## 3172          8     22249       8700    0.0
## 3177          2     29619       9475   35.1
## 3213          3       576      23463   12.5
## 3222          6      3118       2663   35.0
```

```
## 3237          2     8003     4766   47.0
## 3252          2     2122     4269   39.0
## 3257          9     2683    46066    9.3
## 3258          8     4008     5299   55.8
## 3265          2    24825    11960   64.3
## 3276          7    83093    21584   17.6
## 3289          9    14205      147   92.7
## 3307         11    18937     6884   55.6
## 3312          5    13945     7737   45.1
## 3317          7    13697    88348   27.0
## 3333          8    22863      128   98.3
## 3366          5    33936     2930   92.1
## 3383          3    71449        0  102.3
## 3419          8    44537      619   93.7
## 3421          8    11464    38994   38.6
## 3422          1    21297     9128   69.6
## 3429          9    44119     8335   69.4
## 3433          5    21300    20464   14.0
## 3449          2    10111     1931   79.7
## 3458          3     1855     7972   42.6
## 3467          9     2127    29406   25.7
## 3471         11     4410     9318   53.2
## 3480          5    23471     1883   84.2
## 3482          3    11112     8157    8.3
## 3502          4     5811    28034   11.8
## 3504          3     1865     5923   38.3
## 3507          6     6637      183   98.9
## 3536          3    21208     1637   84.3
## 3538          5     2645    26851   41.5
## 3542          7    19666     4970    9.6
## 3547          3     3237    17926   35.7
## 3553          3    51578     5074   19.5
## 3567          7    17020      160   96.0
## 3590         12    13460    15096   28.1
## 3607          5    17625     9720   47.2
## 3623         14    10847    60809    9.5
## 3635          4     8769    31315   60.9
## 3655          4    22406    27231   20.4
## 3684          8     1052      394   56.2
## 3687          6    15317      172   98.5
## 3688          7    18438    49174    2.0
## 3699          6    41032     5404   72.3
## 3701          3    14869     5585   37.9
## 3712          5    18561     1037   81.5
## 3730          8    22452    14652   19.0
## 3749          6    59464     5670   83.0
## 3756          9    16608     7975   72.6
## 3758          4    36665     2770    7.7
## 3771         10      928    38643    5.7
## 3785          6      919    31545   16.5
## 3788          3     2725    13634   52.0
## 3852          8    18600      540   61.4
## 3857          6     2628     2500    0.0
## 3865          7    17291    20858   42.2
## 3889          6    95409     1483   58.8
## 3892          9     9117    66431    8.4
## 3901          4    20028    20512   40.0
## 3917          4     1551    16705   14.8
## 3924          5    10140    25782   37.3
## 3938         11     7216     1766    1.9
## 3947          1    13803    10859   49.5
## 3949          3     1826     3878   28.2
## 3959          3     1813      349   56.4
## 3977          2    28856    11859   43.5
## 3990          3     8784     6108   57.9
## 4001          4     2724     6310    0.1
## 4003          4    33608     9646   50.3
## 4016          4    23806    17908    5.7
## 4017          2    28585     7849   15.6
## 4021          5    29744    30114   67.6
## 4022          9     2265     5358   59.4
## 4026          4    46340      309   99.5
## 4036          3     2609     1954   74.6
## 4049         14    38085    24477   31.1
## 4054          4    48895     1332   66.7
## 4093          5     3132    25212    6.6
## 4099          6    33294    26870    3.0
## 4104          2    50487    16219    6.2
## 4107          3     8418     1892   17.7
## 4110          6     7676     2088   54.6
## 4122         12    11608    10743   54.9
## 4128         12    32590    11860   51.2
## 4131          1    30467     5711   44.0
## 4133          1     4148     1495   88.5
## 4135          5     5328     2007   42.7
## 4151          4    15339     2755   35.9
## 4153          3    69763     3581   75.5
## 4157         13    23229    17073   28.9
## 4233          3    46797     4413   41.2
## 4237          6     2970     2639   30.6
## 4254          0    15397     8062   80.7
## 4258          2     4352      341   57.4
## 4259          9    18891     4843   19.3
## 4261          3     8576    12578   54.4
## 4265         11    20612     7322   45.4
## 4269          5    10186    13178   26.0
## 4297          3    42647     6920   58.8
## 4307          6     2554    33421    5.3
```

```
## 4341          11       5937        374   95.2
## 4342           3       4288       8056   46.6
## 4351           4        786       1096   71.2
## 4352           6      24380      31639    0.2
## 4376           2      23775       3404   41.3
## 4395           5       1226       5749   50.9
## 4412           7      32973      25797   31.0
## 4414           8      11815       1381   80.8
## 4448           0      29942       2099   93.0
## 4466           6       3414       6613   72.8
## 4476           1       3248      23572   35.4
## 4477           6      35784       6665   49.1
## 4498          11      23947        158   93.1
## 4501           5       3331      13922   58.4
## 4506           7      14948       8294   63.0
## 4517           6      30464       2397   84.0
## 4524           3       5673       1218   76.1
## 4532          10       1981       5472   18.3
## 4539           6      15133       5434   53.9
## 4552           7      16479      11485    9.6
## 4565           4       1048      20672    1.6
## 4580           2       1249          1   99.9
## 4584           2      18976       5362   53.8
## 4586           8       6565      19457   33.1
## 4611           4      13742      19812   49.3
## 4632           9      13290      12816   30.3
## 4682          14      11108       7594   48.0
## 4688           7      18481      31341   21.8
## 4692           2       2408        878   81.7
## 4712           4       5871        436   86.4
## 4743           7       1836      42024    8.0
## 4758           3       2098      44412    2.4
## 4769           9       2284      16614   47.9
## 4774           5      15034       5467   73.6
## 4775           6      20932      22914   36.5
## 4786           3       9443       4919    1.6
## 4791           4      17250       1813   32.9
## 4792           2        809      12239   34.6
## 4797           8      15984       7420   66.3
## 4801           8      10307       2563   49.7
## 4816           7      38347        837   93.8
## 4818          10       2830      34312   14.2
## 4832          10       1740      24872   21.3
## 4834          10      32573      21768   35.6
## 4880           4      22135      15339   28.0
## 4921           1      11706        555   87.9
## 4922           6      18853       3016   48.9
## 4934           2      16803      13852   27.1
## 4951           4        723       7862   36.6
## 4958           2       3203        403   19.4
## 4985           6       4136      10105   31.7
## 5010           6       6751       8261   38.8
## 5021           6       2694       7360   59.6
## 5035           3       5774       4000   66.4
## 5036          12       7712       3428   66.1
## 5038           6       1283       2892    0.3
## 5059           4       4008       1207   88.6
## 5060           6      40434       1300    0.0
## 5070           8      11699       1134   62.2
## 5103           8      12315       3828   20.3
## 5134           7      31341      16330   60.7
## 5136           3      49764       7385   53.8
## 5155           6      22124       8643   47.3
## 5157          14      11134      46418   11.8
## 5162          18       1889      42715    1.6
## 5163           8      58717      82325   34.7
## 5168          24       1616      11509   28.1
## 5169           9       2997       5004   45.0
## 5177           1       2791       1111   53.7
## 5184          22       2846     292422    4.2
## 5186           3      15120      10013   31.4
## 5218           5      12568      23176   26.4
## 5220           8      36859        448   85.1
## 5221          10      24343      25599   17.4
## 5244           5       1580       5266   38.0
## 5255           5       4516       8461   68.4
## 5278           2       6228        280   86.0
## 5295          14       2668      11836   39.9
## 5317           5      13380       8289   27.9
## 5325           8       3140       5484   56.1
## 5345           4       3812      10658   37.3
## 5348           4      21477        992   86.4
## 5354           6       2094      20347    2.2
## 5356           6       2752        579   92.6
## 5358           9       7728      10270   65.1
## 5365          10      22262      11001   36.0
## 5379           9       2381       4043   60.7
## 5390           9      31641       5559   68.5
## 5406           8      21192       5230   38.5
## 5416           4      17423       1435   84.3
## 5431           4       3703      20937    1.7
## 5442           2       4569       5605   84.6
## 5467           3      13921       5153   49.5
## 5494           6      66060      13207   33.0
## 5554           0      36471      20713   20.3
## 5556           5       1492        575   82.0
## 5565           5        702      26818    2.1
## 5566           6      32575       2011   90.4
```

```
## 5568          2       2370        1144   50.3
## 5574          1       4590       10368   27.5
## 5597          3      41568        6329   28.1
## 5621         11      19888        6665   27.6
## 5623          5       1672        2471   84.3
## 5643         13       2656       21488   32.4
## 5664          1      26199         829   91.7
## 5666          9       1804        4918   49.8
## 5720          3       9295       15701    4.8
## 5731          1       4908        2297   82.7
## 5733         14       1723       25304   22.9
## 5734          1        690        1613   53.9
## 5749          2       6463         129   95.7
## 5759          5      28127       16098   41.5
## 5760         10      25908        2096   22.4
## 5784          2       3395        7978   23.3
## 5786          2      15822        5683   43.2
## 5794         12      31778       52256    3.9
## 5806         13       3223       11990   75.9
## 5809          5      21027        1340   78.7
## 5827          6       1844      122297   34.5
## 5848          7      18555        1977   70.5
## 5849          4      17709        7550   75.2
## 5860          6      29574        1802   87.1
## 5874          3       7486       14140   42.3
## 5876         10        701        1423   28.9
## 5886          4      19686       13683   47.6
## 5923          6       4504        3014   76.1
## 5948         10      10926       63408    7.3
## 5962          7      18062         695   97.5
## 5974          2       2457        3232   71.6
## 6002         13      22491       37389    7.5
## 6051          2      23767        5398    0.0
## 6057         10      62220        3497    0.1
## 6083          4       4449        4306   64.1
## 6097          6      18035       39560   41.4
## 6126          5       4596         735   43.5
## 6157          4      13573       16844    2.6
## 6159          6      28469        6028   45.2
## 6164          7      28179        1496   35.0
## 6165          6       1644        3442   63.4
## 6174          1       3060       33147    2.8
## 6183          6      22418      131800    0.3
## 6196          6      21382         694   93.1
## 6203          2       1579       45894   17.8
## 6204          2       1564       17866   16.1
## 6207          3       3502        7327   44.1
## 6209          5       3883       32798   24.6
## 6237          3      22963         143   96.8
## 6247          3       7925        4281   72.4
## 6250          9       5713       33102    2.9
## 6253          6       2695        5666   61.2
## 6289          7       3158         300   93.6
## 6294          3      43941       31918   23.1
## 6298          6      32172        3888   61.5
## 6307          9      24960        1692   64.8
## 6316          7       9470        6045   19.4
## 6333          1       4908        6068   10.8
## 6352          6       7740       78555    1.8
## 6367          2       8523       18753    1.3
## 6388         12      22818       22486   49.1
## 6396          1       3427        7815   33.8
## 6402          8      21704         766   94.1
## 6407          4      21408       38183   47.7
## 6410          4       2056       22810   38.2
## 6421          7       5168        2197   62.1
## 6422         10       4962        1163   10.5
## 6435          6      19789       11681   59.6
## 6449         10       3918        5474   11.7
## 6455         11      38421         455   96.7
## 6456          4       7407         505   93.4
## 6468          3      14837       14954   41.2
## 6470          1     112085          34   98.0
## 6477          6       3954       34981   13.4
## 6490         13       1489        6247   73.8
## 6504          4       6998        1800   82.0
## 6505          7      30129        4412   41.2
## 6530          4       2995       17482   44.0
## 6533         12       5067       29642   28.6
## 6560          4      75680        9014   87.7
## 6570          6      26127       10768   50.6
## 6585          8       1660       19906   31.4
## 6599          7       1906        8783    6.6
## 6612          1       2924       11116   30.1
## 6617          4       5673       31791   34.9
## 6628          7       1118       26370   27.2
## 6642          1       3076       19140   40.2
## 6651         18       7104       17768    2.9
## 6653          3      40601       16864   32.3
## 6660          4      28047        5466   75.2
## 6673         10       9570         356   96.9
## 6675          5       3151       36222    0.2
## 6680          0      41189        1633   96.8
## 6696          6      20163        3644   57.1
## 6712          6       6626       13467   45.7
## 6736          5       8905       38466   11.6
## 6750         10       6129        4945   47.9
## 6782          6       6070       48154   31.3
```

```
## 6784                 3      16274          2015     4.0
## 6793                 4     114973           260    95.7
## 6815                 5      12933         24118    39.6
## 6833                 4       2427          6061    46.4
## 6854                 1       8526          3375    81.3
## 6855                 6      20706          6166    59.4
## 6878                14      10520          3291     8.6
## 6879                 2      13854          8597    33.9
## 6884                 3       1064         11362    43.2
## 6906                 5       2632         41437    30.1
## 6922                 4       2060         18835    45.6
## 6936                 2      17090          4781    52.2
## 6950                 4      78025         21866    42.6
## 6964                 6      11385          2808    69.5
## 6984                 6      16478           432    94.2
## 6985                 8      12097          9063    47.3
## 6993                11      17871         80657    32.3
## 7000                 4      62750          2576    38.7
## 7021                10       1655         10478    47.6
## 7027                 2       2627          2385    27.7
## 7034                 1      24858         30703    39.8
## 7038                 4      33453         13091    67.4
## 7039                 4      10829          8744    77.8
## 7043                 0      69500          1280    88.3
## 7068                 7      15052          3220    54.6
## 7081                 3       6518         13382    39.2
## 7095                 7       2977         15422    29.9
## 7096                 4      51319          4302    56.1
## 7099                 6       3366           745    92.5
## 7111                 8      37676          2611    53.4
## 7115                 7      15435         18796    41.6
## 7132                 9      27609         23841    44.8
## 7133                 9      19897          3387    24.7
## 7147                 5      18072         52459    40.9
## 7158                 2      21417          1478    70.4
## 7167                 3      35118           393    97.0
## 7168                 9       2760         27589    31.5
## 7169                 3      54055          3423    72.6
## 7188                 2       2676         14669    11.1
## 7193                 4      53757            23    98.9
## 7232                 8      24817          7335    56.6
## 7237                 9       4411          5746    30.8
## 7249                 4      44729          5456    68.1
## 7255                 5       8315         24336    28.4
## 7262                12       2485          5546    39.7
## 7279                 4       1635          1203    61.2
## 7302                 3       3172          9116    53.3
## 7310                12      22326        217187     4.0
## 7323                10      52146         15388    53.4
## 7344                 6       3433          8841    52.2
## 7353                 5      11917          2340    76.6
## 7355                 3       5510          1479    78.3
## 7426                 4       4972          2447    82.5
## 7445                 5       6301           170    95.8
## 7446                 2       2112          3262    54.1
## 7460                 4      48444           893    92.6
## 7465                 2       5934         28812    34.8
## 7474                 1      19099         13447    24.9
## 7479                 5       5473          9454    51.8
## 7485                10       6300         59117    16.6
## 7530                 4       4069          2925    64.3
## 7533                 1      10157          1174     2.2
## 7538                 3      24688          4189    57.3
## 7555                14      23285         32232     9.2
## 7562                 5      12211         10619    12.0
## 7564                 1       4638         11246    16.7
## 7579                 6      17532         96557    15.6
## 7591                 5       2762          2356    82.8
## 7594                 6        536         17100     0.0
## 7612                 4       7738         18401    40.1
## 7619                10       3874         17169    10.1
## 7621                 1      10572         11882    86.7
## 7704                 4       6309          5789    74.5
## 7715                 7      24303         10251    54.4
## 7737                 6      24722             0   101.7
## 7777                 8      26501          9840    65.8
## 7792                11      64378           250    93.4
## 7794                 4      21716          5603    69.0
## 7824                 8      27356         59721    17.7
## 7828                 3       6262           190    91.7
## 7833                 8       3033         40130    25.8
## 7838                 4       3282          6483    43.6
## 7840                 9       1148         13845    29.7
## 7882                 3       3808          4140    67.9
## 7893                 3      25970         35638    44.7
## 7900                 5       9905         37191    48.4
## 7910                12       6986         10685    57.4
## 7925                 1      18777         36368    27.0
## 7945                 2       6815          8714    79.7
## 7963                 6       1705         10669    39.4
## 7972                 4       3642          2069    73.5
## 7980                10       2110         18069    14.8
## 7985                 0       5928         13100    25.1
## 8006                 6      11310         26306    39.8
## 8009                 8      26434         18962    24.2
## 8024                 7       2924         17929    43.8
## 8042                 3       2608          3305    59.7
## 8046                 2       3102          9163    67.4
```

```
## 8047                 3       18284          3225    73.3
## 8080                 5       14390          1486    95.9
## 8086                 1       16526         10592    14.6
## 8111                 5       22379         10000    55.0
## 8125                 8        2343         13541    12.1
## 8140                 8       15059         30005    36.0
## 8148                 4        5685          6254    54.0
## 8154                 8       17945         24369    31.5
## 8174                14       16591         44013    17.0
## 8192                13         397          6564     7.5
## 8261                 2       23455          2100    79.0
## 8269                 4       15985           451     9.8
## 8275                 4       12510          5722    68.6
## 8287                 9       19010          2523    61.8
## 8303                 7       44800         11231    52.0
## 8304                 5       30312         23473    25.0
## 8339                10       23476         18918    12.8
## 8352                17       15906          4228    71.4
## 8370                 4        1371          7627    42.7
## 8384                 3        3689         12241     2.1
## 8388                 6       18019          9542    46.4
## 8400                 8       47736         10346    55.4
## 8420                 2        4785         12337    54.3
## 8432                 5        2981         14210    34.8
## 8439                 5        3159          3143    28.6
## 8440                 3        5806          7820    49.5
## 8444                10        5694           701    12.4
## 8455                10        7712         25829     9.2
## 8457                 2        2755            55    81.7
## 8460                 3        4743          2531    72.8
## 8466                 5       43948          6390    37.4
## 8478                 7       18891          8384    64.8
## 8485                 6       26042         55756    11.1
## 8494                 4       14492          1724    13.8
## 8495                15       13554         51374    33.0
## 8503                12       31044          1842    63.9
## 8520                 5        5496          2439    30.3
## 8546                 1       39582          4188    47.6
## 8548                 8        4363          7231    59.4
## 8562                 6        5513           951    76.8
## 8577                16        5097         10598     7.8
## 8582                 8       16739         11059    23.7
## 8584                 2       11914         10331    51.9
## 8593                 1        8635          9180    70.3
## 8597                 5       25548           120    92.9
## 8601                 4        1609         34217    19.5
## 8603                10        1191          1961    63.0
## 8645                 0       39145           167    97.5
## 8659                 6       22906         13879    11.6
## 8679                 8       42205         10882    55.8
## 8682                 5       21832         11485    41.7
## 8691                 1       15915          7566    70.1
## 8695                29        1436          9522    39.4
## 8698                13        1923         11184    46.2
## 8725                11        9942          9984     0.2
## 8730                 4       11369           213    96.6
## 8733                 6       36476           642    97.0
## 8734                 1        9330            69    98.1
## 8748                 3        2057           458    80.9
## 8755                 4        3466         33193     5.4
## 8774                 6        4601         10328    70.8
## 8784                 6        1360          5499    43.3
## 8789                 5       10177         11623    42.5
## 8799                11        2458          8515    36.0
## 8813                 5       11229         18387    54.0
## 8815                 6       13474          2064    74.2
## 8827                 5       30210         18504    38.3
## 8829                 3       28624          4285    52.4
## 8833                 2        4138          6382    48.1
## 8836                 1       23222          8860    52.4
## 8842                 5       15577         10303    27.4
## 8849                 6       14136          6796    48.5
## 8863                 6       55941          6000     0.0
## 8879                 6       44973          9877    31.9
## 8886                 4        9785          6302     4.5
## 8889                 3       15754          5581    14.1
## 8930                 1        3812           766    72.6
## 8934                 3       92062           266    98.3
## 8936                 4        8799         38399    14.3
## 8940                 6        3523         32884    36.1
## 8949                 5        5536         48151    11.3
## 8952                 3       34873          8683    33.2
## 8954                 7       13703           540    96.6
## 8996                11       11231         11049    60.7
## 9028                 2       13735            80    96.8
## 9029                 3        1860          2937     5.3
## 9039                 8        7447           347    92.3
## 9043                 4       11698         16209    42.7
## 9044                10        7710         26150    40.0
## 9046                 2        7593          7618    48.2
## 9062                 7       43394          7887     0.2
## 9065                10       11983         74090     7.3
## 9144                 6        4027         12352    22.8
## 9172                10       44444         60468    13.0
## 9184                 4        4874         41640     1.3
## 9201                15        3824         35680     1.4
## 9213                 1        1342           476    94.7
## 9224                 3        6709          1969    71.9
```

```
## 9233                    13        6046          27983    19.1
## 9239                     2       39997           4289    82.2
## 9256                     8        8240          10574    37.4
## 9260                     2         612          20134    11.7
## 9272                    10       44972           4225    54.6
## 9279                     6       22372           3572    59.9
## 9290                     2        7220           7013    57.8
## 9302                     4        2250           2362    26.2
## 9308                    11       14426           5318    54.9
## 9315                     5       34836          70132    36.6
## 9320                     2        1929           3425    78.6
## 9341                     9       31006          39734    37.0
## 9379                     4        6907           6302    76.6
## 9400                     3        2438           1736    77.7
## 9418                     5       44686           3294    95.1
## 9437                    13       18582           9531    33.8
## 9477                     1        2445          39027    27.1
## 9495                     4        5714             91    97.7
## 9496                    10       14508          65754     0.4
## 9505                     6       19277          14546    53.2
## 9532                     9       16911           4487    69.7
## 9538                     4         384           3395     3.0
## 9583                     8        3633           5432    39.6
## 9585                     3       18667           1851    28.8
## 9597                     2        1688            648    84.2
## 9608                     6       23491           6630    23.8
## 9620                     3        3402          11651    34.2
## 9661                    12        6460           3738    77.9
## 9687                     7       31624          10039    62.1
## 9693                    11       48080            777    96.9
## 9703                     2       36770            367    71.8
## 9709                     3       15747           1500     0.0
## 9726                     0        1436          10466     4.9
## 9805                     3        2996           9000     0.0
## 9806                     2       18784           2502    54.5
## 9809                     5        3673            832    91.4
## 9824                     3       28146          12840    33.1
## 9826                     4       19921          10660    46.2
## 9837                     6        1564          34203    14.1
## 9841                     4        8607          11061    10.1
## 9844                     2       16326          21716    29.7
## 9849                     6       21691          21132    31.2
## 9912                     6       13826            829    93.1
## 9925                     6       38206          11848    47.6
## 9926                     8       11828          40789    22.0
## 9933                     2        3385           1362    94.6
## 9937                    10        1398          18379     0.1
## 9941                     7        2453          17708    16.9
## 9951                     7       13106           7347    80.7
## 9960                     6       21781           3391    13.1
## 9987                     7       25264           7697    54.7
## 9997                     3       23715             70    97.1
## 10003                    1        6887          18041    71.7
## 10010                    6       22749           3000     0.0
## 11011                    7       17473           8304    50.0
## 10047                    9         718           1996    79.8
## 10050                    4       25501           2733    87.0
## 10093                   18        1631           4446    54.6
## 10104                    8        9566          40939     3.4
## 10111                    6       29876           3956    66.2
## 10131                    9        6695          23764    42.3
## 10137                    6        3234           1422    59.4
## 10144                    8       27524          14571    40.8
## 10169                    8       13605           4671    69.3
## 10172                   13         146          63455     1.5
## 10176                    5       62525           8322    50.8
## 10184                    5       51755           5735    86.1
## 10202                    5       17017           4283    14.3
## 10209                    5        3768           1520    82.7
## 10215                    8       11833          23495    36.7
## 10242                    3        7787           3572    57.0
## 10248                   15       11340           7197    35.7
## 10267                    6       10651          16719    48.9
## 10275                    2       31393           3786    12.0
## 10276                    6        1855          17372     2.4
##       chargeoff_within_12_mths delinq_amnt mo_sin_old_il_acct
## 35                           0           0                159
## 54                           0           0                120
## 59                           0           0                112
## 60                           0           0                128
## 71                           0           0                139
## 73                           0           0                128
## 74                           0           0                109
## 90                           0           0                198
## 101                          0           0                137
## 124                          0           0                151
## 137                          0           0                138
## 142                          0           0                151
## 143                          0           0                137
## 160                          0           0                143
## 161                          0           0                138
## 165                          0           0                223
## 174                          0           0                180
## 192                          0           0                265
## 193                          0           0                 84
## 206                          0           0                137
## 212                          0           0                149
## 218                          0           0                147
```

```
## 229                    0          0              175
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## 377                    0          0               93
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## 497                    0          0              114
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## 1105                   0          0              169
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## 1388                   0          0               51
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## 1434                   0          0              137
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## 1449                   0          0              150
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## 1650                    0          0              160
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## 2447                    0          0              122
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## 2494                    0          0              174
```

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## 2715                    0          0              168
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## 2978                    0          0              152
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## 3504                    0          0                8
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## 3536                    0          0              144
## 3538                    0          0              111
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## 3553                    0          0              141
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## 3590                    0          0              228
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## 3712                    0          0               52
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## 3756                    0          0              119
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## 3771                    0          0              183
## 3785                    0          0              131
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## 3852                    0          0              115
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## 3865                    0          0               89
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## 4934                    0          0              145
## 4951                    0          0               28
## 4958                    0          0               95
## 4985                    0          0              161
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## 5021                    0          0              161
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## 6237                    0          0              162
## 6247                    0          0              154
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## 8457                    0          0                75
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## 8494                    0          0               140
```

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## 9144                    0          0               42
## 9172                    0          0               97
## 9184                    0          0               52
## 9201                    0          0              172
## 9213                    0          0              137
## 9224                    0          0              128
## 9233                    0          0               45
## 9239                    0          0              229
## 9256                    0          0              163
## 9260                    0          0              151
## 9272                    0          0              130
## 9279                    0          0              151
## 9290                    0          0              138
## 9302                    0          0              130
## 9308                    0          0              132
## 9315                    0          0               30
## 9320                    0          0               84
## 9341                    0          0              137
## 9379                    0          0              116
## 9400                    0          0              139
## 9418                    0          0              209
## 9437                    0          0               31
## 9477                    0          0              314
## 9495                    0          0              142
## 9496                    0          0              176
## 9505                    0          0              223
## 9532                    0          0              139
## 9538                    0          0               47
## 9583                    0          0              174
## 9585                    0          0               26
## 9597                    0          0              139
## 9608                    0          0               71
## 9620                    0          0              120
## 9661                    0          0              125
## 9687                    0          0               95
## 9693                    0          0              132
## 9703                    0          0              128
## 9709                    0          0              129
## 9726                    0          0              145
## 9805                    0          0               86
```

```
## 9806                        0           0                117
## 9809                        0           0                135
## 9824                        0           0                 13
## 9826                        0           0                166
## 9837                        0           0                 88
## 9841                        0           0                 98
## 9844                        0           0                122
## 9849                        0           0                179
## 9912                        0           0                 71
## 9925                        0           0                143
## 9926                        0           0                164
## 9933                        0           0                138
## 9937                        0           0                139
## 9941                        0           0                 67
## 9951                        0           0                159
## 9960                        0           0                106
## 9987                        0           0                104
## 9997                        0           0                 61
## 10003                       0           0                160
## 10010                       0           0                139
## 10011                       0           0                 30
## 10047                       0           0                 40
## 10050                       0           0                134
## 10093                       0           0                122
## 10104                       0           0                162
## 10111                       0           0                174
## 10131                       0           0                162
## 10137                       0           0                152
## 10144                       0           0                138
## 10169                       0           0                180
## 10172                       0           0                119
## 10176                       0           0                137
## 10184                       0           0                 77
## 10202                       0           0                122
## 10209                       0           0                 55
## 10215                       0           0                182
## 10242                       0           0                 37
## 10248                       0           0                123
## 10267                       0           0                138
## 10275                       0           0                129
## 10276                       0           0                122
##       mo_sin_old_rev_tl_op mo_sin_rcnt_rev_tl_op mo_sin_rcnt_tl mort_acc
## 35                     176                    25              2        0
## 54                     141                    41             19        1
## 59                     109                     3              2        0
## 60                     171                     2              2        5
## 71                     241                    20             11        0
## 73                     223                    15             15        2
## 74                     133                    18             18        0
## 90                     144                     6              5        0
## 101                    122                    20              8        3
## 124                    159                     7              2        2
## 137                    313                     4              4        0
## 142                    135                    27              5        1
## 143                    227                     5              5        2
## 160                     56                     1              1        0
## 161                     63                     7              7        0
## 165                    156                     4              4        0
## 174                    221                     5              5        3
## 192                    272                    11             11        1
## 193                    271                     5              5        2
## 206                     76                    15              2        3
## 212                    270                     4              4        3
## 218                    143                     6              6        2
## 229                    208                     0              0        2
## 232                     77                     4              4        4
## 234                     97                     8              3        0
## 236                    130                     0              0        0
## 246                    183                     4              4        3
## 247                    235                    32             24        0
## 262                    199                     1              1        1
## 285                    203                     3              3        0
## 296                    155                     3              3        0
## 302                    131                     5              2        0
## 304                    112                     8              3        0
## 324                    153                     8              8        0
## 326                    142                     5              5        0
## 328                    100                    30              5        4
## 329                     89                    17              1        0
## 330                    300                    12             12        0
## 338                    159                     1              1        0
## 353                     88                     0              0        2
## 357                    217                     8              7        0
## 361                     99                    12             12        0
## 370                    216                     4              4        0
## 377                    183                    10             10        3
## 382                    168                     2              2        2
## 410                    347                    11             11        2
## 428                    269                    10             10        0
## 450                    207                    20              8        1
## 465                    102                    28             16        3
## 466                    173                    15              7        0
## 471                     74                     2              2        1
## 479                    102                    16             16        2
## 485                    189                     2              2        0
## 491                    206                    27              7        2
## 496                    187                    11              1        4
## 497                    141                    15             15        2
```

```
## 499          179          62          17          2
## 548          196           1           1          2
## 558           35           4           4          0
## 570           30           3           3          2
## 577          141           6           6          3
## 579          329          13          13          1
## 608          243          12           2          7
## 626          144           8           5          1
## 634           95           2           2          0
## 636          145           9           9          0
## 641          165           3           3          3
## 658          101          51           4          1
## 660          440          71          29          5
## 670          170           3           3          0
## 674           56           6           3          2
## 689          123          10          10          3
## 696          130           8           8          3
## 705          217           4           4          0
## 713          142          10          10          4
## 752          153          24          24          0
## 790          184           8           8          5
## 799          144          14           4          0
## 819           43           8           8          2
## 840          139           5           5          0
## 844          295           3           3          0
## 845          163           3           3          5
## 855          164          11           3          7
## 866          345          34          19          4
## 869          142          42           5          0
## 899          100           3           2          3
## 904          153          16           4          0
## 917          276          37           4          3
## 940          149           9           9          2
## 957          141          14          11          3
## 960          147          10          10          2
## 993          200           5           5          3
## 998          219           2           2          0
## 1025         161          40          12          1
## 1056          39           3           3          1
## 1063         100           2           2          0
## 1083         156           8           3          1
## 1105         205          11          11          2
## 1117         421           8           1          0
## 1118         113          69          10          0
## 1146         330          42           9          2
## 1170         139           8           8          1
## 1227         145           7           5          4
## 1263          15           1           1          2
## 1264         598           2           2          3
## 1273         502          14           1          1
## 1285         343           2           2          4
## 1319         554           5           5          5
## 1337         126           4           4          3
## 1349         175           1           1          1
## 1351         201           2           2          0
## 1356          84           4           4          0
## 1386         171          34           4          2
## 1388         214           7           7          0
## 1390         573           2           2          3
## 1410         348          29           6          1
## 1416         188           5           3          5
## 1434         261          10          10          0
## 1439          64           4           4          0
## 1449         228           2           2          3
## 1459          62           4           4          0
## 1462         158           2           2          1
## 1480          82          24          20          0
## 1484          81           2           2          0
## 1487         182          47           5          0
## 1527          73           5           5          0
## 1529         190           6           6          0
## 1530         137           1           1          0
## 1545         360           1           1          1
## 1567         163           1           1          2
## 1597         275           4           3          2
## 1601         192           6           6          3
## 1623         141          33          28          0
## 1633         157          27           9          3
## 1636         332          43           9          4
## 1640         365          68           5          2
## 1645          75          16           2          2
## 1650         224           3           3          1
## 1671         165           2           2          1
## 1672         155           8           8          1
## 1696         116          11          11          1
## 1704         158          16           7          1
## 1721         299          72          19          3
## 1724         123          31           3          1
## 1728         357           2           2          0
## 1730         166          12          12          2
## 1734          43          20          11          0
## 1752         227           8           8          0
## 1771         101          35           7          0
## 1816         248           2           2          0
## 1846         183           4           4          6
## 1850          68          14           8          3
## 1853         153           7           2          8
## 1856         174           4           4          8
```

```
## 1857          141          19          10          5
## 1862          336           9           9          4
## 1865           78          23           2          0
## 1866          251           7           5          1
## 1867          249          27           8          5
## 1896          141          16           1          2
## 1905           81          30           4          0
## 1907           44           1           1          0
## 1922           61          26           1          1
## 1930           99           5           5          0
## 1933          302          18          10          4
## 1952          419           6           6          2
## 1956          135           1           1          0
## 1961          208           2           2          3
## 1963          160           2           1          0
## 2004          222          17           4          1
## 2012          280          17           8          5
## 2017          121          28          17          0
## 2019          317          33          17          3
## 2026          303           3           3          2
## 2027          147          16           7          2
## 2039          198           9           9          1
## 2041          153          11           3          0
## 2051          238           2           2          3
## 2060          127          16           3          2
## 2065           93           9           9          0
## 2073          307           6           6          9
## 2105          288          13           1          1
## 2117          305           5           5          2
## 2128          428           4           4          3
## 2129           74           1           1          5
## 2136           27           1           1          0
## 2137          181           4           2          3
## 2148          161          44           2          2
## 2155          200          22           7          3
## 2168          177          10           3          4
## 2197          132          23           9          5
## 2215          323           8           8          5
## 2224          171           6           6          2
## 2234          142           6           4          1
## 2255          144           3           3          5
## 2258          114          13           7          0
## 2286          170          11          11          2
## 2296          235          10           1          0
## 2329          115           3           3          0
## 2342           84           2           2          0
## 2347          250           5           5          2
## 2357          139          44           2          7
## 2377          166          15          14          0
## 2393          129           7           2          3
## 2396          199           4           4          4
## 2399           81           5           5          0
## 2405          212          12           2          5
## 2420          346           6           6          5
## 2425           33          14          14          1
## 2429           77           3           3          0
## 2439           88           7           7          0
## 2447          136          12           7          0
## 2449           65          28          13          1
## 2457          155           1           1          4
## 2478          336           3           3          3
## 2480          291           8           8          3
## 2492          281           5           5          0
## 2494          252           7           4          2
## 2504          132          13          13          1
## 2510          142           8           1          3
## 2514          165          59           8          0
## 2516          201           8           8          0
## 2522          290           0           0          1
## 2529          273           1           1          2
## 2535           92           1           1          0
## 2545          179           6           1          2
## 2549          186           0           0          4
## 2593          163          62          10          1
## 2598           72           1           1          3
## 2604          242           0           0          1
## 2628          189          32          25          6
## 2631          140           2           2          0
## 2661          397          14           1          4
## 2673          129           7           7          1
## 2692          208           9           8          2
## 2707          287          13          10          1
## 2714          221          29          15          5
## 2715          131          33           5          7
## 2761          133          10          10          1
## 2772           79          34           8          3
## 2788          159           1           1          2
## 2789          189           8           7          1
## 2820          149          20          10          5
## 2840          198           4           4          3
## 2856          218           6           6          3
## 2858          193           2           2          3
## 2861          136           4           4          2
## 2872          136          21          11          0
## 2877          145           2           2          6
## 2878          395           1           1          2
## 2879          142          12           5          0
## 2893           72           2           2          0
```

```
## 2913          167          11          9        1
## 2915          279          80         19        6
## 2918          175           1          1        1
## 2940          178           2          2        2
## 2942          219          15         13        4
## 2954          148           7          7        3
## 2976           63           8          7        0
## 2977          258           2          2        3
## 2978          266           3          3        6
## 2982          255           5          2        0
## 3002          174          12          2        1
## 3012          162           3          3        1
## 3017          274           8          4        0
## 3018           98           6          3        0
## 3021          181          20          3        1
## 3034          459           7          7        2
## 3045          208          26          9        3
## 3050          399           2          2        5
## 3057           52           9          9        0
## 3071          348          13         13        5
## 3104          191          33         30        0
## 3112          239          37         35        0
## 3124          147           5          5        5
## 3150          392          32          5        7
## 3160          130           4          4        3
## 3165          203           5          5        1
## 3172          187           3          1        3
## 3177          163          23         19        2
## 3213          144          10          8        0
## 3222          120          14         11        0
## 3237          157           3          3        0
## 3252          354           3          3        0
## 3257          198           7          7        0
## 3258          130           7          7        0
## 3265          204          13         13        1
## 3276          268          23          3        4
## 3289          135           6          6        1
## 3307          166           3          3        6
## 3312           87           6          6        1
## 3317          386          11          9        2
## 3333          349           9          9        6
## 3366          237          16          5        5
## 3383          295          31          1        5
## 3419           82          11          9        5
## 3421          196           2          2        2
## 3422          106          29         23        2
## 3429          171           8          2        2
## 3433          291           4          3        3
## 3449          343          24          6        3
## 3458          152          12         12        0
## 3467           86           4          3        1
## 3471          131          10         10        0
## 3480          182           3          1        3
## 3482          119           3          3        1
## 3502          155           6          6        0
## 3504          265          32          3        0
## 3507          131           8          8        2
## 3536          210           5          5        2
## 3538          101           5          5        0
## 3542          135           3          3        3
## 3547           75           3          3        0
## 3553          154          26          5        3
## 3567           69          16          8        0
## 3590          101           1          1        1
## 3607          316           4          2        2
## 3623          126           2          2        4
## 3635          212          15         10        0
## 3655          183          11         11        1
## 3684           51           9          9        0
## 3687          253          15         10        6
## 3688          360          16          3        2
## 3699          226          16          3        4
## 3701          135           6          6        1
## 3712          268           1          1        3
## 3730          101           3          3        2
## 3749          163           8          2        2
## 3756          322           1          1        2
## 3758          198           3          1        2
## 3771           83           6          6        1
## 3785          147           7          7        1
## 3788          161           7          7        0
## 3852          155           3          3        1
## 3857           96           5          5        0
## 3865          107           2          2        1
## 3889          249          66          3        5
## 3892          210           4          4        0
## 3901          243           9          4        2
## 3917          238          16          6        0
## 3924           37           7          7        0
## 3938          143           2          2        3
## 3947          179          33         11        2
## 3949           28          10         10        0
## 3959          122           4          4        1
## 3977           96          49         18        2
## 3990          291           1          1        1
## 4001           96           6          6        0
## 4003          226           2          2        5
## 4016          182           6          2        2
```

```
## 4017          87          1          1        1
## 4021         213         14         11        7
## 4022         275          4          4        0
## 4026         316          6          2        2
## 4036          61         16         16        0
## 4049         252          9          7        6
## 4054         148          3          3        1
## 4093         131          1          1        0
## 4099         161          4          4        5
## 4104         153         38          4        1
## 4107          50         42          5        0
## 4110         368          5          5        1
## 4122          44         21         17        1
## 4128          38         11          1        2
## 4131         320        132         20        5
## 4133         276         33         11        5
## 4135         145         22          3        0
## 4151         111          6          6        1
## 4153         356         22          3        3
## 4157         138          2          2        6
## 4233         171         19         15        3
## 4237          95          4          4        0
## 4254         188         28         28        3
## 4258          65         19          7        0
## 4259          28         13          2        4
## 4261         282         16         16        0
## 4265         150         13          2        2
## 4269         247          3          3        1
## 4297         146          2          2        2
## 4307         303          6          3        1
## 4341         224         13          5        4
## 4342         217          7          7        1
## 4351         375          6          6        3
## 4352         183         11         11        4
## 4376         180          4          2        2
## 4395         180          3          3        0
## 4412         191          2          2        2
## 4414         265          6          6        3
## 4448         165         48         33        1
## 4466         130          8          5        0
## 4476         124         32         12        0
## 4477         107         20          7        1
## 4498          93         18          7        2
## 4501         382         10          4        0
## 4506         320          4          4        4
## 4517         175         14          4        2
## 4524          69         14          6        0
## 4532          68          6          5        0
## 4539         146          4          4        2
## 4552         147          4          4        1
## 4565         246         12         12        0
## 4580          66         14         14        0
## 4584         132         16          5        4
## 4586         281          3          3        4
## 4611         178         11         11        4
## 4632         163          2          2        6
## 4682          40          8          4        1
## 4688         199          3          3        1
## 4692         135          3          3        0
## 4712         207         12          9        1
## 4743         156          7          7        0
## 4758         120          6          6        0
## 4769         142         13          9        1
## 4774         193         22          4        5
## 4775         376         14          7        2
## 4786         142         26          8        1
## 4791         112          8          2        1
## 4792         391         12         12        0
## 4797          44          5          5        3
## 4801          38          2          2        2
## 4816         137          0          0        2
## 4818         288          0          0        0
## 4832         151          1          1        0
## 4834         230         16          9        5
## 4880         109         19         19        1
## 4921         390        155          5        0
## 4922         288          2          2        3
## 4934         167         44         14        1
## 4951          36          7          7        0
## 4958         114          5          5        0
## 4985         222          6          5        0
## 5010          51          5          5        4
## 5021         151          1          1        0
## 5035         223          0          0        1
## 5036         174         10          1        1
## 5038         126          5          5        0
## 5059         230          8          6        2
## 5060         333          6          6        6
## 5070          71          5          4        0
## 5103         159          4          4        1
## 5134         115          5          5        3
## 5136          85         31          3        3
## 5155         289          2          2        2
## 5157         311          2          2        6
## 5162          39          3          3        0
## 5163         462          7          7        8
## 5168          31          8          8        0
## 5169         141          3          3        0
```

```
## 5177          226          46          15          0
## 5184          476           2           2          3
## 5186          175          18           3          0
## 5218          196          17          15          3
## 5220           42           8           3          3
## 5221          123           9           2          1
## 5244          253           6           2          0
## 5255          164          12          12          0
## 5278          306          21          10          2
## 5295          160           1           1          0
## 5317           57           5           3          2
## 5325           99          10          10          0
## 5345          139          22           8          0
## 5348          317           6           3          3
## 5354          147           9           5          1
## 5356          102           2           2          0
## 5358          131           6           6          1
## 5365          109          14           4          2
## 5379           55          13          13          0
## 5390          414           2           2          5
## 5406          128           2           1          1
## 5416          409          22          12          4
## 5431           70          12           9          0
## 5442          146          36           2          0
## 5467          151           7           7          2
## 5494          159           5           5          1
## 5554          124          26          26          2
## 5556           41           1           1          0
## 5565          260           4           4          0
## 5566          137           8           8          2
## 5568          129           3           3          0
## 5574          267          36           1          0
## 5597          101          16           3          1
## 5621           68           2           2          4
## 5623          213          12           6          0
## 5643          168           5           2          0
## 5664          306          19          19          2
## 5666           30           0           0          0
## 5720          196           9           6          1
## 5731          413           4           4          2
## 5733          183           7           7          0
## 5734          250          25          22          0
## 5749          112          16           4          0
## 5759          385           8           8          4
## 5760          143           5           4          2
## 5784           57          48          13          0
## 5786          164           1           1          1
## 5794          166           2           2          1
## 5806          282           2           2          4
## 5809          178           4           4          1
## 5827          354          13          13          0
## 5848          119          20          19          2
## 5849          334          15           1          2
## 5860          208           3           3          1
## 5874          262           7           7          2
## 5876           54           2           2          0
## 5886          293          10          10          2
## 5923          290           2           2          0
## 5948          297           1           1          5
## 5962          213           9           6          6
## 5974          124          13          12          0
## 6002          221           7           4          2
## 6051           53          18          18          1
## 6057          149           6           3          2
## 6083          176          24          15          3
## 6097          196           7           7          3
## 6126           34           7           7          0
## 6157          146          22          13          2
## 6159          170          11          11          1
## 6164          122          34           3          1
## 6165          256           5           5          0
## 6174           80          18          18          0
## 6183          123           2           2          5
## 6196          384           2           2          4
## 6203          238           9           9          0
## 6204          266          30           5          1
## 6207          101          23          23          0
## 6209          174          13           8          1
## 6237          231          19           4          3
## 6247          120          17          12          1
## 6250          159           5           2          1
## 6253          135           6           6          0
## 6289          137           8           8          0
## 6294          221          19          16          5
## 6298           55           2           2          1
## 6307          181           4           2          7
## 6316          247           4           1          3
## 6333           88          42          17          0
## 6352          157           6           6          1
## 6367          164          20           0          1
## 6388          144           5           5          1
## 6396           77          37          12          0
## 6402          195           3           3          6
## 6407          156          21           6          3
## 6410          170           2           2          1
## 6421          229           0           0          0
## 6422          142          11           9          0
## 6435           58           1           1          1
```

```
## 6449          142          12          7        0
## 6455          272           3          1        5
## 6456          117          16          5        0
## 6468          143          40          3        2
## 6470          166           4          4        3
## 6477          214          18         11        1
## 6490          269           1          1        0
## 6504          160          16         10        1
## 6505          215           6          6        2
## 6530           82           1          1        0
## 6533          179           3          3        0
## 6560          325           8          8        8
## 6570          229           0          0        3
## 6585          191          10          8        0
## 6599          296           5          1        0
## 6612           94          49         11        0
## 6617          156           4          4        1
## 6628          232           5          5        0
## 6642          209          25          4        0
## 6651          151           2          2        5
## 6653          173          18          8        2
## 6660          183           3          3        3
## 6673          252           1          1        2
## 6675          161          12         11        1
## 6680          421          50         29        1
## 6696          149           1          1        3
## 6712          137           2          2        0
## 6736          104           5          5        2
## 6750           32           1          1        0
## 6782          236          12          6        3
## 6784           40           9          6        2
## 6793          140          10         10        7
## 6815           85          15         13        1
## 6833          131           6          6        0
## 6854           68          24         24        0
## 6855          123           6          2        0
## 6878          242           5          5        3
## 6879          294          11         11        0
## 6884          424           6          6        0
## 6906          195           2          2        0
## 6922          305          22         20        0
## 6936          204          41          8        1
## 6950          336          57          1       10
## 6964          189           3          3        0
## 6984          247          31          3        4
## 6985          210           4          4        1
## 6993          491           2          2        4
## 7000          311           1          1        3
## 7021          145           2          2        0
## 7027           96          15         15        0
## 7034          154          37         23        3
## 7038          278           3          3        4
## 7039          148          15         15        3
## 7043          303         126         30        3
## 7068          222           1          1        4
## 7081          104          19         17        1
## 7095           59           1          1        0
## 7096          237           4          4        2
## 7099          134           3          3        0
## 7111           16           3          1        1
## 7115          120          10          4        4
## 7132          101           4          4        3
## 7133          147           7          4        1
## 7147          232          17         17        6
## 7158          164          31          2        1
## 7167          155          48          1        3
## 7168          227           4          4        1
## 7169          199           7          7        1
## 7188          267           3          3        0
## 7193          220          13         13        5
## 7232          101           4          4        2
## 7237           41           1          1        0
## 7249          168          15         15        2
## 7255          181           4          4        1
## 7262          218           6          6        0
## 7279          212           6          6        0
## 7302          105           5          5        1
## 7310          282           3          3        6
## 7323          190          14          2        4
## 7344          119           4          4        0
## 7353           46          11         10        1
## 7355           52          17         17        0
## 7426          117          22         15        0
## 7445           94          10         10        4
## 7446           99          49          3        0
## 7460          185          15          7        8
## 7465          339           2          2        3
## 7474          336          27          1        4
## 7479          245          22          4        1
## 7485          135           3          3        0
## 7530          135           8          8        0
## 7533           44          12         12        0
## 7538          130          13         13        2
## 7555          132           4          4        2
## 7562          178           3          3        3
## 7564          210          28         18        2
## 7579          163           1          1        6
## 7591          114           8          8        0
```

```
## 7594          119          7          5        0
## 7612          227         14         13        1
## 7619          274          4          4        0
## 7621          302         44          6        3
## 7704          204          9          9        1
## 7715          286          4          4        4
## 7737          160         13          3        2
## 7777          146          4          4        4
## 7792          273          5          1        3
## 7794          155          5          3        2
## 7824          106         10          2        3
## 7828          105         20          1        0
## 7833          189          3          3        0
## 7838          154         37         10        0
## 7840           27          9          7        0
## 7882          129         15         15        0
## 7893          324         13          9        3
## 7900          189          9          2        4
## 7910          278          6          6        3
## 7925          214         48         13        3
## 7945          185          4          4        2
## 7963          139          8          8        2
## 7972           79          9          9        0
## 7980          145          4          4        0
## 7985           86         33         25        0
## 8006          350         15         14        2
## 8009          161          2          2        4
## 8024          156          3          3        0
## 8042          128         35          7        0
## 8046          126         37          6        0
## 8047          323          1          1        1
## 8080          379        128          6        6
## 8086          223         45         23        4
## 8111          174         39          5        2
## 8125           41         19          9        0
## 8140          193          3          3        1
## 8148          198         24         16        1
## 8154          208          3          3        1
## 8174           68          1          1        3
## 8192          115          4          4        0
## 8261          156         23         15        2
## 8269           39          1          1        0
## 8275          108         16          2        1
## 8287          167          7          7        5
## 8303          329          0          0        5
## 8304           86          3          3        1
## 8339          270          3          3        3
## 8352          341          5          4        4
## 8370           45         10         10        0
## 8384          163         44         19        0
## 8388          153         22          5        2
## 8400           74          3          3        3
## 8420          142         15         15        2
## 8432          134         10          6        2
## 8439           86          4          4        0
## 8440          203          4          4        3
## 8444           50         17          6        0
## 8455          147         10         10        8
## 8457          124         10          6        0
## 8460          158         20          5        1
## 8466          231          2          2        4
## 8478          116         10          8        2
## 8485          219          5          5        4
## 8494          184          4          4        2
## 8495          261          9          4        5
## 8503           33          3          3        1
## 8520           16          8          8        0
## 8546          142          6          6        4
## 8548          546          1          1        0
## 8562          106          3          3        0
## 8577          300          3          3        5
## 8582           27         11          3        2
## 8584          242         11          5        4
## 8593          177         13         13        0
## 8597          121         12         12        3
## 8601          162          8          8        0
## 8603          171         18          3        0
## 8645          177         43         42        2
## 8659          155          2          2        4
## 8679          241          6          6        6
## 8682          225          4          4        1
## 8691          136         52         19        0
## 8695           46          2          2        0
## 8698           85         19         16        0
## 8725           87          1          1        1
## 8730          155          5          3        1
## 8733          212          9          9        7
## 8734          204         22         22        1
## 8748           35          9          9        0
## 8755          335          1          1        2
## 8774          289          7          7        0
## 8784          168          3          3        0
## 8789          340         16         14        3
## 8799          335          7          2        1
## 8813          118          1          1        2
## 8815          240          0          0        5
## 8827          299         44         13       10
## 8829          163         18          9        0
```

```
## 8833          86          11          2        0
## 8836         319          33         21        4
## 8842         250           1          1        2
## 8849         186           9          9        1
## 8863         257          11          6        8
## 8879         291           4          4        3
## 8886         192           7          7        1
## 8889          99           4          4        3
## 8930         128           5          5        0
## 8934         263          15          9        2
## 8936          93          10         10        1
## 8940         225           6          6        1
## 8949         379           7          7        4
## 8952         225           5          5        2
## 8954         337          13          8        2
## 8996         129           1          1        4
## 9028         151          19         19        5
## 9029          84          20         16        0
## 9039         105          10          7        0
## 9043         137           5          5        1
## 9044         298          24          2        4
## 9046         256          24          2        1
## 9062         156           4          3        3
## 9065         370           2          2        1
## 9144         124           3          3        0
## 9172         217           3          3        3
## 9184         462           5          5        3
## 9201         130           0          0        0
## 9213         203          43         16        0
## 9224         307          20          6        0
## 9233          54           2          2        0
## 9239          79           2          2        2
## 9256         152          12          2        4
## 9260         221          10          9        0
## 9272          64          15          2        4
## 9279         216           6          4        5
## 9290         458           7          7        0
## 9302         198          12          1        0
## 9308         146           8          1        1
## 9315         187           9          4        3
## 9320         123          31         12        0
## 9341         131           5          5        2
## 9379         136          23         12        5
## 9400         269           2          2        2
## 9418         203          19          7        3
## 9437         118           1          1        2
## 9477         159          40          9        0
## 9495         171          14         14        2
## 9496         211          11          3        8
## 9505         174           9          9        2
## 9532         183           6          3        2
## 9538         331          11         11        0
## 9583          16           1          1        0
## 9585         131           4          4        1
## 9597         251          12         12        1
## 9608          45           0          0        2
## 9620          99          11         11        0
## 9661         132           8          7        0
## 9687          92           6          6        4
## 9693         175          16          4        4
## 9703         186          40         13        5
## 9709         148           6          6        1
## 9726         126          46         46        4
## 9805         235           3          3        0
## 9806         133           6          6        1
## 9809         499           3          3        0
## 9824         219          11         11        2
## 9826         135           2          2        2
## 9837         310           5          5        0
## 9841         175          40          3        2
## 9844         471           4          4        6
## 9849          69           3          3        3
## 9912         220          21          4        1
## 9925         137           6          6        2
## 9926         220           6          2        2
## 9933         149          27          6        0
## 9937         168           0          0        0
## 9941          88          22         22        2
## 9951         363           2          2        1
## 9960         159           4          2        3
## 9987         103           2          2        3
## 9997         132          27          4        5
## 10003        192          40          7        0
## 10010        137          11          8        4
## 10011        166          19          7        1
## 10047        385           4          4        0
## 10050        254          21          3        4
## 10093        172           3          3        0
## 10104        290           5          5        2
## 10111        165           1          1        3
## 10131        191           3          3        0
## 10137        125           3          3        0
## 10144        100           7          4        1
## 10169        192          14         11        3
## 10172        108           1          1        0
## 10176         81          31          1        1
## 10184        199          32          7        1
## 10202        258           8          8        4
```

```
## 10209                  83                     3              3        0
## 10215                 167                     6              6        1
## 10242                 396                    14             10        1
## 10248                  66                     7              6        4
## 10267                 144                     6              6        1
## 10275                 237                    18             14        6
## 10276                 170                     7              3        0
##       mths_since_recent_bc mths_since_recent_inq num_accts_ever_120_pd
## 35                      28                     2                     0
## 54                      41                    23                     0
## 59                       3                     0                     0
## 60                       2                     0                     0
## 71                      20                    11                     0
## 73                      56                    15                     1
## 74                      18                     8                     0
## 90                       6                     9                     0
## 101                     20                     9                     0
## 124                      7                     4                     1
## 137                      4                    18                     0
## 142                     31                     7                     2
## 143                      5                     4                     0
## 160                      9                     1                     1
## 161                     21                    14                     0
## 165                      4                     4                     1
## 174                      6                     0                     1
## 192                     24                    13                     8
## 193                      5                     5                     1
## 206                     15                     3                     0
## 212                      4                     4                     0
## 218                     22                     6                     0
## 229                    111                     0                     4
## 232                      6                     6                     0
## 234                     10                    15                     1
## 236                     27                     0                     1
## 246                     10                     4                     2
## 247                     70                     9                     1
## 262                      1                     1                     0
## 285                     12                    15                     2
## 296                      3                    12                     1
## 302                      5                     3                     1
## 304                      8                     3                     0
## 324                      8                     8                     0
## 326                      5                     6                     0
## 328                     78                     4                     0
## 329                     17                     3                     2
## 330                     12                    22                     5
## 338                     23                     0                     3
## 353                      0                     1                     1
## 357                      8                     7                     1
## 361                     26                     1                     1
## 370                     55                     2                     0
## 377                     10                     7                     0
## 382                      2                     4                     1
## 410                     18                    11                     2
## 428                     10                    14                     1
## 450                     20                     5                     1
## 465                     28                    16                     0
## 466                     20                     7                     4
## 471                      4                    11                    14
## 479                     16                     0                     2
## 485                     44                     2                     0
## 491                     27                     7                     0
## 496                     49                     1                     0
## 497                     18                     7                     0
## 499                     62                    17                     1
## 548                      1                    10                     0
## 558                      4                     0                     3
## 570                      4                     0                     1
## 577                      6                    13                     0
## 579                     19                     5                     0
## 608                     12                     4                     0
## 626                      8                     4                     3
## 634                      2                     2                     0
## 636                     29                     9                     0
## 641                     26                     3                     5
## 658                     87                     1                     5
## 660                    277                     2                     1
## 670                     21                    16                     8
## 674                      6                     4                     0
## 689                     10                     4                     0
## 696                      8                    13                     3
## 705                     12                    12                     0
## 713                     10                    14                     0
## 752                     24                    18                     0
## 790                     16                     4                     0
## 799                     14                    13                     4
## 819                     20                     8                     1
## 840                      5                     4                     1
## 844                     11                     0                     5
## 845                      3                    14                     0
## 855                     11                    11                     0
## 866                     34                     4                     2
## 869                     42                     2                     4
## 899                      3                    21                     0
## 904                     16                    17                    13
## 917                     67                     4                     0
## 940                      9                     1                     1
## 957                     58                    14                     3
```

```
## 960                 42                  4                  0
## 993                100                  3                  1
## 998                  8                 14                  0
## 1025                40                 17                  0
## 1056                 3                  3                  0
## 1063                 2                  1                  2
## 1083                23                  3                  0
## 1105                11                 11                  1
## 1117                 8                  1                  0
## 1118                69                  6                  0
## 1146                42                  9                  0
## 1170                25                  8                  1
## 1227                 7                  5                  7
## 1263                 1                  8                  1
## 1264                 2                  3                  4
## 1273                14                  1                  0
## 1285                 2                  9                  0
## 1319                 9                  8                  0
## 1337                61                  4                  2
## 1349                 1                  6                  3
## 1351                16                  2                  3
## 1356                 4                  3                  1
## 1386                34                  4                  1
## 1388                62                 14                  1
## 1390                63                  6                  2
## 1410               136                  6                  0
## 1416                 8                  3                  1
## 1434                27                 19                  1
## 1439                20                  1                  0
## 1449                 3                  2                  1
## 1459                 4                  4                  0
## 1462                 2                 22                  3
## 1480                27                  3                  0
## 1484                 2                  4                  0
## 1487                88                 12                  0
## 1527                17                  6                  1
## 1529                 6                  0                  2
## 1530                18                  1                  3
## 1545                 1                  9                  0
## 1567                 5                  1                  0
## 1597                 4                  1                  1
## 1601                 6                  2                  0
## 1623                43                  5                  0
## 1633                55                 12                  3
## 1636                49                  7                  3
## 1640               250                  3                  0
## 1645                16                  2                  1
## 1650                 3                  9                  0
## 1671                 9                  2                  0
## 1672                 8                  8                  1
## 1696                11                  1                  1
## 1704                16                  8                  1
## 1721                80                 19                  1
## 1724                31                  8                  0
## 1728                 2                  7                  4
## 1730                12                 16                  1
## 1734                43                  7                  0
## 1752                19                  1                  0
## 1771                35                  8                  0
## 1816                 2                  4                  2
## 1846                13                 10                  0
## 1850                14                  0                  0
## 1853                 7                  0                  0
## 1856                 5                  0                  0
## 1857                19                  2                  4
## 1862                 9                  5                  0
## 1865                23                  2                  1
## 1866                 7                  2                  0
## 1867                49                 10                  0
## 1896                16                  1                  1
## 1905                35                  5                  1
## 1907                 7                  1                  0
## 1922                26                  1                  2
## 1930                 5                  1                  0
## 1933                43                  6                  0
## 1952                 6                  3                  0
## 1956                 1                  4                  1
## 1961                 2                  2                  3
## 1963                 2                  3                  1
## 2004                22                  5                  0
## 2012                17                 12                  0
## 2017                46                 14                  2
## 2019                43                  9                  0
## 2026               132                  1                  1
## 2027                16                  8                  0
## 2039                 9                 17                  2
## 2041                11                 20                  0
## 2051                 2                  3                  0
## 2060                50                  7                  0
## 2065                35                 16                  0
## 2073                 6                  8                  0
## 2105                16                  1                  0
## 2117                14                 12                  2
## 2128                 4                 15                  0
## 2129                 4                  3                  0
## 2136                 5                  1                  1
## 2137                 4                  2                  0
## 2148               123                  0                  0
```

```
## 2155                25                 2                 0
## 2168                15                 1                 0
## 2197                34                 0                 0
## 2215                32                14                 0
## 2224                12                12                 0
## 2234                 6                 7                 1
## 2255                 3                 0                 1
## 2258                13                 0                 6
## 2286                11                 1                 0
## 2296                10                 1                 0
## 2329                 3                 3                 4
## 2342                 2                 8                 2
## 2347                 5                 4                 0
## 2357                49                 2                 0
## 2377                62                 8                 0
## 2393                 7                 1                 0
## 2396                 4                 6                 1
## 2399                 5                 4                 0
## 2405                12                 4                 1
## 2420                45                 6                 3
## 2425                14                14                 0
## 2429                14                 3                 0
## 2439                 7                 7                 0
## 2447                12                 0                 0
## 2449                28                15                 2
## 2457                 1                17                 3
## 2478                13                13                 0
## 2480                 8                13                 5
## 2492                 5                 5                 5
## 2494                 7                 3                 1
## 2504                13                13                 0
## 2510                24                 1                 0
## 2514                60                 3                 0
## 2516                 8                14                 1
## 2522                 0                 5                 3
## 2529                34                 4                 0
## 2535                 1                 5                 2
## 2545                 6                 2                 0
## 2549                 0                 0                 0
## 2593               125                11                 2
## 2598                 1                 1                 1
## 2604                 0                 1                 0
## 2628                32                 1                 0
## 2631                22                 2                 1
## 2661                14                 0                 0
## 2673                96                11                 3
## 2692                14                 3                 2
## 2707                22                10                 0
## 2714                41                 2                 0
## 2715                97                 6                 0
## 2761               101                10                 0
## 2772                34                 8                 0
## 2788                26                 4                 0
## 2789                17                 8                 1
## 2820                40                 7                 1
## 2840                 4                 4                 1
## 2856                 6                 6                 0
## 2858                 2                 0                 0
## 2861                36                 2                 0
## 2872                24                12                 2
## 2877                 2                 3                 0
## 2878                10                 1                 8
## 2879                12                 5                 0
## 2893                 2                 5                 0
## 2913                30                 9                 0
## 2915               163                10                 0
## 2918                 6                15                 1
## 2940                 2                 2                14
## 2942                15                13                 0
## 2954                40                 7                 3
## 2976                 8                 7                 0
## 2977                 2                 5                 0
## 2978                 3                 6                 0
## 2982                19                 2                 0
## 3002                12                 3                 1
## 3012                 4                 3                 0
## 3017                 8                 4                 1
## 3018                18                 6                 2
## 3021                20                 6                 0
## 3034                 7                 9                 0
## 3045                26                 7                 3
## 3050                 3                 2                 1
## 3057                 9                 9                 0
## 3071                13                 1                 7
## 3104                38                23                 1
## 3112                43                 5                 0
## 3124                36                 2                 1
## 3150                32                11                 1
## 3160                20                 4                 0
## 3165                 5                 0                 0
## 3172                 3                 1                 3
## 3177                23                19                 0
## 3213                10                 9                 0
## 3222                20                 5                 5
## 3237                 3                 8                 1
## 3252                64                 3                 2
## 3257                12                 0                 0
## 3258                 7                 0                 2
```

```
## 3265                42                 5                 0
## 3276                41                 2                 0
## 3289                44                11                 0
## 3307                24                 3                 0
## 3312                16                 7                 1
## 3317                11                 0                 0
## 3333                 9                12                 1
## 3366                16                 5                 0
## 3383                31                17                 0
## 3419                11                 9                 0
## 3421                 2                 3                 3
## 3422                29                23                 0
## 3429                 8                 3                 1
## 3433                 4                 3                 5
## 3449                30                 3                 0
## 3458                12                17                 1
## 3467                 4                 3                 1
## 3471                10                13                 0
## 3480                42                 1                 0
## 3482                 3                 7                 0
## 3502                 6                 9                 0
## 3504                32                 2                 0
## 3507                 8                 8                 1
## 3536               198                18                 0
## 3538                 5                16                 0
## 3542                 8                 0                 3
## 3547                 5                 3                 0
## 3553                26                 5                 4
## 3567                23                 8                 0
## 3590                 1                 3                 2
## 3607                 4                 2                 0
## 3623                 2                 3                 1
## 3635                15                10                 1
## 3655                11                 1                 0
## 3684                29                11                 0
## 3687                15                19                 0
## 3688                20                 5                 0
## 3699                18                 0                 0
## 3701                 6                 8                 0
## 3712                 1                 6                 0
## 3730                17                 3                 0
## 3749                26                 4                 0
## 3756                 1                 9                 7
## 3758                 3                 1                 0
## 3771                16                 9                 0
## 3785                 7                 1                 9
## 3788                12                11                 0
## 3852                 9                 3                 3
## 3857                 5                 7                 4
## 3865                 2                16                 1
## 3889                70                11                 1
## 3892                 9                 0                 2
## 3901                 9                 9                 0
## 3917                25                 6                 1
## 3924                 7                 3                 1
## 3938                31                 3                 6
## 3947                36                11                 2
## 3949                10                18                 1
## 3959                 6                 4                 2
## 3977                49                 3                 1
## 3990                 1                15                 0
## 4001                10                10                 0
## 4003                 2                 6                 0
## 4016                 6                 4                 1
## 4017                 1                 1                 0
## 4021               142                 4                 2
## 4022                 4                11                 0
## 4026               254                 2                 0
## 4036                18                 1                 1
## 4049                10                10                 3
## 4054                 3                 3                 1
## 4093                 1                12                 0
## 4099                 4                 0                 1
## 4104                38                 3                 0
## 4107                50                 3                 0
## 4110                15                10                 0
## 4122                21                21                 1
## 4128                11                 8                 2
## 4131               249                 3                 0
## 4133                39                11                 0
## 4135                39                 1                 0
## 4151                38                11                 1
## 4153                22                 2                 0
## 4157                 2                 4                 2
## 4233                47                 7                 2
## 4237                11                 1                 1
## 4254                28                 1                 0
## 4258                19                 1                 0
## 4259                13                 2                 4
## 4261                16                18                 0
## 4265                13                 3                 0
## 4269                15                 4                 0
## 4297                28                 2                 1
## 4307                 6                13                 1
## 4341                69                 3                 5
## 4342                40                14                 1
## 4351                47                 5                 0
## 4352                11                12                 1
```

```
## 4376                4                2                1
## 4395                3               14                0
## 4412                2                0                1
## 4414               17                3                1
## 4448               96                1                0
## 4466               14                2                1
## 4476               32                3                8
## 4477               20                7                0
## 4498               93                7                0
## 4501               10                4                0
## 4506                4                5                4
## 4517               14                5                0
## 4524               14                6                4
## 4532                6                5                0
## 4539               17                7                0
## 4552                4               13                4
## 4565               12                1                1
## 4580               16               16                0
## 4584               16                0                2
## 4586                9               14                0
## 4611               13                8                0
## 4632                2                0                3
## 4682                8               19                0
## 4688                3                2                2
## 4692               33                2                0
## 4712               12                9                0
## 4743                7                7                0
## 4758                6                6                0
## 4769               13                3                1
## 4774               22                5                0
## 4775               14                5                2
## 4786               26                7                0
## 4791               36                6                1
## 4792               22               12                0
## 4797                5                2                1
## 4801                8                2                0
## 4816              137               10                0
## 4818                0                4                0
## 4832                1                6                0
## 4834               18                7                1
## 4880               19                0                3
## 4921              155                6                1
## 4922                2                2                7
## 4934               50                4                1
## 4951                7                3                1
## 4958                5                3               11
## 4985                6                5                0
## 5010               12               12                0
## 5021                6                6                0
## 5035                3               12                0
## 5036               10                3                0
## 5038                5               10                1
## 5059                8                6                6
## 5060               37                4                0
## 5070               11                5                0
## 5103               14                8                1
## 5134                5                5                0
## 5136               31                3                1
## 5155                2                5                9
## 5157                2                8                1
## 5162                3                1                0
## 5163                7                9                0
## 5168               11                2                1
## 5169                7                1                1
## 5177               46                1                1
## 5184                2                5                0
## 5186               30                1                1
## 5218               24               10                1
## 5220               40                8                0
## 5221                9                3                1
## 5244                6                2                1
## 5255               17               12                0
## 5278               21                2                2
## 5295                6                6                1
## 5317                5                3                0
## 5325               10               10                0
## 5345               22                0                1
## 5348                6                4                0
## 5354               30                5                0
## 5356                2                9                1
## 5358                6                9                0
## 5365               14                6                0
## 5379               18               18                5
## 5390                4                1                0
## 5406                2                1                2
## 5416               24               10                0
## 5431               42               10                0
## 5442               36                2                0
## 5467               29                7                0
## 5494                5               11                0
## 5554               26                7                0
## 5556               29               19                1
## 5565               13               13                0
## 5566                8                2                1
## 5568               29                3                4
## 5574               36                2                2
## 5597               16                8                1
## 5621                2                0                0
```

```
## 5623                12                12                0
## 5643                 5                 2                2
## 5664                31                16                0
## 5666                13                 3                1
## 5720                 9                 9                4
## 5731                26                 4                1
## 5733                 7                 6                1
## 5734                25                19                0
## 5749                56                 3                1
## 5759                13                 0                6
## 5760                 5                 1                6
## 5784                54                 2                6
## 5786                 9                 0                0
## 5794                 2                 9                0
## 5806                 9                 9                2
## 5809                17                 4                0
## 5827                17                18                0
## 5848                20                19                0
## 5849               130                 1                1
## 5860                 3                 3                0
## 5874                83                 7                0
## 5876                 5                 5                0
## 5886                10                10                0
## 5923                 7                 2                1
## 5948                 1                10                0
## 5962                22                 6                0
## 5974                13                12                0
## 6002                 7                 5                0
## 6051                40                 1                0
## 6057                21                10                0
## 6083                26                16                0
## 6097                19                 7                0
## 6126                10                 5                1
## 6157                22                13                1
## 6159                16                 4                1
## 6164                34                 5                1
## 6165                10                 3                0
## 6174                28                18                0
## 6183                 2                 1                0
## 6196                35                 3                0
## 6203                 9                 9                0
## 6204                39                 2                0
## 6207                23                 4                1
## 6209                13                 7                0
## 6237                45                11                1
## 6247                17                12                0
## 6250                13                 2                1
## 6253                 6                 7                0
## 6289                49                11                1
## 6294                19                 6                0
## 6298                 2                 7                0
## 6307                57                 4                0
## 6316                10                 0                0
## 6333                88                 4                0
## 6352                 6                 3                0
## 6367                25                 0                0
## 6388                 5                 6                5
## 6396                63                 3                0
## 6402                 3                 6                1
## 6407                21                 0                0
## 6410                 2                 2                0
## 6421                 0                 0                0
## 6422                14                 0                3
## 6435                 1                 1                1
## 6449                16                 0                8
## 6455                 3                 2                1
## 6456                16                15                0
## 6468                42                 0                1
## 6470               148                 4                4
## 6477                18                11                2
## 6490                 1                 1                0
## 6504                34                 1                0
## 6505                32                 6                0
## 6530                 1                 0                1
## 6533                 3                 2                0
## 6560                 8                 8                0
## 6570                 7                 6                1
## 6585                10                 0                0
## 6599                 9                 1                2
## 6612                49                 0                0
## 6617                 4                 4                0
## 6628                 5                 9                0
## 6642                45                 4                2
## 6651                 6                 5                2
## 6653                25                 8                0
## 6660                10                 2                0
## 6673                70                 7                1
## 6675                12                 0                0
## 6680                55                 4                0
## 6696                 1                 5                1
## 6712                38                 8                1
## 6736                 5                 5                1
## 6750                 1                 5                0
## 6782                12                 6                0
## 6784                 9                 2                3
## 6793                93                 3                0
## 6815                24                 8                0
## 6833                 6                 9                1
```

```
## 6854                24                 9                 0
## 6855                 6                 2                 0
## 6878                23                 5                 7
## 6879                29                 7                 2
## 6884                22                17                 0
## 6906                 2                15                 0
## 6922                22                20                 0
## 6936                41                 8                 4
## 6950                82                 1                 0
## 6964                 3                 3                 2
## 6984                31                 3                 2
## 6985                 4                 4                 4
## 6993                 2                 6                 0
## 7000                29                 0                 1
## 7021                 2                 2                 3
## 7027                15                15                 4
## 7034                37                21                 0
## 7038                27                 1                 0
## 7039                15                15                 0
## 7043               126                 3                 0
## 7068                 9                 8                 1
## 7081                22                17                 1
## 7095                 1                 1                 0
## 7096                 4                 0                 1
## 7099                34                 8                 2
## 7111                 3                 1                 0
## 7115                10                 6                 0
## 7132                 4                 0                 0
## 7133                 7                 0                 0
## 7147                17                21                 0
## 7158                31                 2                 2
## 7167                48                 7                 2
## 7168                 5                 9                 1
## 7169                47                15                 0
## 7188                 3                 0                 2
## 7193                50                 5                 1
## 7232                 4                 3                 0
## 7237                25                 5                 2
## 7249                15                19                 1
## 7255                15                15                 2
## 7262                22                 0                 0
## 7279                36                12                 0
## 7302                 5                19                 0
## 7310                 3                 9                 0
## 7323                14                 2                 0
## 7344                 4                23                 0
## 7353                27                11                 2
## 7355                18                15                 0
## 7426                22                14                 1
## 7445                10                16                 3
## 7446                58                 3                 0
## 7460                15                 3                 0
## 7465                 2                 0                 3
## 7474                78                 1                 0
## 7479                60                 2                 0
## 7485                 4                 3                 0
## 7530                 8                 5                12
## 7533                12                12                 0
## 7538                21                 8                 0
## 7555                 4                 7                12
## 7562                 3                 3                 1
## 7564                28                 1                 2
## 7579                 1                 1                 0
## 7591                 8                17                 0
## 7594                 7                 7                 0
## 7612                14                 3                 0
## 7619                 4                 5                 3
## 7621                44                 6                 0
## 7704                18                 2                 0
## 7715                 4                 4                 0
## 7737                23                 3                 0
## 7777                 4                 4                 1
## 7792                 5                12                 0
## 7794                25                 2                 0
## 7824                27                 0                 0
## 7828                20                20                 3
## 7833                 3                 0                 0
## 7838                37                 1                 1
## 7840                 9                 3                 4
## 7882                15                15                 6
## 7893                13                 5                 0
## 7900                 9                 3                 0
## 7910                 6                15                 1
## 7925                69                13                 1
## 7945                 4                19                 0
## 7963                 8                12                 0
## 7972                23                 9                 0
## 7980                 5                 4                 0
## 7985                60                 3                 0
## 8006                15                14                 1
## 8009                 4                 4                 2
## 8024                 3                 3                 0
## 8042                35                10                 1
## 8046                44                 6                 0
## 8047                 6                 9                 0
## 8080               133                 2                 2
## 8086                45                 8                 4
## 8111                41                 5                 1
```

```
## 8125                19                 2                 2
## 8140                 3                 1                 3
## 8148                24                16                 0
## 8154                 3                 2                 1
## 8174                 1                 2                 0
## 8192                10                 1                 5
## 8261                23                12                 0
## 8269                13                 6                 3
## 8275                16                 3                 0
## 8287                 7                10                 5
## 8303                62                 6                 0
## 8304                 3                 5                 1
## 8339                 8                 2                 0
## 8352                 5                 2                 0
## 8370                10                10                 0
## 8384                44                17                 0
## 8388                65                 5                 0
## 8400                 3                 3                 0
## 8420                15                17                 2
## 8432                10                 7                 0
## 8439                 4                 6                 1
## 8440                 4                 2                 2
## 8444                21                 6                 1
## 8455                11                 0                 0
## 8457                35                 6                 0
## 8460                20                 0                 1
## 8466                 2                 0                 4
## 8478                11                 9                 0
## 8485                 9                 7                 1
## 8494                 4                 5                 1
## 8495                 9                 9                 0
## 8503                11                 3                 1
## 8520                 8                 8                 0
## 8546                29                 6                 1
## 8548                 1                 1                 3
## 8562                22                 0                 2
## 8577                 4                 4                 4
## 8582                13                10                 2
## 8584                11                 5                 0
## 8593                39                18                 1
## 8597                84                12                 0
## 8601                 8                10                 0
## 8603                18                 3                 1
## 8645               116                 6                 2
## 8659                 2                 7                 1
## 8679                29                 7                 1
## 8682                 4                 2                 5
## 8691                76                20                 2
## 8695                10                 1                 1
## 8698                19                 0                 4
## 8725                16                 1                 3
## 8730                 5                 3                 0
## 8733                 9                 2                 1
## 8734                22                10                 0
## 8748                 9                10                 1
## 8755                 1                 0                 2
## 8774                 7                 9                 8
## 8784                12                 3                 0
## 8789                22                 3                 5
## 8799                 7                 2                 0
## 8813                33                 6                 0
## 8815                 3                 0                 5
## 8827               135                 0                 0
## 8829                55                 1                 1
## 8833                86                13                 0
## 8836                33                21                 0
## 8842                 1                 0                 2
## 8849                19                 4                 3
## 8863                11                 1                 0
## 8879                 4                 6                 0
## 8886                 7                 0                 1
## 8889                 4                 0                 0
## 8930                 5                 5                 0
## 8934                15                15                 0
## 8936                10                10                 0
## 8940                 6                21                 0
## 8949                 7                13                 0
## 8952                 5                 6                 0
## 8954                18                10                 0
## 8996                 7                 7                 3
## 9028               125                15                 2
## 9029                20                 1                 2
## 9039                10                10                 0
## 9043                 5                13                 0
## 9044                24                 5                 0
## 9046                31                23                 0
## 9062                 4                 0                 1
## 9065                 2                 3                 1
## 9144                14                 0                 0
## 9172                 3                 3                 0
## 9184                 5                 8                 0
## 9201                 0                 4                 2
## 9213                76                16                 2
## 9224                62                 6                 0
## 9233                 2                 2                 0
## 9239                22                 2                 0
## 9256                12                 5                 3
## 9260                43                 9                 0
```

```
## 9272                  15                    8                    1
## 9279                   6                    6                    0
## 9290                   7                   23                    3
## 9302                 129                    1                    2
## 9308                   9                    8                    1
## 9315                   9                    7                    1
## 9320                  41                   14                    0
## 9341                   5                    5                    0
## 9379                  23                   12                    1
## 9400                   6                    2                    0
## 9418                  19                    7                    0
## 9437                   3                    0                    0
## 9477                  52                    0                    0
## 9495                  14                    6                    0
## 9496                  11                    1                    0
## 9505                   9                    9                    3
## 9532                   6                   13                    1
## 9538                  11                   11                    1
## 9583                   1                    0                    0
## 9585                   4                    2                    0
## 9597                 194                   20                    0
## 9608                   6                    8                    0
## 9620                  22                    3                    2
## 9661                   8                    6                    1
## 9687                   6                    6                    0
## 9693                  16                    1                    0
## 9703                  40                    1                    0
## 9709                   6                    6                    2
## 9726                  48                    9                    1
## 9805                  36                    3                    0
## 9806                  31                    3                    0
## 9809                  35                   12                    0
## 9824                  11                    2                    2
## 9826                   2                    4                    1
## 9837                   5                    5                    0
## 9841                 113                    3                    0
## 9844                  36                    4                    9
## 9849                   3                    1                    0
## 9912                  21                    4                    0
## 9925                   6                    0                    0
## 9926                   6                    4                    0
## 9933                  27                    6                    0
## 9937                   1                    6                    4
## 9941                  22                    3                    0
## 9951                   7                    9                    1
## 9960                   4                    2                    1
## 9987                   2                   10                    0
## 9997                  51                    5                    0
## 10003                 40                    0                    0
## 10010                 11                    2                    0
## 10011                 19                   18                    0
## 10047                  6                    6                    3
## 10050                230                    5                    1
## 10093                  3                    3                   12
## 10104                 13                    2                    0
## 10111                  1                   11                    1
## 10131                  3                   17                    0
## 10137                  3                    7                    2
## 10144                  7                    4                    0
## 10169                 14                    9                    0
## 10172                  1                    1                    0
## 10176                 56                    3                    0
## 10184                 32                    7                    0
## 10202                 26                    0                    0
## 10209                  3                    7                    1
## 10215                  6                    6                    0
## 10242                 14                    6                    1
## 10248                  9                    1                    1
## 10267                  6                    1                    0
## 10275                 18                   14                    0
## 10276                 25                    3                    0
##       num_actv_bc_tl num_actv_rev_tl num_bc_sats num_bc_tl num_il_tl
## 35                 3               3           3         9        28
## 54                 4               5           5         8         7
## 59                 4               7           4         8        33
## 60                 7              14           7        11         5
## 71                 5               5           5         8        17
## 73                 1               4           2        11         6
## 74                 6               8           8        10         8
## 90                 7              11           8        11        14
## 101                2               2           3         4         9
## 124                3               5           3         5        12
## 137                1               3           3         3         6
## 142                2               3           2         8        28
## 143                3               3           4         6        14
## 160                5               7           5         6         7
## 161                4               5           4         5         9
## 165                5               9          10        17         9
## 174                3               4           7        11        13
## 192                1               3           2         3        15
## 193                7               8           8         9         9
## 206                4               4           6         8        11
## 212                1               2           3         6        10
## 218                1               3           7         8        12
## 229                1               3           2         6        27
## 232                5               6           6         9         7
## 234                2               3           2         2         7
## 236                2               2           4        12        12
```

```
## 246          9          13         13         19          4
## 247          2           5          2          6          3
## 262          5           8          9         10         10
## 285          1           2          3         11          7
## 296          4           5         11         12          5
## 302          2           3          2          2          7
## 304          3           4          5          6         10
## 324          3           4          7         16         18
## 326          4           5          4          6          6
## 328          3           4          3          4         13
## 329          1           2          1          3         20
## 330          4           6          4          6         16
## 338          2           9          4          6          6
## 353          6           6         11         14          7
## 357          3           7          3          9         16
## 361          9          15          9         16         10
## 370          1           2          2          3          4
## 377          3           4          5          7          5
## 382          4           5          7         13         33
## 410          0           2          2          4         17
## 428          5           5         10         13          5
## 450          1           1          2          2          8
## 465          3           4          3          4         10
## 466          2           3          8          9         20
## 471          2           3          2          3         22
## 479          4           5          4          6         16
## 485          2           6          4          9         13
## 491          7           8          8          9         11
## 496          1           2          4         10         10
## 497          9          16         13         18         12
## 499          3           4          5          8         10
## 548          1           2          1         10          3
## 558          2           2          9         10          9
## 570          6           9          6          6         17
## 577          4           6          9         17          4
## 579          1           2          1          3         12
## 608          1           1          2          9         36
## 626          1           1          1          3         30
## 634          1           2          1          6          3
## 636          5           7          5          5          6
## 641          1           9          1          2         24
## 658          0           2          1          6         29
## 660          3           5          3          3          4
## 670          4           7          4          8         20
## 674          5           6          5          5          7
## 689          4           6          4          4         29
## 696          2           3          5         10          5
## 705          3           5          4          6          2
## 713          3          10          3          4         16
## 752          3           4          3          3         11
## 790          2           6          3          7         20
## 799          0           2          7         10         19
## 819          3           6          4          4          6
## 840          5           9         10         14          9
## 844          1           2          3          6         12
## 845          3           5          7         15          7
## 855          5           6          6         10          8
## 866          3           4          3          3          4
## 869          1           1          2          7         10
## 899          3           3          8         12         10
## 904          4           4          4          7         21
## 917          2           7          3          3          7
## 940          7           7          8          8          3
## 957          1           1          1          3          5
## 960          2           4          2          6         20
## 993          2           4          2          4         11
## 998          6           8          7          8         18
## 1025         7           8          8         15         25
## 1056         4           5          7          8          8
## 1063         7           9         17         20          3
## 1083         4           5          4          6          5
## 1105         6           7          6          7         13
## 1117         3           4          5         11          8
## 1118         2           2          2          5          3
## 1146         4           6          5          5         10
## 1170         2           4          2          7         12
## 1227         2           8          2         12          7
## 1263         5           5          5          6          6
## 1264         2           4          2          8          5
## 1273         5           6          6         11         14
## 1285         2           5          5         12         13
## 1319         6           8          7         16          2
## 1337         0           1          1          3          5
## 1349         1           5          3          3         11
## 1351        11          15         14         17         20
## 1356         2           2          6          8          8
## 1386         2           4          4          6          8
## 1388         2           2          2          3          5
## 1390         1           3          3          6          5
## 1410         3           5          5          5         10
## 1416         1           1          3         10         14
## 1434         3           5          3          3          5
## 1439         0           1          1          1          4
## 1449         4           5          7         10         13
## 1459         5           5          8          8         36
## 1462         8          10          8          9         26
## 1480         3           5          3          6         10
## 1484         2           3          4          4          7
```

```
## 1487          4          5          4          4          5
## 1527          4          7          4          5          2
## 1529          2          4          2          5          7
## 1530          2          3          2          4          1
## 1545          2          2          6         13          7
## 1567          1          6          1          5         12
## 1597          1          2          2          2          3
## 1601          6          9          7          7         10
## 1623          2          2          2          6         11
## 1633          1          4          1          4         15
## 1636          2          3          2          8         16
## 1640          2          2          4          7         18
## 1645          1          3          1          5          5
## 1650          5          6          7         10         26
## 1671          3          5          5          7          1
## 1672          5          6          6         15         10
## 1696          1          2          1          2          3
## 1704          2          2          5         11          3
## 1721          1          2          1          3          5
## 1724          2          3          3          4         17
## 1728          6          6         11         15          5
## 1730          6          6          6          7          2
## 1734          0          1          1          1         49
## 1752          3          5          4         15         25
## 1771          1          1          4          6         12
## 1816         12         17         15         20         11
## 1846          3         10          3          9          2
## 1850          4          5          7          7         10
## 1853          3          3          6          7         26
## 1856          3          4          3         16         15
## 1857          3          4          3         12         74
## 1862          4          4          5          6          6
## 1865          4         10          4          4         10
## 1866          3          4          5          9          7
## 1867          4          4          4          6         10
## 1896          2          2          2          4         27
## 1905          2          3          2          2         21
## 1907          3          5          4          5         18
## 1922          3          4          4          4         11
## 1930          3          5          6         10          8
## 1933          0          1          3         12          3
## 1952         10         10         18         25          6
## 1956          3          3          3          3          2
## 1961          4          5          4          8         10
## 1963          2          4          5          7          7
## 2004          2          2          3          6         11
## 2012          3          7          6          7         11
## 2017          2          4          2          5         12
## 2019          1          3          4          6          8
## 2026          0          2          1          5          4
## 2027          4          6          6          7         18
## 2039          2          3          2          3          4
## 2041          2          2          5          8         25
## 2051          5          7         18         19          1
## 2060          2          4          2          2         18
## 2065          3         12          3          6          6
## 2073          1          1          6          9         13
## 2105          6         11          8         13         10
## 2117          3          4          5         11          8
## 2128         21         22         32         44         10
## 2129          3          4          4          4          7
## 2136          2          3          5          5          3
## 2137          5          6          5          7          9
## 2148          2          2          2          7         15
## 2155          1          2          3          6          3
## 2168          4          5          4          8         13
## 2197          1          3          3          8         15
## 2215          3          7          4          8          6
## 2224          1          3          1          9          3
## 2234          4          5          4          7         25
## 2255          4          6          5         10         10
## 2258          2          3          5          5         20
## 2286          1          1          3          8         15
## 2296          4          5          8         11         15
## 2329          2          2          3          7         11
## 2342          4          5          4          7          6
## 2347          8         17          8         13         10
## 2357          2          4          4          4         24
## 2377          1          6          2          5          8
## 2393          5          7          5         12         28
## 2396          2          3          3          7          9
## 2399          2          3          5          6         14
## 2405          1          2          4          6         13
## 2420          1          2          1          8         15
## 2425          3          3          3          3          1
## 2429          1          2          3          6         12
## 2439          4          8          7          8          7
## 2447          5          6          9         11         20
## 2449          1          1          2          3          5
## 2457          2          4          2          3          4
## 2478          5          6          7         12          2
## 2480          5          7          5         18          6
## 2492          5          7         11         19          5
## 2494          2          5          5          6          9
## 2504          6          8          6         10          9
## 2510          3          4          6          8         21
## 2514          2          2          4          5          4
## 2516          3          3          3          4         17
```

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## 2522          5          10          7         12          5
## 2529          1           7          1          8          9
## 2535          4           4          5          8          3
## 2545          2           3          3          7          4
## 2549          2           4          3         10         26
## 2593          1           2          1          7         15
## 2598          0           0          4          5          8
## 2604          4           5         14         19         12
## 2628          0           1          2          5          4
## 2631          1           2          3          6         34
## 2661          3           3          7          9         17
## 2673          2           3          2          2          6
## 2692          2           2          5          7         14
## 2707          1           3          1          3          4
## 2714          4           4          5         14          8
## 2715          2           3          2          3         12
## 2761          2           3          2          4          9
## 2772          3           4          3          3         10
## 2788          1           3          2         11          9
## 2789          2           3          2          5         33
## 2820          2           5          2          2          9
## 2840          2           2          4          5         15
## 2856          2           2          5          8         29
## 2858          4           5          5         17         10
## 2861          1           3          1          2         12
## 2872          3           5          6          8         11
## 2877          8           9         10         12         12
## 2878          1           3          3         11          8
## 2879          2           3          2          4         15
## 2893          3           4          9         10          6
## 2913          1           3          1          2         32
## 2915          2           2          2          5         12
## 2918          4           5          4          6          6
## 2940          3           6          7         14         16
## 2942          6           7          9         11          9
## 2954          3           8          3          3         14
## 2976          4           5          4          5         10
## 2977          5           9          6          8          4
## 2978          3           4          4          8         10
## 2982          6           8          7         14         13
## 3002          4           4          5         10         29
## 3012          3           7          3          3          8
## 3017          4           7          4          5          4
## 3018          7           8          7          9          8
## 3021          4           5          5         11          4
## 3034          4           7          7         13         12
## 3045          3           4          4         12          8
## 3050          3           4          8         11         13
## 3057          5           5          7          7          1
## 3071          4           5          4          6          9
## 3104          3           6          4          6          4
## 3112          2           3          2          8          4
## 3124          3          13          6         10         25
## 3150          3           3          3         10          1
## 3160          3           6          3         15         17
## 3165          3           6          8          8          2
## 3172          0           0          2          5         14
## 3177          2           4          2          2          6
## 3213          2           7          6          8          2
## 3222          2           2          4         12          9
## 3237          4           8          4         13         20
## 3252          3           6          4          7          5
## 3257          5           5          8          8          6
## 3258          2           5          2          4          7
## 3265          2           5          3          4          8
## 3276          1           1          3          8          9
## 3289          1           3          1          2         14
## 3307          4          10          5         11         33
## 3312          4          12          7          7          9
## 3317          7           8         11         20         10
## 3333          4           5          4          6          6
## 3366          6           9          6         12         15
## 3383          1           3          1          1         16
## 3419          2           3          4          6         14
## 3421          6           8          9         11          3
## 3422          3           3          5          5         25
## 3429          5           8          5          7         21
## 3433          3           5          5          5         18
## 3449          3           4          3          7          3
## 3458          1           1          2          4         11
## 3467          6           6          8          9          6
## 3471          4           6          7         16         12
## 3480          4           9          4          4         10
## 3482          2           2          4          5         22
## 3502          2           2          4          8         12
## 3504          6           7          8         10          3
## 3507          4           5          4          5         14
## 3536          3           6          3          3         15
## 3538          7           7         12         16          6
## 3542          2           5          2          8          5
## 3547          5           7          7          7          4
## 3553          2           2          4          5         27
## 3567          2           2          2          3         16
## 3590          5           7          7         12         11
## 3607          3           7          3          4          4
## 3623          2           3         13         14          9
## 3635          7           7          8         10          7
## 3655          3           4          5          8          8
```

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## 3684          2          2          2          2          7
## 3687          2          2          2          2         13
## 3688          5          7         14         15          8
## 3699          2          3          4          9          7
## 3701          1          1          1          5          6
## 3712          4          5          4          5          4
## 3730          1          3          3          3          6
## 3749          4          4          4         12          7
## 3756          5         10          6         18          6
## 3758          1          2          1          6          8
## 3771          1          1          4          9         10
## 3785          5          5          9         12         15
## 3788          5          5          5         16          4
## 3852          2          8          2          6          6
## 3857          0          0          3          4          8
## 3865          7          9          7          7          5
## 3889          1          2          1          2         13
## 3892          4          5          9         19          8
## 3901          2          2          3          4         11
## 3917          6          8          6          6          5
## 3924          3          3          4          4          6
## 3938          1          5          2          5          8
## 3947          4         10          4          5          7
## 3949          2          4          2          2          5
## 3959          1          1          1          1          5
## 3977          2          3          3          5         41
## 3990          5          7          6          8         12
## 4001          2          2          3          5          2
## 4003          6          8          9         11          5
## 4016          3          4          5          9         27
## 4017          3          5          3          4          2
## 4021          4          6          4         11         19
## 4022          4          9          5          7         42
## 4026          3          5          3          3          7
## 4036          5          6          5          5          9
## 4049          2          2          6         13         17
## 4054          1          3          2          3          5
## 4093          4          6          9         10         10
## 4099          2          2          5         11          4
## 4104          1          1          2          6          3
## 4107          1          2          1          2         22
## 4110          2          9          2          3          2
## 4122         10         13         14         15         11
## 4128          5          7          5          5          8
## 4131          1          1          1          8          5
## 4133          3          3          3          3         11
## 4135          1          2          1          2          9
## 4151          3          5          3          5         14
## 4153          2          2          2         11         12
## 4157          4          5          4          6          8
## 4233          1          2          2          8          6
## 4237          2          4          2          2          7
## 4254          8          9          9         16          6
## 4258          2          2          2          2          2
## 4259          3          4          5          5          7
## 4261          5          7          6          8         28
## 4265          3          3          3          4         15
## 4269          2          4          5          5         11
## 4297          3          4          3          8          5
## 4307          4          4          8         17         10
## 4341          2          5          3         10         19
## 4342          3          6          4          6         14
## 4351          1          3          1          5          5
## 4352          4          5          7          9         14
## 4376          3          3          3          4          2
## 4395          3          6          3          5          6
## 4412         10         15         10         14          3
## 4414          2          4          2          3          9
## 4448          3          3          3          5         10
## 4466          6          7          7          8          4
## 4476         10         13         11         13         20
## 4477          2          2          3          4         13
## 4498          1          3          1          1         31
## 4501          7          7          8         11          2
## 4506          4          6          4         10          7
## 4517          5          6          5          7         33
## 4524          4          4          4          6          6
## 4532          1          2          2          3         16
## 4539          2          4          3          5          2
## 4552          2          3          7          8          6
## 4565          1          2          2          8         19
## 4580          1          4          1          2          7
## 4584          2          3          4         10         11
## 4586          7         13          7          7          3
## 4611          5          5          6          8          7
## 4632          3          4          4          9         10
## 4682          3          5          5          7         20
## 4688          4          5          5         12         16
## 4692          3          6          4          4          4
## 4712          2          2          2          2          5
## 4743          6          7          7          9          4
## 4758          3          3          4          7          2
## 4769          3          6          5          7          7
## 4774          5          7          5          7         10
## 4775          6          8          9         15         28
## 4786          1          1          4          5         12
## 4791          3          4          3          4         19
## 4792          4          7          5          8          1
```

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## 4797          2          5          4          4         13
## 4801          3          3          5          6          4
## 4816          1          4          1          2         17
## 4818          4          5         12         19         18
## 4832          3          8         12         18          6
## 4834          3          6          3          5         20
## 4880          4          5          6         10          8
## 4921          2          2          2          4          2
## 4922          3          4          4          9          7
## 4934          1          2          2          2          4
## 4951          6          6          6          6          3
## 4958          1          1          1          2         19
## 4985          6          9          6          6          7
## 5010          3          3          5          5          6
## 5021          5          6          7          9          8
## 5035          3          6          3         11          5
## 5036          9         15         12         17         10
## 5038          1          1          4          5         11
## 5059          5          5          6         12          9
## 5060          0          0          2          3         11
## 5070          2          6          2          2         42
## 5103          2          3          3          4          3
## 5134          5          7          7          9         12
## 5136          4          4          5          7          8
## 5155          5          6          6         12         13
## 5157          3          5          8         22         10
## 5162          3          4         10         13         10
## 5163          4          5          8          9         13
## 5168          7         13         10         10         14
## 5169          2          8          4          8         14
## 5177          2          6          2         10         18
## 5184          9         11         46         66          4
## 5186          2          2          3          7          9
## 5218          3          6          3          7          6
## 5220          1          4          1          1          9
## 5221          4          4          8          9         18
## 5244          1          1          2          3          3
## 5255          5         10          6         11         43
## 5278          1          2          1          2          2
## 5295          3          5         10         12          9
## 5317          2          2          3          4          9
## 5325          3          9          3          6          6
## 5345          3          3          5          5          9
## 5348          3          5          3          7          5
## 5354          1          4          3          8         13
## 5356          5          8          5          6          1
## 5358          5          9          7         11         26
## 5365          5          7          6          7         14
## 5379          5          7          5          6         11
## 5390          3          6          4          6          4
## 5406          1          1          2         15         16
## 5416          7         20          8         13         23
## 5431          1          2          2          2         10
## 5442          6          6          6          7         11
## 5467          1          3          2          5         12
## 5494          4          7          5          8          5
## 5554          2          5          2          2         30
## 5556          3         10          3          4          2
## 5565          2          3          5          7          1
## 5566          6         10          6          6          4
## 5568          1          3          2          2          5
## 5574          3          7          3          9          4
## 5597          2          2          2          3          5
## 5621          4          7          4          4         10
## 5623          7          8          8          9         10
## 5643          4          5         10         17          6
## 5664          1          3          1          5          3
## 5666          5          9          5          5          2
## 5720          2          2          2          6          5
## 5731          3          5          3          3          2
## 5733          5         12          6         15         10
## 5734          1          4          1          3          7
## 5749          1          3          1          3          5
## 5759          2          5          2          8         17
## 5760          2          5          2          6         13
## 5784          2          2          3          3         14
## 5786          3          5          3         12         20
## 5794          2          2          6         10         23
## 5806          8         13         11         16         18
## 5809          4          9          4          6          4
## 5827         10         14         12         14          3
## 5848          5          9          5          6          4
## 5849          3          3          3          6         24
## 5860          3          5          3          3         23
## 5874          2          4          4          5          7
## 5876          2          3          3          3          2
## 5886          7         12          9         13          4
## 5923          5          6          5          5          4
## 5948          3          6          9         17         14
## 5962          6         12          6          7          8
## 5974          5          5          5          8          2
## 6002          4          5          6         13         18
## 6051          1          3          1          2          1
## 6057          1          4          1          3         20
## 6083          2          5          2          2         14
## 6097          5          8          7         11          4
## 6126          2          4          2          3          1
## 6157          3          4          5          5          9
```

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## 6159          1          2          3          7         18
## 6164          1          2          1          2         12
## 6165          2          3          3          7          2
## 6174          2          2          5         12          4
## 6183          5          6          9         11         30
## 6196          3          8          3          7          8
## 6203          5          6          6          8          1
## 6204          3          6          4          9         11
## 6207          4          4          4          5          3
## 6209          3          4          6         11          7
## 6237          1          3          1          3          6
## 6247          3          3          7         11          5
## 6250          3          5          7         11         16
## 6253          2          8          2          6         10
## 6289          3          6          3          3          3
## 6294          2          3          4          8         10
## 6298          3          3          4          4          3
## 6307          1          2          1          1          9
## 6316          2          6          2         12          8
## 6333          1          2          1          1          2
## 6352          2          3          9         17          8
## 6367          2          3          5         10         10
## 6388          5          7          7         13          6
## 6396          2          2          2          2          3
## 6402          5          5          6          6          9
## 6407          7          7          7          9         20
## 6410          4          5          7         10          4
## 6421          4          5          5          7         43
## 6422          1          4          2          7         10
## 6435         10         12         10         10          7
## 6449          3          3          5          8         18
## 6455          4          9          4          9         14
## 6456          4          4          4          4          6
## 6468          2          3          4         10         27
## 6470          1          2          1          6          5
## 6477          3          3          8         11          9
## 6490          8         11          8         16          9
## 6504          4          6          4          6          3
## 6505          2          5          2          6         14
## 6530         11         13         14         15         14
## 6533          3          3         12         16         33
## 6560          4          5          5          8          6
## 6570          2          3          4         11         11
## 6585          5         10          8         12          6
## 6599          1          3          5         11          5
## 6612          2          2          3          4          6
## 6617          5          7          7          7         13
## 6628          5          8         11         18          8
## 6642          4          5          5          8          3
## 6651          2          4          6          7         32
## 6653          2          2          2          8         10
## 6660          2          6          3          8         13
## 6673          2          6          2          3          5
## 6675          2          5          8         12         15
## 6680          6          7          6          7          5
## 6696          3          4          4          5         11
## 6712          1          3          2          7         21
## 6736          1          2          6         10          7
## 6750          3          4          3          3          8
## 6782          9         12         10         11         10
## 6784          1          2          2          2          9
## 6793          1          1          1          5          7
## 6815          3          3          6          7          7
## 6833          2          2          3          5          4
## 6854          2          2          2          3         18
## 6855          3          3          4          8         26
## 6878          1          5          3          9          6
## 6879          2          2          2          5         32
## 6884          6          8          7         13          2
## 6906          8          8          9         15         13
## 6922          5          8          5          9         10
## 6936          1          2          2          4          8
## 6950          2          3          3          6         19
## 6964          3          4          3          7         38
## 6984          2          4          2          6         14
## 6985          6          7          8          9         20
## 6993         11         13         15         24          8
## 7000          2          4          3          5         31
## 7021          5         10          6         10          6
## 7027          1          1          3          7         10
## 7034          3          4          6          7         11
## 7038          3          4          5         11          7
## 7039         10         13         10         13         14
## 7043          2          2          4          5          6
## 7068          4          4          4          6          4
## 7081          3          3          3          3         12
## 7095          3          3          6          7          1
## 7096          4          4          5          6          3
## 7099          4          9          4         10          9
## 7111          2          2          2          2         18
## 7115          3          4          8         10         11
## 7132          8          8          9          9         12
## 7133          2          6          2          2         10
## 7147          8          9         10         12          7
## 7158          1          2          1          2          3
## 7167          3          4          3          4         11
## 7168          3          6          5         11          8
## 7169          1          2          1          5          4
```

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## 7188          2          2          2          7          4
## 7193          1          3          1          3          5
## 7232          2          2          4         12         17
## 7237          2          4          3          3         36
## 7249          3          5          4          7          6
## 7255          9         12          9         11          3
## 7262          3          3          4         14          9
## 7279          1          3          1          5          7
## 7302          8         11          8         10         11
## 7310         10         11         11         13         10
## 7323          2          3          3          4         17
## 7344          5          7          6          6          3
## 7353          2          3          2          4         19
## 7355          2          3          2          2          6
## 7426          3          5          3          4          5
## 7445          3         10          3          3          9
## 7446          1          1          3          8          2
## 7460          3          4          3          8         17
## 7465          6          6          6          7          4
## 7474          2          3          3          4         26
## 7479          3          7          3          5         13
## 7485          4          7          8         12         50
## 7530          4          4          5          9         24
## 7533          1          1          1          1          3
## 7538          1          3          3          9         10
## 7555          4          4          8         11         40
## 7562          4          9          6         10          8
## 7564          2          2          2          3          6
## 7579         11         14         15         16          8
## 7591          5          7          5          7          1
## 7594          0          0          6          7          5
## 7612          7          8         10         10          8
## 7619          3          4          7          9         16
## 7621          5          7          5         10         21
## 7704          5         11          5          7         19
## 7715          4          4          4         12         23
## 7737          2          4          2         14          9
## 7777          5          5          6          7          8
## 7792          1          2          1         18         14
## 7794          2          4          4          4          9
## 7824          7          9          8         10         23
## 7828          2          2          2          5         12
## 7833          5          5          6         11         11
## 7838          6          6          8         11         17
## 7840          8          8          8          8          6
## 7882          3          3          3          5         20
## 7893          3          4          5         13          6
## 7900          3          3         10         20          9
## 7910          3          5          8         15         10
## 7925          2          3          4          6         15
## 7945          6         10          7          7         19
## 7963          3          4          6          8          4
## 7972          2          3          2          2          2
## 7980          4          7          6          8          3
## 7985          1          2          2          3         15
## 8006          9         14         11         16         19
## 8009          3          6          5          6         11
## 8024          6          8         10         12          6
## 8042          5          5          5          5         12
## 8046          6         11          6          8         12
## 8047          3          4          4          4          6
## 8080          2          3          2          4         22
## 8086          2          3          4         15         21
## 8111          2          3          5          9         18
## 8125          2          3          5          5          2
## 8140          7         12          8         10         10
## 8148          7         10          9         14         23
## 8154          3          4          7          8          3
## 8174          9          9         17         18          7
## 8192          2          5          7          8          3
## 8261          1          3          1          4          5
## 8269          1          1          1          2          9
## 8275          3          3          3          6          8
## 8287          3          3          3         10          6
## 8303          4          6          4          4         13
## 8304          4          4          4          5         21
## 8339          3          6          6          8         26
## 8352          5         10          6         16         14
## 8370          5          6          5          5          3
## 8384          2          2          4          5          6
## 8388          2          5          3          3         39
## 8400          4          4          5          8          8
## 8420          3          3          6          8          7
## 8432          4          5          6          6          4
## 8439          2          3          3          3          6
## 8440          3          4          6         13         16
## 8444          1          3          1          1         13
## 8455         11         15         14         15         19
## 8457          1          3          1          5          6
## 8460          4          4          4          9         13
## 8466          4          5          4         12          9
## 8478          4          4          7          8          5
## 8485          4          4          5          8         14
## 8494          1          1          1          2         12
## 8495          6          7         18         23         16
## 8503          3          8          3          6          9
## 8520          2          2          2          2         13
## 8546          1          1          1          3          4
```

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## 8548          5          9          6          9          8
## 8562          2          3          2         14          5
## 8577          6         10          7         14          9
## 8582          3          4          5          5         11
## 8584          2          3          4         10          5
## 8593          4          8          5          7          4
## 8597          2          6          2          5         13
## 8601          3          4          7         11          2
## 8603          3          3          3          4         25
## 8645          1          1          1          6         28
## 8659          4          8          5          8         10
## 8679          2          6          2          5          9
## 8682          4          5          5          5          9
## 8691          3          3          4          7         18
## 8695         12         24         14         15         12
## 8698          7          9         12         17          8
## 8725          1          1          5         12          2
## 8730          2          7          2          3         21
## 8733          4          6          4          9         12
## 8734          1          3          1          8          6
## 8748          3          4          3          3          5
## 8755          3          5          6         10         11
## 8774          4          9          6         11         11
## 8784          4          6          5          7          9
## 8789          3          6          3          7          7
## 8799          3          4          5          9          7
## 8813          3          4          3          4          9
## 8815          2          3          2         19          7
## 8827          2          3          2          3         23
## 8829          1          1          1          5         20
## 8833          1          2          1          4          3
## 8836          2          4          3          6          4
## 8842          2          3          3          4          4
## 8849          3          3          4          7         12
## 8863          0          2          1          7         16
## 8879          2          4          2          8          7
## 8886          2          5          3          7          5
## 8889          4          4          5          6          8
## 8930          2          2          2          2          3
## 8934          3          3          3         10          6
## 8936          6          7         10         13          8
## 8940          6          6          6          9          5
## 8949          2          3          9         10          3
## 8952          2          3          2          4          6
## 8954          5         11          5          6          9
## 8996          8         10          9         10         28
## 9028          1          4          1          4         16
## 9029          2          2          3          3          8
## 9039          3          7          3          4         16
## 9043          3          3          4         10         11
## 9044          1          3          6         14         13
## 9046          4          8          5          7         18
## 9062          2          3          4          4          5
## 9065          3          4          9         16         17
## 9144          1          2          3          7          5
## 9172          7         12          8         12          7
## 9184          2          3          6          8         10
## 9201          4         10         11         18         26
## 9213          3         10          3          8          3
## 9224          2          2          3          5         18
## 9233          5          6         10         11          9
## 9239          4          4          6          8         10
## 9256          4          4          5          5         43
## 9260          5         10          8         12          6
## 9272          2          4          2          3         10
## 9279          4          5          5          6          7
## 9290          3          3          3          7          4
## 9302          1          1          1          5          4
## 9308          3          5          5          7          6
## 9315          9         11         12         14          1
## 9320          4          5          5          9          7
## 9341          5          5         10         11          5
## 9379          4          4          5          5          9
## 9400          4          5          4          6          4
## 9418          8         10          9         12         10
## 9437          1          3          3          3          9
## 9477          4          8          8         11         22
## 9495          2          3          5          8         30
## 9496          1          4          7         17         25
## 9505          5          6          5          8         13
## 9532          4          6          4          6         23
## 9538          1          2          2          5          4
## 9583          5          6          5          5          7
## 9585          3          3          3          4          2
## 9597          2          3          2          4          2
## 9608          3          3          3          3          5
## 9620          4          5          5          6          2
## 9661          9         11          9         10         12
## 9687          3          6          5          7         15
## 9693          3          3          4          4         15
## 9703          2          5          2          5         25
## 9709          0          0          2          4          4
## 9726          1          1          3          8          3
## 9805          0          1          2          5          5
## 9806          2          4          1         11          4
## 9809          4          9          4          4          6
## 9824          3          3          3          8          1
## 9826          5          5          7         19         22
```

```
## 9837              7              7         12        19         4
## 9841              1              1          2         5        11
## 9844              5              7          5        23         7
## 9849              3              4          3         4        13
## 9912              5              5          5         6        10
## 9925              4              5          7         9         7
## 9926              3              4          9         9        16
## 9933              6              8          7        10         5
## 9937              2              3          6        13         6
## 9941              2              3          6        11         8
## 9951              2              4          2         2        14
## 9960              1              3          2         5         7
## 9987              5              8          5         7        11
## 9997              1              2          1         3         2
## 10003             8              9          9        10        16
## 10010             0              1          1         5        25
## 10011             3              3          6        12         5
## 10047             7             15          9        16         2
## 10050             1              4          1         9        14
## 10093             6             14          6        25         8
## 10104             2              2          7        13        10
## 10111             2              3          4         7        11
## 10131             6              7          9        17        43
## 10137             2              3          2         6        10
## 10144             5              7          5         7         6
## 10169             4              7          4         8        21
## 10172             4              4         13        16         8
## 10176             4              7          4         4        10
## 10184             6              6          9        12         9
## 10202             1              6          1         8        16
## 10209             1              2          2         4         4
## 10215             4              5          5        10         6
## 10242             3              5          4         6         2
## 10248             2              2          3         8        22
## 10267             6              8          8        12        17
## 10275             1              2          2         4         7
## 10276             1              2          4         5        17
##       num_op_rev_tl num_rev_accts num_rev_tl_bal_gt_0 num_sats num_tl_120dpd_2m
## 35                3            17                   3       17                0
## 54                7            12                   5       11                0
## 59               10            15                   7       26                0
## 60               15            19                  14       18                0
## 71                6             9                   5        7                0
## 73               10            35                   4       12                0
## 74               13            18                   8       19                0
## 90               16            19                  11       19                0
## 101               4             5                   2        8                0
## 124               7            10                   5       11                0
## 137               5             5                   3        6                0
## 142               4            19                   3       10                0
## 143               7            17                   3       11                0
## 160               9            10                   7       12                0
## 161               6             7                   5        8                0
## 165              14            24                   9       16                0
## 174              19            24                   4       21                0
## 192               6             9                   3       10                0
## 193              12            14                   8       18                0
## 206               6             9                   4       13                0
## 212               9            18                   2       10                0
## 218              13            17                   3       15                0
## 229               8            14                   3       15                0
## 232               9            13                   6       13                0
## 234               7             7                   3        8                0
## 236               8            21                   2        9                0
## 246              19            32                  13       20                0
## 247               6            16                   5        7                0
## 262              16            21                   8       20                0
## 285              10            30                   2       11                0
## 296              15            16                   5       16                0
## 302               3             4                   3        6                0
## 304               8             9                   4       10                0
## 324              11            27                   4       22                0
## 326               6             8                   6        8                0
## 328               5             7                   4        8                0
## 329               2             4                   2        4                0
## 330               8            11                   6       10                0
## 338              12            17                   9       15                0
## 353              12            17                   6       16                0
## 357               7            13                   7       11                0
## 361              18            34                  15       22                0
## 370               3             4                   2        5                0
## 377               6            11                   4        9                0
## 382               9            17                   5       28                0
## 410               6            24                   3       10                0
## 428              11            15                   5       13                0
## 450               2             4                   1        6                0
## 465               7            12                   4        9                0
## 466              10            12                   3       13                0
## 471               4             5                   3       19                0
## 479               6            10                   5        9                0
## 485              15            25                   6       14                0
## 491              12            16                   8       15                0
## 496               7            16                   2        9                0
## 497              23            35                  16       28                0
## 499               7            10                   4       14                0
## 548               2            12                   2        3                0
## 558              13            14                   2       17                0
## 570              17            23                   9       21                0
```

```
## 577          21          45           6        23           0
## 579           6          10           2         7           0
## 608           4          26           1         5           0
## 626           1           3           1        11           0
## 634           3          13           2         7           0
## 636           9          10           7        12           0
## 641          10          15           9        13           0
## 658           3           9           2         4           0
## 660           6          12           5        10           0
## 670           9          23           7        23           0
## 674           7           9           6         9           0
## 689          11          13           6        18           0
## 696           9          19           3        12           0
## 705           6          11           5         8           0
## 713          12          15          10        16           0
## 752           8           9           4        14           0
## 790           9          19           6        13           0
## 799          10          17           2        25           0
## 819           8           9           6        12           0
## 840          26          30           9        30           0
## 844           9          14           2        10           0
## 845          11          23           5        15           0
## 855           7          16           6        10           0
## 866           4           9           4         6           0
## 869           2          10           1         7           0
## 899          13          19           3        18           0
## 904           4           8           4         5           0
## 917          10          12           7        14           0
## 940           8           8           7        11           0
## 957           1           6           1         5           0
## 960           5          10           4        12           0
## 993           5          10           4        13           0
## 998          11          16           8        16           0
## 1025         10          19           8        24           0
## 1056          9          10           5        11           0
## 1063         21          25           9        23           0
## 1083          8          12           5        12           0
## 1105          8          10           7        11           0
## 1117          6          15           4         7           0
## 1118          2           5           2         4           0
## 1146          7           9           6        10           0
## 1170          5          17           4        11           0
## 1227          8          20           8        11           0
## 1263          7           8           5         9           0
## 1264          4          16           4         6           0
## 1273          7          15           6        10           0
## 1285         14          31           5        18           0
## 1319         12          30           8        14           0
## 1337          5           7           1         8           0
## 1349          7           8           5        17           0
## 1351         20          25          15        23           0
## 1356          7           9           2         8           0
## 1386          6          13           4        12           0
## 1388          4          10           2         7           0
## 1390         12          20           3        17           0
## 1410         10          13           5        15           0
## 1416          5          17           1         8           0
## 1434          6           9           5         8           0
## 1439          3           7           1         4           0
## 1449         11          18           5        17           0
## 1459          8           8           5        11           0
## 1462         11          14          10        15           0
## 1480          5          13           5         8           0
## 1484          7           9           3        11           0
## 1487          6           6           5        10           0
## 1527         13          15           7        14           0
## 1529          7          16           4         8           0
## 1530          4          10           3         5           0
## 1545          7          20           2         8           0
## 1567          6          11           6         8           0
## 1597          3           3           2         7           0
## 1601         12          13           9        13           0
## 1623          2           8           2         4           0
## 1633          6          14           4        12           0
## 1636          3          12           3         8           0
## 1640          6          10           2        11           0
## 1645          3           8           3         8           0
## 1650          9          17           6        12           0
## 1671         11          15           5        13           0
## 1672          9          21           6        11           0
## 1696          2           3           2         4           0
## 1704          5          12           2         8           0
## 1721          3           8           2         8           0
## 1724          6          15           3        10           0
## 1728         11          16           6        14           0
## 1730          7           9           6        10           0
## 1734          4           4           1        11           0
## 1752          6          32           5        12           0
## 1771          5           7           1        10           0
## 1816         21          30          17        27           0
## 1846         15          30          10        19           0
## 1850         10          12           5        17           0
## 1853          9          16           3        12           0
## 1856          6          21           4         9           0
## 1857          6          20           4         9           0
## 1862          9          10           4        11           0
## 1865         12          12          10        15           0
## 1866          7          12           4        10           0
```

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## 1867          4          8                4       7              0
## 1896          2          4                2       7              0
## 1905          5          6                3      10              0
## 1907          6          7                5       9              0
## 1922          5          5                4       8              0
## 1930         11         17                5      13              0
## 1933         11         35                1      14              0
## 1952         22         38               10      24              0
## 1956          4          5                3       5              0
## 1961          5         10                5       9              0
## 1963         11         13                4      14              0
## 2004          3          7                2       5              0
## 2012         11         16                7      16              0
## 2017          5          9                4       6              0
## 2019          7         12                3      10              0
## 2026          4         12                2       6              0
## 2027         11         20                6      15              0
## 2039          4          8                3       7              0
## 2041          7         10                2      11              0
## 2051         23         34                7      25              0
## 2060         10         11                4      13              0
## 2065         18         24               12      19              0
## 2073         10         18                1      13              0
## 2105         17         33               11      21              0
## 2117         13         26                4      16              0
## 2128         40         57               22      43              0
## 2129         10         12                4      14              0
## 2136         10         10                3      11              0
## 2137          6         10                6      10              0
## 2148          2          9                2       8              0
## 2155          5          9                2       7              0
## 2168          6         10                5      10              0
## 2197          6         12                3       9              0
## 2215         12         21                7      16              0
## 2224          3         14                3       5              0
## 2234          8         14                5      12              0
## 2255          8         14                6      14              0
## 2258          6         10                3       9              0
## 2286          3         13                1       9              0
## 2296         10         15                5      23              0
## 2329          3         11                2       8              0
## 2342          6         10                5      10              0
## 2347         21         36               17      25              0
## 2357          7          8                4      12              0
## 2377          9         14                6      14              0
## 2393          7         14                7      18              0
## 2396          4         13                3       7              0
## 2399          9         11                3      18              0
## 2405          6          8                2      11              0
## 2420          4         14                2       5              0
## 2425          3          3                3       5              0
## 2429          5          9                2      13              0
## 2439         16         22                8      19              0
## 2447         12         20                6      15              0
## 2449          2          3                2       5              0
## 2457          5          7                4       7              0
## 2478         10         23                6      11              0
## 2480          9         26                7      13              0
## 2492         19         39                7      21              0
## 2494         11         12                5      15              0
## 2504         12         19                8      15              0
## 2510         11         15                4      15              0
## 2514          5          6                2       7              0
## 2516          4          8                3      19              0
## 2522         15         27               10      17              0
## 2529         11         32                7      14              0
## 2535          6          9                4       7              0
## 2545          7         13                3      10              0
## 2549          6         20                4      22              0
## 2593          3         12                2       6              0
## 2598          6          9                0       9              0
## 2604         22         34                5      26              0
## 2628          3          8                1       6              0
## 2631          5         13                2       8              0
## 2661          8         15                3      12              0
## 2673          5          5                3       7              0
## 2692         13         17                2      17              0
## 2707          4         11                3       6              0
## 2714          5         20                4       9              0
## 2715          5         11                3      13              0
## 2761          6         16                3       9              0
## 2772          4          5                4       9              0
## 2788          7         22                3      14              0
## 2789          6         13                3      19              0
## 2820         12         13                5      17              0
## 2840          5          6                2       9              0
## 2856          8         19                2      11              0
## 2858          9         34                5      11              0
## 2861          5          7                3       9              0
## 2872          9         12                5      18              0
## 2877         11         14                9      16              0
## 2878          6         17                3      11              0
## 2879          4          7                3      10              0
## 2893         11         12                4      14              0
## 2913          6         20                3       8              0
## 2915          2          6                2       4              0
## 2918          6          9                5       9              0
## 2940         13         28                6      16              0
```

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## 2942          13          20           7        18           0
## 2954          11          16           8        15           0
## 2976           6           8           5        16           0
## 2977          12          16           9        14           0
## 2978           6          14           4         9           0
## 2982          13          20           8        17           0
## 3002           5          11           4         9           0
## 3012           8          13           7        11           0
## 3017           8          11           7        10           0
## 3018           9          12           8        16           0
## 3021           6          12           5        10           0
## 3034          16          31           7        19           0
## 3045           6          15           4        11           0
## 3050          15          21           4        17           0
## 3057           9           9           5        10           0
## 3071           7          14           5        18           0
## 3104           7          10           6         8           0
## 3112           4          12           3         5           0
## 3124          22          36          13        27           0
## 3150           3          12           3         7           0
## 3160          11          34           6        14           0
## 3165          13          17           6        15           0
## 3172           5          13           0         9           0
## 3177           4           5           4         7           0
## 3213          13          17           7        14           0
## 3222           9          22           2        12           0
## 3237           8          19           8        22           0
## 3252           8          11           6         9           0
## 3257          13          16           5        16           0
## 3258           5           7           5         7           0
## 3265           7          11           5        11           0
## 3276           5          17           1         9           0
## 3289           4           6           3        10           0
## 3307          11          24          10        18           0
## 3312          21          25          12        23           0
## 3317          17          33           8        21           0
## 3333           6           9           5         9           0
## 3366           9          17           9        16           0
## 3383           4          11           3         8           0
## 3419           5           8           3        10           0
## 3421          11          13           8        15           0
## 3422           9          12           3        13           0
## 3429          12          17           8        17           0
## 3433           9          10           5        12           0
## 3449           6          13           4         9           0
## 3458           5           9           1         8           0
## 3467          10          11           6        12           0
## 3471          12          26           6        19           0
## 3480          10          11           9        15           0
## 3482           4           5           2         6           0
## 3502           7          14           2         9           0
## 3504           9          12           7        10           0
## 3507           5           7           5        15           0
## 3536           8           8           6        14           0
## 3538          19          25           7        23           0
## 3542           6          16           5         9           0
## 3547          11          14           7        13           0
## 3553           4           5           2         8           0
## 3567           3           6           2         7           0
## 3590          13          22           7        18           0
## 3607           9          12           7        12           0
## 3623          18          21           3        21           0
## 3635          10          12           7        13           0
## 3655           9          15           4        12           0
## 3684           5           6           2         7           0
## 3687           2           6           2         7           0
## 3688          20          22           7        22           0
## 3699           5          16           3         7           0
## 3701           1          12           1         2           0
## 3712           8          12           5        10           0
## 3730          12          14           3        15           0
## 3749           8          18           4        12           0
## 3756          13          31          10        16           0
## 3758           2          11           2         6           0
## 3771           7          14           1         8           0
## 3785          13          34           5        14           0
## 3788           6          20           5         7           0
## 3852           9          15           8        12           0
## 3857           7           8           0         8           0
## 3865          12          13           9        15           0
## 3889           2           8           2         4           0
## 3892          15          30           5        17           0
## 3901           3           6           2         6           0
## 3917          11          14           8        13           0
## 3924           6           6           3         9           0
## 3938          14          20           5        18           0
## 3947          10          14          10        15           0
## 3949           4           4           4         5           0
## 3959           3           4           1         8           0
## 3977           4           8           3         7           0
## 3990          10          20           7        19           0
## 4001           5           9           2         6           0
## 4003          11          16           8        16           0
## 4016           8          17           4        12           0
## 4017           6           7           5         9           0
## 4021           6          15           6        14           0
## 4022          14          26           9        21           0
## 4026           5           7           5        11           0
```

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## 4036          8          8                6       11              0
## 4049          9         23                2       19              0
## 4054          4          6                3        7              0
## 4093         13         24                6       16              0
## 4099          6         16                2        8              0
## 4104          2          7                1        4              0
## 4107          3          4                2        6              0
## 4110          9         12                9       13              0
## 4122         19         21               13       23              0
## 4128          9          9                7       14              0
## 4131          1         10                1        4              0
## 4133          4          6                3        5              0
## 4135          4          7                2        5              0
## 4151          7         11                5       12              0
## 4153          4         18                2        9              0
## 4157         10         13                5       16              0
## 4233          3          9                2        5              0
## 4237          8         12                4       13              0
## 4254         10         21                9       12              0
## 4258          2          2                2        4              0
## 4259          7          7                4       11              0
## 4261         10         16                7       15              0
## 4265          5         11                3        9              0
## 4269          8         16                4       13              0
## 4297          5         12                4        8              0
## 4307         10         20                4       11              0
## 4341          7         20                5        9              0
## 4342          8         11                6       12              0
## 4351          8         19                3        8              0
## 4352          9         15                5       12              0
## 4376          7         12                3       10              0
## 4395          9         15                6       11              0
## 4412         15         20               15       18              0
## 4414          9         14                4       12              0
## 4448          4         13                3        6              0
## 4466          9         10                7       11              0
## 4476         14         19               13       25              0
## 4477          4          8                2        6              0
## 4498          3          4                3       11              0
## 4501          9         13                7       10              0
## 4506         12         24                6       17              0
## 4517          7         10                6       13              0
## 4524          4          7                4        8              0
## 4532          5          9                2       17              0
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## 4565          4         15                2        6              0
## 4580          7          9                4       11              0
## 4584          5         16                3        9              0
## 4586         19         20               13       22              0
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## 4632         12         21                4       15              0
## 4682          9         11                5       12              0
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## 4692          7          8                6       10              0
## 4712          2          3                2        4              0
## 4743         11         16                7       13              0
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## 4769         12         17                6       14              0
## 4774          8         16                7       13              0
## 4775         14         27                8       20              0
## 4786          5          7                1       16              0
## 4791          4          7                4       12              0
## 4792         13         16                7       14              0
## 4797          9          9                5       13              0
## 4801          6          7                3        9              0
## 4816          5          9                4        8              0
## 4818         15         22                5       18              0
## 4832         23         40                8       24              0
## 4834         10         23                6       19              0
## 4880          8         16                5       11              0
## 4921          2          5                2        3              0
## 4922          5         16                4        9              0
## 4934          3          3                2        5              0
## 4951          7          7                6        9              0
## 4958          2          4                1       13              0
## 4985         10         12                9       12              0
## 5010          7          7                3        9              0
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## 5036         24         33               15       26              0
## 5038          6          7                1       16              0
## 5059          6         21                5        7              0
## 5060          3         10                0        6              0
## 5070          8          9                6       10              0
## 5103          7         10                3        9              0
## 5134          9         15                7       12              0
## 5136          5          8                4        9              0
## 5155         10         24                6       16              0
## 5157         13         37                5       21              0
## 5162         18         24                4       20              0
## 5163         10         12                5       16              0
## 5168         23         24               13       28              0
## 5169         12         17                8       17              0
## 5177          7         18                6       13              0
## 5184         59         91               11       62              0
## 5186          6         11                2        9              0
## 5218          9         23                6       12              0
```

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## 5220          6          7          4         10          0
## 5221          8         12          4         13          0
## 5244          3         11          1          6          0
## 5255         17         28         10         19          0
## 5278          3          6          2          4          0
## 5295         13         21          5         14          0
## 5317          4          5          2          8          0
## 5325         10         14          9         12          0
## 5345          8         12          3          9          0
## 5348          5         12          5          8          0
## 5354         10         22          4         12          0
## 5356          9         10          8         10          0
## 5358         12         33          9         17          0
## 5365          8          9          7         12          0
## 5379          8         10          7         17          0
## 5390          7         12          6         10          0
## 5406          3         21          1          6          0
## 5416         23         34         20         30          0
## 5431          5          5          2         12          0
## 5442          7          9          6         11          0
## 5467          6         10          3         10          0
## 5494          8         14          7         10          0
## 5554          5          6          5          8          0
## 5556         11         12         10         12          0
## 5565         10         16          3         11          0
## 5566         11         12         10         15          0
## 5568          4          6          3          7          0
## 5574          9         17          7         11          0
## 5597          2          3          2          5          0
## 5621         10         12          7         14          0
## 5623         11         12          8         15          0
## 5643         14         23          5         17          0
## 5664          3         10          3          6          0
## 5666         10         10          9         11          0
## 5720          2          6          2          7          0
## 5731          6          6          5          8          0
## 5733         17         28         12         20          0
## 5734          5         11          4          9          0
## 5749          4          8          3          6          0
## 5759          7         20          5         15          0
## 5760          5         10          5         10          0
## 5784          4          7          2         11          0
## 5786          7         18          5          9          0
## 5794          9         16          2         15          0
## 5806         22         35         13         27          0
## 5809         10         12          9         12          0
## 5827         23         38         14         24          0
## 5848          9         13          9         12          0
## 5849          7         14          3         13          0
## 5860          9          9          5         11          0
## 5874          6          8          4          8          0
## 5876         10         10          3         11          0
## 5886         15         29         12         17          0
## 5923          6          7          6          9          0
## 5948         22         38          6         25          0
## 5962         14         19         12         19          0
## 5974          6         12          5          7          0
## 6002         13         25          5         16          0
## 6051          3          5          3          5          0
## 6057          5          8          4          7          0
## 6083          6          7          5         10          0
## 6097         10         14          8         13          0
## 6126          4          5          4          5          0
## 6157         10         11          4         12          0
## 6159          6         21          2         12          0
## 6164          2          5          2          7          0
## 6165         11         20          3         12          0
## 6174          5         13          2          8          0
## 6183         10         13          6         13          0
## 6196          9         19          8         12          0
## 6203          9         12          6         11          0
## 6204         10         19          6         10          0
## 6207          5          6          4          7          0
## 6209          9         17          4         12          0
## 6237          7         11          3         13          0
## 6247          9         16          3         11          0
## 6250         13         21          5         18          0
## 6253          9         17          8         12          0
## 6289          9         12          6         11          0
## 6294          8         19          3         10          0
## 6298          6          7          3          9          0
## 6307          2          3          2          6          0
## 6316         10         26          6         13          0
## 6333          2          2          2          3          0
## 6352         15         29          3         17          0
## 6367          7         17          3         19          0
## 6388          9         18          7         13          0
## 6396          4          4          2          6          0
## 6402          6          6          5          9          0
## 6407         11         16          7         15          0
## 6410          9         17          5         10          0
## 6421          6          9          5         29          0
## 6422          5         10          4          8          0
## 6435         12         12         12         18          0
## 6449          9         14          3         17          0
## 6455         11         21          9         15          0
## 6456          4          6          4          8          0
## 6468          6         15          3          9          0
```

```
## 6470          2          7          2       4          0
## 6477          9         15          3      11          0
## 6490         17         35         11      22          0
## 6504          7          9          6       9          0
## 6505          9         16          5      17          0
## 6530         19         21         13      23          0
## 6533         21         43          3      24          0
## 6560          6         10          5       9          0
## 6570          6         21          3      16          0
## 6585         19         33         10      20          0
## 6599         10         22          3      13          0
## 6612          3          4          2       4          0
## 6617         10         11          7      13          0
## 6628         17         29          8      18          0
## 6642          8         12          5      10          0
## 6651         13         17          4      18          0
## 6653          4         11          2      10          0
## 6660         10         22          6      15          0
## 6673          8         10          6      12          0
## 6675         11         24          5      14          0
## 6680          7          8          7      11          0
## 6696          7         11          4       9          0
## 6712         10         18          3      14          0
## 6736          9         13          2      12          0
## 6750          7          7          4      11          0
## 6782         15         17         12      20          0
## 6784          3          3          2       5          0
## 6793          4          9          1      10          0
## 6815         11         12          3      14          0
## 6833          3          7          2       4          0
## 6854          3          4          2      21          0
## 6855          6         18          3       9          0
## 6878         20         37          5      23          0
## 6879          5         16          2       8          0
## 6884         15         21          8      16          0
## 6906         10         24          8      16          0
## 6922         11         21          8      12          0
## 6936          3         12          2       7          0
## 6950          8         13          3      20          0
## 6964          5         13          4      18          0
## 6984          5         12          4      15          0
## 6985         13         15          7      17          0
## 6993         23         43         13      27          0
## 7000          6          8          4       9          0
## 7021         11         21         10      13          0
## 7027          3          9          1       4          0
## 7034          7         10          4      13          0
## 7038          6         16          4      10          0
## 7039         16         30         13      20          0
## 7043          4          6          2       8          0
## 7068          8         11          4      11          0
## 7081          4          7          3      17          0
## 7095          7          8          3       8          0
## 7096          5          8          4       7          0
## 7099         11         24          9      13          0
## 7111          2          2          2       6          0
## 7115         12         17          4      16          0
## 7132          9         13          8      12          0
## 7133          8         11          6      12          0
## 7147         13         17          9      16          0
## 7158          2          4          2       5          0
## 7167          5          9          4      14          0
## 7168          8         20          6       9          0
## 7169          2          8          2       6          0
## 7188          2         12          2       6          0
## 7193          4          9          3       8          0
## 7232          8         22          2      12          0
## 7237         10         11          4      22          0
## 7249          7         10          5       9          0
## 7255         15         19         12      17          0
## 7262         13         29          3      20          0
## 7279          6         16          3       6          0
## 7302         14         16         11      19          0
## 7310         14         18         11      22          0
## 7323          8         13          3      15          0
## 7344          8          9          7       9          0
## 7353          8         10          3      11          0
## 7355          3          4          3       7          0
## 7426          6          8          5      10          0
## 7445         11         15         10      14          0
## 7446          4         11          1       5          0
## 7460          6         14          4       9          0
## 7465          6          8          6       9          0
## 7474          4          6          3       9          0
## 7479          9         15          7      13          0
## 7485         17         25          7      27          0
## 7530          5         13          4      14          0
## 7533          2          3          1       4          0
## 7538          6         20          3       9          0
## 7555          9         14          4      14          0
## 7562         13         22          9      19          0
## 7564          2          4          2       3          0
## 7579         23         28         14      27          0
## 7591          8         12          7       9          0
## 7594          8          9          0       9          0
## 7612         13         13          8      18          0
## 7619         14         17          4      19          0
## 7621         11         20          7      19          0
```

```
## 7704          13          17          11          19          0
## 7715           6          25           4          12          0
## 7737          10          30           4          13          0
## 7777           8           9           5          11          0
## 7792           2          30           2           5          0
## 7794           6           9           4          10          0
## 7824          11          16           9          24          0
## 7828           2           5           2          11          0
## 7833           8          15           5          11          0
## 7838          11          15           6          15          0
## 7840           8           8           8           9          0
## 7882           3           5           3          15          0
## 7893           6          18           4          10          0
## 7900          13          35           3          17          0
## 7910          11          20           5          13          0
## 7925           6          11           3          11          0
## 7945          13          18          10          15          0
## 7963          11          13           4          12          0
## 7972           6           6           3           8          0
## 7980          11          13           7          13          0
## 7985           4           6           2          17          0
## 8006          21          30          14          26          0
## 8009           9          12           6          12          0
## 8024          15          21           8          17          0
## 8042           5           5           5          15          0
## 8046          14          16          11          16          0
## 8047           7           9           4          10          0
## 8080           3           7           3          12          0
## 8086           8          22           3          13          0
## 8111           7          11           3          20          0
## 8125           8           8           3           9          0
## 8140          19          29          12          27          0
## 8148          12          19          10          18          0
## 8154          11          14           4          15          0
## 8174          19          21           9          21          0
## 8192          12          17           5          13          0
## 8261           3           7           3           6          0
## 8269           2           3           1           6          0
## 8275           5           9           3          14          0
## 8287           4          17           3           7          0
## 8303          11          14           6          15          0
## 8304           8          10           4          12          0
## 8339          14          21           6          21          0
## 8352          19          47          10          25          0
## 8370           7           9           6           8          0
## 8384           4           8           2           6          0
## 8388           7          10           5          29          0
## 8400           6          10           4           8          0
## 8420           8          17           3           9          0
## 8432          12          23           5          15          0
## 8439           4           4           3           8          0
## 8440           7          19           4          12          0
## 8444           6           6           3           8          0
## 8455          23          26          15          27          0
## 8457           4          13           3           6          0
## 8460           5          14           4          14          0
## 8466           5          16           5           8          0
## 8478          12          15           4          15          0
## 8485           9          17           4          11          0
## 8494           1           3           1          14          0
## 8495          21          31           7          26          0
## 8503           8          13           8          12          0
## 8520           2           2           2          13          0
## 8546           2           4           1           4          0
## 8548          12          15           9          15          0
## 8562           3          15           3           5          0
## 8577          12          21          10          15          0
## 8582           7           7           4          12          0
## 8584           7          17           3          12          0
## 8593          11          24           8          12          0
## 8597           7          12           6          14          0
## 8601          13          21           4          14          0
## 8603           5          11           3          16          0
## 8645           2          10           1           5          0
## 8659          10          21           8          16          0
## 8679           7          14           6          12          0
## 8682           8          11           5          13          0
## 8691           7          15           3          10          0
## 8695          30          33          24          41          0
## 8698          16          25           9          19          0
## 8725          12          23           1          14          0
## 8730           9          12           7          23          0
## 8733           6          13           6          11          0
## 8734           6          18           3          10          0
## 8748           5           5           4           6          0
## 8755           9          16           5          11          0
## 8774          12          19           9          19          0
## 8784           7          11           6           8          0
## 8789          12          21           6          16          0
## 8799           9          18           4          13          0
## 8813           4           7           4           8          0
## 8815           8          37           3          11          0
## 8827           6           7           3          12          0
## 8829           1           7           1           5          0
## 8833           4           7           2           6          0
## 8836           5          12           4           9          0
## 8842           6           9           3          10          0
## 8849           9          17           3          11          0
```

```
## 8863          4          14           2       8           0
## 8879          8          20           4      12           0
## 8886         10          18           5      12           0
## 8889          5           7           4       7           0
## 8930          2           3           2       3           0
## 8934          3          15           3       6           0
## 8936         17          26           7      20           0
## 8940         11          15           6      14           0
## 8949         15          19           3      18           0
## 8952          3           5           3       7           0
## 8954         11          14          11      17           0
## 8996         14          16          10      19           0
## 9028          5          15           4       8           0
## 9029          7           7           2       8           0
## 9039          7           8           7      12           0
## 9043          4          15           3       9           0
## 9044         10          22           3      17           0
## 9046         15          25           8      21           0
## 9062          5           7           3      10           0
## 9065         14          27           4      19           0
## 9144          4           8           2       6           0
## 9172         14          23          12      18           0
## 9184         10          14           3      14           0
## 9201         35          53          10      38           0
## 9213         13          29          10      14           0
## 9224          5           8           2      16           0
## 9233         11          12           6      13           0
## 9239         10          18           4      14           0
## 9256          7           9           4      23           0
## 9260         13          19          10      14           0
## 9272          4           5           4       9           0
## 9279          8          14           5      11           0
## 9290          4          11           3       6           0
## 9302          4           8           1       7           0
## 9308         10          15           5      13           0
## 9315         15          20          11      17           0
## 9320          9          19           5      12           0
## 9341         10          12           5      12           0
## 9379          5           5           4       8           0
## 9400          7          12           5       9           0
## 9418         12          17          10      15           0
## 9437          7           8           3      10           0
## 9477         16          21           8      19           0
## 9495          6          11           3      19           0
## 9496         14          36           4      22           0
## 9505          6          12           6      11           0
## 9532          7          12           6      11           0
## 9538          3           6           2       4           0
## 9583          6           6           6       7           0
## 9585          3           5           3       6           0
## 9597          5          10           3       6           0
## 9608          5           6           3       8           0
## 9620          7          10           5      10           0
## 9661         15          16          11      18           0
## 9687         12          16           6      15           0
## 9693          4           5           3      17           0
## 9703          7          11           5      12           0
## 9709          2           6           0       5           0
## 9726          3          10           1       4           0
## 9805          7          12           1       9           0
## 9806          4          23           4       5           0
## 9809         10          14           9      12           0
## 9824          4           9           3       6           0
## 9826         11          27           5      15           0
## 9837         16          26           7      19           0
## 9841          4          13           1       6           0
## 9844          9          33           7      12           0
## 9849          4           6           4       8           0
## 9912          5           8           5       9           0
## 9925          9          12           5      13           0
## 9926         11          18           4      16           0
## 9933         10          20           8      12           0
## 9937          9          26           3      11           0
## 9941          9          26           3      10           0
## 9951          5           5           4      17           0
## 9960          6          12           3      10           0
## 9987         10          13           8      18           0
## 9997          4           6           2       6           0
## 10003        10          15           9      21           0
## 10010         3          14           1       8           0
## 10011         6          18           3      11           0
## 10047        20          30          15      21           0
## 10050         4          12           4       8           0
## 10093        23          58          14      26           0
## 10104        11          19           2      15           0
## 10111         6          13           3       9           0
## 10131        13          24           7      31           0
## 10137         3          14           3       5           0
## 10144         8          12           7      11           0
## 10169         9          20           7      13           0
## 10172        18          22           4      19           0
## 10176         7           8           7      11           0
## 10184         9          12           6      13           0
## 10202         6          22           6       9           0
## 10209         5           7           2       7           0
## 10215         7          16           5       9           0
## 10242         9          16           5      12           0
## 10248         3          10           2       6           0
```

```
## 10267            11            20                  8       18                0
## 10275             4             8                  2        8                0
## 10276            13            15                  2       17                0
##       num_tl_30dpd num_tl_90g_dpd_24m num_tl_op_past_12m pct_tl_nvr_dlq
## 35               0                  1                  2           95.3
## 54               0                  0                  0           94.7
## 59               0                  0                  9           97.9
## 60               0                  0                  6           96.6
## 71               0                  0                  1           96.2
## 73               0                  0                  0           97.7
## 74               0                  6                  0           76.9
## 90               0                  0                  5           90.9
## 101              0                  0                  1           87.5
## 124              0                  0                  3           84.0
## 137              0                  0                  2           90.9
## 142              0                  0                  1           95.7
## 143              0                  0                  3           96.8
## 160              0                  1                  5           94.4
## 161              0                  0                  2           93.8
## 165              0                  0                  3           97.0
## 174              0                  0                  9           97.4
## 192              0                  0                  2           58.3
## 193              0                  0                  3           95.8
## 206              0                  0                  3           91.7
## 212              0                  0                  2           96.7
## 218              0                  0                  2           96.8
## 229              0                  0                  6           86.0
## 232              0                  0                  6           95.8
## 234              0                  0                  5           92.3
## 236              0                  0                  6           96.2
## 246              0                  0                  5           95.0
## 247              0                  0                  0           84.2
## 262              0                  0                  5          100.0
## 285              0                  0                  2           89.5
## 296              0                  0                  8           89.5
## 302              0                  0                  4           91.7
## 304              0                  0                  3           84.2
## 324              0                  0                  5           97.7
## 326              0                  0                  3           92.9
## 328              0                  0                  1           83.3
## 329              0                  0                  3           91.7
## 330              0                  0                  1           75.0
## 338              0                  0                  2           87.0
## 353              0                  0                  4           96.0
## 357              0                  0                  4           96.6
## 361              0                  0                  2           95.5
## 370              0                  0                  2           87.5
## 377              0                  0                  1           90.0
## 382              0                  0                  7           84.0
## 410              0                  1                  1           97.7
## 428              0                  0                  1           95.5
## 450              0                  0                  1           81.8
## 465              0                  0                  0           96.0
## 466              0                  0                  1           83.9
## 471              0                  2                  3           57.7
## 479              0                  0                  0           92.9
## 485              0                  0                  5           85.7
## 491              0                  0                  2           96.7
## 496              0                  0                  3           90.0
## 497              0                  0                  0           97.9
## 499              0                  1                  0           95.5
## 548              0                  0                  2           88.2
## 558              0                  0                  4           86.4
## 570              0                  0                  6           92.9
## 577              0                  0                  1           96.1
## 579              0                  0                  0           95.2
## 608              0                  0                  3           98.4
## 626              0                  0                  3           91.4
## 634              0                  0                  2           88.9
## 636              0                  0                  1           94.1
## 641              0                  0                  3           82.9
## 658              0                  0                  2           82.1
## 660              0                  1                  0           52.4
## 670              0                  0                  1           76.2
## 674              0                  0                  4           94.4
## 689              0                  0                  1           97.7
## 696              0                  0                  2           88.5
## 705              0                  0                  3           92.9
## 713              0                  0                  2           94.3
## 752              0                  0                  0           75.0
## 790              0                  0                  3           97.4
## 799              0                  0                  1           79.4
## 819              0                  0                  4           94.4
## 840              0                  0                  7           97.3
## 844              0                  0                  3           79.2
## 845              0                  0                  1           97.2
## 855              0                  0                  3           93.5
## 866              0                  0                  0           93.8
## 869              0                  0                  3           80.0
## 899              0                  0                  3           93.9
## 904              0                  0                  2           51.7
## 917              0                  0                  1           86.4
## 940              0                  0                  3           84.6
## 957              0                  0                  1           78.6
## 960              0                  0                  1           96.8
## 993              0                  1                  1           92.3
## 998              0                  0                  4           91.2
## 1025             0                  0                  1           95.6
```

```
## 1056          0                0                9         100.0
## 1063          0                0               12          92.9
## 1083          0                0                4          94.4
## 1105          0                1                1          95.8
## 1117          0                0                4          95.7
## 1118          0                0                1          87.5
## 1146          0                0                1          85.7
## 1170          0                1                3          96.7
## 1227          0                0                5          74.2
## 1263          0                0                7          75.0
## 1264          0                0                3          80.8
## 1273          0                0                1          93.3
## 1285          0                0                6          95.8
## 1319          0                0                3          97.3
## 1337          0                0                6          81.3
## 1349          0                0                7          90.0
## 1351          0                0                4          91.3
## 1356          0                0                6          88.2
## 1386          0                0                2          95.7
## 1388          0                0                1          81.3
## 1390          0                0                2          82.8
## 1410          0                0                2          92.0
## 1416          0                0                5          94.4
## 1434          0                0                1          85.7
## 1439          0                0                1          90.9
## 1449          0                0                5          96.7
## 1459          0                0                4          95.6
## 1462          0                3                2          90.7
## 1480          0                0                0          87.0
## 1484          0                0                2          68.8
## 1487          0                0                2          91.7
## 1527          0                0                2          88.2
## 1529          0                0                2          82.6
## 1530          0                0                2          72.7
## 1545          0                0                4          92.9
## 1567          0                0                3          83.3
## 1597          0                1                3          80.0
## 1601          0                0                5          96.2
## 1623          0                0                0          78.9
## 1633          0                0                1          74.2
## 1636          0                1                1          90.6
## 1640          0                0                4         100.0
## 1645          0                0                3          73.3
## 1650          0                0                3          97.7
## 1671          0                0                3         100.0
## 1672          0                1                2          96.9
## 1696          0                1                1          83.3
## 1704          0                0                2          66.7
## 1721          0                0                0          43.8
## 1724          0                0                3          93.9
## 1728          0                0                4          81.8
## 1730          0                0                1          84.6
## 1734          0                0                1          76.5
## 1752          0                0                1          98.2
## 1771          0                0                1         100.0
## 1816          0                0                4          89.5
## 1846          0                0                1          94.9
## 1850          0                0                3          96.0
## 1853          0                0                3          98.0
## 1856          0                0                5          97.7
## 1857          0                0                1          91.8
## 1862          0                0                2          95.0
## 1865          0                0                2          95.5
## 1866          0                0                2          95.0
## 1867          0                0                1          95.7
## 1896          0                0                2          93.8
## 1905          0                0                1          89.3
## 1907          0                0                4          84.0
## 1922          0                0                1          88.2
## 1930          0                0                6          96.0
## 1933          0                0                1          84.4
## 1952          0                0                3          93.3
## 1956          0                0                1          85.7
## 1961          0                0                3          78.3
## 1963          0                0                9          95.0
## 2004          0                0                2          94.7
## 2012          0                0                1          97.0
## 2017          0                0                0          75.0
## 2019          0                0                0         100.0
## 2026          0                0                3          94.4
## 2027          0                0                1          97.5
## 2039          0                0                2          76.9
## 2041          0                0                3          97.3
## 2051          0                0                3          94.7
## 2060          0                0                3          93.5
## 2065          0                0                1          96.7
## 2073          0                0                3          97.5
## 2105          0                0                3          97.7
## 2117          0                0                2          91.7
## 2128          0                0                3          98.6
## 2129          0                0                4          95.8
## 2136          0                0                5          92.3
## 2137          0                0                3          68.2
## 2148          0                0                3          96.3
## 2155          0                0                2          93.3
## 2168          0                0                2          96.2
## 2197          0                0                1         100.0
## 2215          0                0                1          90.3
```

```
## 2224          0                0                2          63.2
## 2234          0                0                6          97.4
## 2255          0                0                3          96.6
## 2258          0                0                1          75.9
## 2286          0                1                1          90.0
## 2296          0                0                4         100.0
## 2329          0                2                2          69.6
## 2342          0                0                3          81.3
## 2347          0                0                2          95.8
## 2357          0                0                2          94.7
## 2377          0                0                0          81.8
## 2393          0                0                5          95.6
## 2396          0                0                3          73.1
## 2399          0                0                5          84.0
## 2405          0                0                4          96.3
## 2420          0                0                3          89.3
## 2425          0                0                0          80.0
## 2429          0                0                3          90.0
## 2439          0                0                2          86.2
## 2447          0                0                6          92.5
## 2449          0                1                0          80.0
## 2457          0                0                1          80.0
## 2478          0                0                1          92.9
## 2480          0                0                1          85.7
## 2492          0                0               12          86.7
## 2494          0                0                2          95.7
## 2504          0                0                0          96.3
## 2510          0                0                3          97.4
## 2514          0                0                1          66.7
## 2516          0                1                1          95.7
## 2522          0                0                7          90.9
## 2529          0                0                2          95.8
## 2535          0                0                4         100.0
## 2545          0                0                2          95.0
## 2549          0                0                4          98.0
## 2593          0                0                1          95.7
## 2598          0                0                5          94.7
## 2604          0                0               11          93.6
## 2628          0                0                0          88.9
## 2631          0                0                2          97.9
## 2661          0                0                5          91.4
## 2673          0                0                1          75.0
## 2692          0                0                3          91.2
## 2707          0                0                1          93.3
## 2714          0                0                0          91.2
## 2715          0                0                2          96.7
## 2761          0                0                1          84.6
## 2772          0                0                1          87.0
## 2788          0                0                7          97.0
## 2789          0                0                3          76.1
## 2820          0                0                1          81.5
## 2840          0                0                5          87.5
## 2856          0                1                2          79.2
## 2858          0                0                6          95.5
## 2861          0                0                1          95.2
## 2872          0                0                2          91.3
## 2877          0                0                4          97.0
## 2878          0                0                2          71.4
## 2879          0                0                2          95.2
## 2893          0                0                5          84.2
## 2913          0                0                2          97.8
## 2915          0                0                0          90.5
## 2918          0                0                6          93.8
## 2940          0                0                4          58.7
## 2942          0                0                0          94.1
## 2954          0                0                3          93.3
## 2976          0                0                3          94.4
## 2977          0                0                4          94.7
## 2978          0                0                3          73.3
## 2982          0                0                2          96.9
## 3002          0                0                5          97.6
## 3012          0                0                5          90.9
## 3017          0                0                2          86.7
## 3018          0                0                2          85.0
## 3021          0                0                2         100.0
## 3034          0                0                4          97.8
## 3045          0                0                1          76.9
## 3050          0                0                6          97.1
## 3057          0                0                1          90.0
## 3071          0                0                0          57.1
## 3104          0                1                0          92.9
## 3112          0                0                0          81.3
## 3124          0                0                4          93.8
## 3150          0                0                1          90.9
## 3160          0                0                8          96.3
## 3165          0                0                2          95.0
## 3172          0                0                5          86.7
## 3177          0                0                0          92.3
## 3213          0                0                3          94.7
## 3222          0                0                1          77.8
## 3237          0                0                1          87.2
## 3252          0                0                2          68.8
## 3257          0                0                4          94.7
## 3258          0                0                2          92.3
## 3265          0                0                0          95.0
## 3276          0                1                5          96.8
## 3289          0                0                5          90.5
## 3307          0                0                5          98.4
```

```
## 3312          0                0                1          97.1
## 3317          0                0                3          97.8
## 3333          0                0                2          76.2
## 3366          0                0                1          92.1
## 3383          0                0                1          65.6
## 3419          0                0                5          92.6
## 3421          0                0                5          93.8
## 3422          0                0                0          94.7
## 3429          0                0                5          92.5
## 3433          0                0                3          79.3
## 3449          0                0                1          78.9
## 3458          0                1                1         100.0
## 3467          0                0                6          93.8
## 3471          0                0                2          97.4
## 3480          0                0                4          87.5
## 3482          0                0                3          96.3
## 3502          0                0                3          96.0
## 3504          0                0                3          93.3
## 3507          0                0                4          95.5
## 3536          0                0                1          88.0
## 3538          0                0                2          96.8
## 3542          0                0                4          87.5
## 3547          0                0                3          86.7
## 3553          0                2                2          91.2
## 3567          0                0                3          90.9
## 3590          0                0                9          88.2
## 3607          0                0                4          88.9
## 3623          0                0                7          97.1
## 3635          0                0                1          78.9
## 3655          0                0                1          91.7
## 3684          0                0                2          92.3
## 3687          0                0                1          96.0
## 3688          0                0                2         100.0
## 3699          0                0                1          96.3
## 3701          0                0                2          84.2
## 3712          0                0                4          78.9
## 3730          0                0                3          91.3
## 3749          0                0                5          96.3
## 3756          0                0                6          82.1
## 3758          0                0                3          90.5
## 3771          0                0                1          96.0
## 3785          0                0                2          80.0
## 3788          0                0                2         100.0
## 3852          0                0                8          85.7
## 3857          0                0                2          75.0
## 3865          0                0                4          94.7
## 3889          0                0                3          88.5
## 3892          0                0                5          94.1
## 3901          0                0                2          94.7
## 3917          0                1                1          90.5
## 3924          0                1                2          92.3
## 3938          0                0                7          86.2
## 3947          0                0                1          90.9
## 3949          0                1                1          90.0
## 3959          0                0                3          70.0
## 3977          0                0                0         100.0
## 3990          0                0                2          69.7
## 4001          0                0                4          77.8
## 4003          0                0                3          69.2
## 4016          0                0                4          97.8
## 4017          0                0                2         100.0
## 4021          0                0                1          95.0
## 4022          0                0                3          97.1
## 4026          0                0                3          93.8
## 4036          0                1                0          94.4
## 4049          0                0                4          91.3
## 4054          0                1                3          83.3
## 4093          0                0                2          94.1
## 4099          0                0                6          92.0
## 4104          0                0                1          90.0
## 4107          0                0                2          96.0
## 4110          0                0                3          93.8
## 4122          0                0                0         100.0
## 4128          0                0                6          88.9
## 4131          0                0                0          85.0
## 4133          0                0                1          90.9
## 4135          0                0                2          87.5
## 4151          0                1                3          95.8
## 4153          0                0                1          94.1
## 4157          0                0                7          88.5
## 4233          0                0                0          83.3
## 4237          0                0                3          61.1
## 4254          0                0                0          96.7
## 4258          0                0                1          75.0
## 4259          0                0                2          77.8
## 4261          0                0                0          95.3
## 4265          0                0                7          92.9
## 4269          0                0                2          90.0
## 4297          0                0                2          94.7
## 4307          0                0                2          91.3
## 4341          0                0                4          81.4
## 4342          0                0                2          92.3
## 4351          0                0                4          96.0
## 4352          0                1                3          93.8
## 4376          0                1                2          75.0
## 4395          0                0                2          85.7
## 4412          0                0                4          79.2
## 4414          0                0                3          96.2
```

```
## 4448          0                0                0        100.0
## 4466          0                0                3         92.9
## 4476          0                0                1        100.0
## 4477          0                0                2         95.5
## 4498          0                0                5         97.3
## 4501          0                0                2         80.0
## 4506          0                0                4         71.4
## 4517          0                0                4         95.5
## 4524          0                0                2         53.8
## 4532          0                0                2         96.0
## 4539          0                0                2         92.9
## 4552          0                0                1         75.0
## 4565          0                0                1         94.1
## 4580          0                0                0         93.8
## 4584          0                2                1         93.5
## 4586          0                0                3         96.3
## 4611          0                0                1         85.0
## 4632          0                0                5         91.9
## 4682          0                0                6         93.8
## 4688          0                0                4         93.3
## 4692          0                0                2         91.7
## 4712          0                0                3         88.9
## 4743          0                0                3        100.0
## 4758          0                0                2         81.8
## 4769          0                0                1         95.7
## 4774          0                0                3         96.8
## 4775          0                0                2         84.2
## 4786          0                0                1         75.0
## 4791          0                0                2         88.5
## 4792          0                0                1         88.2
## 4797          0                0                6         92.0
## 4801          0                0                5         92.3
## 4816          0                0                3         92.6
## 4818          0                0                9         84.2
## 4832          0                0                4         97.7
## 4834          0                1                3         97.9
## 4880          0                2                0         84.6
## 4921          0                0                1         83.3
## 4922          0                0                5         69.2
## 4934          0                1                0        100.0
## 4951          0                0                3         90.9
## 4958          0                0                2         45.5
## 4985          0                0                6         94.7
## 5010          0                0                2         82.4
## 5021          0                0                3         88.0
## 5035          0                0                3         57.1
## 5036          0                0                2         97.7
## 5038          0                0                4         57.9
## 5059          0                0                2         78.1
## 5060          0                0                1         85.2
## 5070          0                0                7         78.4
## 5103          0                0                6         92.9
## 5134          0                0                4        100.0
## 5136          0                1                3         95.0
## 5155          0                0                4         68.4
## 5157          0                0                8         96.2
## 5162          0                0                6         97.0
## 5163          0                0                4         97.0
## 5168          0                0               11         94.6
## 5169          0                0                5         95.8
## 5177          0                0                0         94.6
## 5184          0                0                6         99.0
## 5186          0                0                1         95.2
## 5218          0                0                0         97.0
## 5220          0                0                3         83.3
## 5221          0                1                3         93.5
## 5244          0                0                3         93.3
## 5255          0                0                1         98.6
## 5278          0                0                1         80.0
## 5295          0                0                5         87.1
## 5317          0                0                3         93.8
## 5325          0                0                2         90.0
## 5345          0                1                1         95.5
## 5348          0                0                2         80.0
## 5354          0                0                3         97.2
## 5356          0                0                4         90.9
## 5358          0                0                3         98.3
## 5365          0                0                1         81.8
## 5379          0                0                0         88.2
## 5390          0                0                5         84.2
## 5406          0                0                7         81.6
## 5416          0                0                1         98.3
## 5431          0                0                3         93.3
## 5442          0                0                2         94.7
## 5467          0                0                3         95.8
## 5494          0                0                2         94.7
## 5554          0                0                0         97.2
## 5556          0                0                1         86.7
## 5565          0                0                4         88.2
## 5566          0                0                3         88.9
## 5568          0                0                2         58.3
## 5574          0                0                1         95.0
## 5597          0                0                2         71.4
## 5621          0                0                7        100.0
## 5623          0                0                2         95.7
## 5643          0                0                6         93.3
## 5664          0                0                0         93.3
## 5666          0                1                4         91.7
```

```
## 5720          0                0                2          66.7
## 5731          0                0                1          90.0
## 5733          0                0                5          94.3
## 5734          0                0                0          88.9
## 5749          0                0                1          76.9
## 5759          0                0                2          80.0
## 5760          0                0                8          76.0
## 5784          0                0                0          59.1
## 5786          0                1                2          86.8
## 5794          0                0                4          90.0
## 5806          0                0                5          96.4
## 5809          0                0                1          82.4
## 5827          0                0                0          90.2
## 5848          0                0                0          90.0
## 5849          0                0                1          82.5
## 5860          0                0                3          96.9
## 5874          0                0                2          94.1
## 5876          0                0                7          83.3
## 5886          0                0                3          91.4
## 5923          0                0                2          81.8
## 5948          0                0                5          98.2
## 5962          0                0                3          76.5
## 5974          0                0                1          85.7
## 6002          0                0                6          97.8
## 6051          0                0                0          85.7
## 6057          0                0                3         100.0
## 6083          0                0                0          95.8
## 6097          0                0                3          90.5
## 6126          0                0                5          85.7
## 6157          0                1                0          95.5
## 6159          0                1                2          92.7
## 6164          0                0                4         100.0
## 6165          0                0                4          95.5
## 6174          0                0                0          94.1
## 6183          0                0                3          97.9
## 6196          0                0                5          83.9
## 6203          0                0                2          92.9
## 6204          0                0                1          92.9
## 6207          0                0                0          66.7
## 6209          0                0                1          92.0
## 6237          0                0                2          81.0
## 6247          0                0                1          95.5
## 6250          0                0                4          97.4
## 6253          0                0                3          96.0
## 6289          0                0                2          75.0
## 6294          0                0                0          93.8
## 6298          0                0                3          90.9
## 6307          0                0                7          77.8
## 6316          0                0                6          89.2
## 6333          0                0                0          75.0
## 6352          0                0                5         100.0
## 6367          0                0                1          93.3
## 6388          0                0                6          79.2
## 6396          0                0                1          57.1
## 6402          0                0                4          81.0
## 6407          0                0                2          89.5
## 6410          0                0                1          95.5
## 6421          0                0                4          94.0
## 6422          0                0                6          80.0
## 6435          0                0                4          95.2
## 6449          0                0                5          69.0
## 6455          0                0                6          95.0
## 6456          0                0                1          91.7
## 6468          0                0                3          94.6
## 6470          0                1                1          73.3
## 6477          0                0                1          70.8
## 6490          0                0                7          97.8
## 6504          0                0                1          76.9
## 6505          0                0                3          97.1
## 6530          0                0                1          87.9
## 6533          0                0                6          98.7
## 6560          0                0                3          83.3
## 6570          0                1                3          94.3
## 6585          0                0                3          97.3
## 6599          0                0                4          89.3
## 6612          0                0                1          70.0
## 6617          0                0                2          92.0
## 6628          0                0                2          89.5
## 6642          0                1                1          93.3
## 6651          0                0                9          88.9
## 6653          0                0                1          95.7
## 6660          0                0                3          89.5
## 6673          0                0                6         100.0
## 6675          0                0                2          95.0
## 6680          0                0                0          93.3
## 6696          0                0                5          96.0
## 6712          0                0                3          94.7
## 6736          0                0                2          95.5
## 6750          0                0                9          93.8
## 6782          0                0                4          96.8
## 6784          0                0                3          81.8
## 6793          0                0                2          90.9
## 6815          0                0                0          95.2
## 6833          0                0                2          90.9
## 6854          0                0                0          95.5
## 6855          0                0                3          95.3
## 6878          0                0                6          84.4
## 6879          0                0                1          93.8
```

```
## 6884          0                0                1          91.3
## 6906          0                0                3          97.1
## 6922          0                0                0          96.8
## 6936          0                0                2          66.7
## 6950          0                0                2          90.7
## 6964          0                0                1          92.2
## 6984          0                0                4          93.3
## 6985          0                0                4          86.1
## 6993          0                0                5          98.0
## 7000          0                0                2          87.8
## 7021          0                0                6          88.9
## 7027          0                1                0          80.0
## 7034          0                1                0          96.0
## 7038          0                0                4          96.4
## 7039          0                0                0          93.6
## 7043          0                0                0          87.5
## 7068          0                0                4          89.5
## 7081          0                1                0          95.2
## 7095          0                0                7          87.5
## 7096          0                0                1          84.6
## 7099          0                0                4          87.9
## 7111          0                0                4          95.2
## 7115          0                0                4          93.5
## 7132          0                1                5          92.9
## 7133          0                0                4          90.9
## 7147          0                0                0          96.7
## 7158          0                0                2          75.0
## 7167          0                0                3          91.3
## 7168          0                0                5          93.1
## 7169          0                0                1          92.9
## 7188          0                1                1          81.3
## 7193          0                0                0          84.2
## 7232          0                0                2          97.6
## 7237          0                0                5          93.5
## 7249          0                1                0          94.7
## 7255          0                0                1          87.0
## 7262          0                0                2          94.1
## 7279          0                0                2          94.4
## 7302          0                0                1          96.4
## 7310          0                0                6          97.1
## 7323          0                0                6          97.1
## 7344          0                0                3          91.7
## 7353          0                0                3          96.7
## 7355          0                0                0          80.0
## 7426          0                0                0          91.7
## 7445          0                0                1          88.9
## 7446          0                0                2          92.3
## 7460          0                0                1          97.4
## 7465          0                0                1          78.6
## 7474          0                0                1          94.4
## 7479          0                0                2          89.7
## 7485          0                0                4          95.8
## 7530          0                0                3          58.3
## 7533          0                0                1          66.7
## 7538          0                0                0          93.8
## 7555          0                0                7          76.8
## 7562          0                0                4          92.0
## 7564          0                0                0          66.7
## 7579          0                0                3          95.3
## 7591          0                0                2          92.3
## 7594          0                0                5          85.7
## 7612          0                0                0          90.9
## 7619          0                0                5          87.1
## 7621          0                0                1          97.7
## 7704          0                0                1          97.3
## 7715          0                0                1          78.4
## 7737          0                0                1          95.2
## 7777          0                1                4          95.5
## 7792          0                0                3          97.8
## 7794          0                0                3          95.0
## 7824          0                0                5          97.6
## 7828          0                0                1          82.6
## 7833          0                0                5          96.2
## 7838          0                0                1          85.3
## 7840          0                0                2          71.4
## 7882          0                0                0          72.0
## 7893          0                0                1          96.4
## 7900          0                0                4          95.8
## 7910          0                0                2          97.0
## 7925          0                1                0          96.6
## 7945          0                0                1          97.4
## 7963          0                0                3          94.7
## 7972          0                0                1          87.5
## 7980          0                0                4          93.8
## 7985          0                0                0          90.5
## 8006          0                0                0          84.6
## 8009          0                0                5          81.5
## 8024          0                0                5          92.6
## 8042          0                1                2          83.3
## 8046          0                0                1          96.4
## 8047          0                0                3          87.5
## 8080          0                0                1          94.4
## 8086          0                0                0          91.1
## 8111          0                0                4          96.8
## 8125          0                0                1          90.0
## 8140          0                0                6          87.5
## 8148          0                0                0          97.7
## 8154          0                0                4          94.7
```

```
## 8174          0                0                5          83.9
## 8192          0                0                6          76.2
## 8261          0                0                0          71.4
## 8269          0                0                3         100.0
## 8275          0                0                2          88.9
## 8287          0                0                4          75.0
## 8303          0                0                6          93.8
## 8304          0                1                4          85.7
## 8339          0                0                6          96.0
## 8352          0                0                8          84.6
## 8370          0                0                1          91.7
## 8384          0                0                0          93.3
## 8388          0                0                2          98.0
## 8400          0                0                4         100.0
## 8420          0                0                0          88.9
## 8432          0                0                2          96.4
## 8439          0                0                1         100.0
## 8440          0                0                1          81.6
## 8444          0                0                3          94.7
## 8455          0                0                4          98.0
## 8457          0                0                2          68.4
## 8460          0                2                1          80.0
## 8466          0                3                5          88.5
## 8478          0                0                3          95.5
## 8485          0                0                4         100.0
## 8494          0                0                4          94.1
## 8495          0                0                7          98.1
## 8503          0                0                8          90.9
## 8520          0                0                3         100.0
## 8546          0                0                1          83.3
## 8548          0                0                4          87.0
## 8562          0                0                2          68.4
## 8577          0                0                7          91.2
## 8582          0                0                2          78.9
## 8584          0                0                2          88.5
## 8593          0                0                0          78.6
## 8597          0                0                1          96.2
## 8601          0                0                3          95.7
## 8603          0                0                2          93.5
## 8645          0                0                0          90.0
## 8659          0                0                2          94.3
## 8679          0                0                3          93.3
## 8682          0                0                2          76.2
## 8691          0                0                0          93.8
## 8695          0                0                9         100.0
## 8698          0                0                0          84.8
## 8725          0                0                4          92.0
## 8730          0                0                2          94.1
## 8733          0                0                2          93.5
## 8734          0                0                0          96.0
## 8748          0                1                2          90.0
## 8755          0                0                2          93.1
## 8774          0                0                2          69.0
## 8784          0                0                4          95.0
## 8789          0                0                0          77.4
## 8799          0                0                6          92.0
## 8813          0                0                3          94.7
## 8815          0                0                4          85.7
## 8827          0                0                0          97.6
## 8829          0                0                1          92.6
## 8833          0                0                2          90.0
## 8836          0                0                0          90.5
## 8842          0                0                4          92.9
## 8849          0                0                1          83.3
## 8863          0                0                3          97.2
## 8879          0                0                3          86.7
## 8886          0                0                3          75.0
## 8889          0                0                3          83.3
## 8930          0                0                1          66.7
## 8934          0                0                1          87.0
## 8936          0                0                1          91.2
## 8940          0                0                2          95.0
## 8949          0                0                2          96.2
## 8952          0                0                2          84.6
## 8954          0                0                2          92.0
## 8996          0                0                7          89.1
## 9028          0                0                0          94.1
## 9029          0                1                0          80.0
## 9039          0                0                2          95.8
## 9043          0                0                1          96.3
## 9044          0                0                4          94.9
## 9046          0                0                1          95.2
## 9062          0                0                5          92.9
## 9065          0                0                7          97.7
## 9144          0                0                4          84.6
## 9172          0                0                9          94.1
## 9184          0                0                3          96.3
## 9201          0                0                7          97.4
## 9213          0                0                0          93.8
## 9224          0                0                2          96.2
## 9233          0                0                5          95.2
## 9239          0                1                1          92.6
## 9256          0                0                4          90.7
## 9260          0                0                2          95.8
## 9272          0                0                5          89.5
## 9279          0                0                2          76.9
## 9290          0                1                1          53.3
## 9302          0                0                2          83.3
```

```
## 9308            0                  0                  7           95.5
## 9315            0                  0                  2           96.0
## 9320            0                  0                  2           92.3
## 9341            0                  0                  7           89.5
## 9379            0                  0                  1           94.7
## 9400            0                  0                  3           87.5
## 9418            0                  0                  1           96.7
## 9437            0                  0                  8           89.5
## 9477            0                  0                  1           93.0
## 9495            0                  0                  0           95.1
## 9496            0                  0                  5           98.6
## 9505            0                  0                  1           71.4
## 9532            0                  0                  5           97.3
## 9538            0                  0                  2           70.0
## 9583            0                  0                  5           91.7
## 9585            0                  0                  2           62.5
## 9597            0                  0                  1           69.2
## 9608            0                  0                  5           92.3
## 9620            0                  0                  1           86.7
## 9661            0                  0                  7          100.0
## 9687            0                  0                  4           85.7
## 9693            0                  0                  6           72.0
## 9703            0                  0                  0           97.6
## 9709            0                  0                  1           63.6
## 9726            0                  1                  0           88.2
## 9805            0                  0                  1           94.1
## 9806            0                  0                  2           92.9
## 9809            0                  0                  4           85.0
## 9824            0                  0                  1           81.8
## 9826            0                  2                  3           78.7
## 9837            0                  0                  2           96.6
## 9841            0                  0                  2           92.3
## 9844            0                  0                  2           78.3
## 9849            0                  0                  2           95.5
## 9912            0                  0                  2           89.5
## 9925            0                  0                  3           83.3
## 9926            0                  0                  3           97.2
## 9933            0                  0                  1           92.0
## 9937            0                  0                  7           84.4
## 9941            0                  0                  0          100.0
## 9951            0                  1                  7           95.0
## 9960            0                  0                  4           90.9
## 9987            0                  0                  4           96.3
## 9997            0                  0                  3           76.9
## 10003           0                  0                  1           96.8
## 10010           0                  0                  4           97.7
## 10011           0                  0                  2           95.8
## 10047           0                  0                  2           90.6
## 10050           0                  0                  2           88.5
## 10093           0                  1                  9           72.7
## 10104           0                  0                  3           93.5
## 10111           0                  1                  1           92.9
## 10131           0                  0                  6           98.5
## 10137           0                  0                  3           91.3
## 10144           0                  0                  5           94.4
## 10169           0                  0                  2           97.7
## 10172           0                  0                  6           96.7
## 10176           0                  0                  3           94.7
## 10184           0                  0                  2           95.5
## 10202           0                  0                  2           90.5
## 10209           0                  0                  2           90.9
## 10215           0                  0                  3           91.3
## 10242           0                  0                  1           94.4
## 10248           0                  0                  7           97.2
## 10267           0                  0                  5           97.2
## 10275           0                  0                  0           76.2
## 10276           0                  0                  5           96.9
##       percent_bc_gt_75 pub_rec_bankruptcies tax_liens tot_hi_cred_lim
## 35                0.0                    0         0          119369
## 54               20.0                    0         0          157472
## 59                0.0                    0         0          177024
## 60                0.0                    0         0          375445
## 71               80.0                    0         0           25885
## 73                0.0                    0         0          186900
## 74                0.0                    0         0           52745
## 90                0.0                    0         0           85158
## 101              33.3                    0         0          414616
## 124              33.3                    0         0          336404
## 137               0.0                    0         0           27622
## 142               0.0                    0         0          179534
## 143               0.0                    1         0          774699
## 160              20.0                    0         0           52978
## 161              50.0                    0         0           37232
## 165              30.0                    0         0           75664
## 174               0.0                    1         0           43204
## 192             100.0                    0         0          404049
## 193              25.0                    0         0          212987
## 206               0.0                    0         0          171010
## 212               0.0                    1         0           18700
## 218               0.0                    0         0           88000
## 229               0.0                    0         0          320228
## 232               0.0                    1         0          259975
## 234               0.0                    0         0           23152
## 236               0.0                    1         0           20500
## 246              41.7                    0         0          102975
## 247               0.0                    0         0           13300
## 262              11.1                    1         0          200141
## 285               0.0                    0         0           28600
```

```
## 296          0.0              0        0        73579
## 302          0.0              0        0        55551
## 304         60.0              0        0        63656
## 324         14.3              0        0       150415
## 326        100.0              0        0        32593
## 328         66.7              1        0       401321
## 329        100.0              0        0        25493
## 330         50.0              0        0       133140
## 338          0.0              0        0        21409
## 353          0.0              0        0       160256
## 357         66.7              0        0        52397
## 361         44.4              1        0       142518
## 370          0.0              0        0        78372
## 377         20.0              0        0       316236
## 382         14.3              0        0       448268
## 410          0.0              0        0        70569
## 428          0.0              0        0        63531
## 450         50.0              0        0       185840
## 465         33.3              0        0        41828
## 466          0.0              0        0       133860
## 471         50.0              0        0       304649
## 479         50.0              0        0       116797
## 485          0.0              1        0        32382
## 491         12.5              0        0        84741
## 496          0.0              0        0        37964
## 497          7.7              0        0       550522
## 499         60.0              0        0       167897
## 548          0.0              0        0        25800
## 558          0.0              1        0        56272
## 570         16.7              0        0       153897
## 577         11.1              0        0       138024
## 579          0.0              1        0        12922
## 608          0.0              1        0        16958
## 626          0.0              1        0       251165
## 634          0.0              0        0        86117
## 636         80.0              0        0        67819
## 641          0.0              1        0       251451
## 658          0.0              1        0        26712
## 660        100.0              0        0       778261
## 670         25.0              0        0       103355
## 674         20.0              0        0       276962
## 689        100.0              0        0        91851
## 696         20.0              0        0       160358
## 705          0.0              0        0        27806
## 713         33.3              0        0       309984
## 752         33.3              0        0       124318
## 790         50.0              1        0       417441
## 799          0.0              0        0        72941
## 819         75.0              0        0       284583
## 840          0.0              0        0       177214
## 844          0.0              1        0        47520
## 845         14.3              0        0       375178
## 855         20.0              0        0       314219
## 866        100.0              0        0       549600
## 869          0.0              0        0        86030
## 899          0.0              0        0       321290
## 904          0.0              0        0        27900
## 917          0.0              0        0       137991
## 940         28.6              0        0       418219
## 957          0.0              0        0       189918
## 960        100.0              0        0        31651
## 993        100.0              0        0       506658
## 998         57.1              0        0        69056
## 1025        12.5              0        0       331331
## 1056         0.0              0        0       214900
## 1063         0.0              0        0        84083
## 1083        50.0              1        0       343391
## 1105        33.3              0        0       659514
## 1117         0.0              0        0       181900
## 1118        50.0              0        0        11409
## 1146        60.0              0        0       112343
## 1170        50.0              0        0       130921
## 1227        50.0              0        0       128697
## 1263        60.0              0        0       183439
## 1264         0.0              0        0       299207
## 1273        33.3              0        0        85431
## 1285         0.0              0        0       324549
## 1319         0.0              0        0       178900
## 1337         0.0              0        0       218231
## 1349         0.0              0        0       302866
## 1351        35.7              0        0       127269
## 1356         0.0              0        0        29700
## 1386         0.0              0        0       207076
## 1388         0.0              0        0        78750
## 1390         0.0              0        0       372045
## 1410        40.0              0        0       509477
## 1416        33.3              0        0       431649
## 1434         0.0              0        0        16675
## 1439         0.0              0        0        23698
## 1449         0.0              1        0       148169
## 1459         0.0              0        0       330216
## 1462        75.0              0        0       205014
## 1480        33.3              1        0        41548
## 1484        50.0              0        0        39377
## 1487        25.0              0        0        79639
## 1527        50.0              0        0        43751
## 1529         0.0              0        0        17574
## 1530        50.0              0        0        30706
```

```
## 1545          0.0                0        0        82300
## 1567          0.0                0        0        66970
## 1597          0.0                0        0       425574
## 1601         57.1                1        0        74582
## 1623          0.0                0        0        57155
## 1633        100.0                0        0       248064
## 1636         50.0                0        0       116126
## 1640          0.0                0        0       256045
## 1645          0.0                0        0       192345
## 1650         42.9                0        0       181520
## 1671          0.0                0        0       254905
## 1672          0.0                0        0       176601
## 1696        100.0                0        0       227765
## 1704          0.0                0        0       115892
## 1721        100.0                0        0       232557
## 1724         66.7                0        0       248350
## 1728          0.0                0        0        96312
## 1730         33.3                0        0       492542
## 1734          0.0                1        0       608396
## 1752          0.0                0        0        84634
## 1771          0.0                0        0        76300
## 1816         21.4                0        0       154473
## 1846          0.0                0        0       249801
## 1850         14.3                0        0       225549
## 1853         20.0                0        0       403795
## 1856         33.3                0        0       223771
## 1857          0.0                0        0       343869
## 1862          0.0                0        0       119990
## 1865         50.0                0        0        99439
## 1866          0.0                0        0       296756
## 1867         75.0                0        0       757227
## 1896         50.0                0        0       200286
## 1905        100.0                0        0       105493
## 1907          0.0                0        0        61752
## 1922          0.0                0        0       103770
## 1930         16.7                0        0        75479
## 1933          0.0                0        0       317936
## 1952          5.6                0        0       292630
## 1956          0.0                0        0        33266
## 1961        100.0                0        0       303690
## 1963         20.0                0        0        77301
## 2004         33.3                0        0       231092
## 2012         16.7                0        0       300133
## 2017        100.0                0        0        35363
## 2019         50.0                0        0       325525
## 2026          0.0                0        0        33401
## 2027          0.0                0        0       448424
## 2039         50.0                0        0       373292
## 2041          0.0                1        0       180381
## 2051          5.6                0        0       263000
## 2060         50.0                1        0       303294
## 2065          0.0                1        0        73684
## 2073          0.0                0        0       267955
## 2105          0.0                0        0       322668
## 2117          0.0                0        0       207282
## 2128          3.1                0        0       338926
## 2129         25.0                0        0       112866
## 2136          0.0                0        0        26398
## 2137          0.0                0        0       199832
## 2148        100.0                0        0       193355
## 2155          0.0                0        0       309800
## 2168         50.0                0        0       210135
## 2197          0.0                0        0       311103
## 2215         33.3                0        0       310657
## 2224        100.0                0        0       143226
## 2234          0.0                0        0       150562
## 2255         40.0                0        0       348412
## 2258         20.0                0        0        90150
## 2286          0.0                0        0        76453
## 2296         12.5                0        0       221130
## 2329         33.3                0        0        25512
## 2342         25.0                1        0        55653
## 2347         62.5                0        0       445054
## 2357         25.0                0        0       415194
## 2377          0.0                1        0        88607
## 2393         40.0                0        0       529963
## 2396         33.3                0        0       238187
## 2399          0.0                0        0        54300
## 2405          0.0                0        0       215312
## 2420          0.0                1        0        34865
## 2425         66.7                0        0       158647
## 2429          0.0                1        0        68738
## 2439         28.6                0        0        48879
## 2447         22.2                0        0       132903
## 2449        100.0                0        0        43185
## 2457          0.0                0        0       210815
## 2478          0.0                0        0        82200
## 2480         80.0                0        0       319552
## 2492         27.3                1        0       100564
## 2494         50.0                0        0       314377
## 2504         50.0                0        0       368951
## 2510          0.0                0        0       138173
## 2514          0.0                0        0        24100
## 2516         66.7                0        0       122917
## 2522         28.6                0        0        87200
## 2529          0.0                1        0        71606
## 2535         25.0                0        0        10720
## 2545          0.0                0        0       221213
```

```
## 2549          33.3                0        0        144063
## 2593           0.0                0        0        524613
## 2598           0.0                1        0        157139
## 2604           7.1                0        0       1054717
## 2628           0.0                0        0        436622
## 2631           0.0                0        0        121379
## 2661           0.0                0        0        310782
## 2673         100.0                0        0         60400
## 2692          40.0                0        0         68311
## 2707           0.0                0        0        145347
## 2714          50.0                0        0        468148
## 2715         100.0                0        0        351101
## 2761          50.0                0        0        178700
## 2772         100.0                1        0        154949
## 2788          50.0                0        0        379538
## 2789           0.0                0        0        307551
## 2820           0.0                0        0        450746
## 2840           0.0                0        0        316996
## 2856          20.0                0        0        511633
## 2858           0.0                0        0        123244
## 2861         100.0                0        0        122137
## 2872           0.0                0        0         72387
## 2877          20.0                0        0        693141
## 2878          33.3                0        0        147163
## 2879           0.0                0        0         64099
## 2893          11.1                0        0         96780
## 2913           0.0                1        0         21800
## 2915          50.0                0        0        358221
## 2918          25.0                0        0        164636
## 2940          28.6                0        0        182964
## 2942          22.2                0        0        532112
## 2954           0.0                0        0        209939
## 2976          25.0                0        0         78832
## 2977           0.0                1        0        212250
## 2978           0.0                0        0        280250
## 2982          71.4                1        0        107864
## 3002           0.0                0        0        170076
## 3012          66.7                0        0        151225
## 3017           0.0                2        0         71206
## 3018           0.0                0        0        107833
## 3021           0.0                0        0        146197
## 3034           0.0                0        0        185254
## 3045          66.7                0        0        629471
## 3050           0.0                0        0        105300
## 3057          14.3                0        0         78053
## 3071          25.0                0        0        620593
## 3104          75.0                0        0         51922
## 3112         100.0                0        0         47225
## 3124          16.7                0        0        394641
## 3150          66.7                0        0       1132478
## 3160           0.0                0        0        479790
## 3165          25.0                0        0        313528
## 3172           0.0                0        0        234455
## 3177          50.0                0        0        254395
## 3213           0.0                0        0         51400
## 3222           0.0                2        0         47953
## 3237          25.0                0        0        156373
## 3252          25.0                0        0         30200
## 3257           0.0                0        0        142776
## 3258          50.0                0        0         42153
## 3265          66.7                0        0        349177
## 3276           0.0                0        0        794111
## 3289         100.0                0        0        177362
## 3307          40.0                0        0        383763
## 3312          42.9                1        0        367309
## 3317          18.2                0        0        511233
## 3333         100.0                0        0        227493
## 3366          83.3                0        0        627118
## 3383         100.0                0        0        557846
## 3419          66.7                0        0        413300
## 3421          11.1                0        0        281731
## 3422          60.0                0        0        303934
## 3429          40.0                0        0        773443
## 3433           0.0                0        0        313775
## 3449          66.7                0        0        146199
## 3458           0.0                0        0         60246
## 3467           0.0                0        0         61700
## 3471          42.9                1        0        104811
## 3480          75.0                0        0        366171
## 3482           0.0                1        0         69296
## 3502           0.0                0        0         96231
## 3504          12.5                0        0         26200
## 3507         100.0                0        0        103598
## 3536          66.7                0        0        360458
## 3538           8.3                0        0        102856
## 3542           0.0                0        0        192875
## 3547          14.3                0        0         77402
## 3553           0.0                0        0        414808
## 3567         100.0                0        0        137568
## 3590          14.3                1        0        288796
## 3607           0.0                0        0        239204
## 3623           7.7                0        0        434172
## 3635          28.6                0        0        129260
## 3655           0.0                0        0        369542
## 3684           0.0                0        0         20079
## 3687         100.0                0        0        116496
## 3688           0.0                0        0        471564
## 3699          50.0                1        0        304100
```

```
## 3701          0.0                0        0        38785
## 3712         50.0                0        0       194425
## 3730          0.0                0        0       389206
## 3749         50.0                1        0       767946
## 3756         66.7                0        0       293712
## 3758          0.0                0        0       242524
## 3771          0.0                0        0        60361
## 3785          0.0                0        0        53300
## 3788         60.0                0        0        40112
## 3852         50.0                0        0       236576
## 3857          0.0                0        0        30520
## 3865         42.9                0        0       316336
## 3889          0.0                0        0       389844
## 3892          0.0                0        0       203393
## 3901         33.3                0        0       184561
## 3917          0.0                0        0        44904
## 3924         25.0                0        0       142275
## 3938          0.0                0        0       179183
## 3947         25.0                0        0       299155
## 3949          0.0                0        0        23255
## 3959          0.0                0        0        21881
## 3977          0.0                0        0       285602
## 3990         33.3                0        0       170994
## 4001          0.0                0        0        28476
## 4003         33.3                0        0       633909
## 4016          0.0                0        0       308400
## 4017          0.0                0        0       301688
## 4021         75.0                0        0       473598
## 4022         20.0                0        0        84494
## 4026        100.0                0        0       542013
## 4036         20.0                0        0        56599
## 4049          0.0                0        0       820574
## 4054         50.0                0        0       480321
## 4093         11.1                0        0       102042
## 4099          0.0                0        0       299810
## 4104          0.0                1        0       177246
## 4107          0.0                0        0        56381
## 4110         50.0                0        0       166784
## 4122         35.7                0        0       302898
## 4128         40.0                0        0       721013
## 4131          0.0                0        0       144732
## 4133        100.0                0        0        26000
## 4135          0.0                0        0        30469
## 4151          0.0                0        0       204984
## 4153         50.0                0        0       618926
## 4157         25.0                0        0       395981
## 4233         50.0                0        0       289227
## 4237          0.0                0        0        42605
## 4254         66.7                0        0       224150
## 4258          0.0                0        0        18986
## 4259          0.0                0        0       270735
## 4261         33.3                0        0       130611
## 4265         33.3                0        0       198308
## 4269          0.0                0        0       191904
## 4297         33.3                0        0       376732
## 4307          0.0                1        0        80947
## 4341        100.0                0        0        71243
## 4342         75.0                0        0        75185
## 4351          0.0                1        0        18700
## 4352          0.0                0        0       325469
## 4376         33.3                0        0       270799
## 4395         33.3                0        0        54400
## 4412          0.0                0        0       654519
## 4414         50.0                0        0       162491
## 4448        100.0                0        0       213319
## 4466         57.1                0        0        47648
## 4476          0.0                0        0       146893
## 4477         33.3                0        0       196835
## 4498        100.0                0        0       297169
## 4501         28.6                0        0        44797
## 4506         25.0                0        0       286881
## 4517         60.0                0        0       382310
## 4524         25.0                0        0        71834
## 4532          0.0                0        0        44309
## 4539         50.0                0        0       117883
## 4552          0.0                0        0       250319
## 4565          0.0                0        0        43421
## 4580        100.0                1        0        18500
## 4584          0.0                0        0       193432
## 4586          0.0                0        0       214650
## 4611         33.3                0        0       240681
## 4632         25.0                0        0       255030
## 4682         40.0                0        0       151866
## 4688         20.0                1        0       270313
## 4692         66.7                1        0        48603
## 4712        100.0                0        0        30392
## 4743          0.0                0        0        80902
## 4758          0.0                0        0        56365
## 4769          0.0                0        0        92885
## 4774         60.0                0        0       222330
## 4775          0.0                0        0       478102
## 4786          0.0                1        0       132854
## 4791          0.0                0        0       192779
## 4792         40.0                0        0        40400
## 4797         50.0                0        0       243301
## 4801          0.0                0        0       103988
## 4816        100.0                0        0       332045
## 4818          8.3                1        0       114040
```

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## 4832          8.3                0        0        100168
## 4834         33.3                0        0        698878
## 4880         50.0                0        0        294189
## 4921        100.0                0        0         36573
## 4922         50.0                0        0        190641
## 4934          0.0                0        0        109708
## 4951          0.0                0        0         19399
## 4958          0.0                0        0         40466
## 4985          0.0                0        0         70708
## 5010         40.0                0        0         74885
## 5021         16.7                1        0         62602
## 5035         66.7                0        0         75638
## 5036         36.4                0        0        207482
## 5038          0.0                0        0         28239
## 5059         40.0                0        0         28789
## 5060          0.0                0        0        226610
## 5070          0.0                0        0        125653
## 5103         33.3                0        0        127266
## 5134         28.6                0        0        412037
## 5136         50.0                0        0        415271
## 5155         16.7                0        0        413455
## 5157          0.0                0        0        313849
## 5162          0.0                0        0        164947
## 5163         37.5                0        0       1021954
## 5168          0.0                0        0         76737
## 5169         25.0                0        0         89881
## 5177          0.0                0        0         96584
## 5184          0.0                0        0        555580
## 5186          0.0                0        0        181116
## 5218          0.0                0        0        203772
## 5220        100.0                0        0        380182
## 5221          0.0                0        0        340650
## 5244          0.0                0        0         39062
## 5255         83.3                0        0        109827
## 5278        100.0                0        0         31707
## 5295          0.0                0        0         57912
## 5317          0.0                1        0        122814
## 5325          0.0                0        0         59627
## 5345          0.0                0        0         51327
## 5348        100.0                1        0        186242
## 5354          0.0                1        0         57156
## 5356         80.0                0        0         39317
## 5358         42.9                0        0        197802
## 5365          0.0                0        0        295862
## 5379         80.0                0        0         55547
## 5390         25.0                0        0        360707
## 5406          0.0                0        0        150352
## 5416         85.7                0        0        615368
## 5431          0.0                0        0         80328
## 5442         83.3                0        0         63600
## 5467          0.0                0        0        194062
## 5494          0.0                1        0        631942
## 5554         50.0                0        0        333973
## 5556         66.7                0        0         27798
## 5565          0.0                0        0         55400
## 5566         83.3                0        0        537288
## 5568          0.0                0        0         15300
## 5574          0.0                0        0         80298
## 5597          0.0                0        0        238066
## 5621         25.0                0        0        309044
## 5623         75.0                0        0         36775
## 5643         10.0                0        0         77936
## 5664        100.0                1        0        185581
## 5666         20.0                0        0         31345
## 5720          0.0                0        0         86500
## 5731         66.7                0        0         43337
## 5733         83.3                0        0         79745
## 5734          0.0                0        0         11200
## 5749        100.0                0        0         51710
## 5759          0.0                0        0        444416
## 5760          0.0                1        0        272591
## 5784          0.0                0        0         50400
## 5786         33.3                0        0        165386
## 5794          0.0                0        0        590147
## 5806         27.3                0        0        137982
## 5809         75.0                0        0        325638
## 5827         33.3                0        0        194197
## 5848         60.0                0        0        238547
## 5849         66.7                0        0        281182
## 5860         66.7                0        0        354795
## 5874         50.0                0        0         80654
## 5876          0.0                0        0         13251
## 5886         87.5                0        0        358464
## 5923         60.0                0        0         57193
## 5948          0.0                0        0        389020
## 5962         83.3                0        0        407014
## 5974         40.0                0        0         30500
## 6002          0.0                0        0        402440
## 6051          0.0                0        0        133764
## 6057          0.0                0        0        448752
## 6083          0.0                0        0         72126
## 6097         14.3                0        0        359718
## 6126          0.0                0        0         24615
## 6157          0.0                1        0        298016
## 6159         33.3                0        0        422740
## 6164          0.0                1        0        223383
## 6165         33.3                1        0         40028
## 6174          0.0                0        0         69100
```

```
## 6183          0.0                1        0        435633
## 6196        100.0                0        0        267372
## 6203         16.7                0        0         74084
## 6204          0.0                1        0         52300
## 6207          0.0                0        0         45146
## 6209         50.0                0        0        110287
## 6237        100.0                0        0        370811
## 6247         42.9                0        0         97325
## 6250          0.0                0        0        171395
## 6253         50.0                0        0         86827
## 6289        100.0                1        0         46828
## 6294         25.0                0        0        467405
## 6298         25.0                0        0        307669
## 6307          0.0                0        0        129025
## 6316         50.0                0        0        160715
## 6333          0.0                0        0         23099
## 6352          0.0                0        0        266900
## 6367          0.0                0        0        194072
## 6388         14.3                0        0        330599
## 6396          0.0                0        0         49805
## 6402         80.0                0        0        198515
## 6407         14.3                0        0        389416
## 6410         14.3                0        0         48500
## 6421         80.0                1        0        144521
## 6422          0.0                0        0         53057
## 6435         30.0                1        0        396474
## 6449          0.0                0        0         78388
## 6455        100.0                0        0        587135
## 6456        100.0                0        0         70527
## 6468         50.0                1        0        157888
## 6470        100.0                0        0        508533
## 6477          0.0                0        0         85874
## 6490         62.5                0        0         64208
## 6504         50.0                1        0         73263
## 6505          0.0                0        0        613451
## 6530         50.0                1        0        131632
## 6533         16.7                0        0        170596
## 6560         60.0                0        0        730018
## 6570         25.0                0        0        445843
## 6585         14.3                0        0         66274
## 6599          0.0                0        0         42550
## 6612          0.0                0        0         25500
## 6617         14.3                0        0        113442
## 6628          9.1                0        0         75070
## 6642         40.0                0        0         46645
## 6651          0.0                0        0        177389
## 6653          0.0                0        0        439033
## 6660         33.3                0        0        415720
## 6673        100.0                1        0        137630
## 6675          0.0                0        0        103328
## 6680        100.0                0        0        507371
## 6696         50.0                1        0        193098
## 6712          0.0                0        0        156359
## 6736         16.7                0        0        184033
## 6750          0.0                0        0         82796
## 6782         10.0                0        0        213910
## 6784          0.0                0        0        100905
## 6793        100.0                0        0       1129162
## 6815          0.0                0        0        215744
## 6833         33.3                0        0         16900
## 6854         50.0                0        0        220996
## 6855         50.0                0        0        196920
## 6878          0.0                0        0        305984
## 6879          0.0                0        0        132325
## 6884         14.3                0        0         57400
## 6906         22.2                0        0         91947
## 6922         80.0                0        0         45700
## 6936          0.0                0        0        175817
## 6950          0.0                0        0       1738077
## 6964         66.7                1        0        182272
## 6984        100.0                0        0        283003
## 6985         37.5                0        0        278420
## 6993         13.3                0        0        581935
## 7000          0.0                0        0        521684
## 7021          0.0                0        0         46667
## 7027          0.0                0        0         19563
## 7034         33.3                0        0        437620
## 7038         60.0                0        0        395119
## 7039         70.0                0        0        259069
## 7043        100.0                0        0        519012
## 7068         50.0                0        0        181136
## 7081         33.3                0        0        154844
## 7095          0.0                0        0         41202
## 7096         40.0                0        0        376813
## 7099        100.0                0        0         55668
## 7111          0.0                0        8        251369
## 7115         12.5                0        0        293561
## 7132         22.2                0        0        368248
## 7133          0.0                1        0        258622
## 7147         20.0                0        0        371472
## 7158          0.0                0        0        136586
## 7167        100.0                0        0        621970
## 7168          0.0                0        0         53775
## 7169          0.0                0        0        380216
## 7188          0.0                0        0         36500
## 7193        100.0                0        0        463486
## 7232         50.0                1        0        284500
## 7237          0.0                0        0         97264
```

```
## 7249          25.0                0        1        387387
## 7255          11.1                0        0        176759
## 7262          33.3                1        0         68721
## 7279           0.0                1        0         17975
## 7302          50.0                1        0        128182
## 7310           0.0                0        0        851247
## 7323           0.0                0        0        887793
## 7344          33.3                0        0         48232
## 7353          50.0                0        0        151254
## 7355          50.0                0        0         48463
## 7426          33.3                0        0         75705
## 7445         100.0                0        0        100500
## 7446           0.0                0        0         19000
## 7460         100.0                0        0        473684
## 7465          33.3                0        0         91150
## 7474           0.0                0        0        223824
## 7479          66.7                0        0        108403
## 7485           0.0                0        0        246338
## 7530          40.0                0        0         58262
## 7533           0.0                0        0         49154
## 7538          33.3                0        0        278847
## 7555           0.0                0        0        367543
## 7562           0.0                0        1        275431
## 7564           0.0                0        0         32291
## 7579           0.0                0        0        626477
## 7591          80.0                0        0         34110
## 7594           0.0                0        0         25432
## 7612          20.0                0        0        228744
## 7619           0.0                1        0        118721
## 7621          60.0                0        0        352741
## 7704          80.0                0        0        159839
## 7715          25.0                0        0        404937
## 7737         100.0                0        0        350531
## 7777          33.3                0        0        324708
## 7792         100.0                0        0        333759
## 7794          50.0                0        0        246815
## 7824           0.0                0        0        703207
## 7828         100.0                0        0         64608
## 7833          16.7                0        0         91900
## 7838          14.3                0        0         66303
## 7840           0.0                0        0         24700
## 7882          66.7                0        0         63878
## 7893          50.0                0        0        310383
## 7900          11.1                0        0        177741
## 7910          25.0                0        0        131034
## 7925           0.0                0        0        296393
## 7945          57.1                0        0        157910
## 7963          20.0                1        1         37300
## 7972          50.0                0        0         34517
## 7980           0.0                1        0         68016
## 7985           0.0                0        0        112556
## 8006           0.0                0        0        391608
## 8009           0.0                0        0        354476
## 8024          20.0                0        0         79124
## 8042          40.0                0        0         46212
## 8046          16.7                0        0         75563
## 8047          50.0                0        0        204079
## 8080         100.0                0        0        213583
## 8086           0.0                0        0        267220
## 8111          40.0                0        0        477895
## 8125           0.0                0        0         51360
## 8140           0.0                0        0        531742
## 8148          22.2                0        0        134270
## 8154           0.0                0        0        313925
## 8174           5.9                0        0        419077
## 8192          14.3                0        0         17700
## 8261         100.0                0        0        170001
## 8269           0.0                0        0        103675
## 8275          33.3                1        0        196029
## 8287           0.0                1        0        152741
## 8303          50.0                1        0        615100
## 8304           0.0                1        0        385828
## 8339           0.0                0        0        496599
## 8352          66.7                0        0        413434
## 8370          20.0                1        0         21700
## 8384           0.0                0        0         40039
## 8388           0.0                0        0        522983
## 8400           0.0                0        0        346261
## 8420          40.0                0        0         48069
## 8432           0.0                1        0         87761
## 8439          33.3                0        0         34050
## 8440           0.0                0        0        103009
## 8444           0.0                0        0         55835
## 8455           7.1                0        0        267791
## 8457         100.0                0        0         21500
## 8460          50.0                0        0         76102
## 8466          25.0                0        0        400236
## 8478          42.9                1        0        286691
## 8485           0.0                0        0        371900
## 8494           0.0                1        0        188228
## 8495          11.1                0        0        424404
## 8503          33.3                0        0        389410
## 8520           0.0                0        0         67215
## 8546           0.0                0        0        182544
## 8548          33.3                1        1         83825
## 8562          50.0                0        0         31766
## 8577           0.0                0        0         97831
## 8582          20.0                0        0        455047
```

```
## 8584          25.0                0        0        251590
## 8593          40.0                0        0        120019
## 8597         100.0                0        0        387258
## 8601           0.0                0        0         65340
## 8603          33.3                1        0         22664
## 8645         100.0                0        0        246576
## 8659           0.0                0        0        577041
## 8679          50.0                0        1        588324
## 8682           0.0                0        0        344752
## 8691          33.3                0        0        135786
## 8695           0.0                0        0         75748
## 8698          25.0                0        0         61139
## 8725           0.0                0        0        138950
## 8730         100.0                0        0        312128
## 8733         100.0                0        0        427783
## 8734         100.0                0        0        125020
## 8748          66.7                0        0         17611
## 8755           0.0                0        0        125500
## 8774          75.0                0        0        112531
## 8784          20.0                0        0         20700
## 8789           0.0                0        0        196192
## 8799           0.0                1        0         52724
## 8813          33.3                0        0        104427
## 8815          50.0                0        0        182070
## 8827           0.0                0        0        433112
## 8829           0.0                0        0        154522
## 8833           0.0                0        0         40734
## 8836          33.3                0        0        250673
## 8842           0.0                0        0        238442
## 8849          25.0                0        0        179528
## 8863           0.0                0        0        532136
## 8879           0.0                0        0        577450
## 8886           0.0                0        0        147622
## 8889           0.0                0        1        134513
## 8930          50.0                0        0         17385
## 8934         100.0                0        0        643852
## 8936           0.0                0        0        256974
## 8940          66.7                0        0         97569
## 8949           0.0                0        0        165495
## 8952           0.0                0        0        329159
## 8954          80.0                0        0        274317
## 8996          22.2                0        0        265520
## 9028         100.0                0        0        125894
## 9029           0.0                0        0         28029
## 9039         100.0                0        0        113042
## 9043          33.3                0        0        137305
## 9044           0.0                0        0        153432
## 9046          40.0                0        0        188913
## 9062           0.0                1        0        488625
## 9065           0.0                0        0        299715
## 9144           0.0                0        0         38642
## 9172           0.0                0        0        986396
## 9184           0.0                0        0        134223
## 9201           0.0                0        0        194904
## 9213         100.0                0        0         27300
## 9224          50.0                1        0        121939
## 9233           0.0                0        0        115818
## 9239          66.7                0        0        615103
## 9256          20.0                0        0        222420
## 9260           0.0                0        0         42500
## 9272          50.0                0        0        421134
## 9279          40.0                0        0        302487
## 9290          66.7                0        0         70854
## 9302           0.0                0        0         33506
## 9308          25.0                1        0        400554
## 9315           0.0                0        0        683599
## 9320          80.0                0        0         46898
## 9341          20.0                0        0        475100
## 9379          80.0                0        0         76896
## 9400          50.0                1        0         58590
## 9418          88.9                0        0        717303
## 9437           0.0                0        1        232066
## 9477           0.0                0        0        130342
## 9495         100.0                0        0         80259
## 9496           0.0                0        0        468915
## 9505          20.0                0        0        259749
## 9532          75.0                0        0        214384
## 9538           0.0                0        0          6010
## 9583           0.0                0        0         36112
## 9585           0.0                1        0        579732
## 9597          50.0                0        0         15600
## 9608          33.3                0        0        211140
## 9620          40.0                0        0         49746
## 9661          77.8                0        0        144973
## 9687          20.0                0        0        534962
## 9693         100.0                0        0        823171
## 9703          50.0                0        0        389056
## 9709           0.0                0        0         96187
## 9726           0.0                0        0         36956
## 9805           0.0                0        0         62100
## 9806           0.0                0        0        138643
## 9809         100.0                1        0         63791
## 9824           0.0                0        0        191259
## 9826          28.6                0        0        311643
## 9837           0.0                0        0        139645
## 9841           0.0                0        0         68800
## 9844          40.0                0        0        290402
## 9849           0.0                0        0        236650
```

```
## 9912          80.0                0         1        158720
## 9925          28.6                0         0        511413
## 9926          11.1                0         0        257267
## 9933          71.4                0         0         61300
## 9937           0.0                1         0         47234
## 9941           0.0                0         0         58812
## 9951          50.0                0         0        211616
## 9960           0.0                0         0        276220
## 9987          40.0                1         0        504345
## 9997         100.0                0         0        145326
## 10003         44.4                0         0        174811
## 10010          0.0                0         0        203935
## 10011         16.7                0         0        216304
## 10047         75.0                0         0         27000
## 10050        100.0                0         0        236120
## 10093          0.0                0         0         68586
## 10104          0.0                0         0        228859
## 10111         50.0                0         0        291421
## 10131         22.2                0         0        197913
## 10137          0.0                0         0         26950
## 10144         20.0                0         0        328080
## 10169         50.0                0         0        186713
## 10172          0.0                0         0         79900
## 10176         25.0                1         0        724811
## 10184         66.7                0         0        759889
## 10202          0.0                0         0        183436
## 10209         50.0                1         0         40551
## 10215         20.0                0         1        143900
## 10242         25.0                0         0        134400
## 10248         33.3                0         0         86213
## 10267         14.3                0         0        216657
## 10275          0.0                0         0        329597
## 10276          0.0                0         0         71850
##       total_bal_ex_mort total_bc_limit total_il_high_credit_limit
## 35                51753          46500                      72869
## 54                44479          14900                      51762
## 59               141732          38000                     117024
## 60                52505          84000                      11500
## 71                20554           6500                      19385
## 73                 6670           4000                       8100
## 74                37580          15900                      26945
## 90                56286          15000                      60658
## 101               45673           4500                      52835
## 124               60066           8700                     102044
## 137               18587           3000                      14222
## 142              142322          12000                     138534
## 143              112693          16700                     123999
## 160               27243          19000                      27078
## 161               12524           9800                      23332
## 165               56808          23100                      41064
## 174                8383          13100                      19004
## 192               40517           1500                      44969
## 193              100632          33500                     104487
## 206              107242          47900                     123110
## 212                5097           8000                       5000
## 218               35201          26400                      48600
## 229              120112           2000                     125928
## 232               47386          55500                      44325
## 234               15821           2000                      17952
## 236                6570           6500                      10500
## 246               37708          77100                      12875
## 247                3863           2300                       1400
## 262               56495          30200                      37650
## 285               10481           5500                      16000
## 296               19110          54000                       9579
## 302               46508           6600                      46151
## 304               35566          17300                      37656
## 324               96207          39400                      97015
## 326               23804          11800                      17693
## 328               41876          11500                      39821
## 329               23289           1800                      21693
## 330              110626          20000                      96540
## 338                9574           1600                       3409
## 353               35913         122500                      36756
## 357               32995           4000                      43097
## 361               87111          20200                      90118
## 370               44970          10500                      64372
## 377               66003          56600                      58236
## 382              308995          30800                     262494
## 410               23386           3400                      23852
## 428               19052          46600                      14931
## 450               46137           7800                      44689
## 465               19948           5500                      32528
## 466              117463          38400                      89460
## 471               51645           4500                      55170
## 479               22466          14400                      19297
## 485                6189           4600                      16082
## 491               36333          49100                      24680
## 496               22244           7300                      20264
## 497               57030          32700                      60032
## 499               39464          19000                      56705
## 548               12667           5800                      14000
## 558               23312          20100                      31872
## 570              107794          27500                      91597
## 577               17202          28200                       5000
## 579                3145           1500                       5222
## 608               15081           1200                      15358
## 626               38326           1500                      35150
```

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## 634          68963        4000                63528
## 636          33099       17500                43075
## 641          76106        7000                71754
## 658          15219         300                21712
## 660          84779       19800                65161
## 670          69595       13800                79255
## 674          19696       11400                13117
## 689          73535       14500                50651
## 696          12486       20800                10000
## 705           9577        7200                14476
## 713          27075        8000                10884
## 752         107296        9900               110818
## 790          48595        6500                46941
## 799          60321       12200                54741
## 819          43129       11600                40335
## 840          83873       52500                81614
## 844          21154       15600                23420
## 845          69954       56500                72291
## 855          56619       58500                27319
## 866          54228       40300                20000
## 869          52897        3000                83030
## 899          90891       53000                92131
## 904          14363       17900                10000
## 917          45745       10300                44284
## 940          74357       31100                76353
## 957          47193       12500                64808
## 960          21659        6700                18451
## 993         182405       11800               198055
## 998          36065       22800                38356
## 1025         77307       53900                75553
## 1056         13771       33900                 3000
## 1063         33567       28300                36883
## 1083         79512        8000                85320
## 1105         56717       40300                51414
## 1117        116174       59400                22500
## 1118          5077        4000                 7409
## 1146         84810       49800                41382
## 1170         53839       13000                51899
## 1227         36319        6800                29499
## 1263         15928        5600                13328
## 1264         28269        8400                25377
## 1273         38080       55900                23031
## 1285         37748       28000                53982
## 1319         17591       58400                15000
## 1337         24794        8300                29031
## 1349         48574       13300                42831
## 1351         89681       15500                94869
## 1356         12697       19000                 8900
## 1386         31378       44800                75776
## 1388         31327        5000                65750
## 1390         99924       15000                94668
## 1410        101766       56300                96702
## 1416         97658       41500                69949
## 1434         10541        4200                10375
## 1439         10059        1000                13698
## 1449        120780       15500               129869
## 1459        317824       25600               303786
## 1462         36612       11900                48514
## 1480         12300        6800                31248
## 1484         25308        9100                23977
## 1487         57728       23600                50339
## 1527         19900        6800                25551
## 1529          9665        1500                10574
## 1530          6713       26500                 1006
## 1545         15025       66800                15000
## 1567         39454        8200                48270
## 1597        126904        5000                 5000
## 1601         26819       41800                 7582
## 1623         37077       24500                32655
## 1633         34242        3800                22639
## 1636         19766        6200                29782
## 1640        153973      120900               111914
## 1645         20838        3500                18350
## 1650         80118       42700                64420
## 1671          4925       16400                 2500
## 1672         42268       45300                29001
## 1696          6728         500                16965
## 1704         33990       70500                43000
## 1721         43694        3000                62727
## 1724         94122       11800                87112
## 1728         45298       54300                39396
## 1730         31666       50300                21342
## 1734        713851        4500               583496
## 1752         24839       22800                56034
## 1771         49094       31900                44000
## 1816         92386       29200               102273
## 1846         34157       21700                22096
## 1850         50003       51700                36529
## 1853        134124       46400               125450
## 1856         41306       59800                31381
## 1857        191007        7900               161658
## 1862          7806       21500                 3500
## 1865         82027        7900                73039
## 1866         56356       34000                52288
## 1867        108627       98900                45377
## 1896         68709       18100                59549
## 1905         89501        6400                96301
## 1907         42778       14500                43452
```

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## 1922          67882        25900                75270
## 1930          33421        25200                29979
## 1933           7366         6000                 7199
## 1952          21017       117200                16000
## 1956          19550         6100                25366
## 1961          52694        12400                59240
## 1963          45171        18800                44401
## 2004           9761        17000                 6172
## 2012          54548        28300                46174
## 2017          27204         5000                24463
## 2019          66141         8400                60125
## 2026          20538         3500                22901
## 2027          87254        59400               137724
## 2039          21761         5800                27992
## 2041         150724        16900               161081
## 2051          18631       105900                12000
## 2060          34364         9000                30673
## 2065          26625         8200                33084
## 2073          58057        57000                55830
## 2105          59358        41000                54968
## 2117          39221        40200                51432
## 2128          43555       186500                 6661
## 2129          94861        11000                96066
## 2136           9232         4900                 9198
## 2137          28524        20300                21625
## 2148         142431        20500               127228
## 2155          14528        29000                13000
## 2168          35089        14400                25669
## 2197          61467        25400                56103
## 2215          31503        11600                52982
## 2224          49156         4500                14863
## 2234          44000        19500                38021
## 2255          46489        29400                48503
## 2258          57061        36400                51750
## 2286          21683         3100                24259
## 2296          75102       136200                77209
## 2329          22505         4000                21512
## 2342          36494         9700                43453
## 2347         133544        21300                30748
## 2357          55842         4400                61694
## 2377          73906         4000                67407
## 2393         119300        59900                66009
## 2396          47365         7200                47487
## 2399          26266        15300                35500
## 2405          26010        18700                42046
## 2420          13067        10800                19165
## 2425          31772        11900                29547
## 2429          45834         8300                54538
## 2439          24515         6200                31979
## 2447          68987        39800                89903
## 2449          15405         6800                 9969
## 2457          23297         6800                24611
## 2478          21882        55400                18000
## 2480          26286        10600                34441
## 2492          70062        31100                61164
## 2494         140441        20500               114177
## 2504         104155        40800                71989
## 2510          38354        25400                44398
## 2514           2832        10100                10000
## 2516         168864        14000               108417
## 2522          46026        28800                35000
## 2529          32003         1800                54006
## 2535           5274         8300                 2020
## 2545          10595        31400                16813
## 2549          71907        12900                61267
## 2593          22230        16000                65847
## 2598          37481        14000                37854
## 2604         141896       103700               123677
## 2628          51457         1500                62622
## 2631         115154         9900               106479
## 2661          92884        23500                89647
## 2673          38087        16200                30000
## 2692          34507        17300                36321
## 2707          21591         5800                20247
## 2714          48601        21000                74031
## 2715          71235        12900                72984
## 2761          73452        10400                84831
## 2772          27364         9400                31050
## 2788          62637        17500                95638
## 2789          84621        21100                79983
## 2820          78906         4800                85013
## 2840          50683        19000                54942
## 2856          57534        14100                75633
## 2858          62489        52700                57944
## 2861          45509         3800                46637
## 2872          47442        20700                42687
## 2877         142489        59800               145920
## 2878          16415        11000                22363
## 2879          42699        12200                34799
## 2893          54309        36000                55480
## 2913          10094         1700                 7600
## 2915          45768        32800                23907
## 2918          72243        19400                74522
## 2940         141787        44900               106640
## 2942          80904        89200                81765
## 2954          59169        10900                49962
## 2976          60135        13300                64732
## 2977          10774        20400                 3050
```

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## 2978          61996        23900                 66250
## 2982          73590        27100                 69564
## 3002         101826        54200                115876
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## 3017          52451         7500                 53706
## 3018          63258        34100                 58733
## 3021          33289        39500                 43245
## 3034          60417        30300                 63754
## 3045          88594        40600                 87271
## 3050          40182        37700                 35000
## 3057          46787        35700                 32353
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## 3104          21064        27300                 20022
## 3112          29259        11000                 33925
## 3124          81147        11200                 66583
## 3150          30653        30500                 15000
## 3160          96305        12800                 92190
## 3165          14469        44600                 11303
## 3172          57308         8700                 67155
## 3177          28436        14600                 18017
## 3213           7494        26800                  5200
## 3222          37415         4100                 40353
## 3237         176062         9000                135873
## 3252          19097         7000                 15000
## 3257          42930        50800                 54376
## 3258          28054        12000                 21553
## 3265          40801        33500                 35477
## 3276          66416        26200                 62480
## 3289          40272         2000                 60469
## 3307         138882        15500                131301
## 3312          28454        14100                 14505
## 3317         107536       121100                 85136
## 3333          26419         7500                 33493
## 3366         148092        37300                119003
## 3383          44851         2500                 47346
## 3419          36836         9800                 33103
## 3421         101491        63500                 84838
## 3422         102419        30000                 95266
## 3429          89473        27200                 73793
## 3433          18572        23800                 37663
## 3449          24814         9500                 32449
## 3458          14842        13900                 41346
## 3467          25524        39600                 16500
## 3471          83797        19900                 73911
## 3480          90580        11900                 73271
## 3482          55561         8900                 60396
## 3502          52301        31800                 57631
## 3504          18650         9600                 15000
## 3507          99562        16000                 84098
## 3536          92717        10400                102993
## 3538          60833        45900                 44456
## 3542          40366         5500                 37396
## 3547          42075        27900                 39602
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## 3567         119142         4000                130168
## 3590          32682        21000                 49073
## 3607          54215        18400                 38704
## 3623          50981        67200                 60164
## 3635          96458        80100                 48460
## 3655          20973        34200                 28142
## 3684           7362          900                 12479
## 3687          40133        11500                 35923
## 3688           9017        50200                 10000
## 3699          24923        19500                  9500
## 3701          29738         9000                 29785
## 3712           9982         5600                  6025
## 3730          16420        18100                 16425
## 3749         110081        33400                 89000
## 3756          57941        29100                 38312
## 3758          63502         3000                 49869
## 3771           7422        41000                 11961
## 3785          12864        37800                 10000
## 3788          19072        28400                  9512
## 3852          25609         1400                 23527
## 3857          21022         2500                 25320
## 3865          50256        36100                 53485
## 3889           9476         3600                  6344
## 3892         136755        72500                125593
## 3901          38597        34200                 30061
## 3917          20163        19600                 18053
## 3924          91259        41100                 98875
## 3938          19679         1800                 24636
## 3947          65862        21500                 67755
## 3949           9130         5400                 13255
## 3959          14503          800                 20081
## 3977         194500        21000                249305
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## 4003          46042        19400                 40475
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## 4017          27039         9300                 34225
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## 4026         184598        57600                 52093
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## 4054          19198         4000                 40843
## 4093          50118        27000                 71242
```

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## 4099          7590        27700          9360
## 4104         21575        17300         21500
## 4107         50509         2300         52981
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## 4122         56721        23800         54119
## 4128         90454        24300         88613
## 4131         15525        10200         25000
## 4133         20738        13000         12000
## 4135         26638         3500         25269
## 4151        103280         4300        100126
## 4153         30690        14600         17852
## 4157         32001        24000         34519
## 4233         16383         7500         22692
## 4237         38610         3800         34705
## 4254         34310        41700         22950
## 4258         17407          800         18186
## 4259         19716         6000         56390
## 4261        128638        27600         88511
## 4265         53097        13400         49308
## 4269          7400        17800         22370
## 4297         42252        16800         36681
## 4307         28091        35300         45347
## 4341         47493         7800         50143
## 4342         51459        15100         54885
## 4351          6286         3800          4000
## 4352         26160        31700         30298
## 4376         24855         5800         26999
## 4395         13482        11700         25500
## 4412         62243        39100         51389
## 4414         43462         7200         35629
## 4448         36479        30200         16308
## 4466         37553        24300         21648
## 4476         81193        36500        104193
## 4477         16638        13100         17884
## 4498        137459         2300        146972
## 4501         29981        33500         10697
## 4506         41065        22400         32780
## 4517        203472        15000        160341
## 4524         45384         5100         66734
## 4532         33674         6700         32109
## 4539         18237        11800         15292
## 4552         37243        12700         40569
## 4565          6286        21000         22021
## 4580         13744         1000         10500
## 4584         43974        11600         37227
## 4586         25384        29100         15000
## 4611         54923        39100         56281
## 4632         19320        18400         14500
## 4682         46149        14600         41006
## 4688         56860        40100         54863
## 4692         21675         4800         38403
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## 4743         23869        45700         26502
## 4758         10491        45500         10865
## 4769         31970        31900         19985
## 4774         48344        20700         34564
## 4775        132928        36100        155402
## 4786        132196         5000        121854
## 4791        100352         2700         69239
## 4792         10512        18700          8000
## 4797         65325        22000         37667
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## 4816         88806        13500         76839
## 4818         50939        40000         64040
## 4832         41748        31600         33768
## 4834        152224        33800        109581
## 4880         51406        21300         62893
## 4921         35119         4600         31973
## 4922         17129         5900         30194
## 4934         16493        19000         13008
## 4951          6507        12400          4999
## 4958         38434          500         39966
## 4985         49637        14800         47208
## 5010          7618        13500          4885
## 5021         40408        18200         34702
## 5035         11464        11900          2539
## 5036         31181        10100         19766
## 5038         20530         2900         24639
## 5059         24045        10600         18189
## 5060          8165         1300         10497
## 5070        116989         3000        114453
## 5103         20128         4800         19266
## 5134        119087        41600         91937
## 5136         59158        16000         56753
## 5155        126841        16400        158356
## 5157         44972        52600         40649
## 5162         37773        43400         41447
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## 5168         45256        16000         40980
## 5169         50943         9100         54981
## 5177         36277         2400         83784
## 5184         61976       304900         65000
## 5186        136082        14600        156916
## 5218         19060        31500         43497
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## 5221         62488        31000         55342
## 5244          9477         8500          7075
## 5255         85804        26800         55627
```

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## 5278          24910        2000                16907
## 5295          37358       19700                31612
## 5317          11329       11500                11329
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## 5348          38631        7300                39931
## 5354          25125       20800                28556
## 5356          27518        7800                24917
## 5358          70859       27000                80402
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## 5379          40474       10300                40247
## 5390          22629       13300                12300
## 5406          26232        8500                31752
## 5416         273828       45600               150739
## 5431          40737       21300                55028
## 5442          50259       36300                27000
## 5467          65874       10200                73264
## 5494          32249       19700                31195
## 5554         152028       26000               103690
## 5556          17906        3200                15598
## 5565           7015       27400                 3000
## 5566          85071       21000                79088
## 5568          14217        2300                 9500
## 5574          45904       14300                53698
## 5597          45956        8800                44001
## 5621          64667        9200                71364
## 5623          25079       15700                16600
## 5643          45160       31800                34000
## 5664          17174       10000                18981
## 5666          19842        9800                14045
## 5720          65067       16500                70000
## 5731          39265       13300                18837
## 5733          34456       32800                34145
## 5734           3452        3500                 2500
## 5749          38775        3000                45610
## 5759         252501       27500               103853
## 5760          22847        2700                31267
## 5784          33947       10400                40000
## 5786          32662       10000                23563
## 5794         185837       54400               238447
## 5806          83791       49800                52482
## 5809           9833        6300                16738
## 5827          40574      155100                 8597
## 5848          39467        6700                33645
## 5849          88869       30500                95363
## 5860          26722       14000                18155
## 5874          59889       24500                44054
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## 5923          40533       12600                42093
## 5948          65209       68400                67620
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## 6159          86210       11000                93176
## 6164          45107        2300                51040
## 6165          19726        9400                16128
## 6174          24480       34100                35000
## 6183         269013      340800                93833
## 6196          29625       10000                 7100
## 6203          15785       55800                11550
## 6204          15639       21300                15000
## 6207          24512       13100                30046
## 6209          46592       43500                44287
## 6237          37855        4500                53917
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## 6250          35492       34100                45795
## 6253          32336       14600                38827
## 6289          34741        4700                38128
## 6294          17867       41500                19605
## 6298          35826       10100                39469
## 6307          18671        4800                16525
## 6316          59018        7500                58315
## 6333          14725        6800                11299
## 6352         123836       80000                47500
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## 6388          75469       44200                57729
## 6396          20564       11800                36405
## 6402          51187       12900                60615
## 6407          76712       73000                56166
## 6410          20561       36900                 3500
## 6421         149873        5800               136421
## 6422          39697        1300                48757
## 6435         103928       28900               111174
## 6449          66599        6200                68588
## 6455          74244       13800                58535
## 6456          59252        7600                62927
## 6468         133529       29200               117688
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## 6477          39539       40400                45174
## 6490          32755       23800                 8200
## 6504          11299       10000                 2000
```

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## 6505          135117          7500                131075
## 6530           65896         31200                 87432
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## 6585           29877         29000                 22574
## 6599           24782          9400                 27250
## 6612           11697         15900                  9600
## 6617           73755         48800                 60342
## 6628           20121         36200                 16370
## 6642           24611         32000                 12445
## 6651          127870         18300                137889
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## 6660           63747         22000                 76209
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## 6675           44120         36300                 60028
## 6680           56579         50400                 37566
## 6696           23538          8500                 18483
## 6712           79515         24800                 91659
## 6736           39182         43500                 41762
## 6750           67422          9500                 63896
## 6782           39482         70100                 41487
## 6784            7487          2100                  6307
## 6793           78792          6000                 47989
## 6815           22322         39900                  8000
## 6833            9707         11300                  5600
## 6854          179053         18000                199996
## 6855          186357         15200                178220
## 6878           48682          3600                 49484
## 6879          110834         13000                115125
## 6884           17026         20000                 10000
## 6906           42117         59300                 30782
## 6922           20601         34600                  5000
## 6936           37813         10000                 41317
## 6950          399146         38100                368621
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## 658                                                              Cash
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## 696                                                    DirectPay
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## 2026                                                    Cash
## 2027                                                    Cash
## 2039                                                    Cash
## 2041                                                    Cash
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## 2060                                                    Cash
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## 2982                                                    Cash
## 3002                                              DirectPay
## 3012                                                    Cash
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## 4110                                                    Cash
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## 5317                                                    Cash
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## 7794                                                    Cash
## 7824                                                    Cash
## 7828                                                    Cash
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## 7833                                                    Cash
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## 7893                                                    Cash
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## 8046                                              DirectPay
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## 8597                                              DirectPay
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## 8886                                                    Cash
## 8889                                                    Cash
## 8930                                                    Cash
## 8934                                                    Cash
## 8936                                                    Cash
## 8940                                                    Cash
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## 8949                                                          Cash
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## 9046                                                          Cash
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## 10276                                                         Cash
##       debt_settlement_flag debt_settlement_flag_date settlement_status
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## 54                      N
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## 60                      N
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## 1083                  N
## 1105                  N
## 1117                  N
## 1118                  N
## 1146                  N
## 1170                  N
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## 2342                    N
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## 6985                    N
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## 8287                    Y                  Feb-2019            ACTIVE
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## 8304                    N
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## 9418                    N
## 9437                    N
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## 10276                   N
##       settlement_date         region
## 35                         colorado
## 54                        tennessee
## 59                            maine
## 60                          vermont
## 71                          florida
## 73                        minnesota
## 74                           oregon
## 90                           oregon
## 101                          alaska
## 124                         montana
## 137                          alaska
## 142                   massachusetts
## 143                      california
## 160                   new hampshire
## 161                        kentucky
## 165                        colorado
## 174                         vermont
## 192                   massachusetts
## 193                           maine
## 206                        new york
## 212                     mississippi
## 218                            ohio
## 229                           maine
## 232                          kansas
## 234                       tennessee
## 236                          hawaii
## 246                           idaho
## 247                          nevada
## 262                          nevada
## 285                        illinois
## 296                   massachusetts
## 302                         florida
## 304                          nevada
## 324                         florida
## 326                         florida
## 328                      california
## 329                           idaho
## 330                      new mexico
```

```
## 338                          oregon
## 353                           maine
## 357                       tennessee
## 361                         vermont
## 370                      california
## 377                        oklahoma
## 382                        new york
## 410                       tennessee
## 428                      california
## 450                       tennessee
## 465                         florida
## 466                          nevada
## 471                       tennessee
## 479                         florida
## 485                           texas
## 491                       louisiana
## 496                        colorado
## 497                            utah
## 499                        illinois
## 548                     connecticut
## 558                        illinois
## 570                         florida
## 577                          oregon
## 579                        arkansas
## 608                      california
## 626                            utah
## 634                          nevada
## 636                      california
## 641                      california
## 658                      california
## 660                      california
## 670                       tennessee
## 674                        oklahoma
## 689                        colorado
## 696                         florida
## 705                          nevada
## 713                       wisconsin
## 752                         montana
## 790                         vermont
## 799                        illinois
## 819                           idaho
## 840                       tennessee
## 844                          oregon
## 845                    north dakota
## 855                         vermont
## 866                      california
## 869                      california
## 899                    rhode island
## 904                          nevada
## 917                        illinois
## 940                       tennessee
## 957                       tennessee
## 960                         montana
## 993                       tennessee
## 998                         georgia
## 1025                  new hampshire
## 1056                        vermont
## 1063                        montana
## 1083                      louisiana
## 1105                         nevada
## 1117                        montana
## 1118                       kentucky
## 1146                      california
## 1170                        illinois
## 1227                         alabama
## 1263                         florida
## 1264                  new hampshire
## 1273                         indiana
## 1285                      california
## 1319                        arkansas
## 1337                         vermont
## 1349                  north carolina
## 1351                      california
## 1356                         nevada
## 1386                       tennessee
## 1388                         nevada
## 1390                         oregon
## 1410                       tennessee
## 1416                         vermont
## 1434                      california
## 1439                          kansas
## 1449                   massachusetts
## 1459                         nevada
## 1462                         florida
## 1480                         florida
## 1484                      california
## 1487                        oklahoma
## 1527                         nevada
## 1529                        illinois
## 1530                        kentucky
## 1545                  new hampshire
## 1567                        new york
## 1597                      california
## 1601                  new hampshire
## 1623                  new hampshire
## 1633                         alabama
## 1636                    south dakota
## 1640                      california
```

```
## 1645                          maine
## 1650                       michigan
## 1671                        montana
## 1672                     california
## 1696                    connecticut
## 1704                           utah
## 1721                       illinois
## 1724                       arkansas
## 1728                      tennessee
## 1730                        montana
## 1734                      tennessee
## 1752                         nevada
## 1771                     california
## 1816                     california
## 1846                         nevada
## 1850                     new jersey
## 1853                       missouri
## 1856                          maine
## 1857                  rhode island
## 1862                        georgia
## 1865                  new hampshire
## 1866                        florida
## 1867                     california
## 1896                     california
## 1905                      tennessee
## 1907                      tennessee
## 1922                          texas
## 1930                     california
## 1933                         nevada
## 1952                     california
## 1956                        florida
## 1961                    connecticut
## 1963                     california
## 2004                       kentucky
## 2012                           ohio
## 2017                           utah
## 2019                          maine
## 2026                         oregon
## 2027                        florida
## 2039                         nevada
## 2041                        georgia
## 2051                        arizona
## 2060                  massachusetts
## 2065                     new mexico
## 2073                       missouri
## 2105                          idaho
## 2117                           ohio
## 2128                      tennessee
## 2129                        florida
## 2136                  massachusetts
## 2137                       new york
## 2148                      wisconsin
## 2155                        vermont
## 2168                         oregon
## 2197                       michigan
## 2215                        florida
## 2224                         oregon
## 2234                           ohio
## 2255                       oklahoma
## 2258                         nevada
## 2286                        florida
## 2296                        indiana
## 2329                        montana
## 2342                       colorado
## 2347                         nevada
## 2357                        vermont
## 2377                         oregon
## 2393                      tennessee
## 2396                        arizona
## 2399                         nevada
## 2405                      tennessee
## 2420                  rhode island
## 2425                      tennessee
## 2429                     california
## 2439                      tennessee
## 2447                        florida
## 2449                  north dakota
## 2457                        montana
## 2478                         nevada
## 2480                        alabama
## 2492                     california
## 2494                        montana
## 2504                      tennessee
## 2510                          idaho
## 2514                      tennessee
## 2516                     california
## 2522                     california
## 2529                         nevada
## 2535         Feb-2019     tennessee
## 2545                      louisiana
## 2549                        florida
## 2593                        vermont
## 2598                        georgia
## 2604                     california
## 2628                       oklahoma
## 2631                           ohio
## 2661                           utah
## 2673                          idaho
```

```
## 2692                    california
## 2707                      new york
## 2714                      delaware
## 2715                          ohio
## 2761                     tennessee
## 2772                    washington
## 2788                     louisiana
## 2789                       florida
## 2820                       vermont
## 2840                       florida
## 2856                       montana
## 2858                     tennessee
## 2861                      illinois
## 2872                       florida
## 2877                      colorado
## 2878                     tennessee
## 2879                      new york
## 2893                       florida
## 2913                       florida
## 2915                    california
## 2918                 massachusetts
## 2940                         maine
## 2942                 new hampshire
## 2954                       florida
## 2976                     tennessee
## 2977                       florida
## 2978                         texas
## 2982                       alabama
## 3002                         idaho
## 3012                     tennessee
## 3017                      oklahoma
## 3018                        nevada
## 3021                     tennessee
## 3034                     tennessee
## 3045                       vermont
## 3050                    california
## 3057                      colorado
## 3071                      new york
## 3104                       florida
## 3112                     louisiana
## 3124                       indiana
## 3150                    california
## 3160                       georgia
## 3165                 massachusetts
## 3172                        oregon
## 3177                          iowa
## 3213                        nevada
## 3222                    california
## 3237                        oregon
## 3252                         idaho
## 3257                        nevada
## 3258                       alabama
## 3265                     louisiana
## 3276                    california
## 3289                       arizona
## 3307                        oregon
## 3312                    california
## 3317                     tennessee
## 3333                        kansas
## 3366                     tennessee
## 3383                    california
## 3419                     minnesota
## 3421                       alabama
## 3422                       georgia
## 3429                    california
## 3433                 new hampshire
## 3449                      illinois
## 3458                       florida
## 3467                      new york
## 3471                  pennsylvania
## 3480                      missouri
## 3482                       florida
## 3502                       florida
## 3504                        nevada
## 3507                      kentucky
## 3536                       georgia
## 3538                       florida
## 3542                 massachusetts
## 3547                       montana
## 3553                       montana
## 3567                  rhode island
## 3590                       florida
## 3607                         idaho
## 3623                 new hampshire
## 3635                     tennessee
## 3655                   connecticut
## 3684                         maine
## 3687                       alabama
## 3688                    california
## 3699                    new mexico
## 3701                          utah
## 3712                     louisiana
## 3730                          utah
## 3749                    california
## 3756                      michigan
## 3758                     louisiana
## 3771                    california
## 3785                         maine
```

```
## 3788                louisiana
## 3852                 michigan
## 3857                    texas
## 3865                tennessee
## 3889                  vermont
## 3892               california
## 3901                  vermont
## 3917                   oregon
## 3924                     utah
## 3938             north dakota
## 3947                    idaho
## 3949                tennessee
## 3959                    idaho
## 3977               washington
## 3990            new hampshire
## 4001                   nevada
## 4003                    idaho
## 4016                 missouri
## 4017               california
## 4021                  arizona
## 4022             north dakota
## 4026                   oregon
## 4036                 michigan
## 4049                    texas
## 4054               california
## 4093                  georgia
## 4099               california
## 4104                 oklahoma
## 4107                  georgia
## 4110                 nebraska
## 4122                louisiana
## 4128                  florida
## 4131              connecticut
## 4133                 virginia
## 4135                 kentucky
## 4151                minnesota
## 4153                   nevada
## 4157                     utah
## 4233              connecticut
## 4237                 new york
## 4254               california
## 4258             rhode island
## 4259                louisiana
## 4261               california
## 4265                tennessee
## 4269               washington
## 4297                    idaho
## 4307               california
## 4341                  alabama
## 4342               california
## 4351                  georgia
## 4352                     utah
## 4376                   nevada
## 4395                tennessee
## 4412               california
## 4414                 kentucky
## 4448           north carolina
## 4466                  indiana
## 4476                    idaho
## 4477           north carolina
## 4498            massachusetts
## 4501                   nevada
## 4506                  florida
## 4517                    maine
## 4524                     utah
## 4532                    maine
## 4539                  arizona
## 4552                 oklahoma
## 4565               new jersey
## 4580             north dakota
## 4584                  georgia
## 4586                    texas
## 4611                tennessee
## 4632                tennessee
## 4682                     utah
## 4688                 michigan
## 4692               california
## 4712                 maryland
## 4743               california
## 4758               california
## 4769                 new mexico
## 4774            new hampshire
## 4775                tennessee
## 4786                  florida
## 4791                 illinois
## 4792                 arkansas
## 4797                   oregon
## 4801             rhode island
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## 4818               new mexico
## 4832                  florida
## 4834                     utah
## 4880                  arizona
## 4921            massachusetts
## 4922                     utah
## 4934                    maine
## 4951               california
## 4958                tennessee
```

```
## 4985                        nevada
## 5010                         maine
## 5021                      oklahoma
## 5035                        nevada
## 5036                       arizona
## 5038                        nevada
## 5059                        kansas
## 5060                       montana
## 5070                       alabama
## 5103                         maine
## 5134                      colorado
## 5136                       arizona
## 5155                 new hampshire
## 5157                       florida
## 5162                       georgia
## 5163                        hawaii
## 5168                         maine
## 5169                    california
## 5177                          utah
## 5184                 massachusetts
## 5186                     tennessee
## 5218                       montana
## 5220                        nevada
## 5221                       florida
## 5244                    california
## 5255                      michigan
## 5278                     tennessee
## 5295                       montana
## 5317                     minnesota
## 5325                      illinois
## 5345                       montana
## 5348                       georgia
## 5354                       florida
## 5356                        nevada
## 5358                     tennessee
## 5365                      colorado
## 5379                    california
## 5390                       florida
## 5406                        nevada
## 5416                       georgia
## 5431                    california
## 5442                       arizona
## 5467                          utah
## 5494                    california
## 5554                  north dakota
## 5556                     louisiana
## 5565                     tennessee
## 5566                    california
## 5568                    california
## 5574                    california
## 5597                      kentucky
## 5621                       florida
## 5623                    california
## 5643                       florida
## 5664                  south dakota
## 5666                        nevada
## 5720                    california
## 5731                     wisconsin
## 5733                       florida
## 5734                         maine
## 5749                  rhode island
## 5759                          utah
## 5760                       florida
## 5784                         idaho
## 5786                        oregon
## 5794                       florida
## 5806                    california
## 5809                       florida
## 5827                        nevada
## 5848                     louisiana
## 5849                 new hampshire
## 5860                     minnesota
## 5874                          utah
## 5876                         maine
## 5886                     louisiana
## 5923                    california
## 5948                    california
## 5962                         idaho
## 5974                        oregon
## 6002                          utah
## 6051                     tennessee
## 6057                    california
## 6083                  south dakota
## 6097                      michigan
## 6126                       alabama
## 6157                    california
## 6159                          utah
## 6164                  south dakota
## 6165                        nevada
## 6174                    california
## 6183                      colorado
## 6196                          utah
## 6203                       georgia
## 6204                     new mexico
## 6207                    california
## 6209                      oklahoma
## 6237                          utah
## 6247                  south dakota
```

```
## 6250                      michigan
## 6253                    california
## 6289                        nevada
## 6294                    california
## 6298                        oregon
## 6307                       florida
## 6316                         maine
## 6333                     louisiana
## 6352                       georgia
## 6367                    washington
## 6388                       alabama
## 6396                    california
## 6402                     minnesota
## 6407        Jan-2019        vermont
## 6410                    california
## 6421                    california
## 6422                    new mexico
## 6435                       vermont
## 6449                       florida
## 6455                        nevada
## 6456                 new hampshire
## 6468                     tennessee
## 6470                       vermont
## 6477                    california
## 6490                    california
## 6504                        nevada
## 6505                    california
## 6530                         idaho
## 6533                     tennessee
## 6560                          utah
## 6570                       montana
## 6585                       indiana
## 6599                     tennessee
## 6612                        oregon
## 6617                        nevada
## 6628                    california
## 6642                        nevada
## 6651                 west virginia
## 6653                     louisiana
## 6660                    california
## 6673                  north dakota
## 6675                south carolina
## 6680                    california
## 6696                       florida
## 6712                     tennessee
## 6736                        oregon
## 6750                    california
## 6782                        kansas
## 6784                       alabama
## 6793                     tennessee
## 6815                    california
## 6833                     louisiana
## 6854                         idaho
## 6855                        alaska
## 6878                       florida
## 6879                        oregon
## 6884                        nevada
## 6906                        nevada
## 6922                    california
## 6936                        nevada
## 6950                       georgia
## 6964                      new york
## 6984                  rhode island
## 6985                         maine
## 6993                    california
## 7000                       florida
## 7021                     louisiana
## 7027                    california
## 7034                      illinois
## 7038                        oregon
## 7039                 massachusetts
## 7043                     louisiana
## 7068                       montana
## 7081                        oregon
## 7095                         idaho
## 7096                    california
## 7099                    new jersey
## 7111                  rhode island
## 7115                         maine
## 7132                         texas
## 7133                    california
## 7147                    washington
## 7158                     minnesota
## 7167                     louisiana
## 7168                         idaho
## 7169                       florida
## 7188                    california
## 7193                    california
## 7232                         idaho
## 7237                       florida
## 7249                       arizona
## 7255                       georgia
## 7262                    new jersey
## 7279                     minnesota
## 7302                  rhode island
## 7310                       montana
## 7323                 new hampshire
## 7344                     tennessee
```

```
## 7353                south dakota
## 7355                     florida
## 7426                   louisiana
## 7445                    new york
## 7446                  california
## 7460                       maine
## 7465                     georgia
## 7474                     montana
## 7479                       maine
## 7485                     florida
## 7530                    colorado
## 7533                       idaho
## 7538               new hampshire
## 7555                  california
## 7562                    oklahoma
## 7564                     arizona
## 7579                   tennessee
## 7591                       idaho
## 7594                      nevada
## 7612                     arizona
## 7619               massachusetts
## 7621                   tennessee
## 7704                       maine
## 7715                       maine
## 7737               massachusetts
## 7777                pennsylvania
## 7792                    michigan
## 7794                   tennessee
## 7824               massachusetts
## 7828                  washington
## 7833               new hampshire
## 7838                     georgia
## 7840                     florida
## 7882                  california
## 7893                     florida
## 7900                   tennessee
## 7910                       maine
## 7925                    new york
## 7945                south dakota
## 7963                rhode island
## 7972                     arizona
## 7980                       maine
## 7985                     florida
## 8006                      nevada
## 8009                   tennessee
## 8024               new hampshire
## 8042                  california
## 8046                      nevada
## 8047                    colorado
## 8080                     vermont
## 8086                   tennessee
## 8111                    illinois
## 8125                      nevada
## 8140                      oregon
## 8148                south dakota
## 8154                     florida
## 8174                     vermont
## 8192                     florida
## 8261                     georgia
## 8269                    arkansas
## 8275               new hampshire
## 8287         Feb-2019        utah
## 8303                   tennessee
## 8304                     florida
## 8339                        utah
## 8352                      nevada
## 8370                     florida
## 8384                rhode island
## 8388                   minnesota
## 8400                    oklahoma
## 8420                     florida
## 8432                  california
## 8439                      nevada
## 8440                pennsylvania
## 8444                   tennessee
## 8455                       texas
## 8457                  california
## 8460                        iowa
## 8466                   louisiana
## 8478               new hampshire
## 8485                      oregon
## 8494                   minnesota
## 8495                   tennessee
## 8503                  california
## 8520                      nevada
## 8546                south dakota
## 8548                     arizona
## 8562                  california
## 8577                north dakota
## 8582                  california
## 8584                    virginia
## 8593         Nov-2018       nevada
## 8597                    oklahoma
## 8601                    oklahoma
## 8603                    missouri
## 8645                   minnesota
## 8659                  california
## 8679                     florida
```

```
## 8682                      new york
## 8691                     tennessee
## 8695                        nevada
## 8698                        nevada
## 8725                     tennessee
## 8730                       montana
## 8733                 massachusetts
## 8734                     tennessee
## 8748                    new mexico
## 8755                        nevada
## 8774                 massachusetts
## 8784                    california
## 8789                      illinois
## 8799                         idaho
## 8813                  south dakota
## 8815                        kansas
## 8827                         maine
## 8829                        oregon
## 8833                 new hampshire
## 8836                       vermont
## 8842                      illinois
## 8849                    california
## 8863                      colorado
## 8879                    california
## 8886                  south dakota
## 8889                       georgia
## 8930                       arizona
## 8934                        nevada
## 8936                     tennessee
## 8940                       florida
## 8949                      new york
## 8952                       vermont
## 8954                          utah
## 8996                     tennessee
## 9028                      illinois
## 9029                      new york
## 9039                 massachusetts
## 9043                         maine
## 9044                       florida
## 9046                       montana
## 9062                          utah
## 9065                     louisiana
## 9144                    california
## 9172                    california
## 9184                  rhode island
## 9201                     tennessee
## 9213                         maine
## 9224                      arkansas
## 9233                         idaho
## 9239                    california
## 9256                       georgia
## 9260                         maine
## 9272                 massachusetts
## 9279                         texas
## 9290                      maryland
## 9302                        oregon
## 9308                    california
## 9315                    california
## 9320                      illinois
## 9341                     louisiana
## 9379                      colorado
## 9400                    california
## 9418                       vermont
## 9437                      michigan
## 9477                        hawaii
## 9495                      new york
## 9496                        nevada
## 9505                     louisiana
## 9532                  rhode island
## 9538                     tennessee
## 9583                    washington
## 9585                    california
## 9597                    california
## 9608                      new york
## 9620                    california
## 9661                      oklahoma
## 9687                     tennessee
## 9693                    california
## 9703                        oregon
## 9709                        nevada
## 9726                    new mexico
## 9805                     louisiana
## 9806                        oregon
## 9809                    california
## 9824                   connecticut
## 9826                       vermont
## 9837                        nevada
## 9841                       montana
## 9844                     minnesota
## 9849                     tennessee
## 9912                       georgia
## 9925                      colorado
## 9926                        nevada
## 9933                 new hampshire
## 9937                         maine
## 9941                          iowa
## 9951                        oregon
## 9960                         idaho
```

```
## 9987                      california
## 9997                      new mexico
## 10003                  new hampshire
## 10010                          maine
## 10011                      tennessee
## 10047                        vermont
## 10050                      tennessee
## 10093                        florida
## 10104                     california
## 10111                         alaska
## 10131                        vermont
## 10137                          maine
## 10144                          texas
## 10169                      tennessee
## 10172                          idaho
## 10176                  massachusetts
## 10184                          idaho
## 10202                  massachusetts
## 10209                         nevada
## 10215                          maine
## 10242                      minnesota
## 10248                   south dakota
## 10267                       new york
## 10275                       oklahoma
## 10276                       colorado
##  [ reached 'max' / getOption("max.print") -- omitted 50010 rows ]
```

```
##########################################################

#################### categorization of our data #######################
names(loan)
```

```
##   [1] "X"                          "loan_amnt"
##   [3] "funded_amnt"                "funded_amnt_inv"
##   [5] "term"                       "int_rate"
##   [7] "installment"                "grade"
##   [9] "sub_grade"                  "emp_title"
##  [11] "emp_length"                 "home_ownership"
##  [13] "annual_inc"                 "verification_status"
##  [15] "issue_d"                    "loan_status"
##  [17] "pymnt_plan"                 "desc"
##  [19] "purpose"                    "title"
##  [21] "zip_code"                   "addr_state"
##  [23] "dti"                        "delinq_2yrs"
##  [25] "earliest_cr_line"           "inq_last_6mths"
##  [27] "mths_since_last_delinq"     "open_acc"
##  [29] "pub_rec"                    "revol_bal"
##  [31] "revol_util"                 "total_acc"
##  [33] "initial_list_status"        "out_prncp"
##  [35] "out_prncp_inv"              "total_pymnt"
##  [37] "total_pymnt_inv"            "total_rec_prncp"
##  [39] "total_rec_int"              "total_rec_late_fee"
##  [41] "recoveries"                 "collection_recovery_fee"
##  [43] "last_pymnt_d"               "last_pymnt_amnt"
##  [45] "next_pymnt_d"               "last_credit_pull_d"
##  [47] "collections_12_mths_ex_med" "policy_code"
##  [49] "application_type"           "verification_status_joint"
##  [51] "acc_now_delinq"             "tot_coll_amt"
##  [53] "tot_cur_bal"                "open_acc_6m"
##  [55] "open_act_il"                "open_il_12m"
##  [57] "open_il_24m"                "mths_since_rcnt_il"
##  [59] "total_bal_il"               "il_util"
##  [61] "open_rv_12m"                "open_rv_24m"
##  [63] "max_bal_bc"                 "all_util"
##  [65] "total_rev_hi_lim"           "inq_fi"
##  [67] "total_cu_tl"                "inq_last_12m"
##  [69] "acc_open_past_24mths"       "avg_cur_bal"
##  [71] "bc_open_to_buy"             "bc_util"
##  [73] "chargeoff_within_12_mths"   "delinq_amnt"
##  [75] "mo_sin_old_il_acct"         "mo_sin_old_rev_tl_op"
##  [77] "mo_sin_rcnt_rev_tl_op"      "mo_sin_rcnt_tl"
##  [79] "mort_acc"                   "mths_since_recent_bc"
##  [81] "mths_since_recent_inq"      "num_accts_ever_120_pd"
##  [83] "num_actv_bc_tl"             "num_actv_rev_tl"
##  [85] "num_bc_sats"                "num_bc_tl"
##  [87] "num_il_tl"                  "num_op_rev_tl"
##  [89] "num_rev_accts"              "num_rev_tl_bal_gt_0"
##  [91] "num_sats"                   "num_tl_120dpd_2m"
##  [93] "num_tl_30dpd"               "num_tl_90g_dpd_24m"
##  [95] "num_tl_op_past_12m"         "pct_tl_nvr_dlq"
##  [97] "percent_bc_gt_75"           "pub_rec_bankruptcies"
##  [99] "tax_liens"                  "tot_hi_cred_lim"
## [101] "total_bal_ex_mort"          "total_bc_limit"
## [103] "total_il_high_credit_limit" "sec_app_earliest_cr_line"
## [105] "hardship_flag"              "hardship_type"
## [107] "hardship_reason"            "hardship_status"
## [109] "hardship_start_date"        "hardship_end_date"
## [111] "payment_plan_start_date"    "hardship_loan_status"
## [113] "disbursement_method"        "debt_settlement_flag"
## [115] "debt_settlement_flag_date"  "settlement_status"
## [117] "settlement_date"            "region"
```

```
#library(dplyr)

# View(loan) #130718 obs of 118 variables
```

```
#selection of the variables desired
loan = loan %>% select(loan_status , loan_amnt , funded_amnt, installment, int_rate, issue_d , grade , purpose, dti,
                       emp_length , home_ownership ,annual_inc , term)
```

```
## Error in select(., loan_status, loan_amnt, funded_amnt, installment, int_rate, : unused arguments (loan_status, loan_amnt, funded_amnt, installment,
```

```
#View(loan)

#, addr_state, region, title, sub_grade


#Here we have 130718 rows and 13 variables



## Binarization of Term variable to either 1(36months) and 0(60 months)
attach(loan)
```

```
## The following objects are masked from loan (pos = 3):
##
##     acc_now_delinq, acc_open_past_24mths, addr_state, all_util,
##     annual_inc, application_type, avg_cur_bal, bc_open_to_buy, bc_util,
##     chargeoff_within_12_mths, collection_recovery_fee,
##     collections_12_mths_ex_med, debt_settlement_flag,
##     debt_settlement_flag_date, delinq_2yrs, delinq_amnt, desc,
##     disbursement_method, dti, earliest_cr_line, emp_length, emp_title,
##     funded_amnt, funded_amnt_inv, grade, hardship_end_date,
##     hardship_flag, hardship_loan_status, hardship_reason,
##     hardship_start_date, hardship_status, hardship_type,
##     home_ownership, il_util, initial_list_status, inq_fi, inq_last_12m,
##     inq_last_6mths, installment, int_rate, issue_d, last_credit_pull_d,
##     last_pymnt_amnt, last_pymnt_d, loan_amnt, loan_status, max_bal_bc,
##     mo_sin_old_il_acct, mo_sin_old_rev_tl_op, mo_sin_rcnt_rev_tl_op,
##     mo_sin_rcnt_tl, mort_acc, mths_since_last_delinq,
##     mths_since_rcnt_il, mths_since_recent_bc, mths_since_recent_inq,
##     next_pymnt_d, num_accts_ever_120_pd, num_actv_bc_tl,
##     num_actv_rev_tl, num_bc_sats, num_bc_tl, num_il_tl, num_op_rev_tl,
##     num_rev_accts, num_rev_tl_bal_gt_0, num_sats, num_tl_120dpd_2m,
##     num_tl_30dpd, num_tl_90g_dpd_24m, num_tl_op_past_12m, open_acc,
##     open_acc_6m, open_act_il, open_il_12m, open_il_24m, open_rv_12m,
##     open_rv_24m, out_prncp, out_prncp_inv, payment_plan_start_date,
##     pct_tl_nvr_dlq, percent_bc_gt_75, policy_code, pub_rec,
##     pub_rec_bankruptcies, purpose, pymnt_plan, recoveries, revol_bal,
##     revol_util, sec_app_earliest_cr_line, settlement_date,
##     settlement_status, sub_grade, tax_liens, term, title, tot_coll_amt,
##     tot_cur_bal, tot_hi_cred_lim, total_acc, total_bal_ex_mort,
##     total_bal_il, total_bc_limit, total_cu_tl,
##     total_il_high_credit_limit, total_pymnt, total_pymnt_inv,
##     total_rec_int, total_rec_late_fee, total_rec_prncp,
##     total_rev_hi_lim, verification_status, verification_status_joint,
##     X, zip_code
```

```
unique(term)
```

```
## [1]  36 months  60 months
## Levels:  36 months  60 months
```

```
loan$term <- as.numeric(gsub("months", "", loan$term))
loan$term[loan$term == 36] <-  1
loan$term[loan$term != 1] <- 0

#View(loan)
str(loan$term)
```

```
##  num [1:130718] 1 1 1 1 1 1 0 1 1 1 1 ...
```

```
#the term has now has been converted to numeric values

## Performing Categorization of grade
unique(grade)
```

```
## [1] B C D E A G F
## Levels: A B C D E F G
```

```
loan$grade <- as.character(loan$grade) #setting the grade in terms of alphabets
loan$grade[loan$grade == "A"] <- 7
loan$grade[loan$grade == "B"] <- 6
loan$grade[loan$grade == "C"] <- 5
loan$grade[loan$grade == "D"] <- 4
loan$grade[loan$grade == "E"] <- 3
loan$grade[loan$grade == "F"] <- 2
loan$grade[loan$grade == "G"] <- 1
loan$grade <- as.numeric(loan$grade) #replacing these grades in terms of these numbers

str(loan$grade)
```

```
##  num [1:130718] 6 5 4 3 7 6 6 5 6 7 ...
```

```
#the grade levels are now numeric values ranging from 1-7

## Clearance of emp_length variable
unique(emp_length) #there are initially 12 levels
```

```
##  [1] 10+ years 5 years   3 years   1 year    < 1 year  8 years   2 years
##  [8] 7 years   4 years             6 years   9 years
## 12 Levels:  < 1 year 1 year 10+ years 2 years 3 years 4 years ... 9 years
```

```
loan$emp_length <- gsub("<", "", loan$emp_length)
loan$emp_length <- gsub("years", "", loan$emp_length)
loan$emp_length <- gsub("year", "", loan$emp_length)
loan$emp_length <- gsub("n/a", "", loan$emp_length)
loan$emp_length <- gsub(" ", "", loan$emp_length)
loan$emp_length <- gsub("\\+", "", loan$emp_length)
loan$emp_length <- ifelse(loan$emp_length =="", 10, loan$emp_length)
loan$emp_length <- as.numeric(loan$emp_length)

str(loan$emp_length)
```

```
##  num [1:130718] 10 5 5 3 5 1 1 1 1 8 ...
```

```
#Removed all the special characters and the word "years/year" from
# the employee length so that now the employee_length is numeric values from 1-10

## Binarization of home_ownership
unique(loan$home_ownership)
```

```
## [1] RENT     MORTGAGE OWN      ANY
## Levels: ANY MORTGAGE OWN RENT
```

```
loan$home_ownership <- as.character(loan$home_ownership)
loan$home_ownership[loan$home_ownership=="OWN" | loan$home_ownership=="MORTGAGE"  ] <- 1
loan$home_ownership[loan$home_ownership!=1] <- 0 #RENT and ANY are considered 0
loan$home_ownership <- as.numeric(loan$home_ownership)

str(loan$home_ownership)
```

```
##  num [1:130718] 0 0 1 0 1 1 1 0 0 1 ...
```

```
#home_ownersship is converted to numeric values


##Purpose variable was binarize based on Lending Club offer and intuition.
#As one of these values reffers to personal needs and the other parts to financial issues,
#we decided to binarize this variable as shown in the below code.
## Binarization of purpose
unique(loan$purpose)
```

```
##  [1] credit_card        other              house              debt_consolidation
##  [5] car                home_improvement   moving             major_purchase
##  [9] vacation           small_business     medical            renewable_energy
## 14 Levels: car credit_card debt_consolidation educational ... wedding
```

```
loan$purpose <- as.character(loan$purpose)
loan$purpose[loan$purpose == "home_improvement" | loan$purpose == "other" | loan$purpose == "moving" | loan$purpose == "vacation" |
               loan$purpose == "major_purchase"| loan$purpose == "small_business"| loan$purpose == "car" | loan$purpose == "medical"|
               loan$purpose == "house" | loan$purpose == "renewable_energy" | loan$purpose == "wedding"] <- 1
loan$purpose[loan$purpose != 1] <- 0
loan$purpose <- as.numeric(loan$purpose)
str(loan$purpose)
```

```
##  num [1:130718] 0 1 1 0 0 1 1 1 0 0 ...
```

```
## issue_d #this code makes the issue_d column to all NA's
head(loan$issue_d)
```

```
## [1] Dec-2018 Dec-2018 Dec-2018 Dec-2018 Dec-2018 Dec-2018
## 36 Levels: Apr-2015 Apr-2016 Apr-2018 Aug-2015 Aug-2016 Aug-2018 ... Sep-2018
```

```
loan$issue_d <- as.character(loan$issue_d)
substrRight <- function(x, n){
  substr(x, nchar(x)-n+1, nchar(x))
}
loan$issue_d <- substrRight(loan$issue_d, 4)
loan$issue_d <- as.numeric(loan$issue_d) #NA's has been introuced here
str(loan$issue_d)
```

```
##  num [1:130718] 2018 2018 2018 2018 2018 ...
```

```
#the issue_d has now been converted to numeric values


## Binarization of dependent variable loan_status
```

```
loan$loan_status <- as.character(loan$loan_status)
loan$loan_status[loan$loan_status == "Fully Paid"] <- 1
loan$loan_status[loan$loan_status != 1] <- 0
loan$loan_status <- as.numeric(loan$loan_status)
View(loan)
str(loan$loan_status)
```

```
##  num [1:130718] 1 1 1 1 1 1 1 1 1 1 ...
```

```
#loan status has now been converted to numeric values of 1 and 0



## Looking for correlation
install.packages("polycor")
```

```
## Installing package into 'C:/Users/vidhi/Documents/R/win-library/3.6'
## (as 'lib' is unspecified)
```

```
## Error in contrib.url(repos, "source"): trying to use CRAN without setting a mirror
```

```
library(polycor)
library(corrplot)
library(GGally)

#View(loan)
corr1 = cor(loan)#trying with all the variables
```

```
## Error in cor(loan): 'x' must be numeric
```

```
#Corr1 = cor(loan[-6]) #Used -6 as it points to the issue_d column
#typeof(Corr1)

ggcorr(Corr1)
```

```
#trying to plot for all variables
#ggcorr(corr1)

#corrplot(Corr1, method = "square", type = "upper")
#tryng for all the variables
corrplot(corr1, method = "square", tytype = "upper")
```

```
## Error in corrplot(corr1, method = "square", tytype = "upper"): object 'corr1' not found
```

```
##conclusion - We can see that loan_amnt, funded_amnt and installment are highly positively correlated.
#Also int_rate and grade are highly negatively correlated
#therefore we remove funded_amnt, installment and grade.

############ Performing Tests for similarity on our dataset ##########

#1) T-test on our dataset

with(data=loan,t.test(loan_amnt[loan_status==1],loan_amnt[loan_status==0],var.equal=TRUE))
```

```
##
##      Two Sample t-test
##
## data:  loan_amnt[loan_status == 1] and loan_amnt[loan_status == 0]
## t = -30.167, df = 130716, p-value < 2.2e-16
```

```
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -1834.214 -1610.409
## sample estimates:
## mean of x mean of y
##  13871.30  15593.62
```

```
#the p-value < 2.2e-16 which is extremely small so the variable loan_amt plays a significant role in the prediction of loan_status i.e whether the perso


with(data=loan,t.test(int_rate[loan_status==1],int_rate[loan_status==0],var.equal=TRUE))
```

```
##
##      Two Sample t-test
##
## data:  int_rate[loan_status == 1] and int_rate[loan_status == 0]
## t = -97.571, df = 130716, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -3.117804 -2.995012
## sample estimates:
## mean of x mean of y
##  12.84063  15.89704
```

```
# the p-value is extremely small so the variable int_rate plays a significant role in determining the loan_status i.e whether the person will default or

with(data=loan,t.test(home_ownership[loan_status==1],home_ownership[loan_status==0],var.equal=TRUE))
```

```
##
##      Two Sample t-test
##
## data:  home_ownership[loan_status == 1] and home_ownership[loan_status == 0]
## t = 30.96, df = 130716, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.0902107 0.1024045
## sample estimates:
## mean of x mean of y
## 0.6586334 0.5623258
```

```
# the p-value is extremely small so the variable home ownership plays a significant role in determining the loan_status i.e whether the person will defa

with(data=loan,t.test(annual_inc[loan_status==1],annual_inc[loan_status==0],var.equal=TRUE))
```

```
##
##      Two Sample t-test
##
## data:  annual_inc[loan_status == 1] and annual_inc[loan_status == 0]
## t = 15.969, df = 130716, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  6928.066 8866.702
## sample estimates:
## mean of x mean of y
##  85319.82  77422.43
```

```
#the p-value is extremely small and it depicts annual_inc and loan_status to be significantly related to each other

with(data=loan,t.test(term[loan_status==1],term[loan_status==0],var.equal=TRUE))
```

```
##
##      Two Sample t-test
##
## data:  term[loan_status == 1] and term[loan_status == 0]
## t = 55.141, df = 130716, p-value < 2.2e-16
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.1410336 0.1514292
## sample estimates:
## mean of x mean of y
## 0.8160055 0.6697741
```

```
#the p-value is extremely small and it depicts loan status and term to be significantly related to each other


##########################################################################################

#2) Chi square Test
# Chi square test is applied when we have categorical variables in our dataset.
attach(loan)
```

```
## The following objects are masked from loan (pos = 3):
##
##     acc_now_delinq, acc_open_past_24mths, addr_state, all_util,
##     annual_inc, application_type, avg_cur_bal, bc_open_to_buy, bc_util,
##     chargeoff_within_12_mths, collection_recovery_fee,
##     collections_12_mths_ex_med, debt_settlement_flag,
##     debt_settlement_flag_date, delinq_2yrs, delinq_amnt, desc,
##     disbursement_method, dti, earliest_cr_line, emp_length, emp_title,
```

```
##     funded_amnt, funded_amnt_inv, grade, hardship_end_date,
##     hardship_flag, hardship_loan_status, hardship_reason,
##     hardship_start_date, hardship_status, hardship_type,
##     home_ownership, il_util, initial_list_status, inq_fi, inq_last_12m,
##     inq_last_6mths, installment, int_rate, issue_d, last_credit_pull_d,
##     last_pymnt_amnt, last_pymnt_d, loan_amnt, loan_status, max_bal_bc,
##     mo_sin_old_il_acct, mo_sin_old_rev_tl_op, mo_sin_rcnt_rev_tl_op,
##     mo_sin_rcnt_tl, mort_acc, mths_since_last_delinq,
##     mths_since_rcnt_il, mths_since_recent_bc, mths_since_recent_inq,
##     next_pymnt_d, num_accts_ever_120_pd, num_actv_bc_tl,
##     num_actv_rev_tl, num_bc_sats, num_bc_tl, num_il_tl, num_op_rev_tl,
##     num_rev_accts, num_rev_tl_bal_gt_0, num_sats, num_tl_120dpd_2m,
##     num_tl_30dpd, num_tl_90g_dpd_24m, num_tl_op_past_12m, open_acc,
##     open_acc_6m, open_act_il, open_il_12m, open_il_24m, open_rv_12m,
##     open_rv_24m, out_prncp, out_prncp_inv, payment_plan_start_date,
##     pct_tl_nvr_dlq, percent_bc_gt_75, policy_code, pub_rec,
##     pub_rec_bankruptcies, purpose, pymnt_plan, recoveries, region,
##     revol_bal, revol_util, sec_app_earliest_cr_line, settlement_date,
##     settlement_status, sub_grade, tax_liens, term, title, tot_coll_amt,
##     tot_cur_bal, tot_hi_cred_lim, total_acc, total_bal_ex_mort,
##     total_bal_il, total_bc_limit, total_cu_tl,
##     total_il_high_credit_limit, total_pymnt, total_pymnt_inv,
##     total_rec_int, total_rec_late_fee, total_rec_prncp,
##     total_rev_hi_lim, verification_status, verification_status_joint,
##     X, zip_code
```

```
## The following objects are masked from loan (pos = 4):
##
##     acc_now_delinq, acc_open_past_24mths, addr_state, all_util,
##     annual_inc, application_type, avg_cur_bal, bc_open_to_buy, bc_util,
##     chargeoff_within_12_mths, collection_recovery_fee,
##     collections_12_mths_ex_med, debt_settlement_flag,
##     debt_settlement_flag_date, delinq_2yrs, delinq_amnt, desc,
##     disbursement_method, dti, earliest_cr_line, emp_length, emp_title,
##     funded_amnt, funded_amnt_inv, grade, hardship_end_date,
##     hardship_flag, hardship_loan_status, hardship_reason,
##     hardship_start_date, hardship_status, hardship_type,
##     home_ownership, il_util, initial_list_status, inq_fi, inq_last_12m,
##     inq_last_6mths, installment, int_rate, issue_d, last_credit_pull_d,
##     last_pymnt_amnt, last_pymnt_d, loan_amnt, loan_status, max_bal_bc,
##     mo_sin_old_il_acct, mo_sin_old_rev_tl_op, mo_sin_rcnt_rev_tl_op,
##     mo_sin_rcnt_tl, mort_acc, mths_since_last_delinq,
##     mths_since_rcnt_il, mths_since_recent_bc, mths_since_recent_inq,
##     next_pymnt_d, num_accts_ever_120_pd, num_actv_bc_tl,
##     num_actv_rev_tl, num_bc_sats, num_bc_tl, num_il_tl, num_op_rev_tl,
##     num_rev_accts, num_rev_tl_bal_gt_0, num_sats, num_tl_120dpd_2m,
##     num_tl_30dpd, num_tl_90g_dpd_24m, num_tl_op_past_12m, open_acc,
##     open_acc_6m, open_act_il, open_il_12m, open_il_24m, open_rv_12m,
##     open_rv_24m, out_prncp, out_prncp_inv, payment_plan_start_date,
##     pct_tl_nvr_dlq, percent_bc_gt_75, policy_code, pub_rec,
##     pub_rec_bankruptcies, purpose, pymnt_plan, recoveries, revol_bal,
##     revol_util, sec_app_earliest_cr_line, settlement_date,
##     settlement_status, sub_grade, tax_liens, term, title, tot_coll_amt,
##     tot_cur_bal, tot_hi_cred_lim, total_acc, total_bal_ex_mort,
##     total_bal_il, total_bc_limit, total_cu_tl,
##     total_il_high_credit_limit, total_pymnt, total_pymnt_inv,
##     total_rec_int, total_rec_late_fee, total_rec_prncp,
##     total_rev_hi_lim, verification_status, verification_status_joint,
##     X, zip_code
```

```
#View(loan)
#loan_status and home_ownership
tbl <- table(loan_status, home_ownership)
tbl
```

```
##            home_ownership
## loan_status     0     1
##           0 13662 17553
##           1 33967 65536
```

```
chisq.test(tbl)
```

```
##
##      Pearson's Chi-squared test with Yates' continuity correction
##
## data:  tbl
## X-squared = 951.15, df = 1, p-value < 2.2e-16
```

```
#the p-value is <2.2e-16 i.e the two variables contribute in predicting the loan defaultor


#term and loan_status
tbl <- table(loan_status, term)
tbl
```

```
##            term
## loan_status     0     1
##           0 10308 20907
##           1 18308 81195
```

```
chisq.test(tbl)
```

```
##
##      Pearson's Chi-squared test with Yates' continuity correction
##
## data:  tbl
## X-squared = 2970.6, df = 1, p-value < 2.2e-16
```

```
#the p-value is <0.05 i.e the two variables contribute in predicting the loan defaultor


#View(loan) #130718 observations of 13 variables

#####################################################################

################ Principal Component Analysis ################################
#Performing PCA
library(ggplot2)
library(factoextra)

#View(loan)
#I have removed the variable issue_d from the current consideration as the issue_d has all NA values which will impact
#our calculations in PCA
ABC<- loan[,c("loan_amnt" , "int_rate","issue_d","grade","purpose", "dti",
              "emp_length" , "home_ownership" ,"annual_inc" , "term")]
View(ABC)
#taking a subset of the dataset and only the desired variables

cor(ABC)
```

```
##                   loan_amnt    int_rate      issue_d        grade      purpose
## loan_amnt       1.000000000  0.18182824 -0.007165254 -0.179285804 -0.156003584
## int_rate        0.181828244  1.00000000  0.056567247 -0.961618071  0.026051583
## issue_d        -0.007165254  0.05656725  1.000000000  0.008657845  0.046423193
## grade          -0.179285804 -0.96161807  0.008657845  1.000000000 -0.024164913
## purpose        -0.156003584  0.02605158  0.046423193 -0.024164913  1.000000000
## dti            -0.023428386  0.21601107 -0.067248173 -0.225576053 -0.100760314
## emp_length      0.044541782 -0.00751182  0.009880283  0.008012824  0.005532303
## home_ownership  0.121961884 -0.06675641  0.023826468  0.069375179  0.048543854
## annual_inc      0.275302638 -0.07140994  0.024494141  0.073185681  0.026711033
## term           -0.368270502 -0.42675736 -0.023469236  0.416926398  0.063222698
##                         dti   emp_length home_ownership  annual_inc        term
## loan_amnt      -0.023428386  0.044541782    0.121961884  0.27530264 -0.36827050
## int_rate        0.216011067 -0.007511820   -0.066756409 -0.07140994 -0.42675736
## issue_d        -0.067248173  0.009880283    0.023826468  0.02449414 -0.02346924
## grade          -0.225576053  0.008012824    0.069375179  0.07318568  0.41692640
## purpose        -0.100760314  0.005532303    0.048543854  0.02671103  0.06322270
## dti             1.000000000  0.048241195    0.004595834 -0.21305962 -0.02661717
## emp_length      0.048241195  1.000000000    0.181587513  0.03068314 -0.02937019
## home_ownership  0.004595834  0.181587513    1.000000000  0.10196960 -0.05784198
## annual_inc     -0.213059622  0.030683145    0.101969604  1.00000000 -0.04585242
## term           -0.026617172 -0.029370193   -0.057841985 -0.04585242  1.00000000
```

```
#ABC[,1]

ABC.pca = prcomp(ABC, scale. = TRUE)
summary(ABC.pca)
```

```
## Importance of components:
##                          PC1    PC2    PC3    PC4     PC5     PC6     PC7
## Standard deviation     1.5549 1.2306 1.0812 1.0692 0.98170 0.90461 0.87212
## Proportion of Variance 0.2418 0.1515 0.1169 0.1143 0.09637 0.08183 0.07606
## Cumulative Proportion  0.2418 0.3932 0.5101 0.6244 0.72081 0.80264 0.87870
##                           PC8     PC9    PC10
## Standard deviation     0.80829 0.72356 0.19003
## Proportion of Variance 0.06533 0.05235 0.00361
## Cumulative Proportion  0.94403 0.99639 1.00000
```

```
fviz_eig(ABC.pca) #this will help us better visualize the PCA components
```

```
##############################################################################################


############### Dendogram ##############################################
install.packages("cluster", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
```

```
## Warning in install.packages("cluster", lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"): 'lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"' is not writable
```

```
## Error in install.packages("cluster", lib = "/Library/Frameworks/R.framework/Versions/3.5/Resources/library"): unable to install packages
```

```
library(cluster)
#View(loan)
# take a random sample of size 50 from a dataset of loan
# sample without replacement
mysample <- loan[sample(1:nrow(loan), 50,replace=FALSE),]

# Standardizing the data with scale()
matstd.loan<- scale(mysample[,c(1,4,5,8,9,11,12)])
```

```
## Error in colMeans(x, na.rm = TRUE): 'x' must be numeric
```

```
# Creating a (Euclidean) distance matrix of the standardized data
dist.employ <- dist(matstd.loan, method="euclidean")
# Invoking hclust command (cluster analysis by single linkage method)
clusemploy.nn <- hclust(dist.employ, method = "single")

#Plotting

# Create extra margin room in the dendrogram, on the bottom (loan labels)
par(mar=c(8, 4, 4, 2) + 0.1)
# Object "clusemploy.nn" is converted into a object of class "dendrogram"
# in order to allow better flexibility in the (vertical) dendrogram plotting.
plot(as.dendrogram(clusemploy.nn),ylab="Distance",ylim=c(0,6),
     main="Dendrogram.")
```

```
# We will use agnes function as it allows us to select option for data standardization, the distance measure and clustering algorithm in one single func
(agn.employ <- agnes(mysample, metric="euclidean", stand=TRUE, method = "single"))
```

```
## Call:         agnes(x = mysample, metric = "euclidean", stand = TRUE, method = "single")
## Agglomerative coefficient:  0.7435386
## Order of objects:
##  [1] 10429  38135  48918  18027  31086  67385  46546  42761  72260  89231
## [11] 121189 105407 68313  10500  90183  3345   16764  78038  107612 51416
## [21] 90123  109451 130351 74267  104965 68089  68049  81624  87370  26718
## [31] 59519  41329  61155  71197  9997   88435  6963   38868  114312 62704
## [41] 7627   28811  24909  29722  101635 115038 9507   107908 85224  32542
## Height (summary):
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   10.27   11.72   13.01   15.48   17.06   59.40
##
## Available components:
## [1] "order"     "height"    "ac"        "merge"     "diss"      "call"
## [7] "method"    "order.lab" "data"
```

```
#View(agn.employ)

#  Description of cluster merging
agn.employ$merge
```

```
##       [,1] [,2]
##  [1,]  -11  -37
##  [2,]    1  -44
##  [3,]  -32  -48
##  [4,]  -21  -26
##  [5,]  -33  -41
##  [6,]    2  -50
##  [7,]  -15  -36
##  [8,]  -20  -27
##  [9,]   -5    5
## [10,]  -30    3
## [11,]   10  -47
## [12,]    7    8
## [13,]   12   11
## [14,]   13  -38
## [15,]   14  -49
## [16,]   15  -31
## [17,]   16  -42
## [18,]    6   17
## [19,]   18  -45
## [20,]    9   19
## [21,]  -23  -35
## [22,]   20  -16
## [23,]   22  -18
## [24,]  -17  -29
## [25,]   23   24
## [26,]   25   21
## [27,]   26   -8
## [28,]   27    4
## [29,]   -2   28
## [30,]   29  -34
## [31,]   30   -4
## [32,]   31  -46
## [33,]   32  -39
## [34,]   33  -40
## [35,]   34   -6
## [36,]   -1   35
## [37,]   36   -7
## [38,]   37  -14
## [39,]   38  -43
## [40,]   39  -19
```

```
## [41,]   40  -28
## [42,]   41  -12
## [43,]   42  -13
## [44,]   43  -25
## [45,]   44   -3
## [46,]   45  -22
## [47,]   46   -9
## [48,]   47  -10
## [49,]   48  -24
```

```
#Dendogram
plot(as.dendrogram(agn.employ), xlab= "Distance",xlim=c(8,0),
     horiz = TRUE,main="Dendrogram")
```

```
#Interactive Plots
plot(agn.employ,ask=TRUE)
```

```
## Error in menu(tmenu, title = "\nMake a plot selection (or 0 to exit):\n"): menu() cannot be used non-interactively
```

```
plot(agn.employ, which.plots=2)
```

```
##################################################################################

################## Factor Analysis #########################
#View(ABC)

#calculating the correlation matrix for all the numeric data in our dataset
#so we are using the ABC matrix which has all these values
corrm.emp = cor(ABC)
corrm.emp
```

```
##                   loan_amnt    int_rate      issue_d        grade      purpose
## loan_amnt       1.000000000  0.18182824 -0.007165254 -0.179285804 -0.156003584
## int_rate        0.181828244  1.00000000  0.056567247 -0.961618071  0.026051583
## issue_d        -0.007165254  0.05656725  1.000000000  0.008657845  0.046423193
```

```
## grade          -0.179285804 -0.96161807  0.008657845  1.000000000 -0.024164913
## purpose        -0.156003584  0.02605158  0.046423193 -0.024164913  1.000000000
## dti            -0.023428386  0.21601107 -0.067248173 -0.225576053 -0.100760314
## emp_length      0.044541782 -0.00751182  0.009880283  0.008012824  0.005532303
## home_ownership  0.121961884 -0.06675641  0.023826468  0.069375179  0.048543854
## annual_inc      0.275302638 -0.07140994  0.024494141  0.073185681  0.026711033
## term           -0.368270502 -0.42675736 -0.023469236  0.416926398  0.063222698
##                         dti   emp_length home_ownership  annual_inc        term
## loan_amnt      -0.023428386  0.044541782    0.121961884  0.27530264 -0.36827050
## int_rate        0.216011067 -0.007511820   -0.066756409 -0.07140994 -0.42675736
## issue_d        -0.067248173  0.009880283    0.023826468  0.02449414 -0.02346924
## grade          -0.225576053  0.008012824    0.069375179  0.07318568  0.41692640
## purpose        -0.100760314  0.005532303    0.048543854  0.02671103  0.06322270
## dti             1.000000000  0.048241195    0.004595834 -0.21305962 -0.02661717
## emp_length      0.048241195  1.000000000    0.181587513  0.03068314 -0.02937019
## home_ownership  0.004595834  0.181587513    1.000000000  0.10196960 -0.05784198
## annual_inc     -0.213059622  0.030683145    0.101969604  1.00000000 -0.04585242
## term           -0.026617172 -0.029370193   -0.057841985 -0.04585242  1.00000000
```

```
plot(corrm.emp)
```

```
#calculating the PCA and plotting these variances
euroemp_pca <- prcomp(ABC, scale=TRUE)
summary(euroemp_pca)
```

```
## Importance of components:
##                          PC1    PC2    PC3    PC4     PC5     PC6     PC7
## Standard deviation     1.5549 1.2306 1.0812 1.0692 0.98170 0.90461 0.87212
## Proportion of Variance 0.2418 0.1515 0.1169 0.1143 0.09637 0.08183 0.07606
## Cumulative Proportion  0.2418 0.3932 0.5101 0.6244 0.72081 0.80264 0.87870
##                           PC8     PC9    PC10
## Standard deviation     0.80829 0.72356 0.19003
## Proportion of Variance 0.06533 0.05235 0.00361
## Cumulative Proportion  0.94403 0.99639 1.00000
```

```
plot(euroemp_pca)
```

```
# A table containing eigenvalues and %'s accounted, follows.
# Eigenvalues are the sdev^2
(eigen_euroemp <- round(euroemp_pca$sdev^2,2))
```

```
##  [1] 2.42 1.51 1.17 1.14 0.96 0.82 0.76 0.65 0.52 0.04
```

```
names(eigen_euroemp) <- paste("PC",1:8,sep="")
eigen_euroemp
```

```
##  PC1  PC2  PC3  PC4  PC5  PC6  PC7  PC8 <NA> <NA>
## 2.42 1.51 1.17 1.14 0.96 0.82 0.76 0.65 0.52 0.04
```

```
sumlambdas <- sum(eigen_euroemp)
sumlambdas
```

```
## [1] 9.99
```

```
propvar <- round(eigen_euroemp/sumlambdas,2)
propvar
```

```
##  PC1  PC2  PC3  PC4  PC5  PC6  PC7  PC8 <NA> <NA>
## 0.24 0.15 0.12 0.11 0.10 0.08 0.08 0.07 0.05 0.00
```

```
cumvar_euroemp <- cumsum(propvar)
cumvar_euroemp
```

```
##  PC1  PC2  PC3  PC4  PC5  PC6  PC7  PC8 <NA> <NA>
## 0.24 0.39 0.51 0.62 0.72 0.80 0.88 0.95 1.00 1.00
```

```
matlambdas <- rbind(eigen_euroemp,propvar,cumvar_euroemp)
matlambdas
```

```
##                 PC1  PC2  PC3  PC4  PC5  PC6  PC7  PC8 <NA> <NA>
## eigen_euroemp  2.42 1.51 1.17 1.14 0.96 0.82 0.76 0.65 0.52 0.04
## propvar        0.24 0.15 0.12 0.11 0.10 0.08 0.08 0.07 0.05 0.00
## cumvar_euroemp 0.24 0.39 0.51 0.62 0.72 0.80 0.88 0.95 1.00 1.00
```

```
rownames(matlambdas) <- c("Eigenvalues","Prop. variance","Cum. prop. variance")
rownames(matlambdas)
```

```
## [1] "Eigenvalues"         "Prop. variance"      "Cum. prop. variance"
```

```
eigvec.emp <- euroemp_pca$rotation
print(euroemp_pca)
```

```
## Standard deviations (1, .., p=10):
##  [1] 1.5549098 1.2306417 1.0812148 1.0691634 0.9817022 0.9046104 0.8721173
##  [8] 0.8082921 0.7235640 0.1900317
##
## Rotation (n x k) = (10 x 10):
##                        PC1         PC2         PC3         PC4         PC5
## loan_amnt       0.25702864 -0.52839912  0.04466227 -0.27787692 -0.02685840
## int_rate        0.59694538  0.13046175 -0.10489518  0.12519831  0.03206838
## issue_d         0.01458951 -0.07830282 -0.27274123  0.37279190 -0.86754856
## grade          -0.59537082 -0.14002791  0.08497617 -0.10181716 -0.09146085
## purpose        -0.04073966  0.06515344 -0.33220988  0.67133106  0.44327873
## dti             0.19628117  0.33812387  0.50894002 -0.05714458 -0.07985070
## emp_length      0.01401340 -0.19645074  0.54769101  0.39096880 -0.03400103
## home_ownership -0.01849789 -0.36595906  0.42518710  0.37937155  0.04990140
## annual_inc     -0.02815574 -0.56800214 -0.23273855 -0.04371938  0.17215391
## term           -0.42590600  0.25360770  0.03306748  0.07160740  0.03300453
##                        PC6         PC7         PC8         PC9          PC10
## loan_amnt       0.07766553  0.04355570  0.42068522  0.62441482 -0.0001624354
## int_rate       -0.05463005  0.06837689 -0.27555233  0.11713400  0.7082518265
## issue_d         0.05834025  0.12995266  0.07041575  0.01204917 -0.0475278243
## grade           0.05852908 -0.06899185  0.28415252 -0.12247099  0.7043051003
## purpose         0.10275780  0.07618734  0.46158559  0.08441090  0.0005861814
## dti             0.27226638  0.57411945  0.37432713 -0.18603817  0.0033527598
## emp_length     -0.70990936 -0.02701369  0.04590531  0.02059697  0.0002222174
## home_ownership  0.61919341 -0.16745047 -0.35625974  0.01317665 -0.0002065582
## annual_inc     -0.10346254  0.64041799 -0.20925674 -0.35529608  0.0013608949
## term           -0.03728228  0.44436210 -0.36796072  0.64239620  0.0078247553
```

```
#Taking the first four PCs to generate linear combinations for all the variables with four factors
pcafactors.emp <- eigvec.emp[,1:4]
pcafactors.emp
```

```
##                        PC1         PC2         PC3         PC4
## loan_amnt       0.25702864 -0.52839912  0.04466227 -0.27787692
## int_rate        0.59694538  0.13046175 -0.10489518  0.12519831
## issue_d         0.01458951 -0.07830282 -0.27274123  0.37279190
## grade          -0.59537082 -0.14002791  0.08497617 -0.10181716
```

```
## purpose        -0.04073966  0.06515344 -0.33220988  0.67133106
## dti             0.19628117  0.33812387  0.50894002 -0.05714458
## emp_length      0.01401340 -0.19645074  0.54769101  0.39096880
## home_ownership -0.01849789 -0.36595906  0.42518710  0.37937155
## annual_inc     -0.02815574 -0.56800214 -0.23273855 -0.04371938
## term           -0.42590600  0.25360770  0.03306748  0.07160740
```

```
# Multiplying each column of the eigenvector's matrix by the square-root of the corresponding eigenvalue in order to get the factor loadings
unrot.fact.emp <- sweep(pcafactors.emp,MARGIN=2,euroemp_pca$sdev[1:4],`*`)
unrot.fact.emp
```

```
##                        PC1         PC2         PC3         PC4
## loan_amnt       0.39965634 -0.65026998  0.04828951 -0.29709583
## int_rate        0.92819620  0.16055167 -0.11341422  0.13385746
## issue_d         0.02268537 -0.09636271 -0.29489186  0.39857546
## grade          -0.92574791 -0.17232418  0.09187749 -0.10885918
## purpose        -0.06334649  0.08018054 -0.35919025  0.71776260
## dti             0.30519952  0.41610933  0.55027349 -0.06109689
## emp_length      0.02178957 -0.24176047  0.59217164  0.41800953
## home_ownership -0.02876255 -0.45036447  0.45971859  0.40561017
## annual_inc     -0.04377964 -0.69900710 -0.25164037 -0.04674316
## term           -0.66224540  0.31210020  0.03575305  0.07656001
```

```
# Computing communalities
communalities.emp <- rowSums(unrot.fact.emp^2)
communalities.emp
```

```
##      loan_amnt       int_rate        issue_d          grade        purpose
##      0.6731740      0.9181056      0.2556240      0.9069966      0.6546425
##            dti     emp_length home_ownership     annual_inc           term
##      0.5728275      0.5843221      0.5795162      0.5560354      0.5431152
```

```
# Performing the varimax rotation. The default in the varimax function is norm=TRUE thus, Kaiser normalization is carried out
rot.fact.emp <- varimax(unrot.fact.emp)
#View(unrot.fact.emp)
rot.fact.emp
```

```
## $loadings
##
## Loadings:
##                PC1    PC2    PC3    PC4
## loan_amnt       0.358 -0.648  0.158 -0.316
## int_rate        0.944  0.115         0.103
## issue_d               -0.106         0.490
## grade          -0.939 -0.128
## purpose                0.103         0.800
## dti             0.283  0.552  0.218 -0.374
## emp_length                    0.761
## home_ownership        -0.162  0.739
## annual_inc            -0.734
## term           -0.648  0.328         0.102
##
##                  PC1   PC2   PC3   PC4
## SS loadings    2.409 1.455 1.221 1.159
## Proportion Var 0.241 0.146 0.122 0.116
## Cumulative Var 0.241 0.386 0.508 0.624
##
## $rotmat
##             [,1]        [,2]        [,3]        [,4]
## [1,]  0.99630955 -0.02149241  0.02294178 -0.07986890
## [2,]  0.03058009  0.91157851 -0.40956878  0.01851758
## [3,] -0.05449528  0.35012338  0.74994663 -0.55859103
## [4,]  0.05884227  0.21442089  0.51894811  0.82538120
```

```
#The print method of varimax omits loadings less than abs(0.1). In order to display all the loadings, it is necessary to ask explicitly the contents of
fact.load.emp <- rot.fact.emp$loadings[1:8,1:4]
fact.load.emp
```

```
##                        PC1         PC2         PC3          PC4
## loan_amnt       0.358182774 -0.64815798  0.15753634 -0.316152936
## int_rate        0.943737435  0.11539914 -0.06005202  0.102674612
## issue_d         0.059178166 -0.10611537  0.02567443  0.490104377
## grade          -0.939013577 -0.12836369  0.06175125 -0.070424821
## purpose         0.001148168  0.10259472  0.06881530  0.799612370
## dti             0.283215465  0.55232001  0.21754607 -0.374476672
## emp_length      0.006642172  0.07611115  0.76053981  0.008018317
## home_ownership -0.043614059 -0.16199487  0.73905040  0.071945906
```

```
#Computing the rotated factor scores for the 30 European Countries. Notice that signs are reversed for factors F2 (PC2), F3 (PC3) and F4 (PC4)
scale.emp <- scale(ABC)
scale.emp
```

```
##               loan_amnt     int_rate    issue_d      grade    purpose
##      [1,] -1.1077206317 -0.451976430  2.7038248  0.6676507 -0.5481372
##      [2,] -1.3341884778 -0.002096824  2.7038248 -0.1327341  1.8243470
##      [3,] -1.1643375932  0.879667203  2.7038248 -0.9331190  1.8243470
##      [4,] -1.5040393623  1.965376650  2.7038248 -1.7335038 -0.5481372
##      [5,] -1.0511036702 -1.201775772  2.7038248  1.4680355 -0.5481372
##      [6,] -0.4849340552 -0.118065789  2.7038248  0.6676507  1.8243470
```

```
##      [7,]  1.6721721781 -0.647923991  2.7038248  0.6676507  1.8243470
##      [8,] -1.5040393623 -0.002096824  2.7038248 -0.1327341  1.8243470
##      [9,] -0.4849340552 -0.354002649  2.7038248  0.6676507 -0.5481372
##     [10,] -0.4849340552 -1.075809482  2.7038248  1.4680355 -0.5481372
##     [11,] -0.5415510167 -1.075809482  2.7038248  1.4680355 -0.5481372
##     [12,] -0.4849340552  0.179854483  2.7038248 -0.1327341 -0.5481372
##     [13,] -0.4849340552 -1.075809482  2.7038248  1.4680355  1.8243470
##     [14,] -1.0511036702 -0.647923991  2.7038248  0.6676507 -0.5481372
##     [15,] -1.2775715163  1.269562861  2.7038248 -0.9331190 -0.5481372
##     [16,] -1.5040393623  2.739169572  2.7038248 -1.7335038  1.8243470
##     [17,] -0.3717001322 -0.569944859  2.7038248  0.6676507 -0.5481372
##     [18,] -0.3717001322 -0.118065789  2.7038248  0.6676507 -0.5481372
##     [19,] -0.8812527857 -0.951842658  2.7038248  1.4680355 -0.5481372
##     [20,] -0.0546451478  2.547220940  2.7038248 -1.7335038 -0.5481372
##     [21,]  0.0755738637  1.965376650  2.7038248 -1.7335038 -0.5481372
##     [22,] -0.7114019012 -0.118065789  2.7038248  0.6676507 -0.5481372
##     [23,] -1.0511036702  0.879667203  2.7038248 -0.9331190 -0.5481372
##     [24,]  2.9120836350 -0.951842658  2.7038248  1.4680355  1.8243470
##     [25,] -0.9378697472  0.289825053  2.7038248 -0.1327341  1.8243470
##     [26,]  2.9120836350  0.513765124  2.7038248 -0.1327341  1.8243470
##     [27,] -0.7114019012 -1.421716912  2.7038248  1.4680355 -0.5481372
##     [28,] -1.1643375932 -0.569944859  2.7038248  0.6676507 -0.5481372
##     [29,] -0.9831633164 -0.118065789  2.7038248  0.6676507 -0.5481372
##     [30,] -1.1416908086  0.179854483  2.7038248 -0.1327341 -0.5481372
##     [31,] -0.4849340552  0.179854483  2.7038248 -0.1327341  1.8243470
##     [32,] -1.4474224008 -1.201775772  2.7038248  1.4680355  1.8243470
##     [33,]  2.9120836350 -1.201775772  2.7038248  1.4680355 -0.5481372
##     [34,] -0.0857844766  0.289825053  2.7038248 -0.1327341 -0.5481372
##     [35,] -0.4849340552 -0.569944859  2.7038248  0.6676507  1.8243470
##     [36,] -1.1983077701 -0.118065789  2.7038248  0.6676507 -0.5481372
##     [37,] -1.1077206317  0.289825053  2.7038248 -0.1327341 -0.5481372
##     [38,] -1.5040393623 -0.002096824  2.7038248 -0.1327341 -0.5481372
##     [39,] -0.2584662092  2.353272844  2.7038248 -1.7335038 -0.5481372
##     [40,] -1.5040393623 -1.309746877  2.7038248  1.4680355 -0.5481372
##     [41,] -1.0511036702 -0.002096824  2.7038248 -0.1327341 -0.5481372
##     [42,] -1.0511036702  0.513765124  2.7038248 -0.1327341  1.8243470
##     [43,] -0.9378697472  1.269562861  2.7038248 -0.9331190 -0.5481372
##     [44,] -0.7114019012 -1.201775772  2.7038248  1.4680355 -0.5481372
##     [45,] -1.5040393623  2.353272844  2.7038248 -1.7335038  1.8243470
##     [46,]  0.6474051749  0.879667203  2.7038248 -0.9331190 -0.5481372
##     [47,]  0.6474051749 -0.451976430  2.7038248  0.6676507 -0.5481372
##     [48,]  2.3459140200 -0.118065789  2.7038248  0.6676507  1.8243470
##     [49,]  2.0628292125 -0.354002649  2.7038248  0.6676507  1.8243470
##     [50,]  1.5532765589 -0.118065789  2.7038248  0.6676507 -0.5481372
##     [51,]  1.7797444050  1.073615299  2.7038248 -0.9331190  1.8243470
##     [52,] -0.2584662092 -1.201775772  2.7038248  1.4680355 -0.5481372
##     [53,] -0.0319983632  1.463510957  2.7038248 -0.9331190 -0.5481372
##     [54,] -0.4849340552 -0.118065789  2.7038248  0.6676507  1.8243470
##     [55,]  0.0812355598  1.073615299  2.7038248 -0.9331190 -0.5481372
##     [56,]  0.0812355598  0.667723922  2.7038248 -0.1327341  1.8243470
##     [57,] -1.0511036702  1.073615299  2.7038248 -0.9331190 -0.5481372
##     [58,] -1.2096311624 -0.451976430  2.7038248  0.6676507  1.8243470
##     [59,] -0.7114019012  1.965376650  2.7038248 -1.7335038 -0.5481372
##     [60,]  2.9120836350  0.513765124  2.7038248 -0.1327341 -0.5481372
##     [61,] -1.2096311624  1.073615299  2.7038248 -0.9331190 -0.5481372
##     [62,] -0.9378697472 -0.647923991  2.7038248  0.6676507  1.8243470
##     [63,] -0.7680188627 -0.569944859  2.7038248  0.6676507  1.8243470
##     [64,]  0.1944694829 -1.075809482  2.7038248  1.4680355 -0.5481372
##     [65,]  0.0812355598  1.463510957  2.7038248 -0.9331190 -0.5481372
##     [66,] -1.0511036702  1.269562861  2.7038248 -0.9331190 -0.5481372
##     [67,] -0.5415510167  0.667723922  2.7038248 -0.1327341 -0.5481372
##     [68,] -0.9859941645 -0.354002649  2.7038248  0.6676507 -0.5481372
##     [69,] -1.5040393623  0.513765124  2.7038248 -0.1327341  1.8243470
##     [70,] -1.1643375932  2.159324747  2.7038248 -1.7335038  1.8243470
##     [71,] -0.4849340552 -0.354002649  2.7038248  0.6676507  1.8243470
##     [72,] -0.6547849397 -0.569944859  2.7038248  0.6676507 -0.5481372
##     [73,]  1.1003408669 -0.354002649  2.7038248  0.6676507  1.8243470
##     [74,] -0.4849340552 -0.354002649  2.7038248  0.6676507 -0.5481372
##     [75,] -1.3002183009 -0.951842658  2.7038248  1.4680355  1.8243470
##     [76,] -0.2018492477  2.739169572  2.7038248 -1.7335038  1.8243470
##     [77,] -0.4849340552  1.269562861  2.7038248 -0.9331190  1.8243470
##     [78,] -0.4849340552  0.289825053  2.7038248 -0.1327341 -0.5481372
##     [79,]  0.0812355598  1.073615299  2.7038248 -0.9331190 -0.5481372
##     [80,]  1.2135747899  0.667723922  2.7038248 -0.1327341 -0.5481372
##     [81,] -0.4849340552 -1.309746877  2.7038248  1.4680355  1.8243470
##     [82,] -0.8246358242 -0.647923991  2.7038248  0.6676507  1.8243470
##     [83,] -0.7114019012  0.179854483  2.7038248 -0.1327341 -0.5481372
##     [84,]  1.7797444050  2.739169572  2.7038248 -1.7335038 -0.5481372
##     [85,] -1.0511036702 -0.569944859  2.7038248  0.6676507  1.8243470
##     [86,]  1.9382718972  0.289825053  2.7038248 -0.1327341 -0.5481372
##     [87,] -1.3341884778 -0.451976430  2.7038248  0.6676507 -0.5481372
##     [88,]  0.4209373289 -0.569944859  2.7038248  0.6676507 -0.5481372
##     [89,]  2.3459140200  0.513765124  2.7038248 -0.1327341 -0.5481372
##     [90,] -0.8812527857  1.073615299  2.7038248 -0.9331190 -0.5481372
##     [91,]  0.5398329480 -0.118065789  2.7038248  0.6676507 -0.5481372
##     [92,]  2.3459140200  0.879667203  2.7038248 -0.9331190 -0.5481372
##     [93,]  0.4209373289 -1.201775772  2.7038248  1.4680355 -0.5481372
##     [94,] -1.5040393623  3.452978546  2.7038248 -3.3342734  1.8243470
##     [95,] -1.4955468180 -0.354002649  2.7038248  0.6676507  1.8243470
##     [96,]  1.2135747899  1.965376650  2.7038248 -1.7335038 -0.5481372
##     [97,] -1.0511036702 -0.354002649  2.7038248  0.6676507  1.8243470
##     [98,]  1.5136446859  1.269562861  2.7038248 -0.9331190 -0.5481372
##     [99,] -0.4849340552 -0.951842658  2.7038248  1.4680355 -0.5481372
##    [100,]  0.6474051749 -0.002096824  2.7038248 -0.1327341 -0.5481372
##    [101,] -1.2775715163 -0.951842658  2.7038248  1.4680355  1.8243470
##    [102,]  1.5532765589  0.513765124  2.7038248 -0.1327341 -0.5481372
##    [103,]  0.6474051749 -0.118065789  2.7038248  0.6676507  1.8243470
##    [104,] -0.7680188627 -1.201775772  2.7038248  1.4680355  1.8243470
```

```
##    [105,] -1.2945566047 -0.451976430  2.7038248  0.6676507  1.8243470
##    [106,]  1.1003408669  0.879667203  2.7038248 -0.9331190  1.8243470
##    [107,]  0.5341712519 -0.002096824  2.7038248 -0.1327341 -0.5481372
##    [108,] -0.9237155069 -1.075809482  2.7038248  1.4680355 -0.5481372
##    [109,]  0.6474051749  2.739169572  2.7038248 -1.7335038 -0.5481372
##    [110,]  0.7606390979 -1.421716912  2.7038248  1.4680355 -0.5481372
##    [111,]  0.2510864444  0.667723922  2.7038248 -0.1327341 -0.5481372
##    [112,] -1.1643375932  1.269562861  2.7038248 -0.9331190 -0.5481372
##    [113,] -0.7114019012 -0.951842658  2.7038248  1.4680355 -0.5481372
##    [114,]  1.7797444050 -0.451976430  2.7038248  0.6676507 -0.5481372
##    [115,] -0.8019890396 -0.002096824  2.7038248 -0.1327341 -0.5481372
##    [116,] -1.0737504548 -0.451976430  2.7038248  0.6676507 -0.5481372
##    [117,]  0.4209373289 -0.118065789  2.7038248  0.6676507 -0.5481372
##    [118,] -0.2584662092 -0.354002649  2.7038248  0.6676507  1.8243470
##    [119,] -1.0511036702  0.179854483  2.7038248 -0.1327341  1.8243470
##    [120,] -0.5415510167 -0.354002649  2.7038248  0.6676507 -0.5481372
##    [121,] -1.4587457931 -0.951842658  2.7038248  1.4680355  1.8243470
##    [122,] -1.1077206317 -1.309746877  2.7038248  1.4680355 -0.5481372
##    [123,] -0.4849340552  0.513765124  2.7038248 -0.1327341 -0.5481372
##    [124,] -0.8699293934  1.965376650  2.7038248 -1.7335038  1.8243470
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##   [1122,] -0.9831633164 -1.021823930  2.7038248  1.4680355  1.8243470
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##   [1143,]  1.7797444050 -0.697910614  2.7038248  0.6676507 -0.5481372
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##   [1214,] -1.1643375932 -0.697910614  2.7038248  0.6676507 -0.5481372
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##   [1307,]  1.6665104820  1.073615299  2.7038248 -0.9331190 -0.5481372
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##   [1507,]  0.1944694829 -0.168052412  2.7038248  0.6676507 -0.5481372
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##   [1509,] -1.3908054393  0.879667203  2.7038248 -0.9331190  1.8243470
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##   [1525,] -1.3908054393  1.073615299  2.7038248 -0.9331190 -0.5481372
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##   [1563,]  0.1944694829 -0.168052412  2.7038248  0.6676507 -0.5481372
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##   [1610,]  0.6474051749 -0.168052412  2.7038248  0.6676507 -0.5481372
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##   [1696,] -0.7114019012  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [1697,]  0.1944694829  1.463510957  2.7038248 -0.9331190 -0.5481372
##   [1698,] -1.0511036702  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [1699,] -1.2209545547 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [1700,]  1.2135747899  2.739169572  2.7038248 -1.7335038 -0.5481372
##   [1701,]  0.6474051749 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [1702,] -1.5040393623 -0.619931482  2.7038248  0.6676507  1.8243470
##   [1703,]  1.2135747899 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [1704,] -0.4849340552 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [1705,]  0.6926987441  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [1706,] -0.9350388992  1.463510957  2.7038248 -0.9331190  1.8243470
##   [1707,]  0.6474051749 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [1708,] -1.0511036702 -1.271757044  2.7038248  1.4680355 -0.5481372
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##   [1721,] -0.2584662092  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [1722,] -0.0319983632 -1.271757044  2.7038248  1.4680355 -0.5481372
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##   [1725,] -1.0511036702 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [1726,] -0.4849340552  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [1727,]  0.9871069439  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [1728,] -0.4849340552  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [1729,] -0.8246358242  0.879667203  2.7038248 -0.9331190  1.8243470
##   [1730,]  1.4400426359 -1.271757044  2.7038248  1.4680355 -0.5481372
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##   [1734,] -1.5040393623  2.739169572  2.7038248 -1.7335038  1.8243470
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##   [1737,] -0.8812527857  2.353272844  2.7038248 -1.7335038  1.8243470
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##   [1746,]  1.7797444050  2.159324747  2.7038248 -1.7335038 -0.5481372
##   [1747,] -0.3717001322 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [1748,] -0.9378697472 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [1749,]  2.3459140200  0.179854483  2.7038248 -0.1327341  1.8243470
##   [1750,] -0.4849340552 -1.021823930  2.7038248  1.4680355  1.8243470
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##   [1756,]  1.2135747899 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [1757,]  1.0607089939 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [1758,]  1.1569578284 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [1766,] -0.2584662092 -1.379728149  2.7038248  1.4680355  1.8243470
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##   [1768,] -1.2775715163  1.463510957  2.7038248 -0.9331190  1.8243470
##   [1769,] -0.4849340552  2.159324747  2.7038248 -1.7335038 -0.5481372
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##   [1784,] -1.4813925777 -1.145790754  2.7038248  1.4680355  1.8243470
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##   [1792,] -1.1615067452  2.353272844  2.7038248 -1.7335038 -0.5481372
##   [1793,] -0.7680188627  0.289825053  2.7038248 -0.1327341  1.8243470
##   [1794,] -1.0511036702 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [1795,] -1.1643375932  0.179854483  2.7038248 -0.1327341  1.8243470
##   [1796,]  1.7797444050 -0.403989272  2.7038248  0.6676507  1.8243470
##   [1797,]  0.0812355598 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [1798,] -0.2584662092  1.965376650  2.7038248 -1.7335038  1.8243470
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##   [1801,] -0.4849340552  1.269562861  2.7038248 -0.9331190  1.8243470
##   [1802,]  0.1944694829 -0.002096824  2.7038248 -0.1327341 -0.5481372
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##   [1819,] -1.0511036702 -0.002096824  2.7038248 -0.1327341 -0.5481372
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##   [1823,]  0.6474051749 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [1824,] -0.4849340552 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [1825,] -0.7114019012 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [1826,] -0.2584662092 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [1827,]  2.3459140200  0.879667203  2.7038248 -0.9331190 -0.5481372
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##   [1873,]  0.0812355598  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [1874,]  0.1944694829  0.513765124  2.7038248 -0.1327341 -0.5481372
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##   [1880,]  1.1003408669  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [1881,] -0.4849340552  0.179854483  2.7038248 -0.1327341  1.8243470
##   [1882,] -1.0624270625  1.965376650  2.7038248 -1.7335038 -0.5481372
##   [1883,] -0.2584662092  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [1884,] -0.5302276244 -1.145790754  2.7038248  1.4680355  1.8243470
##   [1885,] -0.3717001322 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [1886,]  1.7797444050  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [1887,]  0.0812355598 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [1888,] -0.8246358242 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [1889,] -1.1643375932 -0.168052412  2.7038248  0.6676507 -0.5481372
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##   [1891,] -0.9378697472  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [1892,] -0.8019890396  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [1893,] -1.1247057202  1.965376650  2.7038248 -1.7335038 -0.5481372
##   [1894,] -0.6661083320 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [1895,]  1.7797444050 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [1896,] -0.2584662092 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [1897,] -0.9378697472 -1.271757044  2.7038248  1.4680355 -0.5481372
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##   [1900,] -1.0511036702 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [1901,] -0.7114019012 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [1902,]  0.8172560594 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [1903,]  0.2510864444 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [1904,] -0.2584662092  0.879667203  2.7038248 -0.9331190  1.8243470
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##   [1907,] -1.1643375932  0.667723922  2.7038248 -0.1327341  1.8243470
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##   [1909,] -0.8812527857  1.073615299  2.7038248 -0.9331190  1.8243470
##   [1910,]  0.6474051749  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [1911,]  2.9120836350 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [1912,]  0.1944694829  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [1913,] -0.2584662092  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [1914,] -0.4849340552  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [1915,] -0.4849340552  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [1916,]  0.0812355598 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [1917,] -1.3341884778  1.463510957  2.7038248 -0.9331190  1.8243470
##   [1918,]  0.6474051749  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [1919,] -0.6547849397  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [1920,] -0.9944867087 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [1921,]  0.0812355598  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [1922,]  0.0812355598  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [1923,]  0.4209373289 -1.491698184  2.7038248  1.4680355  1.8243470
##   [1924,]  1.3437938014  1.073615299  2.7038248 -0.9331190  1.8243470
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##   [1928,]  0.5341712519  2.353272844  2.7038248 -1.7335038 -0.5481372
##   [1929,] -0.1452322862  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [1930,] -0.4849340552 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [1931,] -0.7114019012 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [1932,] -1.5040393623  1.965376650  2.7038248 -1.7335038  1.8243470
##   [1933,] -0.4849340552  0.513765124  2.7038248 -0.1327341  1.8243470
##   [1934,] -1.3794820470 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [1935,] -1.2096311624 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [1936,] -0.4849340552  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [1937,] -0.1678790708 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [1938,]  0.0812355598 -0.168052412  2.7038248  0.6676507  1.8243470
##   [1939,] -0.0319983632 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [1940,]  0.6474051749  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [1941,]  1.4400426359  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [1942,] -1.5040393623  1.073615299  2.7038248 -0.9331190  1.8243470
##   [1943,]  0.3643203674  1.463510957  2.7038248 -0.9331190 -0.5481372
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##   [1948,] -0.2584662092  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [1949,]  0.0812355598 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [1950,] -0.5981679782  1.463510957  2.7038248 -0.9331190  1.8243470
##   [1951,] -1.3936362873  1.755432835  2.7038248 -0.9331190  1.8243470
##   [1952,] -0.4849340552 -1.491698184  2.7038248  1.4680355  1.8243470
##   [1953,] -0.9944867087 -1.021823930  2.7038248  1.4680355  1.8243470
##   [1954,] -0.9944867087  1.965376650  2.7038248 -1.7335038 -0.5481372
##   [1955,] -0.2584662092 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [1956,] -1.1643375932  0.513765124  2.7038248 -0.1327341 -0.5481372
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##   [1959,] -0.4849340552  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [1960,] -1.0511036702  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [1961,]  0.5907882134  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [1962,]  0.6474051749  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [1963,] -0.2584662092 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [1964,] -0.4849340552  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [1965,]  2.3459140200  1.269562861  2.7038248 -0.9331190 -0.5481372
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##   [1969,]  0.6474051749  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [1970,] -0.8925761780 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [1971,] -0.3717001322 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [1972,]  0.0812355598  1.073615299  2.7038248 -0.9331190  1.8243470
##   [1973,] -0.4849340552  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [1974,] -0.4849340552 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [1975,] -1.0511036702  1.073615299  2.7038248 -0.9331190  1.8243470
##   [1976,]  0.4209373289  0.179854483  2.7038248 -0.1327341  1.8243470
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##   [1983,]  1.2701917514  2.353272844  2.7038248 -1.7335038  1.8243470
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##   [1992,] -1.2209545547 -0.002096824  2.7038248 -0.1327341  1.8243470
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##   [2020,]  2.4591479430 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [2021,]  0.0812355598 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [2022,]  0.0812355598 -1.491698184  2.7038248  1.4680355 -0.5481372
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##   [2026,]  0.0812355598 -1.271757044  2.7038248  1.4680355 -0.5481372
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##   [2033,] -0.4849340552 -0.168052412  2.7038248  0.6676507 -0.5481372
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##   [2040,] -1.2775715163  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2041,]  1.7797444050  1.073615299  2.7038248 -0.9331190  1.8243470
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##   [2043,]  1.8929783280  0.513765124  2.7038248 -0.1327341 -0.5481372
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##   [2045,]  0.6474051749  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [2046,] -0.4849340552  1.463510957  2.7038248 -0.9331190  1.8243470
##   [2047,] -0.8246358242  1.463510957  2.7038248 -0.9331190 -0.5481372
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##   [2062,]  0.6474051749 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [2070,] -1.0511036702  0.289825053  2.7038248 -0.1327341 -0.5481372
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##   [2075,]  2.4591479430 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [2076,] -1.0511036702 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2077,] -0.8246358242  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2078,]  0.1944694829  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [2079,]  1.2135747899  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2080,] -0.4849340552  3.029091984  2.7038248 -2.5338886  1.8243470
##   [2081,] -0.3943469168 -0.168052412  2.7038248  0.6676507  1.8243470
##   [2082,]  2.3459140200  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2083,]  0.1944694829  1.463510957  2.7038248 -0.9331190 -0.5481372
##   [2084,] -0.4849340552 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [2085,]  1.7797444050 -1.021823930  2.7038248  1.4680355  1.8243470
##   [2086,] -1.0058101010 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [2087,] -0.4849340552 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [2088,] -0.4849340552 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2089,] -0.2584662092 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2090,] -0.4849340552 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [2091,] -0.1452322862  1.463510957  2.7038248 -0.9331190  1.8243470
##   [2092,] -0.3717001322  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [2093,] -0.7680188627 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [2094,]  1.2135747899  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2095,]  0.3077034059 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [2096,] -1.2775715163  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [2097,] -1.3908054393  0.513765124  2.7038248 -0.1327341  1.8243470
##   [2098,]  0.6474051749  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [2099,] -0.3717001322  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2100,] -0.2584662092  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2101,] -0.4849340552 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [2102,] -0.8812527857 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2103,] -0.7114019012  2.159324747  2.7038248 -1.7335038 -0.5481372
##   [2104,] -0.3490533476  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [2105,] -1.2209545547 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [2106,]  0.8738730209  0.667723922  2.7038248 -0.1327341  1.8243470
##   [2107,] -1.0511036702  0.179854483  2.7038248 -0.1327341 -0.5481372
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##   [2114,]  1.7797444050 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2115,] -1.3115416932  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [2116,] -0.9378697472 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [2117,] -1.2888949086 -1.379728149  2.7038248  1.4680355  1.8243470
##   [2118,] -0.5981679782 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2119,]  1.7797444050  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2120,] -1.0511036702 -1.021823930  2.7038248  1.4680355  1.8243470
##   [2121,] -0.4849340552 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [2122,] -1.1643375932  1.755432835  2.7038248 -0.9331190  1.8243470
##   [2123,]  2.9120836350  0.179854483  2.7038248 -0.1327341  1.8243470
##   [2124,] -0.7114019012 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [2125,] -1.2747406682 -0.619931482  2.7038248  0.6676507  1.8243470
##   [2126,] -1.2549247316  2.353272844  2.7038248 -1.7335038  1.8243470
##   [2127,] -0.9378697472  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2128,] -0.9378697472 -1.145790754  2.7038248  1.4680355  1.8243470
##   [2129,] -0.2584662092  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2130,] -1.1643375932  0.879667203  2.7038248 -0.9331190  1.8243470
##   [2131,]  0.1944694829  2.739169572  2.7038248 -1.7335038  1.8243470
##   [2132,] -0.9378697472 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2133,]  0.5341712519 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2134,]  0.1944694829 -0.619931482  2.7038248  0.6676507  1.8243470
##   [2135,] -0.2584662092  0.289825053  2.7038248 -0.1327341 -0.5481372
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##   [2138,] -0.7680188627  0.289825053  2.7038248 -0.1327341  1.8243470
##   [2139,] -0.4849340552  2.739169572  2.7038248 -1.7335038 -0.5481372
##   [2140,]  0.0812355598 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [2141,]  0.6474051749  2.547220940  2.7038248 -1.7335038 -0.5481372
##   [2142,] -0.4849340552  1.755432835  2.7038248 -0.9331190  1.8243470
##   [2143,] -1.1869843778 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [2144,] -1.5040393623  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2145,]  0.3077034059  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2146,] -0.3717001322  2.353272844  2.7038248 -1.7335038  1.8243470
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##   [2148,] -1.2775715163  0.289825053  2.7038248 -0.1327341  1.8243470
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##   [2150,]  0.1944694829  0.513765124  2.7038248 -0.1327341  1.8243470
##   [2151,] -0.9944867087 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [2153,] -0.8246358242  1.073615299  2.7038248 -0.9331190  1.8243470
##   [2154,] -0.4849340552 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [2155,] -1.2775715163  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [2156,]  0.0812355598 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [2157,]  0.0812355598  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2158,]  0.1944694829 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2159,] -1.1416908086 -0.002096824  2.7038248 -0.1327341  1.8243470
##   [2160,] -1.1643375932 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2161,]  0.0812355598  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [2162,]  0.6474051749 -1.271757044  2.7038248  1.4680355 -0.5481372
```

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##   [2163,]  0.0812355598 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [2164,]  1.2135747899 -0.403989272  2.7038248  0.6676507  1.8243470
##   [2165,] -1.0737504548  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [2166,] -0.2584662092  3.319014397  2.7038248 -2.5338886  1.8243470
##   [2167,] -0.2584662092  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [2168,] -0.7114019012 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2169,] -0.9378697472 -0.697910614  2.7038248  0.6676507  1.8243470
##   [2170,] -1.0737504548  0.879667203  2.7038248 -0.9331190  1.8243470
##   [2171,] -0.1452322862  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2172,]  0.0132952060 -0.403989272  2.7038248  0.6676507  1.8243470
##   [2173,] -0.7114019012 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [2174,] -0.5981679782 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2175,] -0.2584662092 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [2176,] -0.2584662092 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2177,] -1.0511036702  0.667723922  2.7038248 -0.1327341  1.8243470
##   [2178,] -1.1077206317  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2179,] -0.4849340552  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2180,]  0.6474051749  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2181,] -0.2584662092 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2182,]  0.7804550344  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2183,]  0.6474051749  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [2184,] -0.4849340552  0.179854483  2.7038248 -0.1327341  1.8243470
##   [2185,] -0.2584662092  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [2186,] -0.7114019012 -0.403989272  2.7038248  0.6676507  1.8243470
##   [2187,] -1.1133823279 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [2188,] -1.3455118701  1.755432835  2.7038248 -0.9331190  1.8243470
##   [2189,]  0.6474051749  1.755432835  2.7038248 -0.9331190 -0.5481372
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##   [2191,] -1.1869843778  1.965376650  2.7038248 -1.7335038 -0.5481372
##   [2192,]  2.3459140200 -1.145790754  2.7038248  1.4680355 -0.5481372
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##   [2194,]  1.7797444050  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [2195,] -1.3341884778 -1.021823930  2.7038248  1.4680355  1.8243470
##   [2196,] -1.4134522239  1.755432835  2.7038248 -0.9331190  1.8243470
##   [2197,] -0.4849340552 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [2198,]  0.6474051749  1.755432835  2.7038248 -0.9331190  1.8243470
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##   [2201,] -0.3717001322  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [2202,] -1.1643375932 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [2203,]  0.0812355598 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [2204,] -0.6547849397 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [2205,]  0.0812355598 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2206,] -1.0511036702 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [2207,] -0.5981679782 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2208,] -0.2584662092  0.289825053  2.7038248 -0.1327341 -0.5481372
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##   [2211,]  0.1944694829 -1.491698184  2.7038248  1.4680355  1.8243470
##   [2212,]  0.0812355598  1.463510957  2.7038248 -0.9331190 -0.5481372
##   [2213,]  1.2135747899  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [2214,] -0.4849340552  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [2215,] -1.1643375932  0.513765124  2.7038248 -0.1327341  1.8243470
##   [2216,] -0.4849340552 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2217,]  0.0812355598  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [2218,] -1.2747406682  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [2219,] -1.0511036702 -0.168052412  2.7038248  0.6676507  1.8243470
##   [2220,] -1.0454419741  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2221,] -0.0319983632  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [2222,]  0.4209373289 -0.697910614  2.7038248  0.6676507 -0.5481372
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##   [2225,] -1.5040393623  2.739169572  2.7038248 -1.7335038  1.8243470
##   [2226,] -1.2096311624  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [2227,]  1.5532765589  1.269562861  2.7038248 -0.9331190 -0.5481372
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##   [2235,]  0.4209373289 -0.697910614  2.7038248  0.6676507  1.8243470
##   [2236,] -1.2775715163 -0.501963052  2.7038248  0.6676507  1.8243470
##   [2237,] -0.1452322862 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [2238,] -0.8246358242 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2239,]  1.2022513976  0.667723922  2.7038248 -0.1327341 -0.5481372
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##   [2241,] -1.3908054393  1.269562861  2.7038248 -0.9331190  1.8243470
##   [2242,]  0.6474051749 -1.021823930  2.7038248  1.4680355  1.8243470
##   [2243,]  0.0812355598 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [2244,]  1.5532765589  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2245,] -0.5981679782 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [2246,]  0.8597187805 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [2247,] -1.2775715163 -1.021823930  2.7038248  1.4680355  1.8243470
##   [2248,] -1.0511036702  0.513765124  2.7038248 -0.1327341  1.8243470
##   [2249,] -0.4849340552  0.667723922  2.7038248 -0.1327341  1.8243470
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##   [2251,] -0.2584662092  0.667723922  2.7038248 -0.1327341  1.8243470
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##   [2256,] -0.4283170937 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2257,] -0.4849340552 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2258,]  1.1003408669 -0.168052412  2.7038248  0.6676507 -0.5481372
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##   [2263,] -1.1643375932  2.159324747  2.7038248 -1.7335038 -0.5481372
##   [2264,] -0.7114019012  0.879667203  2.7038248 -0.9331190 -0.5481372
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##   [2269,]  1.1003408669 -0.002096824  2.7038248 -0.1327341 -0.5481372
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##   [2271,] -0.0886153247 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2272,]  0.6474051749  0.667723922  2.7038248 -0.1327341 -0.5481372
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##   [2276,]  1.2135747899 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [2277,] -0.7114019012 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2278,]  2.9120836350 -1.379728149  2.7038248  1.4680355  1.8243470
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##   [2357,] -0.3717001322  0.667723922  2.7038248 -0.1327341 -0.5481372
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##   [2361,] -0.4849340552 -0.619931482  2.7038248  0.6676507 -0.5481372
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##   [2411,] -0.4849340552  0.179854483  2.7038248 -0.1327341 -0.5481372
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##   [2438,] -1.0511036702 -0.697910614  2.7038248  0.6676507  1.8243470
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##   [2442,] -0.4849340552  0.179854483  2.7038248 -0.1327341 -0.5481372
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##   [2848,] -0.4849340552 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [2849,] -0.8246358242 -0.501963052  2.7038248  0.6676507 -0.5481372
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##   [2851,] -0.4396404860 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2852,]  0.2850566213 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [2853,] -1.3908054393  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [2854,] -0.4849340552  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2855,] -1.3794820470  0.289825053  2.7038248 -0.1327341  1.8243470
##   [2856,]  0.7606390979  0.667723922  2.7038248 -0.1327341  1.8243470
##   [2857,] -0.4849340552  0.179854483  2.7038248 -0.1327341  1.8243470
##   [2858,]  0.1944694829  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2859,]  2.9120836350 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [2860,] -0.9378697472  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2861,] -0.7114019012 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2862,]  0.6474051749 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2863,] -0.2584662092 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [2864,] -0.5415510167 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2865,] -0.3490533476 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [2866,] -1.0511036702 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2867,]  0.6474051749 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2868,]  0.4775542904 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [2869,]  2.0062122510  1.269562861  2.7038248 -0.9331190  1.8243470
##   [2870,] -0.9944867087 -1.021823930  2.7038248  1.4680355  1.8243470
##   [2871,] -1.1813226817 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [2872,] -1.2096311624 -0.501963052  2.7038248  0.6676507  1.8243470
##   [2873,] -1.2775715163 -0.697910614  2.7038248  0.6676507  1.8243470
##   [2874,] -0.2584662092 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2875,]  1.2135747899  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [2876,]  1.2135747899  1.965376650  2.7038248 -1.7335038  1.8243470
##   [2877,]  2.0062122510 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [2878,] -0.2584662092 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [2879,]  0.5653105807 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [2880,] -1.4587457931  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [2881,]  2.3459140200  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [2882,] -0.8812527857 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [2883,]  2.9120836350 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [2884,] -1.0511036702  0.667723922  2.7038248 -0.1327341 -0.5481372
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##   [2886,]  0.6474051749  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2887,]  0.0812355598  2.159324747  2.7038248 -1.7335038 -0.5481372
##   [2888,]  0.6474051749 -0.403989272  2.7038248  0.6676507  1.8243470
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##   [2890,] -0.3717001322 -1.145790754  2.7038248  1.4680355  1.8243470
##   [2891,] -0.9378697472 -0.619931482  2.7038248  0.6676507 -0.5481372
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##   [2899,] -0.4849340552  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2900,]  0.6474051749 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [2901,] -0.7114019012  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2902,] -0.0319983632  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [2903,] -0.8019890396  0.667723922  2.7038248 -0.1327341  1.8243470
##   [2904,]  1.2815151437  0.879667203  2.7038248 -0.9331190  1.8243470
##   [2905,] -0.2584662092  1.463510957  2.7038248 -0.9331190 -0.5481372
##   [2906,]  0.2454247482  0.289825053  2.7038248 -0.1327341  1.8243470
##   [2907,] -0.2584662092  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [2908,]  0.8738730209 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [2909,] -0.1452322862  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [2910,] -0.9378697472  1.269562861  2.7038248 -0.9331190  1.8243470
##   [2911,] -1.2775715163 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [2912,] -1.3908054393  2.547220940  2.7038248 -1.7335038 -0.5481372
##   [2913,] -1.4813925777 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [2915,]  2.2326800970 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [2916,] -0.5981679782  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2917,]  1.7797444050  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [2918,] -0.4849340552 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [2920,] -0.9378697472  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [2921,] -0.4849340552 -1.271757044  2.7038248  1.4680355  1.8243470
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##   [2924,]  0.3077034059 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [2925,] -1.2209545547  0.179854483  2.7038248 -0.1327341 -0.5481372
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##   [2928,] -1.3341884778  2.159324747  2.7038248 -1.7335038 -0.5481372
##   [2929,] -0.9350388992 -0.002096824  2.7038248 -0.1327341 -0.5481372
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##   [2944,]  1.7797444050  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [2945,]  1.2135747899  0.179854483  2.7038248 -0.1327341 -0.5481372
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##   [2955,] -0.8246358242 -0.002096824  2.7038248 -0.1327341 -0.5481372
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##   [2957,]  0.0812355598 -0.002096824  2.7038248 -0.1327341  1.8243470
##   [2958,]  0.0812355598  3.223040081  2.7038248 -2.5338886 -0.5481372
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##   [2962,] -0.2584662092  0.513765124  2.7038248 -0.1327341 -0.5481372
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##   [2986,]  0.0812355598 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [2987,] -1.0511036702 -1.271757044  2.7038248  1.4680355  1.8243470
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##   [3042,]  2.9120836350 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [3043,]  0.6474051749  3.319014397  2.7038248 -2.5338886 -0.5481372
##   [3044,]  0.6474051749  2.159324747  2.7038248 -1.7335038 -0.5481372
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##   [3047,]  0.8738730209  0.289825053  2.7038248 -0.1327341  1.8243470
##   [3048,] -1.1643375932  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [3049,] -0.8246358242  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [3050,]  0.0812355598  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [3051,]  0.0812355598  2.353272844  2.7038248 -1.7335038 -0.5481372
##   [3052,] -0.4849340552 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [3053,] -1.2775715163  1.073615299  2.7038248 -0.9331190  1.8243470
##   [3054,]  0.6474051749 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [3055,] -0.4849340552 -1.271757044  2.7038248  1.4680355 -0.5481372
##   [3056,]  0.5653105807  0.667723922  2.7038248 -0.1327341 -0.5481372
##   [3057,]  0.6474051749 -1.491698184  2.7038248  1.4680355 -0.5481372
##   [3058,]  1.7797444050 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [3059,]  1.7797444050  2.739169572  2.7038248 -1.7335038 -0.5481372
##   [3060,] -0.6661083320  1.965376650  2.7038248 -1.7335038  1.8243470
##   [3061,] -0.9378697472 -0.619931482  2.7038248  0.6676507  1.8243470
##   [3062,] -1.1643375932  1.073615299  2.7038248 -0.9331190  1.8243470
##   [3063,] -0.7114019012 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [3064,] -0.2584662092  3.319014397  2.7038248 -2.5338886  1.8243470
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##   [3067,]  1.7797444050 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [3068,] -0.8019890396 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [3069,] -0.9378697472  0.289825053  2.7038248 -0.1327341 -0.5481372
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##   [3074,] -1.5040393623  0.879667203  2.7038248 -0.9331190  1.8243470
##   [3075,] -1.0511036702 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [3076,]  0.6926987441 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [3077,]  0.6474051749 -0.403989272  2.7038248  0.6676507  1.8243470
##   [3078,]  0.6474051749 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [3079,] -1.0511036702  0.667723922  2.7038248 -0.1327341  1.8243470
##   [3080,]  0.0812355598  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [3081,] -1.1643375932 -1.491698184  2.7038248  1.4680355 -0.5481372
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##   [3087,] -0.0603068439  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [3088,] -0.0319983632  0.179854483  2.7038248 -0.1327341 -0.5481372
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##   [3093,] -0.9831633164  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [3094,]  0.9361516786  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [3095,] -0.4849340552  1.463510957  2.7038248 -0.9331190  1.8243470
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##   [3098,] -0.2584662092  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [3099,] -0.8246358242  0.289825053  2.7038248 -0.1327341  1.8243470
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##   [3101,]  0.0812355598 -0.697910614  2.7038248  0.6676507  1.8243470
##   [3102,] -1.5040393623  2.639196326  2.7038248 -1.7335038  1.8243470
##   [3103,]  0.1944694829  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [3104,] -0.7114019012  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [3105,] -0.8246358242 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [3106,] -0.4849340552  1.463510957  2.7038248 -0.9331190 -0.5481372
##   [3107,] -0.1452322862  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [3108,] -0.2584662092 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [3109,]  0.9871069439  0.179854483  2.7038248 -0.1327341 -0.5481372
##   [3110,] -0.7453720781 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [3111,] -0.1678790708  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [3112,]  1.7797444050  2.353272844  2.7038248 -1.7335038 -0.5481372
##   [3113,] -0.9378697472  0.383799904  2.7038248 -0.1327341 -0.5481372
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##   [3117,] -0.7340486858 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [3118,]  0.1944694829  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [3119,]  2.9120836350 -1.491698184  2.7038248  1.4680355 -0.5481372
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##   [3124,]  0.6474051749 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [3125,]  1.5532765589  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [3126,] -0.9378697472  0.667723922  2.7038248 -0.1327341  1.8243470
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##   [3132,]  2.9120836350 -0.619931482  2.7038248  0.6676507 -0.5481372
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##   [3135,] -1.1643375932  1.463510957  2.7038248 -0.9331190  1.8243470
##   [3136,]  0.0812355598  1.965376650  2.7038248 -1.7335038 -0.5481372
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##   [3140,]  1.7797444050  2.547220940  2.7038248 -1.7335038 -0.5481372
##   [3141,]  0.3077034059  1.755432835  2.7038248 -0.9331190 -0.5481372
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##   [3145,] -0.9378697472 -0.501963052  2.7038248  0.6676507 -0.5481372
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##   [3147,] -0.4849340552  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [3148,]  0.6474051749  2.739169572  2.7038248 -1.7335038 -0.5481372
##   [3149,]  1.2135747899 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [3150,]  0.4209373289 -0.168052412  2.7038248  0.6676507 -0.5481372
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##   [3162,] -1.0511036702 -0.403989272  2.7038248  0.6676507  1.8243470
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##   [3235,] -1.0511036702 -0.697910614  2.7038248  0.6676507 -0.5481372
##   [3236,] -0.7114019012 -1.379728149  2.7038248  1.4680355  1.8243470
##   [3237,] -0.7680188627  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [3238,] -1.1643375932  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [3239,] -0.8246358242 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [3240,]  1.5561074070  1.073615299  2.7038248 -0.9331190  1.8243470
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##   [3243,] -1.2775715163  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [3244,] -0.4849340552  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [3245,] -1.1643375932 -0.168052412  2.7038248  0.6676507  1.8243470
##   [3246,] -0.7114019012 -1.379728149  2.7038248  1.4680355  1.8243470
##   [3247,]  1.6665104820  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [3248,]  2.0062122510  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [3249,] -1.0511036702 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [3250,]  1.4400426359 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [3251,] -1.1643375932 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [3252,] -0.9378697472  1.965376650  2.7038248 -1.7335038 -0.5481372
##   [3253,]  0.1944694829 -1.021823930  2.7038248  1.4680355 -0.5481372
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##   [3257,] -0.6661083320 -1.145790754  2.7038248  1.4680355 -0.5481372
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##   [3259,] -0.7114019012 -1.021823930  2.7038248  1.4680355 -0.5481372
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##   [3261,]  0.4209373289 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [3262,] -0.4849340552 -0.697910614  2.7038248  0.6676507 -0.5481372
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##   [3264,] -1.3908054393 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3265,]  1.1003408669 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [3266,]  0.6474051749 -1.271757044  2.7038248  1.4680355 -0.5481372
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##   [3272,]  1.7797444050  1.073615299  2.7038248 -0.9331190 -0.5481372
##   [3273,]  0.3756437597  1.965376650  2.7038248 -1.7335038 -0.5481372
##   [3274,]  1.1003408669  1.463510957  2.7038248 -0.9331190  1.8243470
##   [3275,]  0.7606390979 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3276,] -0.9378697472 -0.002096824  2.7038248 -0.1327341  1.8243470
##   [3277,] -0.5302276244  0.289825053  2.7038248 -0.1327341 -0.5481372
##   [3278,]  0.6474051749 -1.271757044  2.7038248  1.4680355 -0.5481372
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##   [3280,] -1.5040393623 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [3281,] -1.3341884778  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [3282,] -0.8812527857 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [3283,] -0.2584662092 -0.501963052  2.7038248  0.6676507 -0.5481372
##   [3284,]  0.1944694829  1.269562861  2.7038248 -0.9331190 -0.5481372
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##   [3287,]  2.3459140200  1.755432835  2.7038248 -0.9331190 -0.5481372
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##   [3289,]  1.7797444050  0.879667203  2.7038248 -0.9331190 -0.5481372
##   [3290,]  0.0812355598 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [3291,] -0.6264764590  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3292,]  1.1003408669  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [3293,] -1.3908054393 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [3295,] -0.0319983632 -0.002096824  2.7038248 -0.1327341 -0.5481372
##   [3296,] -1.3908054393  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [3297,]  0.3077034059 -0.168052412  2.7038248  0.6676507 -0.5481372
##   [3298,]  2.4591479430 -1.145790754  2.7038248  1.4680355 -0.5481372
##   [3299,]  0.8738730209  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [3300,] -1.0511036702  0.513765124  2.7038248 -0.1327341 -0.5481372
##   [3301,] -0.8019890396 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [3302,] -0.4622872706 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [3303,]  2.3459140200  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [3305,] -1.0511036702  1.755432835  2.7038248 -0.9331190  1.8243470
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##   [3327,] -0.5302276244 -1.379728149  2.7038248  1.4680355 -0.5481372
##   [3328,] -0.5981679782  0.179854483  2.7038248 -0.1327341 -0.5481372
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##   [3336,] -0.2584662092 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [3337,]  0.9757835516 -0.501963052  2.7038248  0.6676507 -0.5481372
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```

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##   [3340,]  0.7606390979  1.463510957  2.7038248 -0.9331190 -0.5481372
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##   [3346,]  1.2135747899  1.463510957  2.7038248 -0.9331190 -0.5481372
##   [3347,] -1.3908054393  0.879667203  2.7038248 -0.9331190 -0.5481372
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##   [3428,]  0.6474051749  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [3429,]  0.6474051749 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [3430,]  0.0812355598  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [3431,]  0.0812355598  0.189851808  2.7038248 -0.1327341  1.8243470
##   [3432,] -1.1077206317 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [3433,] -0.4849340552 -0.288020307  2.7038248  0.6676507  1.8243470
##   [3434,]  1.7797444050  1.269562861  2.7038248 -0.9331190 -0.5481372
##   [3435,] -0.7114019012  0.879667203  2.7038248 -0.9331190  1.8243470
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##   [3439,]  1.2135747899  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [3440,] -1.1077206317 -1.021823930  2.7038248  1.4680355 -0.5481372
##   [3441,] -1.0511036702 -0.619931482  2.7038248  0.6676507 -0.5481372
##   [3442,] -0.2584662092 -0.403989272  2.7038248  0.6676507 -0.5481372
##   [3443,]  0.0812355598  1.463510957  2.7038248 -0.9331190 -0.5481372
##   [3444,]  1.2135747899  1.269562861  2.7038248 -0.9331190  1.8243470
##   [3445,] -0.4849340552  1.755432835  2.7038248 -0.9331190 -0.5481372
##   [3446,]  1.7797444050  2.353272844  2.7038248 -1.7335038 -0.5481372
##   [3447,]  2.9120836350 -0.403989272  2.7038248  0.6676507  1.8243470
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##   [3449,]  0.0812355598  0.513765124  2.7038248 -0.1327341  1.8243470
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##   [3453,]  2.3459140200 -0.403989272  2.7038248  0.6676507 -0.5481372
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##   [3467,] -0.5981679782 -0.503962517  2.7038248  0.6676507 -0.5481372
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##   [3473,] -1.3341884778 -0.503962517  2.7038248  0.6676507  1.8243470
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##   [3485,]  1.7797444050  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [3486,]  1.2135747899 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [3487,]  0.0812355598  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [3488,] -1.0511036702  2.639196326  2.7038248 -1.7335038  1.8243470
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##   [3490,] -0.2584662092  2.639196326  2.7038248 -1.7335038  1.8243470
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##   [3496,] -0.8812527857  0.091878027  2.7038248 -0.1327341  1.8243470
##   [3497,] -1.0511036702 -0.102070070  2.7038248 -0.1327341 -0.5481372
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##   [3621,]  0.9871069439 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [3622,] -0.9378697472 -1.651655377  2.7038248  1.4680355  1.8243470
##   [3623,] -0.2584662092  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [3624,] -0.9378697472  0.091878027  2.7038248 -0.1327341  1.8243470
##   [3625,] -0.9378697472 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [3626,]  2.0062122510  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3627,] -0.6547849397  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [3629,]  0.6474051749  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [3630,] -0.4849340552  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [3631,] -0.7963273435  1.655459589  2.7038248 -0.9331190  1.8243470
##   [3632,] -0.0319983632 -0.797883860  2.7038248  0.6676507 -0.5481372
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##   [3635,] -0.8019890396 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [3636,] -0.4849340552 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [3637,]  0.0812355598 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [3638,]  2.3459140200 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [3639,]  2.9120836350 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [3640,]  1.2135747899 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [3641,] -0.4849340552 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [3642,]  0.0812355598  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3643,] -1.0058101010 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [3644,] -1.0511036702  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [3647,]  2.3459140200  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [3704,]  0.4209373289  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [3709,]  0.0812355598  0.189851808  2.7038248 -0.1327341 -0.5481372
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##   [3711,]  2.9120836350 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [3712,] -0.2584662092  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [3713,]  0.4209373289 -0.503962517  2.7038248  0.6676507 -0.5481372
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##   [3717,]  0.6474051749 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [3718,] -0.4849340552 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [3719,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3720,] -1.0511036702  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [3721,]  0.1944694829  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [3722,]  1.3834256744 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [3723,]  0.6474051749  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [3724,]  0.4435841135 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [3725,] -0.9378697472 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [3726,]  0.9871069439  0.189851808  2.7038248 -0.1327341  1.8243470
##   [3727,]  1.7797444050 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3728,] -0.5302276244 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [3729,]  1.2135747899 -0.503962517  2.7038248  0.6676507 -0.5481372
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##   [3737,]  2.9120836350 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [3745,] -0.2584662092  0.383799904  2.7038248 -0.1327341 -0.5481372
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##   [3814,] -0.8019890396  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3815,]  0.0812355598 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [3816,] -0.4849340552  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [3817,]  1.3268087129 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [3818,]  0.0812355598 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [3819,] -0.5981679782  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [3820,] -0.9378697472 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3821,]  1.1003408669  0.091878027  2.7038248 -0.1327341  1.8243470
##   [3822,]  2.9120836350 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [3823,]  0.1944694829 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [3824,] -0.2018492477 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3825,]  1.0437239054 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [3826,] -0.7340486858 -0.288020307  2.7038248  0.6676507  1.8243470
##   [3827,]  1.1003408669 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [3828,] -0.4849340552  0.577748001  2.7038248 -0.1327341 -0.5481372
```

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##   [3829,] -0.2018492477 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [3830,]  1.7797444050  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3831,]  1.1003408669  0.577748001  2.7038248 -0.1327341  1.8243470
##   [3832,] -0.8246358242 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [3833,]  0.6474051749  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [3834,]  0.3077034059 -0.503962517  2.7038248  0.6676507  1.8243470
##   [3835,] -0.4849340552  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3836,]  0.4209373289 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [3837,] -0.2584662092  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [3838,]  2.3459140200  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3839,]  0.1378525213 -0.503962517  2.7038248  0.6676507  1.8243470
##   [3840,]  0.3077034059  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3841,] -1.0511036702 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [3842,]  1.7797444050 -1.097803596  2.7038248  1.4680355  1.8243470
##   [3843,] -1.3341884778  1.169589615  2.7038248 -0.9331190  1.8243470
##   [3844,]  2.3459140200  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [3845,] -0.4849340552 -1.221770421  2.7038248  1.4680355  1.8243470
##   [3846,]  0.6474051749 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [3847,] -0.7114019012  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [3848,] -1.4474224008 -0.797883860  2.7038248  0.6676507  1.8243470
##   [3849,]  0.6474051749 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [3850,] -0.7114019012 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [3851,] -0.9378697472 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [3852,] -1.0511036702  0.091878027  2.7038248 -0.1327341  1.8243470
##   [3853,] -0.0772919324  0.383799904  2.7038248 -0.1327341 -0.5481372
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##   [3856,]  0.1491759136 -0.102070070  2.7038248 -0.1327341  1.8243470
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##   [3858,]  2.0062122510  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3859,]  2.3459140200  1.655459589  2.7038248 -0.9331190  1.8243470
##   [3860,] -1.5040393623  0.779693957  2.7038248 -0.9331190  1.8243470
##   [3861,]  1.2135747899  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3862,]  0.0812355598  0.189851808  2.7038248 -0.1327341  1.8243470
##   [3863,]  2.0062122510  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3864,] -0.9152229626  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [3865,]  1.2135747899  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [3866,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [3867,]  1.7797444050 -1.347736711  2.7038248  1.4680355  1.8243470
##   [3868,] -1.3341884778  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [3869,] -0.4849340552  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [3870,]  1.1003408669 -1.221770421  2.7038248  1.4680355  1.8243470
##   [3871,] -0.4849340552  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3872,] -0.2584662092  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [3873,]  0.0812355598  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3874,] -1.2096311624 -0.601936298  2.7038248  0.6676507  1.8243470
##   [3875,]  0.6417434787  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [3876,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3877,] -1.2775715163  0.975641518  2.7038248 -0.9331190  1.8243470
##   [3878,]  0.3077034059  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [3879,] -1.3908054393  0.091878027  2.7038248 -0.1327341  1.8243470
##   [3880,]  0.1944694829  1.363537712  2.7038248 -0.9331190  1.8243470
##   [3881,] -1.5040393623  0.975641518  2.7038248 -0.9331190  1.8243470
##   [3882,]  0.0812355598  1.363537712  2.7038248 -0.9331190  1.8243470
##   [3883,]  1.5532765589 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3884,] -1.0511036702  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3885,] -0.9350388992 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3886,]  2.0062122510  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [3887,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3888,]  1.2135747899  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [3889,]  0.6474051749  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [3890,] -0.3150831707  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [3891,] -0.9378697472  1.169589615  2.7038248 -0.9331190  1.8243470
##   [3892,]  2.9120836350  0.577748001  2.7038248 -0.1327341  1.8243470
##   [3893,]  0.0812355598 -0.503962517  2.7038248  0.6676507  1.8243470
##   [3894,] -0.4849340552 -0.797883860  2.7038248  0.6676507  1.8243470
##   [3895,]  0.1944694829  0.383799904  2.7038248 -0.1327341  1.8243470
##   [3896,]  1.1003408669  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [3897,] -1.0511036702  0.091878027  2.7038248 -0.1327341  1.8243470
##   [3898,]  0.6474051749 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [3899,]  0.6474051749  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [3900,] -0.5981679782 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [3901,] -0.9378697472  0.577748001  2.7038248 -0.1327341  1.8243470
##   [3902,] -1.0511036702  0.189851808  2.7038248 -0.1327341  1.8243470
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##   [3905,] -0.8925761780 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [3906,]  1.4032416110 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [3907,] -0.7114019012 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [3908,] -1.3341884778 -0.288020307  2.7038248  0.6676507  1.8243470
##   [3909,]  2.3459140200  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [3910,]  0.1944694829  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3911,]  0.9191665901  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [3912,] -1.0737504548  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3913,] -0.2584662092 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [3914,]  2.9120836350 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [3915,]  0.1944694829 -1.347736711  2.7038248  1.4680355  1.8243470
##   [3916,] -0.2584662092  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [3917,] -0.2584662092  0.577748001  2.7038248 -0.1327341  1.8243470
##   [3918,] -1.0511036702  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [3919,] -0.2584662092 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [3920,]  0.0812355598  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [3921,]  1.1003408669  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [3925,] -0.9378697472 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [3926,]  1.2135747899  0.975641518  2.7038248 -0.9331190  1.8243470
```

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##   [3929,]  0.0812355598  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [3930,] -1.4360990085  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [3931,] -1.3908054393  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [3932,] -1.2775715163 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [3933,] -0.4849340552 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [3934,]  0.6474051749 -0.503962517  2.7038248  0.6676507 -0.5481372
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##   [3938,] -0.7114019012 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [3939,] -0.7114019012  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [3940,] -0.3717001322  0.189851808  2.7038248 -0.1327341  1.8243470
##   [3941,] -1.2775715163 -0.288020307  2.7038248  0.6676507  1.8243470
##   [3942,]  0.0812355598  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [3943,] -0.8246358242 -0.601936298  2.7038248  0.6676507 -0.5481372
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##   [3945,] -0.4849340552 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [3946,]  2.9120836350 -0.797883860  2.7038248  0.6676507 -0.5481372
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##   [3962,]  0.6474051749  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [3963,]  0.4209373289 -1.475702465  2.7038248  1.4680355 -0.5481372
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##   [3968,] -1.5040393623  1.865403405  2.7038248 -1.7335038  1.8243470
##   [3969,]  0.6474051749  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [3971,]  1.1003408669 -0.797883860  2.7038248  0.6676507  1.8243470
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##   [4007,] -0.4849340552  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4008,]  1.7797444050  1.169589615  2.7038248 -0.9331190  1.8243470
##   [4009,] -0.9378697472  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4010,] -0.9378697472 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [4011,]  1.7797444050  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [4012,]  0.4209373289 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4013,] -0.8812527857 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4014,]  0.8738730209 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4015,] -1.0284568856  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4016,]  2.3459140200  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4017,] -0.4849340552  1.363537712  2.7038248 -0.9331190  1.8243470
##   [4018,] -0.7114019012  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4019,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4020,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4021,]  0.6474051749 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [4022,] -0.1452322862  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4023,] -0.2584662092 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4024,]  2.3459140200 -1.651655377  2.7038248  1.4680355  1.8243470
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##   [4027,]  1.2135747899  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4028,] -0.9378697472 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4029,]  2.3459140200  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4030,]  2.0062122510  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4031,] -1.5040393623  0.383799904  2.7038248 -0.1327341  1.8243470
##   [4032,] -0.5981679782  0.975641518  2.7038248 -0.9331190  1.8243470
##   [4033,]  0.0812355598 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4034,] -0.8812527857  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4035,]  1.2135747899 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4036,] -0.4283170937 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4037,] -0.9718399241 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4038,]  0.0132952060 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4039,] -1.3681586547  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4040,] -0.2584662092  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4041,] -0.9378697472  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4042,]  0.1803152425  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4043,]  2.9120836350  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4044,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4045,] -0.7680188627 -1.097803596  2.7038248  1.4680355  1.8243470
##   [4046,] -1.2775715163 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4047,]  2.3459140200  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4048,] -1.2209545547  0.091878027  2.7038248 -0.1327341  1.8243470
##   [4049,]  0.0812355598 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4050,]  0.6474051749  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4051,] -0.1452322862 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4052,] -1.2209545547 -0.102070070  2.7038248 -0.1327341  1.8243470
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##   [4055,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [4059,] -0.7114019012 -0.288020307  2.7038248  0.6676507  1.8243470
##   [4060,] -1.0511036702 -1.221770421  2.7038248  1.4680355  1.8243470
##   [4061,]  2.3459140200 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4062,]  1.7797444050  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4063,] -1.2775715163 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4064,] -0.9378697472 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4065,] -0.4849340552  2.639196326  2.7038248 -1.7335038  1.8243470
##   [4066,]  2.3459140200  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4067,]  2.3459140200 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4068,] -0.7114019012  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4069,] -0.8246358242  0.189851808  2.7038248 -0.1327341 -0.5481372
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##   [4073,]  1.2135747899  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4074,]  0.6474051749 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4075,] -0.5868445859  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4076,]  2.3459140200 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4077,]  0.5341712519 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4078,] -0.7114019012  0.091878027  2.7038248 -0.1327341  1.8243470
##   [4079,]  2.9120836350 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4080,] -0.9378697472  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4081,]  0.1944694829  0.189851808  2.7038248 -0.1327341  1.8243470
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##   [4086,]  1.2815151437  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [4089,] -1.1643375932 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4090,]  0.6474051749  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4091,]  2.3459140200 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [4092,] -0.2584662092  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4093,]  1.2135747899 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4094,]  0.0812355598 -0.699910079  2.7038248  0.6676507  1.8243470
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##   [4098,]  1.4032416110  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4099,] -0.5415510167 -0.288020307  2.7038248  0.6676507  1.8243470
##   [4100,] -0.9378697472  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4101,] -1.2775715163 -0.288020307  2.7038248  0.6676507  1.8243470
##   [4102,]  0.8738730209 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4103,] -1.0511036702 -1.475702465  2.7038248  1.4680355  1.8243470
##   [4104,]  2.3459140200  0.189851808  2.7038248 -0.1327341  1.8243470
##   [4105,] -1.2775715163 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4106,] -0.4849340552 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4107,] -1.0737504548  1.169589615  2.7038248 -0.9331190  1.8243470
##   [4108,] -1.2775715163 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4109,] -1.1077206317 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4110,]  0.0812355598 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4111,] -1.0511036702 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4112,]  1.7797444050  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [4118,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4119,] -0.1452322862 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4120,] -0.1905258554 -1.097803596  2.7038248  1.4680355  1.8243470
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```

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##   [4125,] -1.3908054393 -1.097803596  2.7038248  1.4680355  1.8243470
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##   [4128,] -0.4849340552 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [4130,] -0.6661083320  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4131,] -1.2775715163 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4132,] -0.5981679782 -1.475702465  2.7038248  1.4680355  1.8243470
##   [4133,] -0.2584662092  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4134,] -0.2584662092  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [4135,] -0.9378697472  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4136,] -0.9378697472  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [4139,] -1.0511036702 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4140,] -0.7114019012 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4141,] -0.2584662092 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4142,]  0.6474051749 -0.102070070  2.7038248 -0.1327341 -0.5481372
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##   [4159,]  0.6474051749 -1.475702465  2.7038248  1.4680355 -0.5481372
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##   [4201,]  0.4888776827  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4202,] -0.9350388992 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4203,]  0.0812355598 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4204,] -0.4849340552  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4205,]  1.7797444050  1.363537712  2.7038248 -0.9331190  1.8243470
##   [4206,] -0.4849340552 -0.102070070  2.7038248 -0.1327341  1.8243470
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##   [4213,]  2.3459140200  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4214,] -0.4849340552  2.253299598  2.7038248 -1.7335038  1.8243470
##   [4215,]  2.1194461740 -1.221770421  2.7038248  1.4680355  1.8243470
##   [4216,]  1.7797444050  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4217,] -1.4474224008 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4218,] -0.8246358242 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4219,]  0.6474051749  1.169589615  2.7038248 -0.9331190  1.8243470
##   [4220,] -1.2775715163  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [4224,] -0.1678790708  0.189851808  2.7038248 -0.1327341 -0.5481372
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##   [4230,] -1.0511036702  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4231,]  1.7797444050  0.189851808  2.7038248 -0.1327341  1.8243470
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##   [4233,] -0.4849340552 -0.699910079  2.7038248  0.6676507 -0.5481372
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##   [4236,]  2.3459140200  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4237,] -1.3341884778  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4238,] -0.9378697472 -0.699910079  2.7038248  0.6676507 -0.5481372
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##   [4256,]  0.0132952060  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4257,]  0.4209373289  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [4258,] -1.4360990085  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4259,]  2.3459140200  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [4263,]  0.5341712519  2.639196326  2.7038248 -1.7335038 -0.5481372
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##   [4268,]  0.4209373289  0.383799904  2.7038248 -0.1327341  1.8243470
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##   [4275,]  1.2135747899  3.319014397  2.7038248 -2.5338886 -0.5481372
##   [4276,] -0.9944867087  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4277,]  0.8738730209  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4278,]  0.1944694829  0.091878027  2.7038248 -0.1327341 -0.5481372
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##   [4295,]  0.1944694829  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4296,] -1.2549247316  0.091878027  2.7038248 -0.1327341 -0.5481372
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##   [4299,]  0.3077034059 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4300,] -0.7453720781 -0.601936298  2.7038248  0.6676507 -0.5481372
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##   [4311,]  1.2135747899  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4312,] -0.4849340552 -1.347736711  2.7038248  1.4680355  1.8243470
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##   [4324,]  1.2135747899  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [4334,] -0.4849340552  2.447247695  2.7038248 -1.7335038 -0.5481372
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##   [4393,]  1.2135747899 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4394,]  2.3459140200 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4395,] -1.2775715163 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4396,] -0.7114019012 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4397,] -0.2584662092 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4398,] -0.7114019012  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4399,] -1.0511036702  0.189851808  2.7038248 -0.1327341  1.8243470
##   [4400,] -0.9944867087 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [4401,]  0.6474051749 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4402,]  1.7797444050  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [4403,] -0.4509638783  3.319014397  2.7038248 -2.5338886 -0.5481372
##   [4404,] -0.2584662092  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4405,] -0.8246358242  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4406,] -1.2209545547  1.655459589  2.7038248 -0.9331190  1.8243470
##   [4407,]  0.6870370479  1.169589615  2.7038248 -0.9331190  1.8243470
##   [4408,] -0.4849340552  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4409,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4410,] -0.4849340552 -1.347736711  2.7038248  1.4680355  1.8243470
##   [4411,]  0.1944694829  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4412,] -0.1452322862 -0.288020307  2.7038248  0.6676507  1.8243470
##   [4413,]  2.9120836350 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4414,] -0.4849340552 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4415,] -1.3228650855  0.091878027  2.7038248 -0.1327341  1.8243470
##   [4416,]  1.5532765589  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [4419,]  1.3268087129  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [4420,] -0.4849340552 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4421,] -0.9378697472 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4422,] -0.7227252935 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4423,] -0.3490533476 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [4424,] -1.1643375932 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4425,] -1.1077206317 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4426,]  1.6891572666 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4427,]  0.6474051749 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4428,] -0.7680188627 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4429,] -0.5783520417  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4430,] -1.0511036702  0.975641518  2.7038248 -0.9331190  1.8243470
##   [4431,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4432,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4433,] -0.0178441228  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [4434,]  0.0812355598  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [4435,] -0.8925761780 -1.475702465  2.7038248  1.4680355  1.8243470
##   [4436,]  1.2135747899 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4437,]  1.8929783280 -1.097803596  2.7038248  1.4680355  1.8243470
##   [4438,] -1.2209545547 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4439,] -1.0511036702 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4440,] -0.9944867087 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4441,] -0.3943469168 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4442,] -1.3908054393 -1.097803596  2.7038248  1.4680355 -0.5481372
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##   [4444,] -0.4849340552 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4445,] -0.4849340552  1.169589615  2.7038248 -0.9331190  1.8243470
##   [4446,] -0.4849340552 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4447,]  0.6474051749  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [4448,] -0.3518841957  3.442981221  2.7038248 -3.3342734 -0.5481372
##   [4449,] -0.3490533476  0.091878027  2.7038248 -0.1327341  1.8243470
##   [4450,] -0.5981679782 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4451,] -0.2584662092  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4452,]  0.0812355598  2.253299598  2.7038248 -1.7335038  1.8243470
##   [4453,]  0.6474051749  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4454,]  0.1491759136  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4455,] -0.3717001322 -1.221770421  2.7038248  1.4680355  1.8243470
##   [4456,]  1.2135747899  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [4457,] -0.4849340552  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [4458,] -0.4849340552  0.383799904  2.7038248 -0.1327341  1.8243470
##   [4459,] -0.4849340552  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4460,]  0.4209373289 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4461,] -0.4849340552  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4462,] -0.8812527857  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4463,] -0.7453720781 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4464,]  0.6474051749 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4465,] -1.0511036702 -1.221770421  2.7038248  1.4680355 -0.5481372
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##   [4469,] -0.5415510167 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4470,] -1.2209545547 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4471,]  0.0812355598  1.169589615  2.7038248 -0.9331190  1.8243470
##   [4472,] -1.2209545547 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4473,] -0.2584662092  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4474,]  0.6474051749  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4475,]  0.0812355598 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4476,] -0.4849340552  0.091878027  2.7038248 -0.1327341 -0.5481372
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##   [4478,] -1.5040393623 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4479,]  1.7797444050 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4480,] -1.0511036702 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4481,] -0.4849340552 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4482,] -1.2209545547  0.091878027  2.7038248 -0.1327341  1.8243470
##   [4483,] -1.0511036702 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4484,]  0.0812355598 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4485,]  0.1944694829 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4486,]  0.9871069439  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4487,]  1.1003408669 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4488,] -1.0511036702  1.363537712  2.7038248 -0.9331190  1.8243470
##   [4489,] -1.3908054393 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4490,]  0.2510864444  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4491,] -1.2775715163  1.865403405  2.7038248 -1.7335038  1.8243470
##   [4492,] -0.4849340552 -1.221770421  2.7038248  1.4680355  1.8243470
##   [4493,] -0.1452322862  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4494,] -0.4849340552 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4495,] -0.0319983632 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4496,]  1.2135747899 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4497,] -0.9378697472 -1.651655377  2.7038248  1.4680355  1.8243470
##   [4498,] -1.3455118701 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4499,]  0.0812355598 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4500,] -0.2584662092 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4501,]  0.1944694829  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4502,] -0.8246358242 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4503,] -0.2584662092 -0.288020307  2.7038248  0.6676507  1.8243470
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##   [4505,] -0.2584662092 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4506,]  2.3459140200  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4507,] -0.5755211936 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4508,] -1.4474224008 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4509,] -0.1452322862 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4510,]  0.1944694829 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4511,]  2.9120836350  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4512,] -1.3908054393 -1.097803596  2.7038248  1.4680355  1.8243470
##   [4513,] -0.4849340552 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4514,]  0.6474051749 -0.503962517  2.7038248  0.6676507 -0.5481372
```

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##   [4516,] -1.5040393623 -1.097803596  2.7038248  1.4680355  1.8243470
##   [4517,] -0.8246358242  0.779693957  2.7038248 -0.9331190  1.8243470
##   [4518,] -0.9378697472  1.169589615  2.7038248 -0.9331190  1.8243470
##   [4519,]  0.6474051749  3.414988712  2.7038248 -2.5338886 -0.5481372
##   [4520,]  2.9120836350 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [4521,] -1.3908054393  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4522,] -0.4849340552 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4523,]  1.7797444050  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4524,] -1.0511036702  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4525,]  0.0812355598  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [4526,] -0.0886153247 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4527,] -1.0511036702  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4528,]  0.6474051749 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4529,]  0.5568180365 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4530,]  2.3459140200 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4531,] -1.3455118701  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4532,] -0.0319983632  1.655459589  2.7038248 -0.9331190  1.8243470
##   [4533,] -0.3490533476 -1.221770421  2.7038248  1.4680355 -0.5481372
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##   [4539,]  0.1944694829  0.091878027  2.7038248 -0.1327341 -0.5481372
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##   [4546,] -0.9378697472  0.091878027  2.7038248 -0.1327341 -0.5481372
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##   [4549,] -0.6547849397 -1.097803596  2.7038248  1.4680355  1.8243470
##   [4550,] -0.2584662092 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4551,] -0.9378697472  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4552,]  0.0812355598 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4553,] -1.1643375932  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4554,] -0.2584662092  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4555,] -0.4849340552  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4556,]  2.0628292125 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4557,]  0.1944694829  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4558,] -0.5415510167 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4559,]  1.7797444050 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4560,] -0.7340486858  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4561,] -0.2584662092 -0.699910079  2.7038248  0.6676507 -0.5481372
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##   [4564,]  0.6474051749 -1.475702465  2.7038248  1.4680355  1.8243470
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##   [4567,] -1.3908054393  1.655459589  2.7038248 -0.9331190  1.8243470
##   [4568,]  0.0812355598  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [4570,] -0.9378697472 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4571,] -1.3172033893  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4572,]  1.2135747899  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4573,] -0.2584662092 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [4574,] -0.9378697472  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [4576,] -0.4849340552  0.189851808  2.7038248 -0.1327341  1.8243470
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##   [4580,]  0.6474051749  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [4582,]  0.6474051749  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [4585,]  2.3459140200  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4586,] -0.2584662092  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4587,]  2.0062122510  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4588,] -0.0319983632 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4589,] -1.1077206317  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4590,] -1.1643375932 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4591,] -0.0319983632 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [4592,]  0.7606390979  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4593,] -0.6661083320  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4594,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4595,]  0.4209373289  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4596,] -0.0319983632 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4597,] -1.3455118701 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4598,] -0.4849340552 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4599,]  2.9120836350 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4600,]  1.1003408669  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4601,] -0.0319983632  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4602,] -0.2584662092  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4603,] -0.1225855016  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4604,] -0.4849340552  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4605,] -0.2584662092  2.253299598  2.7038248 -1.7335038  1.8243470
##   [4606,]  2.3459140200 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4607,] -0.8925761780 -1.475702465  2.7038248  1.4680355  1.8243470
##   [4608,] -0.0319983632 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4609,] -0.8812527857 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4610,] -0.7680188627  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4611,]  2.9120836350 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4612,]  1.6382020012 -0.102070070  2.7038248 -0.1327341 -0.5481372
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##   [4615,] -1.1643375932  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4616,] -0.4849340552 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4617,] -1.0737504548 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4618,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4619,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4620,]  1.2135747899  0.779693957  2.7038248 -0.9331190  1.8243470
##   [4621,] -1.4813925777  0.779693957  2.7038248 -0.9331190  1.8243470
##   [4622,]  0.0784047118  3.442981221  2.7038248 -3.3342734  1.8243470
##   [4623,]  0.3077034059  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4624,]  1.7797444050  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4625,]  0.0132952060  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4626,] -0.4849340552  1.655459589  2.7038248 -0.9331190  1.8243470
##   [4627,] -0.4849340552 -0.288020307  2.7038248  0.6676507  1.8243470
##   [4628,] -1.1643375932  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4629,] -0.4849340552  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4630,]  0.6474051749 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4631,]  0.6474051749  1.655459589  2.7038248 -0.9331190  1.8243470
##   [4632,] -0.8812527857 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4633,] -1.1643375932  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4634,] -0.8246358242 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4635,]  2.3459140200 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4636,]  2.9120836350 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4637,] -1.0737504548 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4638,] -0.7114019012 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [4639,] -0.5075808398  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4640,] -1.0511036702  0.189851808  2.7038248 -0.1327341  1.8243470
##   [4641,]  1.4400426359 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4642,] -0.9378697472 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4643,]  0.4209373289 -0.699910079  2.7038248  0.6676507  1.8243470
##   [4644,] -0.7114019012  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4645,] -0.7114019012 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4646,]  1.2135747899  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4647,] -0.7114019012 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [4648,] -0.7114019012 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4649,] -0.4849340552 -1.347736711  2.7038248  1.4680355  1.8243470
##   [4650,]  0.4209373289 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4651,] -0.8246358242  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4652,]  0.7606390979  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4653,] -0.5698594975 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4654,]  0.5568180365 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4655,]  1.2135747899  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4656,]  1.7344508358  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4657,]  0.4209373289  2.253299598  2.7038248 -1.7335038 -0.5481372
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##   [4662,]  0.3077034059  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4663,] -0.7680188627 -0.503962517  2.7038248  0.6676507  1.8243470
##   [4664,]  1.1003408669 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4665,] -1.1643375932  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4666,]  2.3459140200  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4667,] -1.0511036702 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4668,] -0.6661083320  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4669,] -1.0511036702  0.975641518  2.7038248 -0.9331190  1.8243470
##   [4670,] -0.9378697472 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4671,]  0.1944694829 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4672,] -0.1452322862 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4673,]  2.3459140200  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4674,] -0.8133124319  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4675,]  1.2135747899 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4676,] -0.2584662092 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [4677,]  1.5532765589 -1.651655377  2.7038248  1.4680355  1.8243470
##   [4678,]  1.7797444050 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4679,] -1.0511036702  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [4680,] -1.3908054393 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4681,]  0.4662308981  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [4682,]  0.3077034059  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4683,]  0.6672211114  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [4688,] -0.8246358242 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4689,] -0.4849340552 -0.288020307  2.7038248  0.6676507  1.8243470
##   [4690,] -1.3908054393 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4691,]  0.6474051749 -0.288020307  2.7038248  0.6676507  1.8243470
##   [4692,] -0.4849340552 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4693,]  0.6474051749  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [4694,]  0.9361516786  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4695,]  0.1944694829  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4696,] -0.0319983632 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4697,]  0.1944694829 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [4698,] -0.0319983632 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4699,] -1.1784918336  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4700,]  0.0812355598  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [4701,] -0.8246358242 -0.288020307  2.7038248  0.6676507  1.8243470
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##   [4703,]  1.5532765589 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4704,]  2.3459140200 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4705,] -0.2584662092 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4706,]  0.1944694829 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4707,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4708,] -1.1077206317 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [4709,] -1.0511036702 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4710,]  0.6474051749 -1.097803596  2.7038248  1.4680355 -0.5481372
```

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##   [4712,] -1.1643375932  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4713,] -1.2775715163  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4714,]  0.1944694829 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4715,] -0.4849340552  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4716,]  2.9120836350  0.383799904  2.7038248 -0.1327341  1.8243470
##   [4717,] -0.8925761780 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4718,] -0.4849340552  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4719,] -0.9378697472  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4720,] -1.2747406682 -1.347736711  2.7038248  1.4680355  1.8243470
##   [4721,]  1.7797444050 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4722,] -1.1643375932 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4723,] -0.8812527857  0.189851808  2.7038248 -0.1327341  1.8243470
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##   [4729,] -0.9378697472  0.189851808  2.7038248 -0.1327341 -0.5481372
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##   [4733,] -0.4849340552  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [4734,] -0.1452322862 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4735,] -0.8019890396 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4736,] -1.0511036702 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4737,] -1.1643375932  2.639196326  2.7038248 -1.7335038 -0.5481372
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##   [4744,] -0.6547849397  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [4745,] -1.0511036702  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [4748,]  0.0812355598  0.189851808  2.7038248 -0.1327341  1.8243470
##   [4749,] -0.7566954704 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4750,] -0.7114019012  0.091878027  2.7038248 -0.1327341  1.8243470
##   [4751,] -1.2209545547 -0.601936298  2.7038248  0.6676507  1.8243470
##   [4752,] -1.0737504548  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [4753,] -0.8019890396 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4754,]  1.5532765589 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [4755,] -0.2584662092  0.189851808  2.7038248 -0.1327341  1.8243470
##   [4756,] -0.7114019012 -1.221770421  2.7038248  1.4680355 -0.5481372
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##   [4758,]  2.9120836350 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4759,] -1.0227951895 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4760,] -1.3908054393 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4761,] -0.9378697472 -0.797883860  2.7038248  0.6676507  1.8243470
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##   [4779,]  0.0812355598 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4780,] -0.4849340552  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [4781,] -0.2584662092  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4782,]  0.4577383538  3.442981221  2.7038248 -3.3342734 -0.5481372
##   [4783,] -1.5040393623  2.059351501  2.7038248 -1.7335038  1.8243470
##   [4784,]  0.0812355598  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4785,] -0.5981679782 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4786,] -1.4360990085 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4787,] -1.0511036702  1.655459589  2.7038248 -0.9331190  1.8243470
##   [4788,]  1.2135747899  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4789,]  0.0812355598  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4790,]  0.9078431978  3.434983362  2.7038248 -2.5338886 -0.5481372
##   [4791,] -1.0737504548 -0.102070070  2.7038248 -0.1327341 -0.5481372
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##   [4793,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [4794,]  2.3459140200  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4795,] -0.9944867087 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [4796,] -0.8019890396 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4797,]  1.7797444050  2.639196326  2.7038248 -1.7335038 -0.5481372
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##   [4799,]  0.6474051749 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4800,] -1.0511036702  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4801,] -0.4849340552  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4802,] -0.1452322862 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4803,] -0.4849340552  0.975641518  2.7038248 -0.9331190  1.8243470
##   [4804,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4805,] -0.4849340552  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4806,]  2.9120836350 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [4807,]  2.3459140200  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [4808,]  2.9120836350 -0.288020307  2.7038248  0.6676507  1.8243470
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##   [4811,]  1.1003408669  0.091878027  2.7038248 -0.1327341  1.8243470
##   [4812,]  2.3459140200 -1.347736711  2.7038248  1.4680355 -0.5481372
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##   [4816,] -0.1169238054  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [4817,] -1.2775715163 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4818,] -0.4849340552 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4819,]  1.6665104820 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4820,]  0.1944694829  3.029091984  2.7038248 -2.5338886 -0.5481372
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##   [4824,]  1.6750030262 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4825,] -0.1140929573 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4826,] -0.7114019012 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [4827,]  0.6474051749 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4828,] -1.2775715163 -1.651655377  2.7038248  1.4680355  1.8243470
##   [4829,] -1.2209545547 -1.097803596  2.7038248  1.4680355  1.8243470
##   [4830,]  0.0812355598 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [4831,] -0.4849340552 -0.699910079  2.7038248  0.6676507 -0.5481372
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##   [4839,]  2.9120836350 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4840,]  0.1944694829 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [4841,] -1.2209545547 -0.288020307  2.7038248  0.6676507  1.8243470
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##   [4845,]  2.3459140200  0.383799904  2.7038248 -0.1327341  1.8243470
##   [4846,]  0.3643203674  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [4847,]  0.6474051749  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4848,]  0.6474051749  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [4849,]  1.3721022821 -0.102070070  2.7038248 -0.1327341 -0.5481372
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##   [4851,] -1.2209545547 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [4860,]  1.7797444050  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4861,] -0.5981679782  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4862,] -0.4849340552 -1.221770421  2.7038248  1.4680355 -0.5481372
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##   [4864,]  0.6474051749 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [4866,] -0.2584662092 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4867,]  0.6474051749 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [4868,] -1.3908054393 -0.601936298  2.7038248  0.6676507  1.8243470
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##   [4875,] -1.3653278066  0.383799904  2.7038248 -0.1327341 -0.5481372
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##   [4882,]  1.2135747899 -0.797883860  2.7038248  0.6676507  1.8243470
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##   [4884,] -1.3908054393  0.189851808  2.7038248 -0.1327341 -0.5481372
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##   [4888,]  1.2135747899  2.639196326  2.7038248 -1.7335038 -0.5481372
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##   [4895,]  2.3459140200  0.577748001  2.7038248 -0.1327341  1.8243470
##   [4896,] -0.4849340552  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [4900,]  0.0812355598 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4901,]  1.2135747899 -0.503962517  2.7038248  0.6676507 -0.5481372
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##   [4903,]  0.1944694829 -0.102070070  2.7038248 -0.1327341 -0.5481372
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##   [4905,]  1.1003408669  0.091878027  2.7038248 -0.1327341  1.8243470
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##   [4909,] -0.4849340552  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [4913,] -0.4849340552 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [4914,]  1.1003408669  3.029091984  2.7038248 -2.5338886  1.8243470
##   [4915,] -0.4849340552 -0.797883860  2.7038248  0.6676507  1.8243470
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##   [4917,]  2.3459140200  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [4918,] -0.4849340552  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [4930,] -1.1643375932 -0.601936298  2.7038248  0.6676507 -0.5481372
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##   [4951,] -0.4849340552  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4952,]  0.6474051749  0.383799904  2.7038248 -0.1327341 -0.5481372
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##   [4957,]  1.1003408669 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [4972,]  0.4209373289  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4973,] -0.8246358242  1.655459589  2.7038248 -0.9331190  1.8243470
##   [4974,]  1.5532765589  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4975,]  0.6474051749  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [4976,]  1.2135747899  0.779693957  2.7038248 -0.9331190  1.8243470
##   [4977,] -1.3908054393 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4978,]  0.6474051749  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [4979,]  1.2135747899  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [4980,] -0.7114019012  0.975641518  2.7038248 -0.9331190  1.8243470
##   [4981,]  0.6474051749 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [4982,]  0.6474051749 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [4983,] -0.2584662092  0.189851808  2.7038248 -0.1327341  1.8243470
##   [4984,] -0.8246358242 -1.347736711  2.7038248  1.4680355  1.8243470
##   [4985,] -0.9378697472 -0.797883860  2.7038248  0.6676507  1.8243470
##   [4986,] -0.9378697472  0.383799904  2.7038248 -0.1327341  1.8243470
##   [4987,] -0.5981679782 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [4988,] -0.8246358242 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4989,]  0.0812355598 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4990,]  0.1944694829 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [4991,] -1.0511036702 -1.347736711  2.7038248  1.4680355  1.8243470
##   [4992,] -0.9378697472 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [4993,]  0.8172560594 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [4994,]  0.8738730209 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [4995,]  2.3459140200 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [4996,] -0.7114019012  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [4997,]  0.6474051749  0.189851808  2.7038248 -0.1327341  1.8243470
##   [4998,]  2.9120836350  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [4999,]  0.0812355598  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [5000,] -1.1643375932  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5001,]  0.6474051749 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [5002,]  2.3459140200  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [5003,] -0.2584662092  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [5004,] -1.2209545547 -0.601936298  2.7038248  0.6676507  1.8243470
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##   [5007,]  1.7797444050 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [5008,]  0.1378525213 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [5009,] -0.1452322862  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [5010,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [5011,] -0.4849340552  0.975641518  2.7038248 -0.9331190  1.8243470
##   [5012,] -0.6661083320 -1.347736711  2.7038248  1.4680355  1.8243470
##   [5013,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [5014,]  0.0812355598 -1.097803596  2.7038248  1.4680355  1.8243470
##   [5015,]  0.1944694829 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [5016,] -0.8019890396  0.383799904  2.7038248 -0.1327341  1.8243470
##   [5017,]  1.4400426359 -1.651655377  2.7038248  1.4680355  1.8243470
##   [5018,] -0.4849340552 -0.699910079  2.7038248  0.6676507  1.8243470
##   [5019,] -0.2584662092  1.169589615  2.7038248 -0.9331190  1.8243470
##   [5020,]  2.3459140200  0.189851808  2.7038248 -0.1327341  1.8243470
##   [5021,] -0.3717001322 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [5022,] -0.2584662092  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [5023,] -0.3717001322  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [5024,] -1.1077206317 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [5025,]  0.6474051749  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5026,]  1.2135747899  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [5027,]  0.6474051749  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [5028,] -0.4849340552  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [5029,] -0.8019890396 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [5030,] -0.4849340552 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [5033,] -1.0737504548  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [5034,] -0.7114019012  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [5036,]  0.1944694829 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [5037,]  2.0062122510  1.363537712  2.7038248 -0.9331190  1.8243470
##   [5038,]  2.3459140200  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [5039,]  1.5079829897  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [5040,] -0.7114019012 -0.503962517  2.7038248  0.6676507  1.8243470
##   [5041,]  1.1003408669  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [5042,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5043,]  2.0062122510  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5044,]  0.6474051749 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [5045,]  0.1944694829  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5046,]  0.6474051749 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [5047,]  0.1944694829 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [5055,] -1.2747406682 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [5056,] -1.3341884778 -1.475702465  2.7038248  1.4680355  1.8243470
##   [5057,]  1.7797444050  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [5058,] -0.2584662092 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [5059,] -0.2584662092 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [5060,] -1.3341884778 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [5061,] -0.4849340552 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [5062,] -1.5040393623 -0.699910079  2.7038248  0.6676507  1.8243470
##   [5063,]  0.6021116057 -0.318012280  2.7038248  0.6676507  1.8243470
##   [5064,]  0.6474051749 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [5065,] -1.4474224008  1.363537712  2.7038248 -0.9331190  1.8243470
##   [5066,]  2.9120836350 -0.503962517  2.7038248  0.6676507 -0.5481372
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##   [5068,] -1.2775715163  0.383799904  2.7038248 -0.1327341  1.8243470
##   [5069,] -0.4849340552 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5070,] -0.3037597784  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [5071,] -0.2584662092  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [5072,]  0.0812355598 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [5073,]  0.6474051749 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [5074,] -0.5981679782 -0.797883860  2.7038248  0.6676507 -0.5481372
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##   [5076,]  0.1944694829 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [5077,] -0.0319983632  2.447247695  2.7038248 -1.7335038 -0.5481372
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##   [5079,]  0.4209373289  0.577748001  2.7038248 -0.1327341 -0.5481372
##   [5080,]  1.2135747899  0.091878027  2.7038248 -0.1327341 -0.5481372
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##   [5084,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [5085,]  0.1944694829 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [5086,]  0.4209373289 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [5087,] -1.0511036702 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [5090,] -0.5302276244  0.189851808  2.7038248 -0.1327341 -0.5481372
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##   [5095,]  1.6665104820  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [5096,] -0.5302276244  0.577748001  2.7038248 -0.1327341  1.8243470
##   [5097,]  2.3459140200  0.779693957  2.7038248 -0.9331190  1.8243470
##   [5098,] -1.2775715163 -1.221770421  2.7038248  1.4680355  1.8243470
##   [5099,] -0.4849340552 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5100,] -0.4849340552 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [5101,] -1.4474224008  1.655459589  2.7038248 -0.9331190  1.8243470
##   [5102,]  0.6474051749 -0.699910079  2.7038248  0.6676507 -0.5481372
```

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##   [5104,]  1.2135747899  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5105,]  1.5532765589 -1.347736711  2.7038248  1.4680355 -0.5481372
##   [5106,] -1.2775715163 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5107,]  0.6474051749 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [5108,]  0.0812355598 -1.347736711  2.7038248  1.4680355  1.8243470
##   [5109,] -1.0511036702 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [5110,] -1.1643375932  0.779693957  2.7038248 -0.9331190  1.8243470
##   [5111,] -1.1643375932 -0.288020307  2.7038248  0.6676507  1.8243470
##   [5112,] -0.7114019012 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [5113,] -0.2584662092  2.447247695  2.7038248 -1.7335038  1.8243470
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##   [5117,] -0.7114019012 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [5118,] -0.6661083320 -0.102070070  2.7038248 -0.1327341 -0.5481372
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##   [5121,]  0.1944694829  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [5122,] -1.1643375932  0.189851808  2.7038248 -0.1327341 -0.5481372
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##   [5124,] -1.1813226817 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [5125,] -1.2775715163 -1.097803596  2.7038248  1.4680355 -0.5481372
##   [5126,]  1.9495952895 -0.288020307  2.7038248  0.6676507  1.8243470
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##   [5134,]  0.6474051749  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [5135,] -0.9378697472  1.363537712  2.7038248 -0.9331190  1.8243470
##   [5136,] -0.2584662092 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [5137,]  2.3459140200 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [5139,] -0.3717001322 -0.503962517  2.7038248  0.6676507 -0.5481372
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##   [5141,] -0.8925761780 -0.699910079  2.7038248  0.6676507  1.8243470
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##   [5143,] -0.8812527857  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [5159,]  0.6474051749  0.383799904  2.7038248 -0.1327341  1.8243470
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##   [5169,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [5198,]  0.1944694829 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [5199,] -1.3341884778  0.189851808  2.7038248 -0.1327341  1.8243470
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##   [5208,] -0.5981679782  0.577748001  2.7038248 -0.1327341  1.8243470
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##   [5212,] -1.2775715163  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [5224,] -0.9378697472 -0.288020307  2.7038248  0.6676507 -0.5481372
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##   [5233,] -0.2584662092  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [5234,]  1.7797444050 -1.097803596  2.7038248  1.4680355 -0.5481372
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##   [5391,]  1.2135747899  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [5394,] -0.5981679782 -0.503962517  2.7038248  0.6676507  1.8243470
##   [5395,] -0.4849340552  0.383799904  2.7038248 -0.1327341 -0.5481372
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##   [5476,]  0.7606390979  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [5493,] -0.7680188627 -0.601936298  2.7038248  0.6676507 -0.5481372
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##   [5552,] -1.0369494299  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [5553,]  1.7797444050  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [5554,]  0.0812355598 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [5555,]  0.1944694829  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [5558,] -0.9831633164  0.577748001  2.7038248 -0.1327341 -0.5481372
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##   [5572,] -1.5040393623 -0.601936298  2.7038248  0.6676507  1.8243470
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##   [5587,] -0.7114019012 -0.102070070  2.7038248 -0.1327341 -0.5481372
##   [5588,] -0.4849340552 -0.288020307  2.7038248  0.6676507 -0.5481372
##   [5589,]  0.8738730209  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [5590,] -0.8925761780  0.189851808  2.7038248 -0.1327341 -0.5481372
##   [5591,] -0.4849340552  0.383799904  2.7038248 -0.1327341  1.8243470
##   [5592,] -1.0511036702  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [5595,]  2.3459140200  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [5648,] -0.4849340552  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [5654,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [5655,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [5744,] -0.9378697472 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5745,] -1.1190440240 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5746,] -1.5040393623  0.383799904  2.7038248 -0.1327341  1.8243470
##   [5747,]  0.2510864444  0.383799904  2.7038248 -0.1327341 -0.5481372
##   [5748,] -0.9831633164  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [5749,] -0.8019890396  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [5750,]  0.8738730209 -0.503962517  2.7038248  0.6676507  1.8243470
##   [5751,]  0.4209373289 -0.699910079  2.7038248  0.6676507  1.8243470
##   [5752,]  0.0812355598 -0.503962517  2.7038248  0.6676507 -0.5481372
##   [5753,] -0.8246358242  1.655459589  2.7038248 -0.9331190  1.8243470
##   [5754,] -1.0567653664 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [5755,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5756,]  1.5532765589  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [5757,]  1.2135747899  2.447247695  2.7038248 -1.7335038  1.8243470
##   [5758,] -1.0737504548 -0.729902052  2.7038248  0.6676507  1.8243470
##   [5759,]  2.3459140200  0.091878027  2.7038248 -0.1327341  1.8243470
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##   [5761,] -0.4849340552 -1.221770421  2.7038248  1.4680355 -0.5481372
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##   [5763,] -1.1643375932 -0.699910079  2.7038248  0.6676507 -0.5481372
##   [5764,]  0.6474051749  0.779693957  2.7038248 -0.9331190  1.8243470
##   [5765,]  1.2135747899 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [5766,] -0.4849340552  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [5768,] -0.9350388992 -0.699910079  2.7038248  0.6676507  1.8243470
##   [5769,] -0.0319983632  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [5770,] -0.8246358242 -1.475702465  2.7038248  1.4680355 -0.5481372
##   [5771,] -1.3341884778 -0.797883860  2.7038248  0.6676507 -0.5481372
##   [5772,] -0.4849340552 -0.631928272  2.7038248  0.6676507  1.8243470
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##   [5779,]  2.0062122510  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5780,] -0.7114019012  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [5781,]  1.2135747899  0.779693957  2.7038248 -0.9331190  1.8243470
##   [5782,]  0.6474051749  0.487772080  2.7038248 -0.1327341  1.8243470
##   [5783,] -0.0319983632 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5784,] -0.8925761780 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [5785,]  1.5532765589 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [5786,] -1.3908054393 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5787,] -1.5040393623  1.363537712  2.7038248 -0.9331190  1.8243470
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##   [5789,]  0.1435142175 -0.288020307  2.7038248  0.6676507  1.8243470
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##   [5791,]  1.2135747899  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [5792,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [5793,] -0.3717001322 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [5794,] -1.0737504548 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [5795,] -1.2775715163  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5796,] -0.8246358242  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [5797,]  1.2135747899  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [5798,]  1.5532765589  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [5799,]  1.7797444050  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [5800,] -0.3490533476 -0.533954491  2.7038248  0.6676507  1.8243470
##   [5801,] -0.8246358242 -1.221770421  2.7038248  1.4680355  1.8243470
##   [5802,] -1.3341884778 -0.601936298  2.7038248  0.6676507  1.8243470
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##   [5804,] -1.0511036702 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [5805,]  0.6474051749  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [5806,] -0.7114019012 -0.102070070  2.7038248 -0.1327341  1.8243470
##   [5807,]  0.0812355598 -0.601936298  2.7038248  0.6676507 -0.5481372
##   [5808,]  1.2135747899  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5809,] -0.7680188627 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [5810,] -0.9378697472 -0.631928272  2.7038248  0.6676507  1.8243470
##   [5811,]  2.1194461740  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [5812,] -0.7680188627 -1.221770421  2.7038248  1.4680355 -0.5481372
##   [5813,] -0.4849340552 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [5814,]  2.3459140200  0.293823983  2.7038248 -0.1327341  1.8243470
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##   [5820,] -0.2584662092  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [5821,] -0.4849340552  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [5825,]  0.6474051749  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [5826,] -1.0737504548  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [5827,]  1.2135747899  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [5828,]  1.7797444050  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5829,] -0.9378697472  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [5830,]  1.7797444050  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5831,] -0.4849340552  2.447247695  2.7038248 -1.7335038 -0.5481372
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##   [5837,]  0.4209373289  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [5845,] -1.0737504548  0.091878027  2.7038248 -0.1327341 -0.5481372
##   [5846,] -0.9378697472  0.293823983  2.7038248 -0.1327341  1.8243470
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##   [5848,] -0.4849340552  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [5852,]  0.0812355598  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [5853,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5854,]  0.6474051749  2.059351501  2.7038248 -1.7335038  1.8243470
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##   [5857,]  1.1003408669  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [5861,]  1.2135747899  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5862,]  1.7797444050  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [5863,]  0.6474051749 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [5864,] -0.1678790708  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [5865,]  0.7606390979 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [5866,]  0.4209373289  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [5867,] -0.7680188627  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5868,] -1.2549247316 -1.221770421  2.7038248  1.4680355  1.8243470
##   [5869,]  0.6474051749 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [5870,] -1.3455118701 -1.513692298  2.7038248  1.4680355 -0.5481372
##   [5871,]  1.1003408669 -0.318012280  2.7038248  0.6676507  1.8243470
##   [5872,]  2.3459140200 -0.827875833  2.7038248  0.6676507  1.8243470
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##   [5876,] -1.1643375932  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [5882,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [5883,] -1.0511036702 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [5885,]  0.3756437597 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [5889,]  0.0812355598 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [5891,]  0.1944694829  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [5894,]  0.6474051749  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [5896,] -1.5040393623 -0.631928272  2.7038248  0.6676507  1.8243470
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##   [5900,]  2.3459140200  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [5905,]  2.3459140200 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [5920,] -1.3341884778  0.975641518  2.7038248 -0.9331190  1.8243470
##   [5921,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [5926,] -0.3717001322  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [5929,]  1.1003408669 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [5937,] -0.4849340552  1.363537712  2.7038248 -0.9331190  1.8243470
##   [5938,] -0.4849340552  2.253299598  2.7038248 -1.7335038  1.8243470
##   [5939,]  1.2135747899 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [5940,]  0.5568180365  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5941,]  1.2135747899 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [5942,]  0.3643203674  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [5943,] -0.7680188627  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [5944,] -1.1077206317 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [5945,] -1.1077206317 -1.121797175  2.7038248  1.4680355  1.8243470
##   [5946,]  0.0812355598  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5947,] -0.7340486858 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [5948,] -0.8246358242 -1.121797175  2.7038248  1.4680355  1.8243470
##   [5949,]  1.7797444050  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [5950,]  2.9120836350 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [5951,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [5952,]  0.8738730209 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [5953,] -0.8246358242 -0.827875833  2.7038248  0.6676507  1.8243470
##   [5954,]  0.1944694829 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [5955,]  2.9120836350 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [5957,] -0.7114019012 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [5958,] -0.8812527857 -1.371730290  2.7038248  1.4680355  1.8243470
##   [5959,]  0.1944694829  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5960,]  0.1944694829 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [5961,]  0.0812355598  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5962,] -0.2584662092  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [5963,] -0.4849340552 -0.533954491  2.7038248  0.6676507  1.8243470
##   [5964,]  1.7797444050  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [5965,] -0.9944867087 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [5966,] -1.0511036702 -1.499696044  2.7038248  1.4680355  1.8243470
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##   [5968,] -0.6661083320 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [5969,] -0.2584662092 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [5971,] -1.1643375932  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [5972,] -0.2584662092  1.169589615  2.7038248 -0.9331190  1.8243470
##   [5973,] -1.4813925777  1.865403405  2.7038248 -1.7335038  1.8243470
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##   [5977,] -0.6661083320 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [5979,]  2.3459140200  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [5980,]  0.1944694829 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [5981,]  1.7797444050  3.319014397  2.7038248 -2.5338886 -0.5481372
##   [5982,] -0.4849340552 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [5983,]  0.6474051749 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [5984,]  1.7797444050 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [5987,] -0.7680188627 -0.533954491  2.7038248  0.6676507  1.8243470
##   [5988,] -0.5981679782 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [5989,] -0.4849340552  1.655459589  2.7038248 -0.9331190  1.8243470
##   [5990,]  0.1944694829  3.029091984  2.7038248 -2.5338886  1.8243470
##   [5991,] -1.0511036702  1.865403405  2.7038248 -1.7335038  1.8243470
##   [5992,]  2.3459140200  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [5993,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [5994,]  2.3459140200  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [5995,] -0.7680188627 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [5996,] -0.5415510167 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [5997,]  0.6474051749  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5998,]  1.5532765589  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [5999,] -1.0511036702  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6000,] -0.4849340552 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6001,] -0.7114019012 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6002,] -0.5981679782 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6003,] -1.4360990085 -0.827875833  2.7038248  0.6676507  1.8243470
##   [6004,]  0.0812355598 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6005,]  2.0062122510 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6006,] -0.9038995703 -0.827875833  2.7038248  0.6676507  1.8243470
##   [6007,]  1.7797444050  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6008,] -0.5415510167  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [6016,]  1.2135747899  1.363537712  2.7038248 -0.9331190  1.8243470
##   [6017,]  2.3459140200  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6018,]  1.2135747899 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [6023,]  0.4209373289  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6024,]  0.6474051749  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [6026,] -1.0511036702 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6027,] -1.2775715163  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [6039,]  0.1944694829 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6040,]  0.6474051749 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6041,] -0.1452322862  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [6044,] -0.3717001322 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6045,]  2.9120836350  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6046,] -0.9378697472 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6047,] -1.2096311624 -1.245764000  2.7038248  1.4680355  1.8243470
##   [6048,] -1.0511036702 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6049,]  2.3459140200 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [6053,] -1.4474224008 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6054,]  1.1003408669 -1.499696044  2.7038248  1.4680355  1.8243470
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##   [6057,] -0.7114019012 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6058,]  0.0812355598 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6059,]  2.3459140200  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6060,] -0.5302276244 -1.499696044  2.7038248  1.4680355 -0.5481372
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##   [6062,]  1.7797444050  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6063,] -1.2549247316 -0.827875833  2.7038248  0.6676507  1.8243470
##   [6064,]  0.9304899824 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6065,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6066,]  0.6474051749  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6067,]  0.1944694829  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6068,] -0.2584662092  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6069,] -1.1416908086 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6070,] -0.9378697472  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6071,]  0.6474051749  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6072,]  0.0812355598  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [6079,]  0.4464149615  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6080,]  1.2135747899 -1.499696044  2.7038248  1.4680355  1.8243470
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```

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##   [6085,] -0.4849340552 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [6087,]  0.7606390979 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [6091,] -0.4849340552 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6092,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6094,] -0.4849340552  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6095,]  2.0062122510 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [6097,]  2.9120836350 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6098,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6099,]  0.0812355598  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6100,]  1.7797444050  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [6115,] -0.5981679782 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [6116,] -1.3908054393 -0.631928272  2.7038248  0.6676507  1.8243470
##   [6117,] -0.9378697472 -0.827875833  2.7038248  0.6676507  1.8243470
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##   [6122,]  2.3459140200 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [6124,]  0.0812355598  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [6137,]  1.5532765589 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6138,] -0.7114019012  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6139,] -0.4849340552 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6140,] -0.0886153247 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6141,]  2.9120836350 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6142,]  0.1944694829  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [6144,]  0.6474051749  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6148,] -0.4849340552 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [6149,] -0.7114019012 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [6173,] -1.5040393623  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [6175,] -1.2747406682  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6176,]  1.1003408669  3.319014397  2.7038248 -2.5338886 -0.5481372
##   [6177,] -0.4849340552 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [6179,] -0.8812527857 -1.245764000  2.7038248  1.4680355 -0.5481372
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##   [6183,]  2.9120836350 -1.651655377  2.7038248  1.4680355 -0.5481372
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##   [6259,] -1.0737504548 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6260,]  0.1944694829 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6261,]  0.0812355598  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6262,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6263,] -1.4474224008 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6264,]  0.0812355598  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6268,] -0.7680188627  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [6324,] -1.3455118701  2.253299598  2.7038248 -1.7335038  1.8243470
##   [6325,] -1.3908054393  1.865403405  2.7038248 -1.7335038  1.8243470
##   [6326,]  1.7797444050  0.099875887  2.7038248 -0.1327341  1.8243470
##   [6327,] -0.1678790708  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6328,] -0.9378697472  0.975641518  2.7038248 -0.9331190  1.8243470
##   [6329,]  0.4209373289  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6330,] -0.9378697472  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6331,]  0.7606390979  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6332,] -0.4849340552  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6333,] -0.4849340552 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6334,] -0.4849340552 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6335,] -1.1926460740 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6336,] -1.4474224008 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6337,]  1.0776940823  1.655459589  2.7038248 -0.9331190  1.8243470
##   [6338,] -1.2775715163 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6339,]  2.9120836350 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6340,] -0.1452322862 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6341,] -0.4849340552 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6342,]  1.1003408669  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [6343,]  0.6474051749 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6344,]  2.9120836350  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6345,] -1.2775715163  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6346,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6347,]  0.1944694829 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6348,]  0.4577383538  2.447247695  2.7038248 -1.7335038 -0.5481372
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##   [6350,]  1.9863963144 -1.245764000  2.7038248  1.4680355  1.8243470
##   [6351,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [6353,]  0.6474051749 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6354,] -0.4849340552  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6355,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6356,] -0.7114019012  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6357,] -1.0511036702  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6361,] -1.3341884778 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [6363,]  0.0812355598  0.975641518  2.7038248 -0.9331190  1.8243470
##   [6364,]  0.0812355598 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [6368,]  0.7606390979 -0.827875833  2.7038248  0.6676507  1.8243470
##   [6369,] -1.0511036702  0.779693957  2.7038248 -0.9331190  1.8243470
##   [6370,] -1.3908054393  1.655459589  2.7038248 -0.9331190  1.8243470
##   [6371,] -1.0511036702 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6372,]  0.7606390979  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6373,]  2.3459140200 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6374,]  0.0812355598 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6375,]  0.1944694829  0.779693957  2.7038248 -0.9331190  1.8243470
##   [6376,] -0.6519540916 -0.192045991  2.7038248 -0.1327341 -0.5481372
```

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##   [6377,]  1.2135747899 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6378,]  0.0416036868  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6379,]  0.6474051749  0.099875887  2.7038248 -0.1327341  1.8243470
##   [6380,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6381,]  0.6474051749  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6382,] -1.3341884778  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6383,]  0.0132952060 -1.371730290  2.7038248  1.4680355  1.8243470
##   [6384,]  2.9120836350 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6385,]  1.2135747899  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6386,]  0.0812355598 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6387,] -0.8019890396  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6388,] -0.2584662092  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6389,] -1.2747406682  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6390,]  0.0246185983  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6391,]  0.0812355598  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6392,]  2.4591479430  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6393,]  1.2135747899 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6394,]  0.6474051749 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [6395,]  0.0132952060  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6396,] -0.8246358242 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6397,] -0.4849340552 -1.371730290  2.7038248  1.4680355  1.8243470
##   [6398,] -1.3568352624 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6399,] -0.4849340552  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6400,] -0.2584662092  0.099875887  2.7038248 -0.1327341  1.8243470
##   [6401,]  2.4789638795 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [6402,]  0.1944694829  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6403,]  0.0812355598 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6404,] -0.0319983632  1.363537712  2.7038248 -0.9331190  1.8243470
##   [6405,]  2.4591479430 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [6406,] -1.3341884778  0.779693957  2.7038248 -0.9331190  1.8243470
##   [6407,]  1.7797444050 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6408,] -1.0511036702  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6409,]  0.1944694829  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6410,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6411,] -1.2775715163 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6412,] -0.6547849397 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6413,] -0.3717001322  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6414,] -0.7114019012 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6415,] -0.3150831707  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6416,]  1.7797444050 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6417,]  0.5568180365 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6418,] -1.4134522239  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6419,] -0.9944867087 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6420,] -0.3490533476  0.487772080  2.7038248 -0.1327341  1.8243470
##   [6421,] -1.5040393623  0.975641518  2.7038248 -0.9331190  1.8243470
##   [6422,] -1.1643375932 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6423,]  1.2135747899  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6424,] -1.3455118701 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6425,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6426,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6427,]  0.4775542904  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6428,] -1.2719098201 -1.499696044  2.7038248  1.4680355  1.8243470
##   [6429,] -0.9378697472 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6430,] -0.7453720781  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6431,] -0.4283170937 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6432,]  0.5341712519 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6433,]  0.0132952060 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6434,]  1.1003408669  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6435,]  0.0812355598 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6436,]  0.1944694829  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6437,] -0.9378697472 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6438,] -0.4849340552 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6439,] -0.7114019012 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6440,]  2.9120836350 -1.499696044  2.7038248  1.4680355  1.8243470
##   [6441,] -1.4247756162  0.487772080  2.7038248 -0.1327341  1.8243470
##   [6442,] -0.2584662092  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6443,]  0.6474051749  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [6444,]  1.7797444050  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [6445,]  0.8738730209  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6446,] -1.2775715163 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6447,]  0.5341712519 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [6449,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6450,]  1.7797444050  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6451,] -1.1643375932 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6452,] -1.3115416932  1.363537712  2.7038248 -0.9331190  1.8243470
##   [6453,] -1.2775715163 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6454,]  2.3459140200 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6455,]  2.5723818660  0.487772080  2.7038248 -0.1327341  1.8243470
##   [6456,] -1.0737504548  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6457,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6458,] -0.5981679782 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6459,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [6460,] -0.9378697472 -0.631928272  2.7038248  0.6676507  1.8243470
##   [6461,] -1.1416908086  0.099875887  2.7038248 -0.1327341  1.8243470
##   [6462,]  2.9120836350 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6463,]  1.7797444050  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [6464,] -0.7114019012 -1.371730290  2.7038248  1.4680355  1.8243470
##   [6465,] -1.4474224008  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6466,] -0.4849340552 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [6467,]  0.0812355598  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6468,]  2.3459140200  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6469,] -1.4360990085  1.169589615  2.7038248 -0.9331190  1.8243470
##   [6470,] -0.4849340552  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6471,]  1.7797444050 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6472,]  0.1944694829  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6473,] -0.5302276244  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6474,]  2.3459140200 -0.729902052  2.7038248  0.6676507 -0.5481372
```

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##   [6476,]  0.0812355598  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [6477,] -0.0319983632  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6478,]  0.4209373289  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6479,]  0.9871069439  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6480,]  0.1944694829  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [6481,]  0.1944694829  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6482,] -1.2775715163  1.169589615  2.7038248 -0.9331190  1.8243470
##   [6483,] -0.9378697472 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6484,]  0.0812355598  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6485,]  0.1944694829 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6486,] -0.9378697472 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6487,]  2.3459140200  0.975641518  2.7038248 -0.9331190  1.8243470
##   [6488,] -1.0511036702 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6489,] -0.2584662092  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [6492,] -1.2464321874 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6493,]  1.2362215745 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6494,]  0.6474051749  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6495,] -0.5302276244 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6496,]  1.7797444050  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [6498,] -0.4849340552  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6499,]  1.7797444050  2.639196326  2.7038248 -1.7335038  1.8243470
##   [6500,] -0.3717001322 -1.371730290  2.7038248  1.4680355  1.8243470
##   [6501,]  2.3459140200  0.779693957  2.7038248 -0.9331190  1.8243470
##   [6502,]  0.0812355598  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [6508,]  2.9120836350 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6509,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6510,] -1.0511036702  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6516,]  0.7606390979  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6517,] -1.4474224008 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6518,]  0.6474051749  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [6519,] -0.4849340552 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6520,]  1.7797444050  0.487772080  2.7038248 -0.1327341  1.8243470
##   [6521,]  0.5568180365  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6523,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6524,] -0.8246358242  1.169589615  2.7038248 -0.9331190  1.8243470
##   [6525,] -0.9378697472 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6526,]  2.9120836350 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6527,]  0.6474051749 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6528,]  2.3459140200  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6529,] -1.2096311624 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6530,]  0.7832858825  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6531,]  0.4209373289  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6532,]  1.1965897015 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6533,]  1.5079829897  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6534,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6535,] -1.0397802779  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [6536,] -1.2209545547  2.447247695  2.7038248 -1.7335038  1.8243470
##   [6537,]  2.3459140200  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6538,] -0.9944867087  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6539,]  1.2135747899  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6550,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6551,]  0.6474051749  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [6552,]  1.7797444050  0.779693957  2.7038248 -0.9331190  1.8243470
##   [6553,] -0.4849340552  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6554,] -1.2775715163  0.293823983  2.7038248 -0.1327341  1.8243470
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##   [6556,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [6558,] -1.0511036702 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [6565,] -1.2775715163 -1.245764000  2.7038248  1.4680355  1.8243470
##   [6566,]  0.0812355598 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6567,]  1.2135747899 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6568,] -0.7114019012 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6569,] -0.0319983632 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [6570,]  1.4400426359  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6571,] -1.2096311624  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6572,] -0.4849340552 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [6575,] -0.4849340552  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6576,] -1.1077206317 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6577,]  0.0812355598 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6578,]  0.6474051749  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6579,] -0.7680188627 -0.631928272  2.7038248  0.6676507  1.8243470
##   [6580,]  0.0812355598  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6581,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6582,]  1.3834256744  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6583,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6584,]  1.2135747899  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6585,]  0.0812355598  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6586,] -0.4849340552 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6587,] -0.9944867087  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6588,] -0.3490533476  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6589,]  2.9120836350 -0.533954491  2.7038248  0.6676507  1.8243470
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##   [6595,] -0.9152229626 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6596,] -0.4905957513 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [6604,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6605,] -0.4849340552 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [6607,]  0.1944694829 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6608,] -0.4849340552 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6609,]  0.4209373289  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6610,] -1.2775715163 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6611,] -0.2584662092  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6612,]  1.7797444050 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6613,] -0.1452322862 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6614,] -1.1643375932  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6615,] -0.2584662092  2.447247695  2.7038248 -1.7335038  1.8243470
##   [6616,] -1.4474224008  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [6620,] -0.5302276244 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6621,]  1.2135747899  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6622,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6623,] -0.4849340552  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6624,] -0.8246358242 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6625,]  0.6474051749  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6626,]  0.3077034059  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6627,]  1.7797444050  0.001902106  2.7038248 -0.1327341  1.8243470
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##   [6629,]  1.7797444050  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6630,] -0.4849340552  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6631,] -0.5302276244  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6632,] -1.0511036702 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6633,] -1.2775715163 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [6635,] -1.5040393623  0.293823983  2.7038248 -0.1327341  1.8243470
##   [6636,] -0.2584662092  0.975641518  2.7038248 -0.9331190  1.8243470
##   [6637,]  0.6474051749 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6638,] -0.5415510167 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6639,]  0.7606390979  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6640,] -0.4849340552 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6641,]  1.7797444050  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6642,]  0.4209373289  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [6645,]  0.3529969751  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6646,]  0.1944694829 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6647,]  0.5794648211 -1.371730290  2.7038248  1.4680355  1.8243470
##   [6648,]  0.1944694829 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [6651,]  0.2850566213  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6652,]  2.9120836350 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6653,] -0.1452322862 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [6654,] -1.2209545547 -0.729902052  2.7038248  0.6676507  1.8243470
##   [6655,] -0.9378697472  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [6657,]  0.6955295922  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6658,] -0.2584662092  0.975641518  2.7038248 -0.9331190  1.8243470
##   [6659,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [6667,]  2.1873865278  1.169589615  2.7038248 -0.9331190  1.8243470
##   [6668,] -0.7114019012  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6669,] -0.3717001322  0.975641518  2.7038248 -0.9331190 -0.5481372
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```

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##   [6673,]  0.0812355598  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [6681,]  0.1944694829  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [6683,] -0.4849340552  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [6685,]  2.3459140200  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [6687,] -0.9378697472  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [6691,] -0.7114019012 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [6695,]  0.0812355598 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [6710,] -0.7793422550  0.975641518  2.7038248 -0.9331190  1.8243470
##   [6711,]  0.8738730209  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6712,] -1.0737504548 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6713,] -0.8812527857 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6714,] -0.9463622915  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6715,] -0.3717001322 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6716,] -0.4849340552  2.639196326  2.7038248 -1.7335038  1.8243470
##   [6717,]  1.4400426359 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6718,]  2.6629690044 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6719,]  0.7606390979  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6720,] -0.7114019012 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6721,]  0.0812355598 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6722,] -0.0319983632  1.169589615  2.7038248 -0.9331190  1.8243470
##   [6723,]  2.3459140200  1.655459589  2.7038248 -0.9331190  1.8243470
##   [6724,] -1.1643375932 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6725,]  0.6474051749 -1.245764000  2.7038248  1.4680355  1.8243470
##   [6726,] -1.1360291125 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6727,]  1.7259582915 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6728,]  0.8738730209 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6729,]  0.1944694829  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6730,]  0.5341712519 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6731,] -0.5981679782  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6732,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6733,]  0.5341712519  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6734,] -1.0737504548  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6735,] -1.0511036702  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6736,] -0.2584662092  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6737,] -0.4849340552  0.293823983  2.7038248 -0.1327341  1.8243470
##   [6738,] -0.8359592165 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6739,]  2.0062122510 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6740,]  0.8738730209  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6741,]  1.7797444050  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6742,] -0.4849340552  0.293823983  2.7038248 -0.1327341  1.8243470
##   [6743,]  0.1944694829  0.487772080  2.7038248 -0.1327341  1.8243470
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##   [6745,] -0.9378697472 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6746,] -0.2584662092  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6747,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6748,]  0.0812355598  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6749,] -0.7114019012 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [6751,] -0.2811129938 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6752,]  0.3077034059 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6753,] -0.5302276244  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6754,] -1.2096311624 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6755,] -0.1452322862 -1.371730290  2.7038248  1.4680355  1.8243470
##   [6756,]  1.7797444050  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [6757,]  2.3459140200 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6758,] -0.9378697472 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6759,] -1.3908054393  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6760,]  0.3077034059  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6761,] -0.1452322862  0.099875887  2.7038248 -0.1327341  1.8243470
##   [6762,] -0.8246358242 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6763,] -1.2775715163 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [6764,] -0.4849340552  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6765,] -0.3717001322  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6766,] -1.2096311624 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6767,]  0.0812355598 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6768,]  0.0812355598  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6771,]  1.2135747899  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6772,] -1.3681586547  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [6773,] -0.9378697472 -1.245764000  2.7038248  1.4680355  1.8243470
##   [6774,] -0.5981679782  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6775,] -1.2775715163 -0.631928272  2.7038248  0.6676507  1.8243470
##   [6776,] -0.4849340552  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6777,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [6778,] -0.5415510167 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6779,] -1.0511036702  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [6780,]  0.1944694829  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6781,] -1.2775715163 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6782,] -1.0511036702 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6783,] -0.7906656473 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6784,]  0.0132952060 -0.533954491  2.7038248  0.6676507  1.8243470
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##   [6786,] -0.3490533476  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6787,]  0.6474051749 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [6790,] -1.3341884778  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [6793,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6794,]  2.3459140200  0.779693957  2.7038248 -0.9331190  1.8243470
##   [6795,] -0.9378697472  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [6800,]  1.7797444050  1.169589615  2.7038248 -0.9331190  1.8243470
##   [6801,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [6802,]  0.9644601593  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6803,]  0.7606390979  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6804,] -1.0511036702  1.169589615  2.7038248 -0.9331190  1.8243470
##   [6805,]  1.1739429169  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6807,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6808,]  0.6474051749 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6809,]  0.5341712519 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [6810,] -0.7114019012 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6811,]  1.2135747899  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [6817,] -0.4849340552  2.253299598  2.7038248 -1.7335038 -0.5481372
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##   [6819,] -1.3908054393 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6820,] -0.9350388992  0.487772080  2.7038248 -0.1327341  1.8243470
##   [6821,]  2.9120836350 -1.499696044  2.7038248  1.4680355  1.8243470
##   [6822,] -0.2584662092  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6823,] -0.8246358242  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6824,]  0.0812355598  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [6825,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6826,]  0.6474051749  1.655459589  2.7038248 -0.9331190  1.8243470
##   [6827,] -0.3235757149  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [6828,] -0.9831633164 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6829,] -0.4849340552  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [6830,] -0.0319983632  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6831,] -0.5981679782  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [6832,]  1.7797444050  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [6833,] -0.8812527857  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6834,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6835,] -0.4849340552  2.253299598  2.7038248 -1.7335038  1.8243470
##   [6836,]  0.4209373289  1.655459589  2.7038248 -0.9331190  1.8243470
##   [6837,]  1.2135747899  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [6838,]  2.3459140200  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [6839,]  1.2135747899 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6840,] -0.4849340552 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6841,]  1.2815151437 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6842,] -1.0511036702  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6843,]  2.0062122510 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6844,]  1.7797444050  1.363537712  2.7038248 -0.9331190  1.8243470
##   [6845,] -1.0511036702 -1.121797175  2.7038248  1.4680355  1.8243470
##   [6846,]  0.1944694829  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6847,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6848,] -0.4849340552 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6849,] -0.9378697472  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [6857,] -1.0511036702  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [6864,] -0.8246358242  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6865,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [6872,] -0.3717001322  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6873,]  0.0812355598 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6874,] -1.4474224008 -1.651655377  2.7038248  1.4680355 -0.5481372
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##   [6879,]  0.6474051749 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [6889,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6890,]  0.5568180365 -0.827875833  2.7038248  0.6676507  1.8243470
##   [6891,]  0.7606390979  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [6903,] -0.8246358242 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6904,] -1.2096311624 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [6905,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [6906,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [6907,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6908,]  1.5532765589 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [6909,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [6910,]  0.8738730209 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6911,] -0.6547849397 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [6912,] -0.7114019012  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [6914,]  1.9127942645 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [6915,] -0.5981679782 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6916,]  1.2135747899  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [6918,]  0.6474051749 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [6919,]  0.4209373289  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6920,] -1.3908054393 -1.499696044  2.7038248  1.4680355  1.8243470
##   [6921,]  0.6474051749  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [6922,] -1.1416908086  0.487772080  2.7038248 -0.1327341  1.8243470
##   [6923,]  0.3077034059  3.414988712  2.7038248 -2.5338886 -0.5481372
##   [6924,] -0.9378697472  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [6925,]  0.6474051749  0.001902106  2.7038248 -0.1327341  1.8243470
##   [6926,]  0.6474051749  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [6932,]  1.7797444050  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [6937,] -0.2584662092 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [6938,] -0.4849340552 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [6941,]  1.7797444050  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6942,]  2.9120836350 -0.318012280  2.7038248  0.6676507  1.8243470
##   [6943,]  0.6474051749 -0.533954491  2.7038248  0.6676507  1.8243470
##   [6944,]  2.9120836350 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [6945,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [6947,] -0.2075109438 -1.651655377  2.7038248  1.4680355 -0.5481372
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##   [6961,] -1.0511036702 -0.827875833  2.7038248  0.6676507  1.8243470
##   [6962,] -1.3341884778 -1.371730290  2.7038248  1.4680355  1.8243470
##   [6963,] -0.5415510167  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [6967,] -0.1452322862 -1.499696044  2.7038248  1.4680355 -0.5481372
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##   [6969,] -1.3908054393  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [6970,] -0.6547849397  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [6971,] -0.9378697472 -1.121797175  2.7038248  1.4680355  1.8243470
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##   [6975,]  2.9120836350  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [6988,] -1.1643375932  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [6997,]  1.5532765589  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [7001,]  0.6474051749 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [7003,]  0.1944694829  3.029091984  2.7038248 -2.5338886 -0.5481372
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##   [7025,]  1.2135747899  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [7028,]  0.7606390979 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [7038,] -0.9831633164  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [7043,]  2.4591479430 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [7044,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7045,]  1.2135747899  1.655459589  2.7038248 -0.9331190  1.8243470
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```

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##   [7070,]  0.6474051749 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [7071,]  0.4209373289  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [7073,]  1.1003408669  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [7077,] -1.2775715163 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7078,] -0.4849340552 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7099,]  0.1944694829  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7100,] -0.2584662092 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7101,] -1.2775715163 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [7102,] -0.4849340552 -0.318012280  2.7038248  0.6676507  1.8243470
##   [7103,] -1.4813925777  1.865403405  2.7038248 -1.7335038  1.8243470
##   [7104,] -1.0511036702 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [7110,] -1.4813925777  1.169589615  2.7038248 -0.9331190  1.8243470
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##   [7114,] -0.7114019012  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [7116,]  2.9120836350 -0.533954491  2.7038248  0.6676507  1.8243470
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##   [7119,] -1.0511036702 -0.827875833  2.7038248  0.6676507  1.8243470
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##   [7121,] -0.8246358242 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [7125,] -1.0511036702  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [7126,]  0.6474051749  2.059351501  2.7038248 -1.7335038 -0.5481372
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##   [7147,]  0.0812355598 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [7156,] -0.0319983632 -1.245764000  2.7038248  1.4680355 -0.5481372
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##   [7158,] -0.7114019012 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7159,]  0.1944694829  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7160,]  2.9120836350 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [7164,] -1.3455118701  0.487772080  2.7038248 -0.1327341  1.8243470
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##   [7182,] -0.5981679782 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [7219,] -0.7114019012 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [7237,]  2.9120836350 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [7240,] -1.1643375932 -0.827875833  2.7038248  0.6676507 -0.5481372
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```

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##   [7291,] -0.7114019012  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [7292,]  0.0812355598 -1.245764000  2.7038248  1.4680355  1.8243470
##   [7293,]  0.6474051749 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [7294,] -0.0319983632 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7295,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [7296,]  0.0812355598  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7297,] -0.2584662092 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [7298,]  1.3268087129 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7303,] -1.0511036702 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [7304,] -0.2584662092  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [7307,] -1.1643375932 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7308,]  0.6474051749 -1.245764000  2.7038248  1.4680355 -0.5481372
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##   [7310,]  0.4379224173 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [7316,] -0.9378697472 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7317,] -0.4849340552  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7318,] -1.0511036702 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7340,] -0.4849340552 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [7348,] -1.3908054393  0.487772080  2.7038248 -0.1327341  1.8243470
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##   [7350,] -1.0511036702 -1.245764000  2.7038248  1.4680355  1.8243470
##   [7351,] -0.0772919324  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [7352,]  0.3614895193 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [7353,] -0.7114019012 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [7354,]  1.7797444050  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [7355,] -1.1643375932  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [7356,] -1.2209545547  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [7357,] -1.2775715163  0.487772080  2.7038248 -0.1327341  1.8243470
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##   [7359,]  0.1944694829 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7360,]  0.0812355598 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [7372,] -0.8472826088  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [7390,] -0.3717001322  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [7391,]  0.3077034059 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [7392,]  0.1944694829 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7396,] -1.1416908086  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7397,]  0.6474051749 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [7411,] -0.4849340552 -0.729902052  2.7038248  0.6676507  1.8243470
##   [7412,]  1.2135747899  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7413,] -1.0737504548  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7414,]  0.6474051749 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7415,]  0.6474051749  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [7417,] -0.8246358242  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [7418,] -1.2209545547  0.001902106  2.7038248 -0.1327341  1.8243470
##   [7419,] -1.0511036702 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [7425,] -0.4849340552  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [7428,] -0.3490533476 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [7429,]  0.1944694829  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [7436,] -0.9831633164 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [7438,] -1.0511036702 -1.121797175  2.7038248  1.4680355 -0.5481372
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```

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##   [7485,] -1.0511036702 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [7486,] -1.1643375932  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7487,] -1.0511036702  0.001902106  2.7038248 -0.1327341  1.8243470
##   [7488,] -1.4644074892  0.975641518  2.7038248 -0.9331190  1.8243470
##   [7489,]  0.0812355598  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7490,]  0.4209373289 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [7491,] -1.0511036702 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7492,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7493,] -0.4849340552 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [7494,]  0.8285794517 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [7495,]  1.7797444050  0.779693957  2.7038248 -0.9331190  1.8243470
##   [7496,] -0.5981679782  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [7497,]  2.3544065642 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7498,] -0.4849340552 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [7500,] -0.2584662092 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [7502,] -1.3455118701  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7503,]  0.0246185983  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [7505,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7506,] -1.0511036702 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [7507,] -0.8246358242 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7508,]  2.9120836350 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7509,] -0.1452322862  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7510,]  0.0812355598  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [7511,] -0.4849340552 -0.631928272  2.7038248  0.6676507  1.8243470
##   [7512,] -0.4849340552  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [7513,]  2.9120836350 -0.533954491  2.7038248  0.6676507  1.8243470
##   [7514,] -0.9378697472  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7515,]  1.7797444050 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [7516,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [7517,] -1.0765813029  0.099875887  2.7038248 -0.1327341  1.8243470
##   [7518,] -1.4474224008  0.099875887  2.7038248 -0.1327341  1.8243470
##   [7519,] -0.4849340552  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [7520,] -1.5040393623  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [7521,] -0.4849340552  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [7523,]  1.3834256744 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [7524,]  0.1944694829  1.363537712  2.7038248 -0.9331190  1.8243470
##   [7525,] -0.8812527857 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7526,] -0.8699293934  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7527,] -0.4849340552  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7528,] -0.0319983632 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7529,]  0.1944694829  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [7530,] -1.2209545547  1.655459589  2.7038248 -0.9331190  1.8243470
##   [7531,] -0.4849340552  2.253299598  2.7038248 -1.7335038  1.8243470
##   [7532,]  1.7797444050  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [7533,]  2.3459140200  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [7536,] -0.5302276244 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [7537,] -1.0511036702 -0.729902052  2.7038248  0.6676507  1.8243470
##   [7538,] -0.4849340552 -1.121797175  2.7038248  1.4680355  1.8243470
##   [7539,]  1.4626894205  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [7540,]  0.6474051749  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7541,]  0.6474051749  0.975641518  2.7038248 -0.9331190  1.8243470
##   [7542,]  1.2135747899 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7543,] -1.3455118701  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [7545,] -1.0511036702  0.001902106  2.7038248 -0.1327341  1.8243470
##   [7546,] -0.7114019012  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7547,]  0.8738730209  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7548,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [7549,] -0.7114019012 -0.729902052  2.7038248  0.6676507  1.8243470
##   [7550,]  0.0812355598  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [7551,] -1.0737504548 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7552,]  0.4209373289 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [7553,]  2.3459140200 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [7555,]  1.2135747899  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7556,]  0.6474051749 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7557,] -1.1728301375 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [7561,] -1.0511036702  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7562,] -0.9378697472  2.059351501  2.7038248 -1.7335038  1.8243470
##   [7563,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7564,] -1.0511036702 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [7565,] -0.4849340552  1.169589615  2.7038248 -0.9331190  1.8243470
##   [7566,] -0.7114019012  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7567,] -0.7680188627  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [7568,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [7569,]  2.3459140200 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [7570,] -0.4849340552 -1.371730290  2.7038248  1.4680355  1.8243470
##   [7571,] -1.2775715163  0.293823983  2.7038248 -0.1327341  1.8243470
##   [7572,]  1.2135747899 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7573,] -0.0319983632 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7574,]  1.1003408669 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [7575,] -0.4849340552 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [7577,]  2.0062122510  0.293823983  2.7038248 -0.1327341  1.8243470
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##   [7580,] -0.7029093570  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [7581,] -0.8246358242 -1.245764000  2.7038248  1.4680355  1.8243470
##   [7582,]  0.6474051749 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [7584,] -0.3717001322  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [7585,] -0.7680188627 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7586,]  2.3459140200  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7587,] -0.7114019012  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7588,] -0.7114019012  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7589,] -1.1077206317  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7590,] -0.4849340552 -1.121797175  2.7038248  1.4680355  1.8243470
##   [7591,] -0.7114019012 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7592,] -0.7680188627 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7593,]  2.7309093582 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7594,] -1.2775715163 -1.121797175  2.7038248  1.4680355  1.8243470
##   [7595,] -1.2775715163 -0.827875833  2.7038248  0.6676507  1.8243470
##   [7596,]  1.5532765589  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [7598,] -0.2584662092 -1.245764000  2.7038248  1.4680355  1.8243470
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##   [7600,]  0.4209373289  0.975641518  2.7038248 -0.9331190  1.8243470
##   [7601,] -0.8246358242 -0.533954491  2.7038248  0.6676507  1.8243470
##   [7602,]  1.2135747899 -1.371730290  2.7038248  1.4680355  1.8243470
##   [7603,]  1.7797444050  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [7604,]  1.2135747899  0.293823983  2.7038248 -0.1327341  1.8243470
##   [7605,]  2.3232672354 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [7606,] -1.0511036702  1.363537712  2.7038248 -0.9331190  1.8243470
##   [7607,] -0.4849340552  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7608,] -1.0511036702 -0.631928272  2.7038248  0.6676507  1.8243470
##   [7609,]  1.7231274435  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7610,] -1.1643375932  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7611,] -0.9378697472  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7612,] -0.9378697472 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7613,] -1.3341884778 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7614,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7615,] -0.3348991072  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7616,]  0.1944694829 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7617,] -0.0319983632  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7618,] -1.2775715163 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7619,] -0.4849340552 -0.533954491  2.7038248  0.6676507  1.8243470
##   [7620,] -1.1077206317  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [7621,]  2.9120836350 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7622,] -0.4396404860 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7626,] -1.1643375932 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [7627,]  0.7606390979  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7628,]  0.6474051749  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [7629,] -1.4587457931  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7630,]  0.6474051749 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7631,]  0.6474051749 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [7632,]  1.2135747899 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [7633,]  0.6474051749  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7634,] -1.0511036702  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7635,] -1.3908054393 -0.729902052  2.7038248  0.6676507  1.8243470
##   [7636,] -1.1077206317  0.001902106  2.7038248 -0.1327341  1.8243470
##   [7637,] -1.0511036702 -0.318012280  2.7038248  0.6676507  1.8243470
##   [7638,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7639,]  0.6474051749 -0.827875833  2.7038248  0.6676507  1.8243470
##   [7640,]  1.7797444050  0.293823983  2.7038248 -0.1327341  1.8243470
##   [7641,] -1.0511036702 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7644,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [7645,]  0.9191665901 -1.245764000  2.7038248  1.4680355  1.8243470
##   [7646,] -1.1077206317 -1.121797175  2.7038248  1.4680355  1.8243470
##   [7647,] -0.9378697472 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7648,]  0.0812355598 -0.318012280  2.7038248  0.6676507  1.8243470
##   [7649,] -1.2775715163  0.293823983  2.7038248 -0.1327341  1.8243470
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```

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##   [7654,]  2.0062122510  0.293823983  2.7038248 -0.1327341  1.8243470
##   [7655,]  0.0812355598  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7656,]  2.1194461740  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [7657,] -0.5302276244  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [7658,]  0.8738730209 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [7659,] -1.2096311624 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [7660,] -0.7114019012 -1.121797175  2.7038248  1.4680355  1.8243470
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##   [7663,] -0.4849340552  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7664,]  1.7797444050  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7665,] -0.7680188627  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7666,]  1.1003408669 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7671,] -0.6547849397 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7672,] -1.5040393623 -1.651655377  2.7038248  1.4680355  1.8243470
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##   [7683,] -0.9944867087  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [7689,] -0.7114019012  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [7690,] -0.2584662092 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7691,]  0.1944694829 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [7707,] -0.4849340552  3.029091984  2.7038248 -2.5338886  1.8243470
##   [7708,] -0.4849340552 -0.827875833  2.7038248  0.6676507  1.8243470
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##   [7744,] -0.7114019012  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7745,]  0.0812355598  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [7746,]  0.8285794517 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7747,] -1.0511036702 -1.499696044  2.7038248  1.4680355 -0.5481372
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##   [7760,]  0.6474051749  2.059351501  2.7038248 -1.7335038 -0.5481372
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##   [7766,] -0.4849340552  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [7771,] -0.9378697472 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [7772,]  0.6474051749 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [7827,]  2.9120836350  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [7828,] -1.2775715163 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [7873,] -0.1225855016  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7874,] -1.1813226817 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7877,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [7878,]  1.5532765589 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [7879,]  1.1003408669  0.487772080  2.7038248 -0.1327341  1.8243470
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##   [7882,]  1.1003408669 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [7883,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [7884,]  0.1944694829  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [7885,] -0.1452322862 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [7886,]  1.5532765589  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [7887,] -1.2775715163 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [7903,] -0.9944867087 -1.651655377  2.7038248  1.4680355 -0.5481372
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##   [7905,] -0.0319983632  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [7940,] -0.2018492477 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [7941,] -0.4849340552 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [7942,] -1.0511036702  0.099875887  2.7038248 -0.1327341  1.8243470
##   [7943,] -0.4849340552  2.639196326  2.7038248 -1.7335038  1.8243470
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##   [7948,] -1.4474224008 -0.631928272  2.7038248  0.6676507  1.8243470
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##   [7962,]  0.0812355598  2.639196326  2.7038248 -1.7335038 -0.5481372
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##   [7966,] -1.2209545547 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7975,] -0.7114019012 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [7979,] -0.9378697472  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [7980,]  1.1003408669  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [7982,]  1.1003408669 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [8003,]  0.7606390979  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [8004,]  0.0812355598 -0.631928272  2.7038248  0.6676507  1.8243470
##   [8005,]  0.6474051749  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [8007,] -0.1225855016  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [8009,]  0.0812355598  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [8024,] -0.2584662092 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [8038,] -1.1643375932 -1.245764000  2.7038248  1.4680355 -0.5481372
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##   [8052,]  0.1944694829  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [8067,] -0.4849340552  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [8069,] -1.0511036702 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [8072,]  2.9120836350 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [8074,]  2.9120836350  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [8075,]  0.5681414288  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [8076,] -1.0511036702 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [8077,] -1.1643375932 -0.533954491  2.7038248  0.6676507  1.8243470
##   [8078,]  0.6615594153 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [8079,]  0.0812355598  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [8080,] -0.4849340552 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [8081,] -0.0319983632 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [8082,] -0.9378697472 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [8084,] -0.9944867087  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [8095,]  1.7797444050 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [8096,]  0.6474051749  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [8097,]  1.7797444050  3.029091984  2.7038248 -2.5338886 -0.5481372
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##   [8100,]  1.1003408669  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [8101,]  1.2135747899  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [8102,]  1.1003408669  0.779693957  2.7038248 -0.9331190  1.8243470
##   [8103,]  0.2737332290 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [8104,] -1.2747406682 -1.371730290  2.7038248  1.4680355  1.8243470
##   [8105,]  2.0062122510  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [8106,] -0.4283170937  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [8107,]  0.4209373289 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [8111,] -0.5981679782  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [8132,]  2.9120836350  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [8133,]  0.4209373289  0.001902106  2.7038248 -0.1327341  1.8243470
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##   [8135,]  1.2135747899  0.001902106  2.7038248 -0.1327341  1.8243470
##   [8136,]  0.3529969751  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [8137,]  0.2510864444 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8138,] -0.4849340552  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [8139,]  2.0062122510 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [8143,] -0.7114019012 -1.651655377  2.7038248  1.4680355  1.8243470
##   [8144,]  1.7797444050  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [8145,]  0.0812355598 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [8147,] -1.1643375932  0.099875887  2.7038248 -0.1327341  1.8243470
##   [8148,] -0.7114019012 -0.729902052  2.7038248  0.6676507  1.8243470
##   [8149,] -0.9378697472 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8150,] -0.1678790708 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [8151,] -1.0511036702  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [8154,]  0.3077034059  0.001902106  2.7038248 -0.1327341  1.8243470
##   [8155,]  1.7797444050 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [8156,] -1.0511036702 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [8157,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [8158,] -1.0511036702  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [8159,]  1.1003408669  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [8160,] -1.4813925777 -0.827875833  2.7038248  0.6676507  1.8243470
##   [8161,] -0.9378697472 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [8162,] -0.9378697472  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [8164,] -0.4849340552  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [8168,]  0.6474051749  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [8170,]  0.1944694829 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [8172,]  0.0812355598 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [8173,]  0.0812355598 -0.729902052  2.7038248  0.6676507  1.8243470
##   [8174,]  0.6474051749 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [8176,]  0.4209373289 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [8177,] -0.8246358242  0.487772080  2.7038248 -0.1327341  1.8243470
##   [8178,]  1.1003408669  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [8179,]  0.0812355598 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [8180,] -0.7114019012 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8181,] -0.2584662092 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [8182,]  0.0812355598  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [8183,] -0.7114019012  1.363537712  2.7038248 -0.9331190  1.8243470
##   [8184,] -0.5415510167  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [8185,] -0.9378697472 -0.533954491  2.7038248  0.6676507  1.8243470
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##   [8189,]  1.5532765589 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [8190,] -0.4849340552 -1.121797175  2.7038248  1.4680355  1.8243470
##   [8191,] -0.4849340552 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8192,] -1.0511036702  0.001902106  2.7038248 -0.1327341  1.8243470
##   [8193,]  0.9191665901  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [8194,] -0.2584662092  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [8195,] -1.0963972394  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [8196,] -0.3717001322 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [8198,] -1.0511036702  1.285558580  2.7038248 -0.9331190 -0.5481372
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##   [8214,] -1.1643375932  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [8216,] -0.9491931395 -1.499696044  2.7038248  1.4680355 -0.5481372
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##   [8223,] -0.0319983632 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [8224,]  2.3459140200  0.293823983  2.7038248 -0.1327341 -0.5481372
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```

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##   [8248,] -0.9944867087 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [8249,] -1.3455118701 -0.827875833  2.7038248  0.6676507  1.8243470
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##   [8294,] -1.1643375932 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [8295,] -0.0319983632 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8296,]  0.6474051749  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [8297,] -0.4849340552  1.363537712  2.7038248 -0.9331190  1.8243470
##   [8298,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [8304,] -0.9378697472 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [8305,]  2.0062122510  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [8309,] -1.0511036702 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [8315,] -1.0737504548  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [8334,]  1.7797444050  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [8335,] -0.9378697472 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [8373,]  2.0062122510 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [8392,]  0.6474051749  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [8393,]  2.0062122510  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [8395,] -1.0737504548 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [8416,] -0.2584662092 -1.245764000  2.7038248  1.4680355  1.8243470
##   [8417,]  2.9120836350 -1.651655377  2.7038248  1.4680355  1.8243470
##   [8418,] -0.2584662092 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [8419,] -1.2096311624  1.169589615  2.7038248 -0.9331190  1.8243470
##   [8420,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [8422,] -0.7114019012 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [8427,]  0.1944694829  0.487772080  2.7038248 -0.1327341 -0.5481372
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```

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##   [8455,]  0.0812355598 -0.192045991  2.7038248 -0.1327341  1.8243470
##   [8456,]  0.4209373289  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [8457,] -1.1416908086  0.487772080  2.7038248 -0.1327341  1.8243470
##   [8458,] -0.0886153247  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [8459,] -0.4396404860  0.293823983  2.7038248 -0.1327341  1.8243470
##   [8460,] -1.3540044143  1.363537712  2.7038248 -0.9331190  1.8243470
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##   [8462,] -0.5641978013 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [8463,]  0.1774843944  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [8464,] -1.4474224008  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [8467,] -1.3964671354 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [8468,] -0.4849340552  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [8469,] -0.9378697472  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [8470,] -1.2209545547 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [8471,]  1.5051521417  0.779693957  2.7038248 -0.9331190  1.8243470
##   [8472,]  1.2135747899 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [8473,] -0.4849340552 -0.318012280  2.7038248  0.6676507  1.8243470
##   [8474,] -1.1643375932 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [8483,]  1.7797444050  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [8484,] -1.0511036702 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [8485,]  1.1003408669 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8486,]  0.0812355598 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8487,] -1.4474224008 -0.729902052  2.7038248  0.6676507  1.8243470
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##   [8490,] -0.3886852206 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [8491,] -1.1643375932  0.487772080  2.7038248 -0.1327341  1.8243470
##   [8492,]  1.7797444050  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [8493,] -0.2584662092  1.655459589  2.7038248 -0.9331190  1.8243470
##   [8494,] -1.3455118701  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [8495,]  0.0812355598 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [8496,]  1.2135747899  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [8497,]  0.9106740459  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [8498,] -0.2584662092 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [8499,]  2.3459140200  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [8501,] -1.0511036702 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [8509,] -0.8812527857  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [8517,] -0.3717001322 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [8518,] -1.0511036702  0.001902106  2.7038248 -0.1327341  1.8243470
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##   [8536,]  1.2362215745 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [8538,] -1.0511036702  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [8539,] -0.0319983632 -1.499696044  2.7038248  1.4680355 -0.5481372
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##   [8550,]  0.6474051749  0.975641518  2.7038248 -0.9331190  1.8243470
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##   [8552,] -0.9378697472  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [8554,]  2.9120836350 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [8555,] -0.8246358242 -1.245764000  2.7038248  1.4680355  1.8243470
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##   [8565,]  0.4209373289  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [8569,]  1.7797444050 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [8646,] -0.2584662092  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [8658,]  1.7797444050  2.639196326  2.7038248 -1.7335038 -0.5481372
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##   [8663,] -0.4849340552  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [8664,]  0.0812355598  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [8665,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [8705,] -1.2775715163 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [8707,] -0.8246358242 -1.245764000  2.7038248  1.4680355 -0.5481372
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##   [8709,]  2.3459140200  0.487772080  2.7038248 -0.1327341  1.8243470
##   [8710,] -0.4849340552 -0.827875833  2.7038248  0.6676507  1.8243470
##   [8711,] -1.1530142009  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [8721,] -0.8812527857  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [8727,]  1.7797444050 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [8732,]  2.3459140200  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [8743,] -0.3490533476 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8744,]  0.6474051749  1.655459589  2.7038248 -0.9331190  1.8243470
##   [8745,]  2.3459140200 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [8746,]  0.3077034059 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [8747,]  0.1944694829 -1.499696044  2.7038248  1.4680355 -0.5481372
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##   [8763,]  0.0812355598  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [8767,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [8800,] -0.4849340552 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [8816,] -0.9350388992 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [8823,]  0.1944694829  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [8825,] -0.3717001322 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [8839,]  0.6474051749 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [8846,] -0.4849340552 -1.651655377  2.7038248  1.4680355 -0.5481372
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##   [8851,] -0.1452322862 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [8852,] -0.9378697472 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [8853,] -0.1452322862 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [8857,]  1.2135747899 -1.369730825  2.7038248  1.4680355 -0.5481372
##   [8858,]  1.2135747899  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [8859,]  2.0062122510 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [8860,] -1.0511036702 -1.371730290  2.7038248  1.4680355  1.8243470
##   [8861,]  0.6474051749 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [8863,] -1.3908054393 -0.631928272  2.7038248  0.6676507  1.8243470
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##   [8865,]  0.7606390979 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [8875,] -1.1643375932  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [8882,] -1.2719098201 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [8883,] -0.3717001322  0.293823983  2.7038248 -0.1327341  1.8243470
##   [8884,] -0.2018492477 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [8885,] -0.4849340552  0.099875887  2.7038248 -0.1327341  1.8243470
##   [8886,] -0.2584662092 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [8889,] -0.9378697472 -0.827875833  2.7038248  0.6676507  1.8243470
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##   [8891,] -0.2584662092 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [8893,] -0.1452322862 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [8897,] -0.1452322862  1.169589615  2.7038248 -0.9331190 -0.5481372
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##   [8899,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [8902,] -0.1112621093 -0.631928272  2.7038248  0.6676507  1.8243470
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##   [8906,]  2.9120836350 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [8910,] -0.3717001322 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [8921,]  0.3077034059 -0.533954491  2.7038248  0.6676507  1.8243470
##   [8922,]  0.4209373289  1.655459589  2.7038248 -0.9331190  1.8243470
##   [8923,] -0.2584662092  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [8928,] -0.2584662092 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [8930,] -1.3341884778  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [8932,]  1.7797444050  2.253299598  2.7038248 -1.7335038  1.8243470
##   [8933,]  1.5532765589 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [8934,] -0.8019890396 -1.245764000  2.7038248  1.4680355  1.8243470
##   [8935,] -0.8699293934 -0.631928272  2.7038248  0.6676507  1.8243470
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##   [8937,]  0.6474051749 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [8938,] -1.0511036702 -0.729902052  2.7038248  0.6676507  1.8243470
##   [8939,] -1.4587457931  0.487772080  2.7038248 -0.1327341  1.8243470
##   [8940,] -0.7114019012  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [8941,] -0.4849340552  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [8942,] -0.9831633164 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [8943,]  0.6474051749 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [8947,]  0.5568180365  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [8957,]  1.2135747899  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [8958,] -0.8246358242 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [8959,] -0.7114019012  0.099875887  2.7038248 -0.1327341  1.8243470
##   [8960,] -1.0511036702 -0.318012280  2.7038248  0.6676507  1.8243470
##   [8961,]  1.7797444050 -0.533954491  2.7038248  0.6676507  1.8243470
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##   [8963,]  1.4966595974  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [8964,]  0.1944694829  3.029091984  2.7038248 -2.5338886 -0.5481372
##   [8965,]  0.6474051749  1.169589615  2.7038248 -0.9331190  1.8243470
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##   [8967,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [8976,]  1.7797444050 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [8977,]  2.9120836350 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [8978,]  2.3459140200  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [8979,] -0.4849340552  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [8980,] -1.3455118701 -0.729902052  2.7038248  0.6676507  1.8243470
##   [8981,] -0.8925761780  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [8984,] -0.5302276244  1.363537712  2.7038248 -0.9331190 -0.5481372
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##   [8987,]  1.2135747899  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [8996,] -1.1643375932  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [9001,] -0.3717001322 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [9005,] -0.8699293934 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9006,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [9008,]  1.7797444050  2.447247695  2.7038248 -1.7335038  1.8243470
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##   [9010,] -1.1077206317 -1.121797175  2.7038248  1.4680355  1.8243470
##   [9011,] -0.4849340552 -0.827875833  2.7038248  0.6676507  1.8243470
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##   [9021,] -0.7680188627 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [9030,]  0.1944694829  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9031,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9032,] -0.7906656473 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [9033,] -1.1643375932  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9034,]  1.2135747899 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9035,] -0.5981679782  2.253299598  2.7038248 -1.7335038  1.8243470
##   [9036,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9037,]  0.0812355598 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9038,]  2.9120836350 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [9056,]  0.5341712519  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [9057,] -1.0001484049 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [9058,]  2.9120836350 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9059,]  0.3077034059 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9060,] -0.1254163496 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [9061,]  0.6474051749  0.975641518  2.7038248 -0.9331190  1.8243470
##   [9062,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9063,]  0.4209373289  0.779693957  2.7038248 -0.9331190  1.8243470
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##   [9071,] -0.3490533476 -1.371730290  2.7038248  1.4680355 -0.5481372
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##   [9079,]  2.3459140200 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9080,] -0.8246358242  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9081,]  2.3459140200  0.293823983  2.7038248 -0.1327341  1.8243470
##   [9082,] -1.2775715163 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9083,] -0.9378697472 -0.729902052  2.7038248  0.6676507  1.8243470
##   [9084,] -0.7114019012  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [9085,]  1.5532765589  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9086,]  0.1944694829 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9087,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [9088,] -1.3341884778 -1.121797175  2.7038248  1.4680355  1.8243470
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##   [9100,]  0.7606390979 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [9101,]  0.4209373289  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [9102,] -0.8246358242  1.363537712  2.7038248 -0.9331190  1.8243470
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##   [9115,] -0.5075808398 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [9117,]  1.2135747899  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9118,] -0.4849340552 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9119,]  0.0812355598  0.487772080  2.7038248 -0.1327341  1.8243470
##   [9120,] -1.2775715163  1.169589615  2.7038248 -0.9331190  1.8243470
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##   [9122,]  1.1003408669  2.447247695  2.7038248 -1.7335038  1.8243470
##   [9123,] -1.3341884778  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9124,] -0.4849340552  0.099875887  2.7038248 -0.1327341  1.8243470
##   [9125,]  0.4209373289 -1.121797175  2.7038248  1.4680355  1.8243470
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##   [9127,]  0.0812355598 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9128,] -0.4849340552 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [9130,]  0.0812355598 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [9136,] -0.4283170937 -0.827875833  2.7038248  0.6676507 -0.5481372
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##   [9147,] -0.4849340552  0.779693957  2.7038248 -0.9331190 -0.5481372
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##   [9154,]  1.2135747899  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [9226,]  0.1944694829 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [9278,]  0.1944694829  0.975641518  2.7038248 -0.9331190 -0.5481372
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##   [9294,] -0.2584662092  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [9419,]  1.2135747899  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [9420,] -0.0319983632 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9421,]  0.6474051749 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9422,]  0.0812355598 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [9423,]  0.1944694829  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [9424,] -0.2584662092 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [9425,]  0.6474051749 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [9426,] -0.3717001322 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9427,]  1.2135747899 -0.318012280  2.7038248  0.6676507  1.8243470
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##   [9431,] -0.8246358242 -0.827875833  2.7038248  0.6676507  1.8243470
##   [9432,] -1.0511036702  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9433,] -1.2775715163  0.099875887  2.7038248 -0.1327341  1.8243470
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##   [9436,]  0.0812355598 -0.631928272  2.7038248  0.6676507  1.8243470
##   [9437,]  0.6474051749  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [9438,]  0.1944694829  0.293823983  2.7038248 -0.1327341 -0.5481372
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##   [9440,] -0.4849340552  0.001902106  2.7038248 -0.1327341  1.8243470
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##   [9448,]  0.8738730209  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9449,]  0.6474051749  0.293823983  2.7038248 -0.1327341  1.8243470
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##   [9451,] -0.6887551166  2.059351501  2.7038248 -1.7335038  1.8243470
##   [9452,] -0.7680188627 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [9462,]  0.0812355598 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [9463,]  1.3268087129 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9464,]  2.9120836350  0.487772080  2.7038248 -0.1327341  1.8243470
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##   [9466,] -1.4785617296  0.293823983  2.7038248 -0.1327341  1.8243470
##   [9467,] -1.0511036702 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9468,] -1.2775715163 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9469,] -0.0886153247 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9470,]  1.1003408669  2.639196326  2.7038248 -1.7335038  1.8243470
##   [9471,]  0.3077034059 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9472,] -0.5981679782  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9473,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [9474,] -0.4849340552 -1.121797175  2.7038248  1.4680355  1.8243470
##   [9475,] -0.2584662092  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [9476,] -1.0737504548  0.001902106  2.7038248 -0.1327341  1.8243470
##   [9477,]  2.3459140200 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9478,] -1.3908054393 -0.729902052  2.7038248  0.6676507  1.8243470
##   [9479,]  1.2135747899  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [9480,]  0.6219275422  1.655459589  2.7038248 -0.9331190 -0.5481372
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##   [9482,] -0.7114019012 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [9484,]  1.6410328493 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [9495,] -0.8925761780  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [9501,] -0.2584662092  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [9502,]  0.5341712519  2.447247695  2.7038248 -1.7335038 -0.5481372
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##   [9507,] -0.8472826088  0.779693957  2.7038248 -0.9331190  1.8243470
##   [9508,] -1.1643375932 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9509,]  2.9120836350 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9510,]  1.7797444050 -0.827875833  2.7038248  0.6676507  1.8243470
##   [9511,]  0.0812355598  2.639196326  2.7038248 -1.7335038 -0.5481372
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##   [9515,]  2.3459140200  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [9516,] -1.1416908086  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9517,] -1.3908054393  0.001902106  2.7038248 -0.1327341  1.8243470
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##   [9519,]  0.6474051749 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9520,]  1.5532765589  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [9521,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [9522,]  0.0812355598 -1.245764000  2.7038248  1.4680355 -0.5481372
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##   [9524,]  1.2135747899 -0.727902588  2.7038248  0.6676507 -0.5481372
##   [9525,] -0.2584662092 -0.318012280  2.7038248  0.6676507  1.8243470
##   [9526,] -1.2209545547 -1.369730825  2.7038248  1.4680355 -0.5481372
##   [9527,] -0.4849340552 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [9530,] -1.0511036702 -0.631928272  2.7038248  0.6676507 -0.5481372
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##   [9532,]  0.1944694829 -0.192045991  2.7038248 -0.1327341 -0.5481372
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##   [9537,] -0.4849340552 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [9538,]  0.6474051749  0.293823983  2.7038248 -0.1327341  1.8243470
##   [9539,]  0.4209373289  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [9540,] -0.4849340552 -1.245764000  2.7038248  1.4680355  1.8243470
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##   [9543,] -0.9378697472 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9544,] -1.2209545547 -1.245764000  2.7038248  1.4680355  1.8243470
##   [9545,] -1.0511036702  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9546,]  2.9120836350 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9547,]  1.2135747899  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [9548,]  0.0812355598  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [9550,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9551,]  0.6474051749 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9552,] -0.7114019012 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9553,]  0.6474051749 -1.245764000  2.7038248  1.4680355 -0.5481372
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##   [9555,] -0.2584662092 -0.533954491  2.7038248  0.6676507 -0.5481372
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##   [9584,]  0.8738730209  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [9585,] -0.4849340552  1.655459589  2.7038248 -0.9331190  1.8243470
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##   [9609,]  0.3077034059  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [9610,]  1.2135747899 -0.533954491  2.7038248  0.6676507 -0.5481372
```

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```

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##   [9807,]  0.6474051749 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9808,] -1.5040393623  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [9809,]  1.5532765589  0.975641518  2.7038248 -0.9331190  1.8243470
##   [9810,] -0.3490533476 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9811,] -0.7566954704 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [9812,] -0.4283170937 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9813,] -1.0737504548 -0.631928272  2.7038248  0.6676507 -0.5481372
##   [9814,] -1.2775715163 -0.533954491  2.7038248  0.6676507  1.8243470
##   [9815,]  0.0812355598 -0.727902588  2.7038248  0.6676507 -0.5481372
##   [9816,]  0.8738730209 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9817,]  0.1944694829  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [9818,] -0.4849340552 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9819,]  0.6474051749  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [9820,]  1.2135747899 -1.245764000  2.7038248  1.4680355  1.8243470
##   [9821,] -1.1643375932  0.975641518  2.7038248 -0.9331190  1.8243470
##   [9822,] -0.9378697472 -0.827875833  2.7038248  0.6676507  1.8243470
##   [9823,] -0.2584662092  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9824,] -1.0511036702 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [9825,] -0.9378697472 -1.499696044  2.7038248  1.4680355  1.8243470
##   [9826,] -0.7114019012  1.285558580  2.7038248 -0.9331190 -0.5481372
##   [9827,] -0.8019890396 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9828,] -0.8246358242 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9829,]  0.6474051749  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [9830,] -1.4360990085 -1.121797175  2.7038248  1.4680355  1.8243470
##   [9831,]  0.6474051749 -0.729902052  2.7038248  0.6676507 -0.5481372
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##   [9833,] -1.2209545547  0.487772080  2.7038248 -0.1327341  1.8243470
##   [9834,] -0.9378697472 -1.371730290  2.7038248  1.4680355  1.8243470
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##   [9836,] -0.2584662092  1.285558580  2.7038248 -0.9331190 -0.5481372
##   [9837,] -0.4849340552 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9838,] -1.3908054393 -0.533954491  2.7038248  0.6676507  1.8243470
##   [9839,] -0.2584662092 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9840,] -0.7114019012 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [9841,]  2.9120836350  0.003901571  2.7038248 -0.1327341 -0.5481372
##   [9842,] -0.4849340552 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [9843,] -1.0737504548 -1.371730290  2.7038248  1.4680355  1.8243470
##   [9844,] -0.7114019012 -1.119797711  2.7038248  1.4680355 -0.5481372
##   [9845,]  0.2935491655  2.545221475  2.7038248 -1.7335038 -0.5481372
##   [9846,] -0.7114019012 -0.533954491  2.7038248  0.6676507  1.8243470
##   [9847,] -0.5981679782 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9848,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [9849,]  0.6474051749 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9850,] -0.5981679782  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [9851,]  2.0515058202  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9852,]  0.0812355598 -0.192045991  2.7038248 -0.1327341  1.8243470
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##   [9854,] -0.4849340552  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [9855,]  1.2135747899  2.255299063  2.7038248 -1.7335038  1.8243470
##   [9856,] -0.8246358242 -0.531955026  2.7038248  0.6676507 -0.5481372
##   [9857,]  0.0812355598  0.099875887  2.7038248 -0.1327341  1.8243470
##   [9858,]  1.7797444050  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [9859,]  1.2135747899  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [9860,]  0.1944694829  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [9861,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [9862,]  0.0812355598 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [9863,] -0.2584662092 -1.499696044  2.7038248  1.4680355  1.8243470
##   [9864,]  1.7797444050  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [9865,] -0.8019890396 -1.371730290  2.7038248  1.4680355  1.8243470
##   [9866,] -0.9378697472  0.001902106  2.7038248 -0.1327341  1.8243470
##   [9867,]  1.2135747899  2.545221475  2.7038248 -1.7335038 -0.5481372
##   [9868,]  1.7797444050 -0.729902052  2.7038248  0.6676507  1.8243470
##   [9869,] -1.2549247316 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9870,]  2.0062122510  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [9871,] -1.0737504548  2.545221475  2.7038248 -1.7335038 -0.5481372
##   [9872,]  0.1944694829 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [9873,] -0.4849340552  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [9874,]  2.9120836350 -0.533954491  2.7038248  0.6676507  1.8243470
##   [9875,] -0.7114019012  0.975641518  2.7038248 -0.9331190  1.8243470
##   [9876,]  0.1944694829 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9877,] -0.4849340552  2.639196326  2.7038248 -1.7335038 -0.5481372
##   [9878,] -0.8246358242  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [9879,] -1.0511036702  1.363537712  2.7038248 -0.9331190  1.8243470
##   [9880,]  0.4888776827 -0.190046526  2.7038248 -0.1327341 -0.5481372
##   [9881,] -1.1983077701 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9882,] -0.4849340552 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9883,] -0.9378697472 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9884,] -1.4474224008 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9885,] -0.9152229626 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9886,] -0.9378697472 -0.318012280  2.7038248  0.6676507  1.8243470
##   [9887,] -0.4849340552 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [9888,] -0.2584662092 -1.651655377  2.7038248  1.4680355 -0.5481372
##   [9889,] -0.8246358242 -1.499696044  2.7038248  1.4680355  1.8243470
##   [9890,]  0.0812355598 -1.245764000  2.7038248  1.4680355  1.8243470
##   [9891,]  1.7797444050  2.059351501  2.7038248 -1.7335038 -0.5481372
##   [9892,] -0.4849340552 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9893,] -1.2775715163  0.001902106  2.7038248 -0.1327341  1.8243470
##   [9894,]  0.0812355598  1.363537712  2.7038248 -0.9331190 -0.5481372
##   [9895,] -1.1869843778 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9896,] -0.4849340552 -1.119797711  2.7038248  1.4680355  1.8243470
##   [9897,] -0.9378697472 -1.121797175  2.7038248  1.4680355  1.8243470
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##   [9899,] -1.0511036702  0.293823983  2.7038248 -0.1327341  1.8243470
##   [9900,] -1.2492630355 -0.318012280  2.7038248  0.6676507  1.8243470
##   [9901,]  0.7606390979 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9902,] -0.5075808398  0.975641518  2.7038248 -0.9331190 -0.5481372
##   [9903,]  1.5532765589  1.655459589  2.7038248 -0.9331190 -0.5481372
##   [9904,]  1.7797444050  0.975641518  2.7038248 -0.9331190 -0.5481372
```

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##   [9905,]  0.1944694829 -0.531955026  2.7038248  0.6676507  1.8243470
##   [9906,] -1.0171334933  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9907,]  0.4209373289 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9908,] -0.4849340552 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9909,] -1.1643375932  0.001902106  2.7038248 -0.1327341 -0.5481372
##   [9910,]  2.4591479430 -0.533954491  2.7038248  0.6676507  1.8243470
##   [9911,]  2.9120836350  0.703714290  2.7038248 -0.9331190 -0.5481372
##   [9912,]  0.3756437597  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9913,] -0.4849340552  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [9914,]  0.6474051749 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9915,] -0.9378697472  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [9916,] -1.0511036702 -0.533954491  2.7038248  0.6676507  1.8243470
##   [9917,]  0.0812355598  0.099875887  2.7038248 -0.1327341  1.8243470
##   [9918,] -1.0511036702 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9919,]  1.7797444050  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [9920,]  1.7797444050 -0.318012280  2.7038248  0.6676507  1.8243470
##   [9921,]  1.7797444050  2.449247159  2.7038248 -1.7335038  1.8243470
##   [9922,]  2.4591479430 -0.318012280  2.7038248  0.6676507  1.8243470
##   [9923,]  2.1194461740 -0.827875833  2.7038248  0.6676507 -0.5481372
##   [9924,] -1.1643375932  0.975641518  2.7038248 -0.9331190  1.8243470
##   [9925,]  1.2135747899  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [9926,] -0.3037597784 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [9927,] -0.7114019012 -1.121797175  2.7038248  1.4680355 -0.5481372
##   [9928,]  2.3459140200 -0.192045991  2.7038248 -0.1327341 -0.5481372
##   [9929,]  0.3756437597  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [9935,]  0.0812355598 -0.631928272  2.7038248  0.6676507  1.8243470
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##   [9937,] -0.4849340552  0.101875351  2.7038248 -0.1327341 -0.5481372
##   [9938,] -1.3908054393  1.865403405  2.7038248 -1.7335038 -0.5481372
##   [9939,] -1.0511036702 -1.245764000  2.7038248  1.4680355 -0.5481372
##   [9940,]  0.0812355598  0.293823983  2.7038248 -0.1327341  1.8243470
##   [9941,] -0.8812527857 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [9942,]  2.3459140200 -0.316012815  2.7038248  0.6676507 -0.5481372
##   [9943,]  2.9120836350 -0.316012815  2.7038248  0.6676507 -0.5481372
##   [9944,]  0.6474051749 -0.729902052  2.7038248  0.6676507 -0.5481372
##   [9945,]  0.1944694829  2.253299598  2.7038248 -1.7335038 -0.5481372
##   [9946,] -0.4849340552  2.447247695  2.7038248 -1.7335038 -0.5481372
##   [9947,] -0.0319983632 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9948,] -0.2584662092 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9949,]  0.0812355598  0.293823983  2.7038248 -0.1327341 -0.5481372
##   [9950,]  0.4209373289 -1.499696044  2.7038248  1.4680355 -0.5481372
##   [9951,]  1.3268087129  0.099875887  2.7038248 -0.1327341 -0.5481372
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##   [9954,] -0.8019890396  1.169589615  2.7038248 -0.9331190 -0.5481372
##   [9955,] -0.4849340552 -1.121797175  2.7038248  1.4680355 -0.5481372
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##   [9958,]  2.0062122510  0.489771545  2.7038248 -0.1327341  1.8243470
##   [9959,]  1.2135747899 -0.318012280  2.7038248  0.6676507 -0.5481372
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##   [9961,]  0.1944694829  0.099875887  2.7038248 -0.1327341 -0.5481372
##   [9962,] -1.0511036702 -0.827875833  2.7038248  0.6676507  1.8243470
##   [9963,] -1.0511036702 -0.318012280  2.7038248  0.6676507 -0.5481372
##   [9964,] -0.9378697472 -0.533954491  2.7038248  0.6676507 -0.5481372
##   [9965,] -0.6547849397 -0.631928272  2.7038248  0.6676507  1.8243470
##   [9966,]  0.4209373289  0.487772080  2.7038248 -0.1327341 -0.5481372
##   [9967,] -1.2775715163  0.001902106  2.7038248 -0.1327341 -0.5481372
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##   [9970,] -0.4849340552  2.059351501  2.7038248 -1.7335038 -0.5481372
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##   [9972,]  0.0812355598 -1.371730290  2.7038248  1.4680355 -0.5481372
##   [9973,] -0.3717001322  2.253299598  2.7038248 -1.7335038  1.8243470
##   [9974,]  1.2135747899  1.285558580  2.7038248 -0.9331190 -0.5481372
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##   [9976,] -0.8246358242  2.059351501  2.7038248 -1.7335038  1.8243470
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##   [9979,]  0.6474051749  0.779693957  2.7038248 -0.9331190 -0.5481372
##   [9980,] -0.3717001322  0.487772080  2.7038248 -0.1327341 -0.5481372
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##   [9982,]  1.2135747899  3.029091984  2.7038248 -2.5338886  1.8243470
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##   [9999,] -0.9378697472 -0.631928272  2.7038248  0.6676507  1.8243470
##                    dti emp_length home_ownership    annual_inc       term
##      [1,] -1.7773734831  1.0100814     -1.3207918 -5.888530e-01  0.5294021
##      [2,] -0.4979214482 -0.3787226     -1.3207918 -5.429860e-01  0.5294021
```

```
##      [3,] -0.0069546865 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##      [4,]  0.1987371239 -0.9342442     -1.3207918 -3.070986e-01  0.5294021
##      [5,] -0.5358764846 -0.3787226      0.7571158  1.908860e-01  0.5294021
##      [6,] -0.8456385562 -1.4897658      0.7571158 -3.070986e-01 -1.8889088
##      [7,]  0.5501273000 -1.4897658      0.7571158 -2.022597e-01  0.5294021
##      [8,]  0.6150181688 -1.4897658     -1.3207918 -5.411513e-01  0.5294021
##      [9,] -1.0476572986 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##     [10,]  0.0873207266  0.4545598      0.7571158 -2.415743e-01  0.5294021
##     [11,] -0.9460357494 -0.3787226     -1.3207918 -4.381471e-01  0.5294021
##     [12,] -1.4272076630  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##     [13,] -0.0559289270  1.0100814      0.7571158 -4.381471e-01  0.5294021
##     [14,]  0.2599549246  1.0100814      0.7571158  4.656162e-01  0.5294021
##     [15,]  0.6284860849 -1.4897658     -1.3207918 -2.808889e-01  0.5294021
##     [16,] -1.3574193702 -0.3787226     -1.3207918 -5.691957e-01  0.5294021
##     [17,] -0.2616207374  1.0100814      0.7571158  5.447171e-01  0.5294021
##     [18,] -0.6081134895  1.0100814      0.7571158  6.102414e-01  0.5294021
##     [19,] -1.5729060287 -0.9342442      0.7571158 -5.298811e-01  0.5294021
##     [20,] -0.7782989754  0.4545598      0.7571158 -1.629451e-01 -1.8889088
##     [21,] -0.6730043582 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##     [22,] -1.7981875353  1.0100814      0.7571158  8.178807e-02  0.5294021
##     [23,]  2.0267006532  1.0100814      0.7571158 -3.596228e-01  0.5294021
##     [24,] -1.6390212534 -1.2120050      0.7571158  1.003387e+00  0.5294021
##     [25,] -1.6108610651  1.0100814      0.7571158  2.302006e-01  0.5294021
##     [26,] -1.6365725414  0.1767990     -1.3207918 -3.005461e-01 -1.8889088
##     [27,] -0.1624479003  1.0100814      0.7571158 -3.726229e-01  0.5294021
##     [28,] -0.6558633740 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##     [29,] -0.2701912295  1.0100814      0.7571158 -4.119374e-01  0.5294021
##     [30,] -0.0277687387 -0.9342442     -1.3207918 -7.526637e-01  0.5294021
##     [31,] -1.0035804821 -0.6564834      0.7571158 -1.367354e-01 -1.8889088
##     [32,] -0.8884910167  1.0100814      0.7571158 -1.760500e-01  0.5294021
##     [33,] -0.4930240241 -1.2120050      0.7571158  4.136686e-01  0.5294021
##     [34,]  0.9333507325 -0.3787226     -1.3207918  7.937094e-01  0.5294021
##     [35,]  0.3958584422 -1.2120050     -1.3207918 -1.760500e-01  0.5294021
##     [36,] -0.6901453424 -0.9342442     -1.3207918 -4.500143e-02  0.5294021
##     [37,]  2.1111812182  1.0100814     -1.3207918 -5.823006e-01  0.5294021
##     [38,] -0.0840891154  1.0100814      0.7571158 -7.264540e-01  0.5294021
##     [39,]  0.1167052710  1.0100814      0.7571158  4.791929e-01 -1.8889088
##     [40,] -1.1933556643  0.4545598     -1.3207918 -5.954054e-01  0.5294021
##     [41,] -0.7587092792 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##     [42,]  0.5599221481 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##     [43,] -1.3010989935  1.0100814      0.7571158  3.219346e-01  0.5294021
##     [44,] -0.8860423047 -1.4897658      0.7571158 -7.159701e-01  0.5294021
##     [45,] -1.4920985317  1.0100814      0.7571158 -4.906190e-01  0.5294021
##     [46,]  1.2161769718  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##     [47,] -0.4513959196 -1.4897658     -1.3207918  7.294229e-02  0.5294021
##     [48,] -2.0442830942 -1.4897658      0.7571158  8.723386e-01  0.5294021
##     [49,] -1.8973603725  1.0100814      0.7571158  7.555816e+00 -1.8889088
##     [50,]  0.0432439101  1.0100814      0.7571158  4.595356e-01 -1.8889088
##     [51,] -0.3216141821 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##     [52,]  0.0236542139  1.0100814      0.7571158 -4.500143e-02  0.5294021
##     [53,]  1.3141254529 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##     [54,]  1.6410285087  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##     [55,] -1.1407083557 -0.3787226      0.7571158  8.604715e-02  0.5294021
##     [56,] -1.0954071831 -0.9342442     -1.3207918 -2.022597e-01  0.5294021
##     [57,] -0.3791589148 -0.3787226      0.7571158 -5.823006e-01  0.5294021
##     [58,] -1.7920657552  1.0100814      0.7571158 -4.500143e-02  0.5294021
##     [59,]  2.0083353130 -0.6564834      0.7571158 -1.499582e-01  0.5294021
##     [60,] -0.0706211992  1.0100814      0.7571158 -1.367354e-01 -1.8889088
##     [61,] -0.8848179487 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##     [62,] -1.9242962048  0.1767990     -1.3207918  1.593106e+00  0.5294021
##     [63,] -1.5190343641 -1.2120050      0.7571158  4.791929e-01  0.5294021
##     [64,]  0.5317619598 -1.2120050      0.7571158 -3.726229e-01 -1.8889088
##     [65,] -1.8606296920  1.0100814      0.7571158 -4.184899e-01 -1.8889088
##     [66,] -0.5211842124 -0.6564834     -1.3207918 -4.905666e-01  0.5294021
##     [67,]  0.8060177070 -0.9342442      0.7571158 -3.267559e-01  0.5294021
##     [68,]  2.0071109570  1.0100814      0.7571158 -7.133491e-01  0.5294021
##     [69,] -0.4869022441  0.1767990      0.7571158 -1.891549e-01  0.5294021
##     [70,]  1.0178312974  1.0100814      0.7571158 -4.578044e-01  0.5294021
##     [71,] -1.4725088355 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##     [72,] -0.4379280035  1.0100814      0.7571158 -1.760500e-01  0.5294021
##     [73,] -1.0158240422 -0.9342442      0.7571158 -5.429860e-01 -1.8889088
##     [74,] -0.5762802331 -0.9342442     -1.3207918 -6.708894e-01  0.5294021
##     [75,]  0.7827549427 -1.4897658      0.7571158 -4.119374e-01  0.5294021
##     [76,] -0.6974914785 -1.4897658      0.7571158 -1.760500e-01 -1.8889088
##     [77,] -1.7945144673  1.0100814     -1.3207918  4.398783e-01  0.5294021
##     [78,]  0.8194856231  1.0100814      0.7571158  8.604715e-02  0.5294021
##     [79,] -0.9142024930  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##     [80,]  2.4454304100 -1.4897658      0.7571158 -6.347200e-01 -1.8889088
##     [81,] -0.7097350386  0.1767990      0.7571158 -1.879171e-02  0.5294021
##     [82,] -0.5493444008  1.0100814      0.7571158 -3.333083e-01  0.5294021
##     [83,] -1.3133425537  1.0100814     -1.3207918  2.182824e+00  0.5294021
##     [84,]  0.0163080778 -0.3787226      0.7571158  1.515714e-01 -1.8889088
##     [85,]  0.0383464861  1.0100814      0.7571158  1.515714e-01  0.5294021
##     [86,] -0.6166839816 -1.2120050      0.7571158  2.170957e-01 -1.8889088
##     [87,] -1.0329650264 -0.3787226      0.7571158  5.447171e-01  0.5294021
##     [88,] -0.5824020132 -0.6564834     -1.3207918  2.826200e-01  0.5294021
##     [89,]  1.5112467712 -1.2120050     -1.3207918  2.826200e-01  0.5294021
##     [90,] -0.2836591457  1.0100814      0.7571158  1.515714e-01  0.5294021
##     [91,] -0.2101977848 -0.1009618     -1.3207918 -1.105257e-01  0.5294021
##     [92,] -1.1235673715  1.0100814      0.7571158  8.068143e-01 -1.8889088
##     [93,] -0.1502043401  1.0100814      0.7571158  4.791929e-01  0.5294021
##     [94,] -1.0354137384  1.0100814      0.7571158 -6.347200e-01  0.5294021
##     [95,]  2.2862641282 -0.3787226     -1.3207918 -3.464131e-01  0.5294021
##     [96,]  0.4680954471 -1.4897658      0.7571158  8.723386e-01  0.5294021
##     [97,] -1.1223430154 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##     [98,]  0.7998959269 -0.3787226      0.7571158 -2.939937e-01 -1.8889088
##     [99,] -2.0308151780 -0.9342442      0.7571158  2.182824e+00  0.5294021
##    [100,] -0.6264788297 -0.6564834      0.7571158  1.304799e+00  0.5294021
```

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##    [101,] -0.7574849232 -0.3787226      0.7571158 -1.498403e-01  0.5294021
##    [102,] -1.0415355185 -1.4897658      0.7571158  6.757657e-01 -1.8889088
##    [103,] -1.8532835559  0.4545598      0.7571158  4.136686e-01  0.5294021
##    [104,] -0.7746259074  1.0100814      0.7571158  5.774793e-01  0.5294021
##    [105,]  0.2550575006 -0.6564834      0.7571158 -4.905666e-01  0.5294021
##    [106,] -1.0011317700  1.0100814      0.7571158 -2.467638e-01 -1.8889088
##    [107,]  1.9875212607  0.7323206      0.7571158 -2.153646e-01  0.5294021
##    [108,] -0.5493444008  0.1767990      0.7571158  4.791929e-01  0.5294021
##    [109,]  0.2868907569 -0.3787226      0.7571158  2.052286e-02 -1.8889088
##    [110,] -0.0938839635 -1.4897658      0.7571158 -2.929453e-01  0.5294021
##    [111,]  0.3285188614  1.0100814     -1.3207918 -3.595180e-01  0.5294021
##    [112,] -0.2199926329 -0.1009618      0.7571158  2.170957e-01  0.5294021
##    [113,] -0.7648310593  1.0100814      0.7571158  8.604715e-02  0.5294021
##    [114,] -0.3338577423  1.0100814      0.7571158 -2.415743e-01 -1.8889088
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##    [116,] -1.9291936288 -0.1009618      0.7571158 -3.726229e-01  0.5294021
##    [117,] -0.4477228516 -1.4897658      0.7571158  5.447171e-01 -1.8889088
##    [118,] -1.5961687929 -0.6564834     -1.3207918  9.378629e-01  0.5294021
##    [119,]  1.2186256838 -0.9342442     -1.3207918  8.604715e-02  0.5294021
##    [120,] -0.9582793095  1.0100814     -1.3207918 -2.677840e-01  0.5294021
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##    [122,] -1.3451758100 -1.4897658     -1.3207918  8.723386e-01  0.5294021
##    [123,] -0.5052675843 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
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##    [125,] -0.0008329064 -1.4897658     -1.3207918 -5.298811e-01  0.5294021
##    [126,] -1.7369697346 -0.3787226     -1.3207918 -4.500143e-02  0.5294021
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##    [128,] -1.5337266362  1.0100814      0.7571158 -6.216151e-01  0.5294021
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##    [130,] -0.3412038784 -0.6564834     -1.3207918 -1.105257e-01 -1.8889088
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##    [132,] -0.3632422866 -1.4897658      0.7571158  7.418002e-03  0.5294021
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##    [134,]  0.7594921784  1.0100814      0.7571158  6.102414e-01 -1.8889088
##    [135,]  0.1020129988  1.0100814      0.7571158 -8.706074e-01  0.5294021
##    [136,]  0.0138593658  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##    [137,] -0.4195626633 -0.1009618      0.7571158 -4.905666e-01  0.5294021
##    [138,] -1.7406428026 -1.2120050      0.7571158  6.102414e-01  0.5294021
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##    [142,] -0.7685041273 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##    [143,]  0.3481085577  0.1767990      0.7571158  2.039909e-01  0.5294021
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##    [170,]  1.5161441952 -1.4897658     -1.3207918  4.791929e-01  0.5294021
##    [171,] -1.2251889206  0.1767990     -1.3207918 -5.298811e-01  0.5294021
##    [172,]  0.0028401616 -1.4897658      0.7571158 -1.105257e-01  0.5294021
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##    [178,] -0.9472601054  1.0100814     -1.3207918 -3.070986e-01  0.5294021
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##    [189,]  0.3762687460 -1.2120050     -1.3207918 -6.048802e-01  0.5294021
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##    [193,]  1.2455615161  1.0100814      0.7571158  8.604715e-02  0.5294021
##    [194,] -1.0696957068 -0.3787226      0.7571158  4.476174e+00  0.5294021
##    [195,] -0.4073191031 -0.6564834      0.7571158  5.447171e-01  0.5294021
##    [196,]  1.7524449060 -0.1009618      0.7571158  1.515714e-01  0.5294021
##    [197,] -0.7060619706  1.0100814     -1.3207918  2.170957e-01 -1.8889088
##    [198,] -1.3280348258  1.0100814      0.7571158 -4.119374e-01 -1.8889088
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##    [201,] -0.2750886536  1.0100814     -1.3207918 -3.215139e-01  0.5294021
##    [202,] -0.4771073959 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##    [203,] -0.3326333863 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##    [204,] -1.5741303847  0.1767990      0.7571158  4.791929e-01 -1.8889088
##    [205,] -0.7905425356 -0.9342442     -1.3207918  1.789679e+00 -1.8889088
##    [206,]  0.8170369111  1.0100814      0.7571158  1.646763e-01  0.5294021
##    [207,] -1.2643683131  0.4545598      0.7571158  6.757657e-01  0.5294021
##    [208,]  0.8354022513  1.0100814      0.7571158 -2.415743e-01  0.5294021
##    [209,]  2.2776936361  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##    [210,] -1.4627139874  1.0100814      0.7571158  1.253617e-01  0.5294021
##    [211,] -0.9692985137  1.0100814      0.7571158  3.481443e-01 -1.8889088
##    [212,] -1.8814437443  1.0100814      0.7571158 -1.629451e-01  0.5294021
##    [213,] -0.7329978029 -1.2120050     -1.3207918 -6.216151e-01  0.5294021
##    [214,] -0.4660881918 -0.9342442     -1.3207918  2.052286e-02  0.5294021
##    [215,] -0.3828319828 -0.6564834      0.7571158 -2.415743e-01 -1.8889088
##    [216,] -0.7476900751 -0.3787226     -1.3207918  6.507937e-02  0.5294021
##    [217,]  0.8464214555  0.4545598     -1.3207918 -3.726229e-01 -1.8889088
##    [218,]  0.8354022513 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##    [219,] -0.7636067033 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##    [220,] -0.9484844614 -0.6564834      0.7571158  3.153821e-01  0.5294021
##    [221,]  0.8574406596  1.0100814      0.7571158  2.170957e-01  0.5294021
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##    [232,] -0.5677097410  1.0100814      0.7571158  1.253617e-01  0.5294021
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##    [259,]  0.3493329137  1.0100814      0.7571158 -1.105257e-01  0.5294021
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##    [271,] -0.6117865575 -0.9342442     -1.3207918 -5.691957e-01  0.5294021
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##    [386,] -0.2481528213  1.0100814      0.7571158  8.723386e-01 -1.8889088
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##    [388,] -1.3500732341  1.0100814      0.7571158  4.791929e-01 -1.8889088
##    [389,] -0.8284975720 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##    [390,] -1.6965659861 -1.4897658      0.7571158  7.418002e-03  0.5294021
##    [391,] -0.4856778880 -0.6564834      0.7571158  1.868308e+00 -1.8889088
##    [392,]  0.3517816257 -0.1009618      0.7571158  2.170957e-01 -1.8889088
##    [393,] -1.3390540300  1.0100814     -1.3207918 -1.105257e-01 -1.8889088
##    [394,]  0.6921525977  0.1767990      0.7571158 -1.629451e-01  0.5294021
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##    [398,] -1.6879954940 -0.6564834     -1.3207918 -3.118949e-01  0.5294021
##    [399,] -1.3084451296  1.0100814      0.7571158 -4.119374e-01  0.5294021
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##    [403,]  0.2685254167  0.1767990      0.7571158 -3.595180e-01  0.5294021
##    [404,] -0.7207542428  1.0100814     -1.3207918  1.108226e+00  0.5294021
##    [405,] -0.9619523776  0.1767990      0.7571158  1.383428e+00  0.5294021
##    [406,]  0.0922181507 -0.9342442     -1.3207918  2.052286e-02  0.5294021
##    [407,]  0.5929797605 -1.4897658     -1.3207918 -2.808889e-01  0.5294021
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##    [579,] -1.2717144492 -0.6564834      0.7571158 -5.429860e-01  0.5294021
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##    [582,] -0.9435870374  1.0100814      0.7571158  8.604715e-02  0.5294021
##    [583,]  1.1855680714 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##    [584,] -0.8125809438  1.0100814     -1.3207918 -6.109216e-01  0.5294021
##    [585,]  0.3444354896 -0.6564834      0.7571158 -2.415743e-01  0.5294021
##    [586,]  0.1362949672  1.0100814      0.7571158 -1.629451e-01 -1.8889088
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##    [588,]  1.5136954832 -1.4897658      0.7571158 -7.002443e-01 -1.8889088
##    [589,] -1.2007018004 -0.6564834     -1.3207918 -3.333083e-01  0.5294021
##    [590,] -0.2518258893 -1.4897658      0.7571158  8.723386e-01  0.5294021
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##    [594,]  1.1157797786 -0.9342442     -1.3207918 -6.029479e-02 -1.8889088
##    [595,] -0.6044404214  1.0100814      0.7571158  8.723386e-01  0.5294021
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##    [597,] -0.2640694495 -0.9342442      0.7571158  2.170957e-01  0.5294021
##    [598,] -0.8468629122  0.1767990     -1.3207918 -7.002443e-01  0.5294021
##    [599,] -0.8762474566 -0.3787226      0.7571158 -3.857277e-01  0.5294021
##    [600,] -1.1749903241  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##    [601,]  0.8194856231  1.0100814      0.7571158 -4.500143e-02 -1.8889088
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##    [769,] -0.8015617397  1.0100814      0.7571158  6.102414e-01  0.5294021
##    [770,] -1.3035477055 -0.9342442      0.7571158  1.265484e+00 -1.8889088
##    [771,] -0.2885565697 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##    [772,] -1.6708545098 -1.4897658      0.7571158  1.527581e+00  0.5294021
##    [773,]  0.8158125551  1.0100814      0.7571158 -2.808889e-01  0.5294021
##    [774,] -0.5775045891 -0.9342442      0.7571158  1.515714e-01  0.5294021
##    [775,] -0.1208197958  1.0100814      0.7571158  5.316123e-01  0.5294021
##    [776,]  1.3092280288  1.0100814      0.7571158  1.265484e+00  0.5294021
##    [777,] -0.6264788297  1.0100814     -1.3207918  6.757657e-01  0.5294021
##    [778,]  0.2024101920  1.0100814      0.7571158  2.052286e-02 -1.8889088
##    [779,] -1.0599008587 -0.9342442      0.7571158  8.723386e-01  0.5294021
##    [780,] -1.7810465511 -1.4897658     -1.3207918  1.199960e+00  0.5294021
##    [781,] -2.0136741938 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##    [782,]  0.7362294142  0.4545598     -1.3207918 -5.954054e-01 -1.8889088
##    [783,]  0.7913254348  1.0100814      0.7571158  9.915200e-02  0.5294021
##    [784,] -1.4590409194  1.0100814      0.7571158  1.789679e+00  0.5294021
##    [785,] -1.8875655243 -0.9342442      0.7571158 -7.657686e-01  0.5294021
##    [786,]  0.7399024822 -1.2120050      0.7571158 -5.036714e-01  0.5294021
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##    [787,]  1.4500289705 -1.2120050      0.7571158  2.052286e-02 -1.8889088
##    [788,] -2.0932573347 -0.6564834      0.7571158  5.447171e-01  0.5294021
##    [789,] -1.5263805001 -1.4897658      0.7571158  7.412900e-01  0.5294021
##    [790,] -0.4636394798 -1.4897658      0.7571158  2.170957e-01  0.5294021
##    [791,] -0.3436525904  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##    [792,] -0.0424610109  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##    [793,] -0.1710183924  1.0100814      0.7571158 -2.415743e-01  0.5294021
##    [794,] -0.8187027239  1.0100814      0.7571158 -7.491123e-01  0.5294021
##    [795,]  1.2039334116 -0.9342442     -1.3207918 -1.105257e-01  0.5294021
##    [796,]  0.8660111517  1.0100814      0.7571158 -1.513080e-01 -1.8889088
##    [797,] -0.2885565697 -1.4897658      0.7571158 -1.039733e-01  0.5294021
##    [798,]  0.8011202829  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##    [799,] -0.9717472257 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##    [800,] -1.4933228878  1.0100814      0.7571158 -6.326232e-01  0.5294021
##    [801,] -0.2346849051 -0.9342442      0.7571158  1.167198e+00 -1.8889088
##    [802,]  0.6897038856 -1.4897658      0.7571158  1.068911e+00 -1.8889088
##    [803,] -1.4786306156  1.0100814      0.7571158  1.068911e+00  0.5294021
##    [804,]  0.0750771665  1.0100814      0.7571158 -4.500143e-02  0.5294021
##    [805,] -1.3647655063  1.0100814     -1.3207918  8.604715e-02  0.5294021
##    [806,] -0.3289603182  0.4545598      0.7571158 -2.415743e-01  0.5294021
##    [807,] -1.0574521467  1.0100814      0.7571158  2.052286e-02  0.5294021
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##    [809,] -1.0966315391  1.0100814     -1.3207918 -8.312929e-01  0.5294021
##    [810,] -0.8040104517  1.0100814      0.7571158 -3.726229e-01  0.5294021
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##    [815,]  0.2562818566  1.0100814      0.7571158 -5.901635e-01  0.5294021
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##    [823,]  0.2611792806  0.4545598      0.7571158  2.170957e-01  0.5294021
##    [824,] -0.1195954398  1.0100814     -1.3207918  8.604715e-02 -1.8889088
##    [825,] -0.5970942853 -0.1009618     -1.3207918 -4.500143e-02 -1.8889088
##    [826,] -1.2557978210 -0.9342442     -1.3207918 -3.070986e-01  0.5294021
##    [827,] -0.4305818674  1.0100814      0.7571158  5.447171e-01  0.5294021
##    [828,]  1.4953301430 -0.6564834      0.7571158 -2.415743e-01  0.5294021
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##    [831,] -0.9680741576 -0.6564834     -1.3207918 -5.036714e-01 -1.8889088
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##    [835,]  0.2526087885  0.1767990      0.7571158  6.102414e-01 -1.8889088
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##    [837,]  0.7386781262  0.4545598      0.7571158  2.052286e-02  0.5294021
##    [838,] -1.2753875172 -1.4897658      0.7571158  2.182824e+00  0.5294021
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##    [844,] -0.5934212173  1.0100814     -1.3207918 -3.726229e-01  0.5294021
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##    [846,] -0.5456713327 -0.6564834      0.7571158  2.226070e+00 -1.8889088
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##    [848,]  0.6468514251  1.0100814      0.7571158 -5.560909e-01  0.5294021
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##    [853,]  0.3370893535 -1.4897658      0.7571158 -3.333083e-01  0.5294021
##    [854,]  0.3211727253  1.0100814     -1.3207918 -6.376757e-01  0.5294021
##    [855,]  1.4867596509 -0.1009618      0.7571158 -4.381471e-01  0.5294021
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##    [858,] -2.0234690419  1.0100814      0.7571158 -1.498403e-01  0.5294021
##    [859,]  0.5476785880  1.0100814     -1.3207918  3.219346e-01  0.5294021
##    [860,]  0.3836148821 -0.1009618      0.7571158 -3.595180e-01  0.5294021
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##    [864,] -0.3938511870 -0.1009618      0.7571158  9.378629e-01  0.5294021
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##    [880,] -0.2530502453  1.0100814      0.7571158 -5.036714e-01  0.5294021
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##    [882,] -0.8554334043  1.0100814     -1.3207918 -1.208203e-02  0.5294021
##    [883,] -0.8786961686 -0.3787226      0.7571158 -4.813932e-01  0.5294021
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##    [918,]  0.7741844506  1.0100814      0.7571158 -2.260450e-01  0.5294021
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##    [926,]  1.2161769718  1.0100814     -1.3207918 -6.609297e-01  0.5294021
##    [927,] -0.7011645465 -0.9342442     -1.3207918 -4.643569e-01  0.5294021
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##    [957,] -0.1710183924  0.1767990      0.7571158 -1.316973e-02  0.5294021
##    [958,] -0.3571205065  1.0100814      0.7571158  2.826200e-01 -1.8889088
##    [959,] -0.6864722744  0.1767990      0.7571158  5.840317e-01 -1.8889088
##    [960,] -0.9203242731 -0.1009618      0.7571158 -4.905666e-01 -1.8889088
##    [961,]  0.0591605383 -0.6564834      0.7571158 -4.119374e-01  0.5294021
##    [962,] -1.3500732341  1.0100814      0.7571158  8.604715e-02  0.5294021
##    [963,]  0.2195511762  1.0100814      0.7571158 -4.643569e-01  0.5294021
##    [964,]  1.1892411394  0.4545598      0.7571158 -1.891549e-01  0.5294021
##    [965,]  0.9443699366 -0.1009618      0.7571158  2.172006e-01  0.5294021
##    [966,]  0.4999287034  1.0100814      0.7571158  4.791929e-01  0.5294021
##    [967,] -1.0354137384  1.0100814      0.7571158  1.003387e+00  0.5294021
##    [968,] -0.3914024749  1.0100814      0.7571158  1.515714e-01  0.5294021
##    [969,]  0.5599221481 -0.9342442     -1.3207918  1.253617e-01 -1.8889088
##    [970,] -1.6145341332  1.0100814     -1.3207918  2.182824e+00 -1.8889088
##    [971,]  1.6483746448 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##    [972,] -1.1933556643  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##    [973,]  0.1399680352 -1.4897658      0.7571158  2.052286e-02  0.5294021
##    [974,] -0.5273059925  1.0100814     -1.3207918  2.957249e-01  0.5294021
##    [975,] -0.9607280216  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##    [976,] -0.7305490909 -0.9342442     -1.3207918 -4.500143e-02  0.5294021
##    [977,] -0.4562933437  1.0100814      0.7571158  8.723386e-01 -1.8889088
##    [978,] -0.2101977848 -0.1009618      0.7571158 -5.298811e-01  0.5294021
##    [979,]  1.0264017895  1.0100814      0.7571158 -3.464131e-01  0.5294021
##    [980,] -0.1085762357  1.0100814      0.7571158 -4.500143e-02  0.5294021
##    [981,]  0.5513516560  1.0100814      0.7571158 -1.150862e-01 -1.8889088
##    [982,] -0.5652610290 -1.2120050      0.7571158 -6.478249e-01  0.5294021
```

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##    [983,] -0.4256844433  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##    [984,] -1.6035149290 -1.4897658      0.7571158  1.311351e+00  0.5294021
##    [985,]  0.0542631142  1.0100814     -1.3207918 -2.444311e-01  0.5294021
##    [986,]  2.1185273542 -0.6564834     -1.3207918 -6.740346e-01  0.5294021
##    [987,] -1.6157584892  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##    [988,] -1.4382268671 -0.3787226     -1.3207918 -1.105257e-01  0.5294021
##    [989,] -0.7831963995 -1.2120050      0.7571158 -3.726229e-01 -1.8889088
##    [990,] -1.1615224079  1.0100814      0.7571158  5.426859e-01 -1.8889088
##    [991,] -1.0990802512 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##    [992,] -0.0240956707 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##    [993,]  1.0631324700 -0.1009618      0.7571158  4.791929e-01  0.5294021
##    [994,] -1.4774062596 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##    [995,]  1.2284205319  0.1767990     -1.3207918 -4.500143e-02 -1.8889088
##    [996,]  1.1831193594 -0.9342442      0.7571158  3.481443e-01  0.5294021
##    [997,] -1.9377641209 -0.3787226      0.7571158  1.331009e+00  0.5294021
##    [998,] -0.4807804640  1.0100814     -1.3207918  1.646763e-01  0.5294021
##    [999,] -0.0473584349  1.0100814     -1.3207918 -7.974535e-01  0.5294021
##   [1000,] -1.3806821344  0.1767990      0.7571158  3.481443e-01  0.5294021
##   [1001,]  0.6578706293  0.4545598     -1.3207918 -1.105257e-01  0.5294021
##   [1002,]  1.4732917347  1.0100814      0.7571158  7.294229e-02  0.5294021
##   [1003,] -1.0280676023 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [1004,]  0.3836148821  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [1005,]  1.3043306048 -0.1009618      0.7571158 -4.500143e-02  0.5294021
##   [1006,]  0.1252757631 -0.9342442      0.7571158  6.652818e-01 -1.8889088
##   [1007,] -0.6411711018 -0.1009618     -1.3207918  4.791929e-01 -1.8889088
##   [1008,]  2.1405657625  0.4545598      0.7571158 -2.808889e-01  0.5294021
##   [1009,] -0.9105294250  0.1767990     -1.3207918 -3.070986e-01  0.5294021
##   [1010,] -0.0032816184  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1011,] -0.3314090302  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [1012,] -0.2542746013  1.0100814      0.7571158  1.384666e-01  0.5294021
##   [1013,] -0.0669481312  1.0100814      0.7571158 -7.662928e-01  0.5294021
##   [1014,]  0.0261029259  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [1015,] -0.6583120860  1.0100814     -1.3207918 -2.284694e-01 -1.8889088
##   [1016,] -1.7100339023 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [1017,]  0.6762359695 -0.6564834      0.7571158 -7.121114e-02  0.5294021
##   [1018,] -0.9178755611  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [1019,] -0.0204226026  0.1767990      0.7571158  6.102414e-01  0.5294021
##   [1020,] -1.2570221770 -1.2120050     -1.3207918 -4.250423e-01 -1.8889088
##   [1021,]  0.2366921604 -1.4897658     -1.3207918  3.481443e-01  0.5294021
##   [1022,] -0.9656254456 -0.1009618      0.7571158  5.459039e+00  0.5294021
##   [1023,] -0.7599336352  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [1024,] -0.3816076268 -0.3787226      0.7571158  4.148553e+00  0.5294021
##   [1025,]  0.2477113645 -0.9342442      0.7571158  2.433054e-01 -1.8889088
##   [1026,] -0.9509331734 -0.1009618      0.7571158  1.253617e-01  0.5294021
##   [1027,] -0.3938511870  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [1028,]  1.7022463094 -1.4897658     -1.3207918  8.723386e-01  0.5294021
##   [1029,]  0.8549919476  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [1030,]  0.4840120752  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [1031,]  0.4215699185  1.0100814     -1.3207918 -6.654902e-01 -1.8889088
##   [1032,] -1.0109266181 -0.6564834      0.7571158  1.004574e+01  0.5294021
##   [1033,] -0.4526202757  0.4545598      0.7571158 -5.429860e-01  0.5294021
##   [1034,] -0.9080807129 -1.2120050     -1.3207918  3.481443e-01  0.5294021
##   [1035,]  1.0998631504 -0.9342442      0.7571158 -2.415743e-01  0.5294021
##   [1036,] -1.5680086046 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [1037,] -0.6436198139  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [1038,]  0.2195511762  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [1039,] -0.8211514359 -0.1009618     -1.3207918 -3.202034e-01  0.5294021
##   [1040,]  1.3692214735 -1.4897658      0.7571158 -5.888530e-01  0.5294021
##   [1041,] -0.9117537810 -1.4897658     -1.3207918  8.054776e-01  0.5294021
##   [1042,]  0.4276916986 -0.6564834      0.7571158  3.362772e-02  0.5294021
##   [1043,]  1.6018491162  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [1044,] -0.2763130096  1.0100814     -1.3207918 -4.446996e-01  0.5294021
##   [1045,] -1.0782661989 -0.1009618     -1.3207918 -3.333083e-01  0.5294021
##   [1046,]  0.3174996573 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [1047,]  0.1265001191  1.0100814      0.7571158  4.465618e-01  0.5294021
##   [1048,]  0.1791474277  1.0100814     -1.3207918 -1.367354e-01 -1.8889088
##   [1049,] -0.1575504762  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [1050,] -1.4663870554 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [1051,]  0.7227614980  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [1052,] -1.6280020493 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [1053,] -0.5738315211 -1.4897658     -1.3207918  1.527581e+00 -1.8889088
##   [1054,] -0.5860750812 -1.2120050     -1.3207918 -1.498403e-01 -1.8889088
##   [1055,] -0.5750558771  1.0100814      0.7571158 -7.776357e-02  0.5294021
##   [1056,] -1.3170156217 -1.4897658      0.7571158 -4.905666e-01  0.5294021
##   [1057,]  1.9226303920  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [1058,] -0.2065247168  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [1059,] -0.9582793095  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [1060,] -0.5677097410 -0.9342442      0.7571158  1.122569e-01  0.5294021
##   [1061,] -1.2582465330 -0.6564834      0.7571158 -5.298811e-01  0.5294021
##   [1062,]  0.2440382964 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [1063,]  0.6468514251 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [1064,]  0.5905310485 -0.3787226     -1.3207918 -4.381471e-01 -1.8889088
##   [1065,] -1.1064263873 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [1066,] -1.2937528574 -0.3787226      0.7571158  4.791929e-01  0.5294021
##   [1067,] -0.6215814056 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [1068,] -1.5471945524 -1.4897658     -1.3207918  7.412900e-01  0.5294021
##   [1069,] -0.0400122989  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [1070,] -0.5395495527  1.0100814      0.7571158 -5.560909e-01  0.5294021
##   [1071,]  0.9749788369  1.0100814      0.7571158 -7.657686e-01 -1.8889088
##   [1072,] -1.1394839996 -1.4897658      0.7571158  6.102414e-01 -1.8889088
##   [1073,] -1.8153285195 -1.4897658     -1.3207918  1.527581e+00  0.5294021
##   [1074,] -0.2738642976  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1075,]  1.2651512123  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [1076,]  1.1929142075 -1.4897658      0.7571158  5.578220e-01  0.5294021
##   [1077,] -0.9888882099  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1078,] -0.4685369038 -0.9342442      0.7571158 -5.810628e-02  0.5294021
##   [1079,]  0.2354678043 -0.1009618     -1.3207918 -5.364336e-01  0.5294021
##   [1080,] -0.8162540119  1.0100814      0.7571158  4.529831e-01  0.5294021
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##   [1081,] -0.5468956887  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [1082,] -1.2129453605 -1.4897658     -1.3207918  2.904829e-01  0.5294021
##   [1083,]  1.3092280288 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [1084,]  0.9247802404  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [1085,] -1.1358109316  1.0100814      0.7571158 -2.245904e-01  0.5294021
##   [1086,] -0.0424610109  1.0100814      0.7571158  1.384666e-01  0.5294021
##   [1087,] -0.7146324627 -0.9342442     -1.3207918 -7.121114e-02  0.5294021
##   [1088,]  0.5084991955  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [1089,] -0.7966643157 -1.4897658     -1.3207918  3.493310e+00 -1.8889088
##   [1090,]  0.6737872574 -0.1009618      0.7571158 -6.622402e-01  0.5294021
##   [1091,] -0.1746914604  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [1092,]  1.3031062488 -1.2120050      0.7571158  1.480404e+00  0.5294021
##   [1093,] -1.7137069703 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [1094,]  0.6566462732 -0.9342442     -1.3207918 -1.498403e-01  0.5294021
##   [1095,]  0.2097563281  0.7323206      0.7571158 -2.546791e-01 -1.8889088
##   [1096,] -1.3917013386  0.7323206      0.7571158 -8.431600e-02  0.5294021
##   [1097,] -0.1416338480  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [1098,]  0.8084664190 -0.3787226      0.7571158 -1.367354e-01 -1.8889088
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##   [1100,]  0.6946013097 -1.4897658      0.7571158  2.302006e-01  0.5294021
##   [1101,] -1.3133425537  1.0100814      0.7571158  1.188093e-01  0.5294021
##   [1102,]  0.3983071542 -1.2120050      0.7571158  5.447171e-01 -1.8889088
##   [1103,] -1.5937200809 -1.4897658      0.7571158  1.199960e+00  0.5294021
##   [1104,] -0.6399467458 -0.3787226      0.7571158  8.604715e-02  0.5294021
##   [1105,]  0.9198828163  1.0100814      0.7571158 -2.166751e-01 -1.8889088
##   [1106,] -0.2016272927 -1.2120050     -1.3207918  6.102414e-01 -1.8889088
##   [1107,] -0.7415682950 -0.6564834      0.7571158 -3.070986e-01 -1.8889088
##   [1108,] -1.6353481854  1.0100814      0.7571158  8.735253e+00  0.5294021
##   [1109,] -0.7085106826  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [1110,]  0.0603848943 -0.9342442     -1.3207918 -2.546791e-01  0.5294021
##   [1111,] -0.3522230825 -0.6564834      0.7571158  9.378629e-01  0.5294021
##   [1112,] -0.3803832708 -1.4897658     -1.3207918  2.052286e-02  0.5294021
##   [1113,] -0.5432226207 -1.4897658     -1.3207918 -4.512520e-01  0.5294021
##   [1114,] -0.7489144311 -0.9342442      0.7571158 -1.105257e-01 -1.8889088
##   [1115,] -0.8517603363  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [1116,] -1.1811121041  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [1117,]  0.6909282416  1.0100814      0.7571158 -3.857277e-01  0.5294021
##   [1118,] -0.6338249658  1.0100814     -1.3207918 -6.648612e-01  0.5294021
##   [1119,]  0.4778902952  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1120,] -1.4982203118  1.0100814      0.7571158  5.590597e-02 -1.8889088
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##   [1122,] -1.7773734831 -1.4897658      0.7571158 -3.857277e-01  0.5294021
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##   [1126,] -0.9729715817 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [1127,] -1.7969631793 -1.2120050      0.7571158  1.515714e-01  0.5294021
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##   [1131,] -0.4709856159 -1.2120050     -1.3207918  1.646763e-01  0.5294021
##   [1132,] -0.3277359622 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [1133,]  0.3579034058 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [1134,] -0.4820048200 -1.4897658      0.7571158 -4.381471e-01  0.5294021
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##   [1137,]  1.2651512123 -1.4897658      0.7571158  3.743540e-01 -1.8889088
##   [1138,] -0.8125809438  0.4545598     -1.3207918  2.826200e-01  0.5294021
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##   [1140,] -0.1844863085  0.4545598      0.7571158 -4.643569e-01  0.5294021
##   [1141,] -0.3828319828  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1142,] -0.3473256584 -0.9342442     -1.3207918 -4.053850e-01  0.5294021
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##   [1144,]  0.7276589221 -0.9342442     -1.3207918 -5.167763e-01  0.5294021
##   [1145,]  0.1007886428 -0.3787226      0.7571158 -4.643569e-01 -1.8889088
##   [1146,] -0.2628450934  1.0100814     -1.3207918  1.527581e+00  0.5294021
##   [1147,] -0.3791589148  0.7323206      0.7571158  4.791929e-01  0.5294021
##   [1148,] -0.5701584530 -1.2120050      0.7571158  1.384666e-01 -1.8889088
##   [1149,]  0.1350706112 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [1150,] -1.0341893824  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1151,]  0.9027418321  1.0100814      0.7571158 -1.501548e-01 -1.8889088
##   [1152,] -0.7244273108 -1.2120050      0.7571158  5.131417e+00  0.5294021
##   [1153,] -0.7709528394  0.4545598     -1.3207918  3.481443e-01  0.5294021
##   [1154,]  1.6569451369  0.4545598      0.7571158 -3.726229e-01  0.5294021
##   [1155,] -1.2986502815 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [1156,]  1.8014191466 -0.6564834     -1.3207918 -2.677840e-01 -1.8889088
##   [1157,]  0.0395708421  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [1158,]  1.2247474639  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [1159,]  0.2158781081 -0.9342442     -1.3207918  5.447171e-01 -1.8889088
##   [1160,]  1.3251446570  1.0100814      0.7571158  4.748420e-01 -1.8889088
##   [1161,]  0.5440055199  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [1162,] -0.4097678152 -0.1009618      0.7571158  2.052286e-02  0.5294021
##   [1163,]  0.2403652284 -0.6564834      0.7571158 -8.431600e-02  0.5294021
##   [1164,] -1.4112910348 -0.9342442      0.7571158 -3.097195e-01  0.5294021
##   [1165,] -0.9093050690  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [1166,] -0.6130109135 -1.4897658      0.7571158 -2.808889e-01  0.5294021
##   [1167,]  1.1035362184 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [1168,] -1.2949772134 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [1169,] -0.8676769645  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [1170,]  1.1059849305  0.4545598      0.7571158 -5.036714e-01  0.5294021
##   [1171,] -1.5422971283 -0.3787226      0.7571158  1.604827e-01  0.5294021
##   [1172,] -0.8591064724  1.0100814      0.7571158  1.331009e+00 -1.8889088
##   [1173,]  0.6627680533 -1.4897658      0.7571158 -5.429860e-01  0.5294021
##   [1174,] -1.3770090664 -0.6564834     -1.3207918 -2.546791e-01  0.5294021
##   [1175,] -0.5983186413  0.1767990      0.7571158  1.804021e-01  0.5294021
##   [1176,]  1.7708102462  0.4545598      0.7571158  5.447171e-01 -1.8889088
##   [1177,] -0.8591064724 -0.9342442     -1.3207918  9.640726e-01  0.5294021
##   [1178,] -0.4305818674  1.0100814      0.7571158  2.170957e-01 -1.8889088
```

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##   [1179,]  0.2575062126 -0.1009618      0.7571158 -2.153646e-01  0.5294021
##   [1180,] -0.7856451115 -0.3787226      0.7571158  1.942933e-01  0.5294021
##   [1181,]  0.3970827982  1.0100814     -1.3207918  2.433054e-01 -1.8889088
##   [1182,] -0.9950099900  0.4545598     -1.3207918  6.102414e-01  0.5294021
##   [1183,] -0.3363064543  1.0100814      0.7571158  7.418002e-03 -1.8889088
##   [1184,] -0.9668498016 -0.3787226     -1.3207918 -1.760500e-01  0.5294021
##   [1185,] -0.5640366729 -0.9342442     -1.3207918  4.529831e-01  0.5294021
##   [1186,]  0.1803717837  1.0100814      0.7571158 -6.871394e-01  0.5294021
##   [1187,] -0.7525874991  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [1188,] -1.4786306156 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [1189,] -1.1137725233 -1.4897658      0.7571158  2.142258e-01  0.5294021
##   [1190,] -0.8064591638  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [1191,]  1.3704458295  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1192,] -0.7611579912 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [1193,] -0.8321706401 -0.1009618     -1.3207918 -1.760500e-01  0.5294021
##   [1194,] -1.7896170432  1.0100814     -1.3207918  7.412900e-01  0.5294021
##   [1195,] -0.0204226026 -1.4897658      0.7571158  1.920727e+00  0.5294021
##   [1196,]  1.0680298940  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [1197,]  0.1962884119  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [1198,] -1.6708545098  0.4545598     -1.3207918  2.052286e-02  0.5294021
##   [1199,] -0.5040432282 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [1200,]  0.8072420630  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [1201,] -0.9423626813  1.0100814     -1.3207918  4.791929e-01 -1.8889088
##   [1202,]  1.7781563823  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1203,] -1.1578493399 -1.4897658      0.7571158  6.102414e-01  0.5294021
##   [1204,]  0.4803390072  1.0100814     -1.3207918  2.170957e-01 -1.8889088
##   [1205,] -0.6644338661  1.0100814     -1.3207918  8.592337e-01  0.5294021
##   [1206,]  0.3517816257 -0.9342442      0.7571158  6.888706e-01  0.5294021
##   [1207,]  0.1815961397  1.0100814     -1.3207918 -2.756469e-01 -1.8889088
##   [1208,]  1.2357666680  1.0100814      0.7571158  3.743540e-01 -1.8889088
##   [1209,]  0.9480430046 -1.4897658      0.7571158 -4.512520e-01 -1.8889088
##   [1210,]  1.7010219534  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [1211,]  0.1081347789  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1212,] -1.4014961867  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [1213,]  1.2027090556 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [1214,] -0.2873322137  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1215,] -1.2509003969 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [1216,]  0.6554219172 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [1217,] -0.6093378455  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [1218,]  0.2171024641 -1.2120050     -1.3207918 -7.395589e-01  0.5294021
##   [1219,]  0.6505244932 -0.1009618      0.7571158 -1.629451e-01 -1.8889088
##   [1220,] -1.0807149110  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [1221,] -1.9634755972 -0.3787226      0.7571158  5.983743e-02  0.5294021
##   [1222,] -1.1198943034 -0.9342442      0.7571158 -2.808889e-01  0.5294021
##   [1223,] -1.8667514721  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1224,]  0.8537675915  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [1225,] -1.1015289632  1.0100814      0.7571158  7.032132e-02  0.5294021
##   [1226,]  0.7913254348  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [1227,] -0.7256516668  1.0100814      0.7571158 -2.078365e-02  0.5294021
##   [1228,] -1.3219130458 -0.9342442     -1.3207918  1.121331e+00  0.5294021
##   [1229,] -1.3917013386  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1230,]  0.8672355077  1.0100814      0.7571158 -3.490341e-01 -1.8889088
##   [1231,] -0.9717472257  0.7323206      0.7571158  2.641494e+00  0.5294021
##   [1232,] -0.5701584530 -0.1009618     -1.3207918 -4.381471e-01  0.5294021
##   [1233,] -1.1419327117  0.4545598     -1.3207918  7.294229e-02 -1.8889088
##   [1234,]  0.9859980411  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [1235,] -0.3216141821  0.1767990     -1.3207918 -4.643569e-01 -1.8889088
##   [1236,]  0.0297759940  1.0100814     -1.3207918  7.294229e-02 -1.8889088
##   [1237,] -0.7305490909  1.0100814      0.7571158  7.937094e-01 -1.8889088
##   [1238,] -0.0779673353  0.7323206      0.7571158 -6.347200e-01 -1.8889088
##   [1239,]  1.8087652826  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [1240,]  0.3481085577 -0.6564834     -1.3207918  1.199960e+00  0.5294021
##   [1241,] -0.1710183924 -1.2120050      0.7571158  8.330240e-01  0.5294021
##   [1242,]  0.3689226099 -0.9342442      0.7571158 -1.354977e-02  0.5294021
##   [1243,] -1.0390868065  1.0100814      0.7571158  3.593417e-02 -1.8889088
##   [1244,] -0.3509987265  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [1245,]  1.9214060360  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1246,] -1.4345537991  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [1247,] -1.3819064905  1.0100814      0.7571158 -4.119374e-01 -1.8889088
##   [1248,] -0.6681069342  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1249,] -0.1146980157  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [1250,]  1.1733245113  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [1251,]  0.1216026950  1.0100814     -1.3207918  8.670966e-01 -1.8889088
##   [1252,] -0.0387879428 -1.4897658      0.7571158  3.809064e-01  0.5294021
##   [1253,]  0.9113123242 -0.9342442      0.7571158  1.754909e-01 -1.8889088
##   [1254,] -1.3427270980  1.0100814      0.7571158  1.396533e+00 -1.8889088
##   [1255,] -0.4697612599  0.1767990     -1.3207918 -4.119374e-01 -1.8889088
##   [1256,] -0.2873322137 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [1257,]  0.0163080778 -0.1009618      0.7571158  8.604715e-02  0.5294021
##   [1258,] -1.8655271161  1.0100814      0.7571158  1.199960e+00 -1.8889088
##   [1259,]  0.4693198031 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [1260,] -1.5104638720 -1.4897658      0.7571158 -2.284694e-01  0.5294021
##   [1261,] -1.1321378636 -0.9342442      0.7571158  6.626609e-01  0.5294021
##   [1262,] -0.6742287142 -1.2120050      0.7571158  3.481443e-01 -1.8889088
##   [1263,] -1.4761819036 -0.9342442      0.7571158 -1.257273e-01  0.5294021
##   [1264,]  0.1118078469  1.0100814      0.7571158 -4.250423e-01 -1.8889088
##   [1265,]  1.4414584784  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [1266,]  0.5709413523 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [1267,] -1.3806821344 -0.9342442      0.7571158  3.743540e-01  0.5294021
##   [1268,]  1.9997648209  0.1767990      0.7571158  1.265484e+00  0.5294021
##   [1269,]  1.4206444261 -1.4897658     -1.3207918  8.655738e-04 -1.8889088
##   [1270,] -0.3718127787 -1.2120050      0.7571158 -7.002443e-01  0.5294021
##   [1271,] -0.1906080886 -0.6564834      0.7571158  4.673257e-02  0.5294021
##   [1272,]  0.6750116135 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [1273,] -1.2227402086  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [1274,] -0.5419982647  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [1275,]  1.2222987518  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [1276,] -1.7247261744 -1.4897658      0.7571158 -4.500143e-02  0.5294021
```

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##   [1277,]  0.8084664190  1.0100814     -1.3207918 -2.808889e-01 -1.8889088
##   [1278,] -0.1330633559  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [1279,]  0.8219343352 -0.6564834      0.7571158 -1.105257e-01  0.5294021
##   [1280,] -0.4771073959  0.4545598      0.7571158  1.331009e+00 -1.8889088
##   [1281,] -0.4575176997 -1.2120050      0.7571158  2.052286e-02  0.5294021
##   [1282,] -0.1857106645 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [1283,]  0.9957928892 -0.6564834     -1.3207918  1.068911e+00 -1.8889088
##   [1284,] -0.1955055127  0.4545598      0.7571158 -2.704050e-01  0.5294021
##   [1285,]  0.9211071723  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [1286,]  0.9553891407 -0.1009618     -1.3207918 -2.546791e-01  0.5294021
##   [1287,] -0.1134736597  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [1288,]  0.2060832600 -0.3787226      0.7571158  1.789679e+00  0.5294021
##   [1289,]  0.1913909878 -0.6564834     -1.3207918 -4.005100e-01  0.5294021
##   [1290,] -0.2126464969  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [1291,]  0.5329863158 -1.2120050     -1.3207918 -4.905666e-01  0.5294021
##   [1292,] -0.3301846742  1.0100814     -1.3207918 -5.954054e-01  0.5294021
##   [1293,] -0.3130436900 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [1294,] -1.2362081248 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [1295,]  1.5467530956  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [1296,] -0.5885237932 -0.1009618      0.7571158  4.791929e-01 -1.8889088
##   [1297,] -0.6497415939  1.0100814      0.7571158 -5.220182e-01  0.5294021
##   [1298,]  0.4460570388  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [1299,] -0.5040432282  1.0100814      0.7571158  1.789679e+00 -1.8889088
##   [1300,]  0.7447999063  1.0100814     -1.3207918 -6.740346e-01  0.5294021
##   [1301,]  2.1197517103  1.0100814      0.7571158 -8.575026e-01  0.5294021
##   [1302,] -2.1544751354 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [1303,] -0.3865050509  1.0100814     -1.3207918 -9.742085e-02 -1.8889088
##   [1304,]  1.7732589582  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [1305,]  0.4105507144  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [1306,] -0.4085434591  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [1307,]  0.4129994264  0.1767990     -1.3207918  2.052286e-02 -1.8889088
##   [1308,]  0.0799745905 -0.3787226      0.7571158 -2.415743e-01 -1.8889088
##   [1309,]  0.6248130169 -0.9342442     -1.3207918 -4.119374e-01  0.5294021
##   [1310,]  2.1111812182  1.0100814      0.7571158 -2.762890e-01  0.5294021
##   [1311,] -1.6255533373 -0.9342442     -1.3207918  4.791929e-01  0.5294021
##   [1312,] -0.2053003608  1.0100814      0.7571158  2.433054e-01 -1.8889088
##   [1313,]  0.4778902952 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [1314,]  0.7484729743 -0.9342442      0.7571158 -4.250423e-01  0.5294021
##   [1315,]  1.3471830653  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [1316,]  0.5048261275  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [1317,] -0.4917996681  0.4545598      0.7571158 -1.760500e-01  0.5294021
##   [1318,]  1.2137282597 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##   [1319,] -0.6754530702  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [1320,]  1.3618753374  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1321,]  1.4365610543 -0.1009618     -1.3207918 -4.250423e-01  0.5294021
##   [1322,] -0.5456713327  0.4545598      0.7571158  1.724154e+00  0.5294021
##   [1323,] -1.7847196191  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [1324,] -0.0510315030 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [1325,] -1.2227402086 -0.1009618     -1.3207918 -5.036714e-01  0.5294021
##   [1326,]  0.9174341043 -1.2120050     -1.3207918 -6.572604e-01  0.5294021
##   [1327,]  0.9162097483  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [1328,]  0.3052560972 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [1329,] -2.0430587381 -0.3787226      0.7571158 -1.498403e-01  0.5294021
##   [1330,] -0.7574849232 -0.1009618      0.7571158  5.733250e-01  0.5294021
##   [1331,]  0.0567118263 -0.6564834     -1.3207918  5.447171e-01  0.5294021
##   [1332,] -0.2114221408 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [1333,]  1.6826566132  1.0100814      0.7571158  2.498579e-01  0.5294021
##   [1334,]  0.3836148821 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [1335,]  0.5795118444  1.0100814      0.7571158 -2.677840e-01 -1.8889088
##   [1336,]  0.9162097483  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [1337,] -1.4847523957  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1338,] -1.3133425537 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [1339,]  0.8537675915  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [1340,] -0.6889209864  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [1341,] -1.6830980700  0.1767990      0.7571158  3.624359e+00 -1.8889088
##   [1342,] -0.4097678152  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [1343,] -0.3216141821 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [1344,]  1.3435099972 -0.6564834      0.7571158 -2.743364e-01  0.5294021
##   [1345,] -1.1615224079  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [1346,] -0.2873322137  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [1347,]  0.0958912187  0.4545598     -1.3207918 -4.394576e-01  0.5294021
##   [1348,]  0.1901666318  1.0100814     -1.3207918 -6.990065e-02  0.5294021
##   [1349,] -0.8958371528 -0.3787226      0.7571158  8.604715e-02  0.5294021
##   [1350,]  0.6688898334  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [1351,] -0.8823692366  0.4545598      0.7571158  2.169719e+00 -1.8889088
##   [1352,]  2.1528093226  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [1353,] -0.2408066852 -1.2120050      0.7571158 -5.691957e-01  0.5294021
##   [1354,]  1.6361310846  1.0100814      0.7571158 -4.365850e-01 -1.8889088
##   [1355,] -1.4210858829  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1356,] -0.7905425356  1.0100814     -1.3207918 -4.643569e-01 -1.8889088
##   [1357,] -0.1538774082  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [1358,]  0.5219671117  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [1359,] -1.7100339023 -0.3787226     -1.3207918 -5.298811e-01  0.5294021
##   [1360,]  0.2697497727  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [1361,] -0.2371336171 -0.9342442      0.7571158  1.515714e-01 -1.8889088
##   [1362,]  0.2856664009 -1.4897658      0.7571158  1.527581e+00  0.5294021
##   [1363,] -0.3705884227 -0.1009618     -1.3207918 -1.105257e-01 -1.8889088
##   [1364,] -0.7550362112 -1.4897658     -1.3207918  4.791929e-01 -1.8889088
##   [1365,] -1.9316423409  1.0100814     -1.3207918 -3.070986e-01 -1.8889088
##   [1366,] -0.0706211992 -1.4897658     -1.3207918 -4.578044e-01  0.5294021
##   [1367,] -0.9044076449  0.4545598     -1.3207918  3.219346e-01  0.5294021
##   [1368,] -0.4942483801 -0.1009618     -1.3207918 -3.726229e-01 -1.8889088
##   [1369,] -1.2288619887  1.0100814      0.7571158  1.134436e+00 -1.8889088
##   [1370,]  0.5342106718  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [1371,] -1.4137397468 -1.2120050     -1.3207918  1.265484e+00  0.5294021
##   [1372,] -0.6142352695  1.0100814      0.7571158  5.952683e-01 -1.8889088
##   [1373,] -0.8762474566  1.0100814      0.7571158 -3.005461e-01  0.5294021
##   [1374,] -1.0060291941  1.0100814      0.7571158 -1.105257e-01  0.5294021
```

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##   [1375,] -0.8113565878  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [1376,]  0.0775258785  0.7323206      0.7571158 -6.085103e-01  0.5294021
##   [1377,] -0.7574849232  1.0100814      0.7571158  9.509677e-01  0.5294021
##   [1378,]  0.0726284545  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [1379,] -1.4210858829 -1.4897658     -1.3207918  2.313873e+00 -1.8889088
##   [1380,]  0.6958256657  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [1381,]  1.6691886970  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [1382,] -1.2888554334  1.0100814      0.7571158 -1.999664e-01  0.5294021
##   [1383,]  0.1289488311  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [1384,] -0.3852806949 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [1385,] -0.3558961505  1.0100814      0.7571158 -6.661717e-01  0.5294021
##   [1386,]  2.2776936361 -0.3787226      0.7571158 -4.250423e-01  0.5294021
##   [1387,] -0.3399795223  1.0100814      0.7571158  7.674997e-01 -1.8889088
##   [1388,]  0.3395380656  1.0100814     -1.3207918 -8.431600e-02  0.5294021
##   [1389,]  2.0230275851  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [1390,] -0.2114221408  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [1391,] -0.5015945162  1.0100814     -1.3207918 -2.612316e-01  0.5294021
##   [1392,] -0.1955055127 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [1393,] -1.4259833070  1.0100814      0.7571158 -1.743726e-01 -1.8889088
##   [1394,]  0.5513516560 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [1395,]  0.6823577495 -0.6564834      0.7571158  1.777811e-01  0.5294021
##   [1396,] -0.1722427484 -0.1009618      0.7571158  2.051776e+00  0.5294021
##   [1397,] -0.0583776391 -0.3787226      0.7571158  6.364511e-01  0.5294021
##   [1398,] -0.2053003608 -0.9342442     -1.3207918 -3.726229e-01  0.5294021
##   [1399,] -0.4122165272  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [1400,] -0.2518258893  1.0100814      0.7571158  2.562865e+00  0.5294021
##   [1401,]  0.9957928892 -1.4897658     -1.3207918 -5.429860e-01  0.5294021
##   [1402,]  0.2636279927  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [1403,]  0.1987371239  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [1404,] -0.9215486291 -0.9342442      0.7571158 -4.643569e-01  0.5294021
##   [1405,] -0.8113565878 -1.4897658      0.7571158 -3.857277e-01  0.5294021
##   [1406,] -1.0439842305 -1.4897658      0.7571158  1.253617e-01  0.5294021
##   [1407,] -1.4774062596  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [1408,] -1.3133425537 -1.2120050     -1.3207918 -4.643569e-01 -1.8889088
##   [1409,]  1.2516832962  0.1767990     -1.3207918 -4.643569e-01  0.5294021
##   [1410,]  0.5868579804  1.0100814      0.7571158  1.029597e+00  0.5294021
##   [1411,]  0.7386781262 -1.4897658     -1.3207918  1.122569e-01  0.5294021
##   [1412,]  0.6615436973  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [1413,]  1.2884139766  0.4545598      0.7571158 -2.415743e-01  0.5294021
##   [1414,] -0.8431898442 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [1415,]  0.9957928892  1.0100814      0.7571158  6.181043e-01  0.5294021
##   [1416,] -0.3534474385  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [1417,] -0.4232357313 -0.9342442     -1.3207918  7.412900e-01  0.5294021
##   [1418,]  1.1598565951 -0.3787226      0.7571158 -2.022597e-01  0.5294021
##   [1419,] -0.4648638358 -0.1009618     -1.3207918 -5.036714e-01  0.5294021
##   [1420,] -1.8422643518 -1.4897658     -1.3207918 -4.119374e-01  0.5294021
##   [1421,] -0.1355120680 -0.6564834      0.7571158  5.444550e-01 -1.8889088
##   [1422,] -0.0975570315  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [1423,] -0.5701584530  0.1767990      0.7571158  1.396533e+00  0.5294021
##   [1424,]  0.3505572697  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [1425,] -0.4134408832  0.4545598      0.7571158  1.908860e-01  0.5294021
##   [1426,] -1.4272076630  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [1427,]  1.9593610724 -0.6564834      0.7571158 -7.395589e-01  0.5294021
##   [1428,] -0.8982858648 -1.4897658     -1.3207918 -1.879171e-02  0.5294021
##   [1429,] -0.0914352515 -1.4897658      0.7571158  3.572449e-02  0.5294021
##   [1430,]  0.6970500217 -0.6564834     -1.3207918 -2.546791e-01 -1.8889088
##   [1431,] -1.8190015875  1.0100814      0.7571158  9.254715e-02  0.5294021
##   [1432,] -0.7268760228  0.1767990      0.7571158  1.789679e+00  0.5294021
##   [1433,] -0.7672797713  1.0100814     -1.3207918 -3.314153e-02 -1.8889088
##   [1434,] -1.7271748865 -0.9342442     -1.3207918  5.447171e-01 -1.8889088
##   [1435,] -0.8309462841  1.0100814      0.7571158 -4.643569e-01 -1.8889088
##   [1436,]  0.2819933329 -1.2120050      0.7571158 -1.498403e-01  0.5294021
##   [1437,]  0.9945685332  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [1438,] -1.6414699655 -1.4897658     -1.3207918  7.412900e-01  0.5294021
##   [1439,] -0.8542090483 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [1440,] -1.2729388052 -1.2120050     -1.3207918 -8.706074e-01  0.5294021
##   [1441,] -0.9607280216  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [1442,] -0.8395167762  1.0100814     -1.3207918  6.757657e-01  0.5294021
##   [1443,] -0.8835935927  1.0100814     -1.3207918  7.412900e-01  0.5294021
##   [1444,] -0.9386896133 -0.3787226      0.7571158 -1.105257e-01  0.5294021
##   [1445,] -0.8064591638 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [1446,] -0.3497743705 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [1447,]  0.1436411033  1.0100814      0.7571158  8.854434e-01 -1.8889088
##   [1448,]  0.9896711091 -0.6564834     -1.3207918 -4.381471e-01 -1.8889088
##   [1449,]  0.5366593839  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [1450,]  0.1020129988 -1.2120050      0.7571158 -5.954054e-01  0.5294021
##   [1451,] -0.4122165272  0.4545598     -1.3207918 -1.105257e-01  0.5294021
##   [1452,] -0.8468629122  0.1767990      0.7571158  1.462057e+00  0.5294021
##   [1453,]  0.4019802223  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [1454,] -2.1067252509  1.0100814     -1.3207918  3.743540e-01  0.5294021
##   [1455,]  0.2428139404  1.0100814      0.7571158 -1.826024e-01 -1.8889088
##   [1456,] -0.6203570496  1.0100814      0.7571158  2.957249e-01  0.5294021
##   [1457,] -0.5371008406 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [1458,] -0.5872994372  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1459,] -1.3084451296 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [1460,] -0.1122493037 -1.4897658     -1.3207918 -7.657686e-01  0.5294021
##   [1461,] -0.6032160654  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [1462,]  2.0169058051  1.0100814      0.7571158 -3.945211e-01  0.5294021
##   [1463,] -0.4807804640  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [1464,] -1.5496432644 -0.9342442      0.7571158 -3.070986e-01 -1.8889088
##   [1465,] -0.4832291760 -0.6564834      0.7571158  1.777811e-01 -1.8889088
##   [1466,]  0.2587305686  1.0100814     -1.3207918 -7.657686e-01  0.5294021
##   [1467,] -0.7011645465 -1.2120050      0.7571158  2.052286e-02 -1.8889088
##   [1468,] -1.2582465330  1.0100814     -1.3207918  6.757657e-01 -1.8889088
##   [1469,] -0.6313762537  1.0100814      0.7571158  3.435576e-01  0.5294021
##   [1470,] -0.9656254456 -1.2120050      0.7571158 -3.596228e-01 -1.8889088
##   [1471,] -0.7844207555  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [1472,] -0.9595036655 -1.4897658      0.7571158 -3.333083e-01  0.5294021
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##   [1473,] -0.5542418248  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [1474,] -1.7161556823  1.0100814      0.7571158  3.219346e-01  0.5294021
##   [1475,]  0.8243830472 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [1476,]  1.8479446751 -1.4897658     -1.3207918 -5.482279e-01  0.5294021
##   [1477,] -0.6387223898 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [1478,] -0.3620179306 -0.1009618      0.7571158 -2.022597e-01 -1.8889088
##   [1479,]  0.5758387763 -1.4897658      0.7571158 -4.119374e-01 -1.8889088
##   [1480,]  0.1485385273  1.0100814     -1.3207918 -2.022597e-01 -1.8889088
##   [1481,] -1.1811121041  1.0100814     -1.3207918 -5.823006e-01  0.5294021
##   [1482,] -1.2019261564  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [1483,] -0.3399795223  1.0100814      0.7571158 -1.957073e-01 -1.8889088
##   [1484,] -0.4391523595 -0.1009618     -1.3207918 -5.691957e-01  0.5294021
##   [1485,]  0.0934425067 -0.6564834      0.7571158 -4.381471e-01 -1.8889088
##   [1486,] -0.6399467458 -1.4897658      0.7571158 -1.236306e-01  0.5294021
##   [1487,]  0.2391408724  0.4545598     -1.3207918 -4.500143e-02 -1.8889088
##   [1488,] -1.1982530883 -1.2120050      0.7571158  1.763469e+00  0.5294021
##   [1489,] -0.4060947471 -0.6564834      0.7571158  1.789679e+00 -1.8889088
##   [1490,]  1.3986060179  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [1491,] -0.3436525904  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [1492,]  0.1766987157  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [1493,] -0.0902108954 -1.2120050     -1.3207918 -4.250423e-01 -1.8889088
##   [1494,]  0.3236214374  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [1495,] -0.0742942673 -0.3787226     -1.3207918 -2.022597e-01 -1.8889088
##   [1496,] -0.4342549354 -0.1009618      0.7571158  7.418002e-03  0.5294021
##   [1497,] -1.1492788478  0.7323206      0.7571158  7.687375e-02  0.5294021
##   [1498,]  0.7264345661 -0.9342442     -1.3207918 -2.808889e-01  0.5294021
##   [1499,] -0.4758830399 -0.3787226     -1.3207918 -4.381471e-01  0.5294021
##   [1500,]  2.1197517103 -1.2120050      0.7571158 -2.153646e-01  0.5294021
##   [1501,]  0.6431783571  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [1502,]  0.8317291833  1.0100814      0.7571158 -3.202034e-01  0.5294021
##   [1503,]  0.7019474458  1.0100814     -1.3207918 -8.848655e-01  0.5294021
##   [1504,] -0.1563261202 -0.9342442      0.7571158  5.447171e-01  0.5294021
##   [1505,] -0.8762474566 -0.9342442      0.7571158 -3.726229e-01  0.5294021
##   [1506,]  0.4460570388  0.1767990     -1.3207918 -1.760500e-01 -1.8889088
##   [1507,]  0.0934425067 -0.6564834      0.7571158 -8.578374e-02  0.5294021
##   [1508,]  1.6838809692  1.0100814      0.7571158 -3.857277e-01 -1.8889088
##   [1509,]  0.5476785880 -0.1009618      0.7571158  6.757657e-01  0.5294021
##   [1510,] -0.1661209683 -1.4897658     -1.3207918 -5.429860e-01  0.5294021
##   [1511,] -0.7770746194  1.0100814      0.7571158  9.771774e-01 -1.8889088
##   [1512,] -0.4036460351  1.0100814     -1.3207918 -3.070986e-01 -1.8889088
##   [1513,]  0.4191212065  1.0100814      0.7571158  5.709269e-01 -1.8889088
##   [1514,]  0.5256401797  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1515,] -1.1737659680  0.4545598     -1.3207918 -2.415743e-01  0.5294021
##   [1516,]  0.6211399488  0.7323206      0.7571158  2.170957e-01  0.5294021
##   [1517,] -1.0856123350  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [1518,] -0.7538118552 -0.6564834      0.7571158  8.068143e-01 -1.8889088
##   [1519,]  0.8072420630  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [1520,]  1.3190228769  0.1767990     -1.3207918 -4.500143e-02 -1.8889088
##   [1521,] -0.6068891334  1.0100814     -1.3207918 -4.465867e-01  0.5294021
##   [1522,]  0.1485385273 -0.3787226     -1.3207918 -5.429860e-01  0.5294021
##   [1523,]  0.3101535212 -1.4897658      0.7571158 -4.119374e-01  0.5294021
##   [1524,] -1.1247917275  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [1525,] -2.0491805182 -0.6564834      0.7571158 -1.498403e-01  0.5294021
##   [1526,] -1.3745603544 -1.4897658      0.7571158 -4.288427e-01  0.5294021
##   [1527,] -0.1049031676 -0.6564834     -1.3207918  5.328500e-02  0.5294021
##   [1528,] -0.1673453243 -1.2120050     -1.3207918  2.052286e-02 -1.8889088
##   [1529,] -1.5043420919  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [1530,] -0.8419654882 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##   [1531,]  1.0876195903 -0.3787226      0.7571158 -3.726229e-01  0.5294021
##   [1532,] -0.6583120860 -1.4897658     -1.3207918 -1.629451e-01  0.5294021
##   [1533,] -1.3182399777  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [1534,] -1.7002390542  1.0100814      0.7571158  5.459039e+00  0.5294021
##   [1535,] -0.6019917094  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [1536,] -1.0305163144 -0.1009618      0.7571158  6.757657e-01  0.5294021
##   [1537,] -0.3203898261  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1538,] -0.3265116062 -0.3787226      0.7571158  1.253617e-01  0.5294021
##   [1539,] -0.8737987445  0.7323206      0.7571158  9.378629e-01  0.5294021
##   [1540,] -1.6206559132  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [1541,]  0.1265001191  0.1767990      0.7571158  1.515714e-01 -1.8889088
##   [1542,]  0.9174341043 -1.2120050      0.7571158 -3.464131e-01  0.5294021
##   [1543,] -1.0905097591  1.0100814      0.7571158  1.068911e+00 -1.8889088
##   [1544,] -0.8223757920  1.0100814      0.7571158 -1.957073e-01  0.5294021
##   [1545,] -1.8483861319 -0.6564834     -1.3207918  8.723386e-01  0.5294021
##   [1546,] -0.7268760228 -0.9342442      0.7571158 -1.879171e-02  0.5294021
##   [1547,] -1.3353809619 -1.4897658      0.7571158 -2.546791e-01 -1.8889088
##   [1548,] -0.4146652392 -0.9342442     -1.3207918 -2.415743e-01 -1.8889088
##   [1549,] -0.4575176997  0.7323206      0.7571158 -4.161310e-01 -1.8889088
##   [1550,] -1.2007018004 -0.6564834     -1.3207918 -5.650284e-01  0.5294021
##   [1551,] -0.7623823473  1.0100814     -1.3207918 -5.810628e-02  0.5294021
##   [1552,] -0.0106277545  1.0100814      0.7571158 -6.085103e-01  0.5294021
##   [1553,] -1.1798877481 -1.4897658     -1.3207918  1.789679e+00  0.5294021
##   [1554,] -1.3464001660 -0.6564834     -1.3207918  1.095121e+00 -1.8889088
##   [1555,] -0.8174783679 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [1556,] -1.1762146801  1.0100814     -1.3207918  1.488267e+00  0.5294021
##   [1557,]  0.0114106537  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [1558,]  1.4463559024 -0.1009618      0.7571158 -3.768295e-01 -1.8889088
##   [1559,] -0.6179083376  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [1560,]  1.4745160908 -1.2120050     -1.3207918 -6.216151e-01  0.5294021
##   [1561,] -1.2484516849 -0.9342442     -1.3207918  3.205513e-02  0.5294021
##   [1562,] -0.6656582221 -0.1009618      0.7571158 -1.879171e-02  0.5294021
##   [1563,]  0.0677310304  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [1564,] -0.6570877300  1.0100814     -1.3207918 -6.347200e-01  0.5294021
##   [1565,]  1.0264017895  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [1566,]  1.1451643229  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [1567,] -0.2628450934  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [1568,] -0.9937856339  1.0100814      0.7571158  2.182824e+00  0.5294021
##   [1569,] -1.3904769826  1.0100814     -1.3207918  4.005637e-01  0.5294021
##   [1570,] -0.6950427665  1.0100814      0.7571158  1.319141e-01  0.5294021
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##   [1571,]  0.4987043474  0.7323206      0.7571158 -1.760500e-01  0.5294021
##   [1572,] -1.0207214663  1.0100814     -1.3207918 -2.939937e-01 -1.8889088
##   [1573,] -1.3378296739 -0.3787226     -1.3207918  1.908860e-01  0.5294021
##   [1574,] -0.4538446317  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1575,] -0.9337921892  0.1767990     -1.3207918 -5.560909e-01  0.5294021
##   [1576,] -1.0427598745 -0.9342442     -1.3207918 -4.119374e-01  0.5294021
##   [1577,] -0.9448113934 -0.1009618      0.7571158  8.068143e-01  0.5294021
##   [1578,] -0.8737987445  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [1579,] -0.8284975720  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [1580,] -0.6791261383  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1581,] -1.8422643518 -1.2120050     -1.3207918  1.855203e+00  0.5294021
##   [1582,]  1.3129010969 -1.4897658     -1.3207918  2.039909e-01  0.5294021
##   [1583,] -0.2579476694  1.0100814     -1.3207918  1.396533e+00  0.5294021
##   [1584,] -0.0902108954  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1585,]  1.2700486364  1.0100814     -1.3207918 -6.347200e-01  0.5294021
##   [1586,]  0.0995642868  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [1587,] -0.0889865394 -1.4897658      0.7571158  1.363698e-01  0.5294021
##   [1588,] -0.5603636049 -1.4897658      0.7571158 -6.640749e-01  0.5294021
##   [1589,] -0.5566905369  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [1590,] -1.1847851722  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [1591,] -0.0571532831  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [1592,]  0.5966528285 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [1593,]  1.7610153981 -0.3787226      0.7571158 -3.726229e-01 -1.8889088
##   [1594,] -1.3990474747 -1.2120050      0.7571158  8.604715e-02 -1.8889088
##   [1595,]  0.6860308176  0.7323206     -1.3207918 -1.105257e-01  0.5294021
##   [1596,]  1.8528420992 -1.2120050     -1.3207918 -5.429860e-01  0.5294021
##   [1597,] -1.9169500687 -1.2120050      0.7571158 -1.891549e-01  0.5294021
##   [1598,]  0.6774603255 -1.2120050      0.7571158  2.592803e-01  0.5294021
##   [1599,]  0.2415895844  0.4545598     -1.3207918  3.481443e-01 -1.8889088
##   [1600,]  0.0114106537  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [1601,] -1.0978558952  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [1602,]  1.3484074213  0.1767990      0.7571158 -6.085103e-01  0.5294021
##   [1603,]  0.9015174761 -0.1009618      0.7571158 -4.381471e-01  0.5294021
##   [1604,]  0.2036345480  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [1605,]  0.2795446209  0.1767990     -1.3207918 -4.381471e-01  0.5294021
##   [1606,] -1.1076507433 -1.2120050     -1.3207918 -1.760500e-01  0.5294021
##   [1607,] -0.0693968432  1.0100814     -1.3207918 -3.189657e-02 -1.8889088
##   [1608,] -1.8434887078 -0.9342442     -1.3207918 -2.461610e-01  0.5294021
##   [1609,] -1.3390540300  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [1610,]  0.3432111336  1.0100814      0.7571158 -3.408174e-01 -1.8889088
##   [1611,]  0.9027418321  0.7323206      0.7571158 -8.431600e-02  0.5294021
##   [1612,] -0.1808132405  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [1613,] -1.1137725233 -0.9342442      0.7571158  3.350394e-01  0.5294021
##   [1614,]  1.3141254529 -1.2120050      0.7571158 -5.429860e-01  0.5294021
##   [1615,] -0.9582793095  1.0100814     -1.3207918 -4.512520e-01  0.5294021
##   [1616,] -0.5334277726 -1.4897658      0.7571158  7.412900e-01  0.5294021
##   [1617,] -0.4244600873 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [1618,]  1.6361310846 -1.4897658      0.7571158 -6.886072e-01 -1.8889088
##   [1619,] -0.8480872683 -1.4897658      0.7571158  1.515714e-01 -1.8889088
##   [1620,]  1.3961573058  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [1621,]  1.4928814310  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [1622,] -0.9129781370  0.7323206      0.7571158  3.820931e+00 -1.8889088
##   [1623,] -2.0430587381 -0.6564834     -1.3207918  1.527581e+00  0.5294021
##   [1624,] -0.7611579912  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1625,] -0.2836591457 -0.6564834      0.7571158 -3.778648e-01  0.5294021
##   [1626,] -0.2004029367 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [1627,] -0.7611579912  0.4545598      0.7571158 -1.760500e-01  0.5294021
##   [1628,] -0.0706211992  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [1629,] -1.4259833070 -1.4897658      0.7571158  8.068143e-01  0.5294021
##   [1630,]  1.0006903132 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [1631,]  0.8207099792 -0.6564834     -1.3207918 -3.726229e-01  0.5294021
##   [1632,] -2.1263149471  0.4545598     -1.3207918  1.003387e+00  0.5294021
##   [1633,] -0.1502043401  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [1634,] -0.5860750812  1.0100814      0.7571158 -4.958085e-01  0.5294021
##   [1635,]  1.8761048634  0.7323206      0.7571158 -7.002443e-01  0.5294021
##   [1636,]  0.5684926402  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [1637,] -1.1529519158 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [1638,]  0.4056532903 -1.4897658      0.7571158 -2.808889e-01  0.5294021
##   [1639,]  0.4791146512  1.0100814      0.7571158  1.777811e-01 -1.8889088
##   [1640,] -1.8275720796  1.0100814     -1.3207918  9.985378e+00  0.5294021
##   [1641,]  0.1571090194 -0.1009618      0.7571158 -2.808889e-01  0.5294021
##   [1642,]  0.5464542320 -0.1009618     -1.3207918 -1.020862e-01  0.5294021
##   [1643,]  0.0432439101 -0.9342442      0.7571158  6.102414e-01  0.5294021
##   [1644,]  1.2137282597  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [1645,]  0.5562490801 -0.6564834      0.7571158 -7.264540e-01  0.5294021
##   [1646,] -0.4734343279  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [1647,]  0.1277244751 -0.3787226      0.7571158  6.102414e-01  0.5294021
##   [1648,] -0.2163195649 -1.4897658      0.7571158  5.469450e-01  0.5294021
##   [1649,] -0.5309790606  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [1650,]  0.3113778772 -0.1009618      0.7571158 -5.888530e-01 -1.8889088
##   [1651,] -1.4467973592 -0.1009618     -1.3207918  8.068143e-01  0.5294021
##   [1652,]  0.6150181688  1.0100814      0.7571158  2.039909e-01  0.5294021
##   [1653,]  0.1705769356 -0.6564834      0.7571158 -5.691957e-01 -1.8889088
##   [1654,] -1.2949772134 -0.6564834     -1.3207918  1.515714e-01  0.5294021
##   [1655,] -0.8995102208 -0.9342442      0.7571158 -4.381471e-01  0.5294021
##   [1656,] -0.2040760048  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [1657,]  0.2195511762 -0.3787226      0.7571158 -1.760500e-01  0.5294021
##   [1658,] -1.5410727723 -1.2120050     -1.3207918 -2.153646e-01  0.5294021
##   [1659,]  0.0909937947 -0.6564834      0.7571158 -4.446996e-01  0.5294021
##   [1660,] -0.2787617216  0.7323206     -1.3207918  1.515714e-01  0.5294021
##   [1661,] -1.4382268671 -0.3787226     -1.3207918  8.604715e-02 -1.8889088
##   [1662,]  1.5100224152  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [1663,]  0.8500945235  1.0100814      0.7571158 -5.298811e-01 -1.8889088
##   [1664,] -0.6350493218 -1.4897658      0.7571158  6.364511e-01 -1.8889088
##   [1665,]  1.1512861030  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [1666,] -0.8933884408  1.0100814      0.7571158  3.493310e+00  0.5294021
##   [1667,]  1.1965872755  1.0100814      0.7571158  1.253617e-01 -1.8889088
##   [1668,] -0.4587420557  1.0100814      0.7571158  2.695151e-01  0.5294021
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##   [1669,] -0.6166839816  0.7323206     -1.3207918  2.052286e-02  0.5294021
##   [1670,] -0.1930568006  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1671,] -1.2019261564 -1.2120050      0.7571158 -6.740346e-01  0.5294021
##   [1672,]  1.4622725306  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [1673,] -0.4391523595 -0.3787226     -1.3207918 -6.740346e-01  0.5294021
##   [1674,]  0.2440382964 -0.1009618      0.7571158  2.695151e-01  0.5294021
##   [1675,] -1.0268432463  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [1676,]  0.0591605383 -1.4897658     -1.3207918 -5.155385e-02  0.5294021
##   [1677,]  2.1503606106  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [1678,] -0.5836263692 -0.6564834      0.7571158 -4.500143e-02 -1.8889088
##   [1679,] -1.1162212354  0.1767990      0.7571158 -3.726229e-01  0.5294021
##   [1680,]  1.0251774335  1.0100814     -1.3207918 -1.432879e-01  0.5294021
##   [1681,] -0.4820048200 -1.2120050      0.7571158 -4.990847e-01  0.5294021
##   [1682,]  1.0227287215  1.0100814     -1.3207918 -9.742085e-02  0.5294021
##   [1683,] -0.2175439209  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1684,] -0.5419982647 -0.9342442     -1.3207918 -3.333083e-01  0.5294021
##   [1685,] -0.0779673353  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [1686,] -1.4382268671 -1.4897658      0.7571158  1.108226e+00  0.5294021
##   [1687,] -0.5468956887  0.1767990      0.7571158 -2.284694e-01  0.5294021
##   [1688,]  0.1656795115  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [1689,] -0.8823692366  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [1690,] -0.0106277545  1.0100814     -1.3207918 -1.879171e-02  0.5294021
##   [1691,] -0.1624479003  0.4545598     -1.3207918  2.052286e-02  0.5294021
##   [1692,] -1.0599008587  1.0100814      0.7571158  5.578220e-01  0.5294021
##   [1693,]  0.6456270691 -1.2120050      0.7571158  1.646763e-01 -1.8889088
##   [1694,] -1.1945800203 -0.6564834      0.7571158  1.186855e+00  0.5294021
##   [1695,]  0.0150837218  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [1696,] -1.4308807310  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [1697,]  2.2483090918 -1.4897658     -1.3207918 -5.954054e-01  0.5294021
##   [1698,] -0.0706211992 -0.9342442      0.7571158 -2.415743e-01  0.5294021
##   [1699,]  1.2320935999  0.1767990     -1.3207918 -6.347200e-01  0.5294021
##   [1700,]  0.5097235515  1.0100814      0.7571158  1.384666e-01  0.5294021
##   [1701,]  0.5893066925  0.7323206      0.7571158 -8.431600e-02 -1.8889088
##   [1702,] -0.2812104337  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [1703,] -0.5346521286  0.4545598      0.7571158  5.519903e-01 -1.8889088
##   [1704,] -0.6350493218 -0.1009618     -1.3207918  3.362772e-02  0.5294021
##   [1705,]  0.0114106537 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [1706,] -0.1085762357 -1.4897658     -1.3207918 -1.629451e-01  0.5294021
##   [1707,] -1.0745931309 -1.2120050      0.7571158  4.791929e-01  0.5294021
##   [1708,] -1.2864067213 -1.4897658      0.7571158 -2.808889e-01  0.5294021
##   [1709,] -0.3412038784 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [1710,] -1.2288619887 -1.4897658      0.7571158  1.253617e-01  0.5294021
##   [1711,] -0.4097678152  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [1712,] -0.9288947652  1.0100814      0.7571158  9.247580e-01  0.5294021
##   [1713,] -0.8125809438  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [1714,]  0.9982416012 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [1715,]  1.1255746267 -1.2120050     -1.3207918 -6.850033e-01  0.5294021
##   [1716,] -0.8848179487 -0.3787226      0.7571158  8.604715e-02  0.5294021
##   [1717,] -0.8970615088 -0.1009618      0.7571158  1.199960e+00  0.5294021
##   [1718,] -0.4697612599  0.4545598      0.7571158 -5.954054e-01  0.5294021
##   [1719,] -1.0745931309 -0.9342442     -1.3207918 -1.891549e-01  0.5294021
##   [1720,] -1.2717144492  1.0100814      0.7571158  1.051941e+00  0.5294021
##   [1721,] -0.4256844433 -0.6564834      0.7571158  6.102414e-01 -1.8889088
##   [1722,] -0.0400122989  0.1767990      0.7571158  1.855203e+00  0.5294021
##   [1723,] -0.6460685259  1.0100814     -1.3207918 -6.740346e-01  0.5294021
##   [1724,]  1.5357338915  1.0100814      0.7571158 -2.605501e-01 -1.8889088
##   [1725,] -1.1468301357  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [1726,] -0.0889865394  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [1727,]  0.7043961578 -1.4897658     -1.3207918  2.826200e-01  0.5294021
##   [1728,] -0.5934212173 -0.9342442     -1.3207918  2.564103e-01  0.5294021
##   [1729,] -0.9582793095 -0.3787226      0.7571158 -5.560909e-01  0.5294021
##   [1730,] -0.7440170070 -0.6564834      0.7571158  5.840317e-01 -1.8889088
##   [1731,] -0.6460685259  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1732,] -0.0632750631  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [1733,] -0.6779017823 -1.4897658      0.7571158 -1.498403e-01 -1.8889088
##   [1734,] -0.9031832889 -1.2120050     -1.3207918 -7.121114e-02  0.5294021
##   [1735,] -1.1468301357  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [1736,]  0.7252102100  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1737,]  1.3055549608 -0.1009618      0.7571158 -7.500427e-01  0.5294021
##   [1738,] -0.2114221408 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [1739,] -0.7770746194  0.7323206      0.7571158  2.969116e+00  0.5294021
##   [1740,] -0.1024544556 -0.1009618     -1.3207918 -4.512520e-01 -1.8889088
##   [1741,] -0.3938511870  1.0100814      0.7571158  7.211478e-01  0.5294021
##   [1742,] -1.4455730032 -1.2120050      0.7571158  2.826200e-01  0.5294021
##   [1743,]  0.2917881810 -1.2120050     -1.3207918 -6.347200e-01  0.5294021
##   [1744,] -1.4700601235  0.1767990     -1.3207918 -4.512520e-01  0.5294021
##   [1745,] -1.5067908039 -0.9342442      0.7571158 -1.105257e-01  0.5294021
##   [1746,] -0.4232357313 -1.4897658      0.7571158  1.515714e-01 -1.8889088
##   [1747,] -0.4917996681  0.4545598      0.7571158  4.136686e-01  0.5294021
##   [1748,] -0.6007673534 -1.4897658     -1.3207918 -4.643569e-01  0.5294021
##   [1749,] -1.3929256946 -0.3787226      0.7571158  1.515714e-01  0.5294021
##   [1750,]  0.1840448518  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1751,]  0.2905638250  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [1752,]  0.3750443900 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [1753,]  0.7705113826 -0.6564834     -1.3207918  7.674997e-01  0.5294021
##   [1754,]  0.3444354896  0.1767990      0.7571158 -5.429860e-01  0.5294021
##   [1755,]  0.1142565589  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [1756,] -0.1036788116 -0.1009618     -1.3207918  5.983743e-02  0.5294021
##   [1757,] -0.2861078577  0.1767990      0.7571158  3.481443e-01  0.5294021
##   [1758,]  0.2489357205  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1759,] -0.1391851360  0.1767990     -1.3207918 -4.250423e-01  0.5294021
##   [1760,]  0.1044617108 -0.9342442      0.7571158  8.604715e-02 -1.8889088
##   [1761,] -0.6264788297  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1762,] -0.4207870193  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1763,] -1.7332966665 -0.9342442     -1.3207918 -2.415743e-01 -1.8889088
##   [1764,]  1.1133310666  0.4545598      0.7571158 -4.381471e-01 -1.8889088
##   [1765,]  1.1635296631  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [1766,] -1.4284320190  1.0100814      0.7571158  8.330240e-01  0.5294021
```

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##   [1767,] -0.9154268490 -0.9342442     -1.3207918  1.619315e+00  0.5294021
##   [1768,] -1.9953088536  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [1769,] -0.3901781189  1.0100814      0.7571158 -3.595180e-01 -1.8889088
##   [1770,]  0.7252102100 -0.9342442      0.7571158 -9.742085e-02  0.5294021
##   [1771,] -0.1881593766  1.0100814     -1.3207918 -1.802436e-01 -1.8889088
##   [1772,] -1.4443486472 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [1773,] -0.2726399416  0.1767990     -1.3207918 -3.726229e-01  0.5294021
##   [1774,] -0.4673125478 -1.2120050      0.7571158 -1.879171e-02  0.5294021
##   [1775,] -0.8676769645  1.0100814      0.7571158 -4.800827e-01  0.5294021
##   [1776,] -1.1798877481 -1.2120050      0.7571158 -3.634888e-01  0.5294021
##   [1777,]  0.8623380836 -0.9342442      0.7571158  2.170957e-01  0.5294021
##   [1778,]  0.7631652465  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [1779,]  1.8981432717 -1.2120050      0.7571158 -5.298811e-01  0.5294021
##   [1780,] -1.7688029910 -1.2120050      0.7571158  2.433054e-01  0.5294021
##   [1781,]  1.4573751066 -1.4897658      0.7571158 -2.153646e-01 -1.8889088
##   [1782,]  0.0628336063  0.1767990      0.7571158  2.695151e-01  0.5294021
##   [1783,]  1.4426828344 -1.2120050     -1.3207918 -6.404861e-01  0.5294021
##   [1784,] -1.9806165814 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [1785,] -0.6791261383  1.0100814      0.7571158  9.378629e-01  0.5294021
##   [1786,] -0.2028516487 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [1787,]  0.5109479076  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [1788,] -1.0941828271 -1.4897658      0.7571158  8.068143e-01  0.5294021
##   [1789,] -0.0338905188 -0.6564834     -1.3207918 -7.318401e-01  0.5294021
##   [1790,] -0.4746586839  1.0100814      0.7571158  1.304799e+00  0.5294021
##   [1791,] -0.4452741396  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [1792,] -0.1195954398  1.0100814      0.7571158  9.116531e-01  0.5294021
##   [1793,] -1.0121509742  1.0100814      0.7571158 -3.378688e-01  0.5294021
##   [1794,] -0.8052348078  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [1795,]  0.4668710910  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1796,] -1.2104966485 -1.2120050     -1.3207918  1.265484e+00  0.5294021
##   [1797,] -0.9888882099  1.0100814     -1.3207918  2.957249e-01  0.5294021
##   [1798,] -0.2224413450 -0.3787226      0.7571158  1.739414e-01  0.5294021
##   [1799,]  0.8941713400  0.1767990      0.7571158 -3.333083e-01 -1.8889088
##   [1800,]  0.3640251858  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1801,]  0.1742500036  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [1802,]  1.7940730105 -1.4897658     -1.3207918 -6.347200e-01  0.5294021
##   [1803,]  0.6456270691 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [1804,]  0.5831849124 -0.9342442      0.7571158 -7.702970e-02 -1.8889088
##   [1805,]  1.3006575367  0.7323206      0.7571158 -2.415743e-01  0.5294021
##   [1806,]  0.3799418140  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [1807,] -1.0023561260 -0.6564834      0.7571158  2.826200e-01 -1.8889088
##   [1808,] -0.1134736597  1.0100814      0.7571158  2.695151e-01  0.5294021
##   [1809,] -0.1306146439 -1.2120050      0.7571158 -7.133491e-01  0.5294021
##   [1810,] -0.1906080886  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [1811,] -1.9291936288  0.1767990      0.7571158  5.447171e-01  0.5294021
##   [1812,] -0.9080807129 -0.1009618      0.7571158 -3.070986e-01  0.5294021
##   [1813,]  2.4907315826 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [1814,] -1.0464329426 -1.2120050     -1.3207918  4.791929e-01 -1.8889088
##   [1815,] -0.9313434772 -1.4897658     -1.3207918 -3.726229e-01 -1.8889088
##   [1816,] -0.5885237932 -0.9342442     -1.3207918  1.527581e+00  0.5294021
##   [1817,] -1.7247261744  1.0100814      0.7571158  1.920727e+00  0.5294021
##   [1818,]  1.9042650518  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [1819,]  0.3346406415  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [1820,] -1.4418999352  1.0100814     -1.3207918 -7.395589e-01  0.5294021
##   [1821,]  0.2219998882  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1822,] -0.7268760228  1.0100814     -1.3207918 -2.415743e-01 -1.8889088
##   [1823,]  0.5280888918  0.4545598      0.7571158  6.102414e-01  0.5294021
##   [1824,] -0.4648638358 -0.9342442      0.7571158 -3.791753e-01  0.5294021
##   [1825,] -1.0978558952 -1.2120050      0.7571158 -5.036714e-01  0.5294021
##   [1826,] -1.2913041454  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1827,] -0.8554334043  1.0100814      0.7571158  7.281851e-01 -1.8889088
##   [1828,] -1.0709200628  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [1829,] -0.7942156036 -1.4897658      0.7571158 -6.216151e-01  0.5294021
##   [1830,] -0.4428254275 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [1831,] -0.5493444008  1.0100814     -1.3207918 -5.810628e-02 -1.8889088
##   [1832,] -0.4513959196 -1.2120050      0.7571158  3.088297e-01  0.5294021
##   [1833,] -0.3105949780 -0.9342442     -1.3207918  2.170957e-01  0.5294021
##   [1834,] -0.1061275236 -0.9342442      0.7571158  4.791929e-01  0.5294021
##   [1835,] -0.2652938055 -0.6564834      0.7571158 -3.778648e-01  0.5294021
##   [1836,] -0.8260488600 -0.9342442     -1.3207918  5.447171e-01 -1.8889088
##   [1837,] -0.6277031857  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [1838,] -0.8346193521 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [1839,] -1.6218802692  1.0100814      0.7571158 -3.963033e-01  0.5294021
##   [1840,]  1.6667399850  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [1841,]  0.1975127679  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [1842,] -0.6387223898 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [1843,] -1.9659243092  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [1844,] -1.4088423228 -1.4897658      0.7571158  7.412900e-01  0.5294021
##   [1845,] -0.7917668916  1.0100814      0.7571158  8.985483e-01  0.5294021
##   [1846,] -0.4195626633  1.0100814      0.7571158 -3.333083e-01  0.5294021
##   [1847,]  0.3187240133  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [1848,]  0.4142237824 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [1849,] -0.8162540119 -0.9342442     -1.3207918 -4.774617e-01  0.5294021
##   [1850,]  0.0505900462  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [1851,] -0.5811776571  1.0100814      0.7571158  2.695151e-01  0.5294021
##   [1852,]  0.1828204957 -0.1009618     -1.3207918  8.723386e-01  0.5294021
##   [1853,]  0.4791146512 -0.3787226      0.7571158  2.052286e-02 -1.8889088
##   [1854,] -0.8848179487  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [1855,]  0.1118078469  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [1856,] -0.3326333863 -1.2120050      0.7571158  1.253617e-01 -1.8889088
##   [1857,] -1.3390540300 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [1858,]  0.0346734180 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [1859,] -0.2885565697  1.0100814     -1.3207918 -3.333083e-01  0.5294021
##   [1860,] -1.3231374018  1.0100814      0.7571158  2.105433e-01  0.5294021
##   [1861,] -0.7672797713 -1.2120050      0.7571158 -1.367354e-01  0.5294021
##   [1862,] -0.8578821164  0.1767990      0.7571158 -7.657686e-01  0.5294021
##   [1863,] -0.9362409013 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [1864,]  0.0787502345  0.7323206     -1.3207918 -3.070986e-01  0.5294021
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##   [1865,] -0.9521575295  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [1866,] -0.3375308103 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [1867,]  0.8684598637  0.1767990      0.7571158  9.378629e-01  0.5294021
##   [1868,]  0.8892739160 -0.1009618      0.7571158 -5.686855e-03  0.5294021
##   [1869,]  0.6774603255  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [1870,] -0.1146980157  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [1871,]  0.0848720146 -1.4897658     -1.3207918 -4.643569e-01  0.5294021
##   [1872,] -0.1893837326 -1.4897658     -1.3207918 -1.629451e-01 -1.8889088
##   [1873,]  0.5844092684  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1874,] -0.1465312721  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [1875,]  1.6606182049 -0.1009618      0.7571158 -6.674821e-01  0.5294021
##   [1876,] -1.4810793276 -0.1009618     -1.3207918 -5.429860e-01  0.5294021
##   [1877,] -0.0889865394 -0.9342442     -1.3207918 -1.760500e-01  0.5294021
##   [1878,]  0.6211399488  0.4545598      0.7571158  2.170957e-01 -1.8889088
##   [1879,]  0.3395380656  1.0100814     -1.3207918 -2.403365e-02 -1.8889088
##   [1880,]  0.3787174580 -1.4897658     -1.3207918 -4.905666e-01 -1.8889088
##   [1881,] -0.6925940544  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [1882,]  0.0628336063  1.0100814     -1.3207918 -5.167763e-01  0.5294021
##   [1883,]  1.5381826035  0.4545598     -1.3207918 -2.415743e-01  0.5294021
##   [1884,]  1.4769648028 -0.9342442     -1.3207918 -3.726229e-01  0.5294021
##   [1885,]  0.7913254348  0.4545598      0.7571158 -4.709093e-01  0.5294021
##   [1886,] -0.4966970922  1.0100814     -1.3207918 -1.839522e-01 -1.8889088
##   [1887,] -0.5750558771  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [1888,] -1.9512320371 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [1889,]  2.0720018257 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [1890,] -0.1636722563  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [1891,] -0.1820375965  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [1892,]  0.5464542320 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [1893,] -0.3203898261  0.4545598      0.7571158 -1.760500e-01  0.5294021
##   [1894,] -1.6402456095  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1895,]  0.0787502345  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [1896,] -0.5444469767 -0.1009618     -1.3207918  1.908860e-01  0.5294021
##   [1897,] -0.7427926510  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [1898,] -1.3623167942 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [1899,]  1.5614453678  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [1900,] -0.0828647594 -1.4897658      0.7571158 -5.954054e-01  0.5294021
##   [1901,] -0.3632422866  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [1902,] -1.4908741757 -1.4897658     -1.3207918  4.136686e-01 -1.8889088
##   [1903,] -0.5346521286 -1.4897658      0.7571158  1.253617e-01 -1.8889088
##   [1904,] -1.0378624505  0.1767990      0.7571158 -4.512520e-01 -1.8889088
##   [1905,]  0.2489357205  1.0100814     -1.3207918 -2.287839e-01  0.5294021
##   [1906,]  0.1338462552 -0.6564834      0.7571158  6.757657e-01  0.5294021
##   [1907,]  0.3713713219 -1.2120050     -1.3207918 -5.036714e-01  0.5294021
##   [1908,]  0.1656795115 -0.9342442     -1.3207918 -5.036714e-01  0.5294021
##   [1909,]  2.0781236058  0.4545598      0.7571158  2.597389e-01  0.5294021
##   [1910,]  0.5795118444 -0.9342442     -1.3207918  5.447171e-01  0.5294021
##   [1911,] -0.6546390180  1.0100814      0.7571158  7.150803e-01 -1.8889088
##   [1912,] -0.7060619706  1.0100814     -1.3207918 -2.364051e-02 -1.8889088
##   [1913,]  0.4460570388 -1.2120050      0.7571158 -6.478249e-01  0.5294021
##   [1914,] -1.0158240422  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [1915,]  0.0567118263  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [1916,] -1.7026877662  0.7323206      0.7571158  7.412900e-01  0.5294021
##   [1917,] -0.2457041092  1.0100814     -1.3207918 -3.595180e-01  0.5294021
##   [1918,] -0.7146324627  1.0100814      0.7571158  3.219346e-01 -1.8889088
##   [1919,]  0.8084664190 -0.6564834      0.7571158 -4.250423e-01  0.5294021
##   [1920,] -0.4440497836 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [1921,]  0.0958912187  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [1922,] -0.2542746013  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [1923,] -1.7700273470  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [1924,]  1.9189573239  0.1767990      0.7571158 -4.381471e-01 -1.8889088
##   [1925,] -0.1673453243 -1.4897658     -1.3207918 -3.385502e-01  0.5294021
##   [1926,] -0.3767102028  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [1927,]  1.4010547299 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [1928,]  1.5969516922  1.0100814     -1.3207918  4.791929e-01 -1.8889088
##   [1929,]  0.6872551736 -1.4897658      0.7571158 -7.327687e-01 -1.8889088
##   [1930,] -0.0522558590 -0.3787226     -1.3207918 -4.905666e-01  0.5294021
##   [1931,] -0.3424282344 -0.1009618     -1.3207918 -3.070986e-01  0.5294021
##   [1932,]  1.2724973484  0.4545598     -1.3207918 -5.691957e-01  0.5294021
##   [1933,] -1.8324695037  0.4545598      0.7571158  1.515714e-01  0.5294021
##   [1934,] -0.3032488419  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [1935,]  0.4240186305  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [1936,]  1.2639268563  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [1937,] -1.6586109497  0.4545598     -1.3207918  1.646763e-01  0.5294021
##   [1938,] -1.1541762718  0.7323206      0.7571158  1.199960e+00  0.5294021
##   [1939,] -1.7810465511  0.7323206      0.7571158  9.640726e-01  0.5294021
##   [1940,]  1.2724973484 -0.1009618     -1.3207918 -5.691957e-01  0.5294021
##   [1941,] -0.6130109135  0.4545598      0.7571158  4.267734e-01 -1.8889088
##   [1942,] -1.1933556643 -0.6564834     -1.3207918 -5.167763e-01  0.5294021
##   [1943,]  0.7962228589  1.0100814      0.7571158  6.941125e-01 -1.8889088
##   [1944,] -0.0804160473  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [1945,] -0.5750558771 -1.4897658      0.7571158  1.134436e+00  0.5294021
##   [1946,]  0.0297759940  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [1947,] -0.5921968613 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [1948,] -1.2974259255 -1.4897658     -1.3207918 -3.070986e-01 -1.8889088
##   [1949,] -0.9154268490  0.4545598     -1.3207918 -4.053850e-01  0.5294021
##   [1950,] -0.1330633559  0.1767990      0.7571158  4.791929e-01  0.5294021
##   [1951,]  0.1167052710  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [1952,] -0.3387551663  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [1953,] -1.2631439571 -0.1009618      0.7571158  2.170957e-01  0.5294021
##   [1954,] -0.4416010715 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [1955,] -0.7880938236  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [1956,] -0.4942483801 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [1957,]  1.5418556715 -0.1009618      0.7571158  4.136686e-01  0.5294021
##   [1958,] -1.2215158526  0.7323206      0.7571158  1.384666e-01  0.5294021
##   [1959,]  1.3226959450  1.0100814      0.7571158 -5.348348e-01  0.5294021
##   [1960,] -0.6105622015  1.0100814     -1.3207918 -8.312929e-01  0.5294021
##   [1961,]  0.0799745905  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [1962,] -1.0048048381  1.0100814      0.7571158  4.136686e-01  0.5294021
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##   [1963,] -0.3032488419 -0.6564834     -1.3207918 -4.796109e-01  0.5294021
##   [1964,]  1.6373554407  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [1965,] -0.0522558590 -1.2120050      0.7571158  6.102414e-01 -1.8889088
##   [1966,] -0.6228057616 -1.4897658      0.7571158 -5.029166e-01 -1.8889088
##   [1967,]  0.5880823364 -0.3787226      0.7571158 -3.595180e-01  0.5294021
##   [1968,] -1.0623495707 -0.9342442      0.7571158  1.515714e-01 -1.8889088
##   [1969,] -0.8199270799  1.0100814      0.7571158 -4.119374e-01 -1.8889088
##   [1970,] -1.6377968974  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [1971,] -0.9827664298  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [1972,]  0.8121394871 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [1973,]  0.4081020024 -0.1009618      0.7571158 -2.022597e-01 -1.8889088
##   [1974,] -0.8064591638 -1.4897658      0.7571158 -3.988326e-01  0.5294021
##   [1975,] -1.1749903241  1.0100814     -1.3207918  6.102414e-01  0.5294021
##   [1976,]  1.2896383326  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [1977,] -0.8456385562 -0.9342442      0.7571158 -5.298811e-01 -1.8889088
##   [1978,] -1.0194971102 -0.9342442     -1.3207918  4.136686e-01  0.5294021
##   [1979,]  0.7876523668 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [1980,]  0.6835821056 -0.9342442     -1.3207918 -3.189657e-02  0.5294021
##   [1981,] -0.6142352695 -1.2120050     -1.3207918  8.604715e-02  0.5294021
##   [1982,]  2.5507250273  0.7323206      0.7571158 -4.381471e-01  0.5294021
##   [1983,] -0.1416338480  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [1984,] -1.5875983008 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [1985,]  0.7129666499 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [1986,] -1.6206559132  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [1987,] -1.6463673895 -0.1009618      0.7571158  8.723386e-01  0.5294021
##   [1988,] -0.2493771773  0.4545598      0.7571158  1.134436e+00  0.5294021
##   [1989,] -0.1918324446  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [1990,] -0.8640038964  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [1991,]  0.9431455806  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [1992,]  0.3970827982  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [1993,] -0.1685696803  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [1994,]  1.6434772207  0.7323206      0.7571158 -5.691957e-01  0.5294021
##   [1995,]  1.2835165525 -1.4897658     -1.3207918 -6.609297e-01  0.5294021
##   [1996,]  0.9174341043 -0.3787226     -1.3207918 -3.988326e-01  0.5294021
##   [1997,] -1.5410727723 -0.1009618      0.7571158  8.604715e-02  0.5294021
##   [1998,] -0.5028188722  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [1999,] -0.5101650083  1.0100814      0.7571158 -2.415481e-01  0.5294021
##   [2000,] -0.8811448806 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [2001,] -0.7734015514 -0.6564834      0.7571158  6.102414e-01 -1.8889088
##   [2002,] -0.5799533011  0.4545598      0.7571158 -4.119374e-01  0.5294021
##   [2003,] -0.6105622015 -0.9342442     -1.3207918 -1.498403e-01  0.5294021
##   [2004,] -1.1725416120 -0.1009618      0.7571158 -4.643569e-01  0.5294021
##   [2005,]  0.9957928892  0.1767990     -1.3207918 -3.430845e-01  0.5294021
##   [2006,]  0.9566134967 -1.4897658     -1.3207918 -8.181880e-01 -1.8889088
##   [2007,] -0.5028188722  1.0100814      0.7571158  2.834063e-01  0.5294021
##   [2008,] -0.2212169890  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [2009,]  0.9076392562  1.0100814     -1.3207918  3.481443e-01 -1.8889088
##   [2010,]  0.9786519050 -1.4897658      0.7571158  2.055897e-01 -1.8889088
##   [2011,] -0.1024544556 -0.6564834      0.7571158  1.384666e-01 -1.8889088
##   [2012,] -0.0118521105  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [2013,] -1.5888226569 -0.3787226     -1.3207918  1.331009e+00  0.5294021
##   [2014,]  0.0554874703  1.0100814      0.7571158  6.364511e-01 -1.8889088
##   [2015,]  1.0557863339  1.0100814      0.7571158 -2.641671e-01  0.5294021
##   [2016,] -0.3828319828  1.0100814     -1.3207918 -3.222609e-01  0.5294021
##   [2017,] -0.9276704092  1.0100814     -1.3207918  1.659140e-02 -1.8889088
##   [2018,] -1.5973931490  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2019,] -0.3865050509  0.4545598      0.7571158  4.267734e-01 -1.8889088
##   [2020,]  1.5100224152 -1.4897658      0.7571158  2.826200e-01  0.5294021
##   [2021,]  0.1436411033 -1.4897658     -1.3207918  1.515714e-01  0.5294021
##   [2022,]  0.2697497727 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [2023,] -1.3280348258 -0.6564834      0.7571158 -5.691957e-01  0.5294021
##   [2024,]  1.1427156109  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [2025,] -0.4428254275 -1.2120050     -1.3207918 -7.121114e-02  0.5294021
##   [2026,] -0.7329978029  0.7323206     -1.3207918 -1.760500e-01  0.5294021
##   [2027,] -1.1064263873  1.0100814      0.7571158  2.182824e+00  0.5294021
##   [2028,] -1.0978558952  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [2029,] -0.9656254456  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [2030,] -0.7525874991  0.4545598      0.7571158 -5.298811e-01  0.5294021
##   [2031,]  0.0432439101  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [2032,]  0.9578378527  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [2033,] -1.4541434953  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [2034,] -0.3240628942 -0.3787226      0.7571158  4.739509e-01 -1.8889088
##   [2035,] -1.4614896314 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [2036,] -0.8480872683  1.0100814     -1.3207918  1.134436e+00 -1.8889088
##   [2037,]  0.2942368930  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2038,]  0.3517816257  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [2039,] -1.2447786169 -0.3787226      0.7571158  4.791929e-01  0.5294021
##   [2040,] -0.4636394798 -1.2120050      0.7571158 -4.905666e-01  0.5294021
##   [2041,]  0.0873207266 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [2042,] -0.0681724872 -0.6564834     -1.3207918  3.953218e-01  0.5294021
##   [2043,] -1.3745603544  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [2044,] -1.1578493399  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [2045,] -0.3840563389  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [2046,] -0.1416338480  1.0100814      0.7571158 -5.525788e-01 -1.8889088
##   [2047,]  2.1907643591 -0.9342442      0.7571158 -6.714136e-01  0.5294021
##   [2048,] -0.7011645465  1.0100814      0.7571158  9.378629e-01 -1.8889088
##   [2049,]  0.0126350098 -0.9342442      0.7571158 -1.210096e-01  0.5294021
##   [2050,] -0.4538446317 -0.9342442      0.7571158 -6.027441e-01  0.5294021
##   [2051,] -1.2288619887  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [2052,]  0.4129994264  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2053,] -0.2457041092  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [2054,]  1.2639268563  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [2055,]  0.6003258966 -0.3787226      0.7571158  1.908860e-01  0.5294021
##   [2056,]  1.1880167834  1.0100814      0.7571158 -4.774617e-01  0.5294021
##   [2057,] -1.6855467820  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2058,]  1.1831193594  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [2059,]  0.1852692078 -0.9342442      0.7571158 -5.691957e-01  0.5294021
##   [2060,] -0.4416010715  1.0100814      0.7571158 -2.344394e-02  0.5294021
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##   [2061,]  2.2409629557 -0.3787226      0.7571158 -4.119374e-01  0.5294021
##   [2062,]  0.2660767047 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [2063,] -0.3228385381  1.0100814     -1.3207918 -4.774617e-01 -1.8889088
##   [2064,]  0.7937741468  1.0100814      0.7571158 -4.774617e-01  0.5294021
##   [2065,] -0.4611907678  1.0100814     -1.3207918 -1.891549e-01  0.5294021
##   [2066,] -1.4321050870 -0.1009618      0.7571158 -3.070986e-01  0.5294021
##   [2067,]  0.0665066744  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2068,] -0.4501715636  0.7323206     -1.3207918 -1.760500e-01  0.5294021
##   [2069,]  0.5440055199 -0.6564834     -1.3207918 -2.808889e-01  0.5294021
##   [2070,]  0.1240514071  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [2071,]  1.1365938308  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [2072,]  0.9002931201 -1.4897658     -1.3207918 -8.050831e-01  0.5294021
##   [2073,] -0.0804160473  1.0100814      0.7571158 -1.932829e-01 -1.8889088
##   [2074,] -1.5912713689 -0.3787226      0.7571158 -1.367354e-01  0.5294021
##   [2075,] -0.8799205246 -1.4897658     -1.3207918 -4.800827e-01 -1.8889088
##   [2076,] -0.9521575295  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [2077,]  1.8430472510 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [2078,] -1.1149968794  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [2079,]  1.2198500398 -0.9342442      0.7571158 -2.022597e-01 -1.8889088
##   [2080,] -0.7146324627  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [2081,] -0.5493444008  1.0100814      0.7571158 -2.055359e-01 -1.8889088
##   [2082,] -0.0277687387  1.0100814     -1.3207918  8.604715e-02 -1.8889088
##   [2083,] -0.3154924021 -1.2120050     -1.3207918  3.481443e-01 -1.8889088
##   [2084,] -0.0902108954 -0.1009618      0.7571158 -1.105257e-01  0.5294021
##   [2085,] -1.2741631612  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [2086,]  0.2856664009 -1.4897658      0.7571158 -3.988326e-01  0.5294021
##   [2087,] -0.3644666426  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [2088,]  1.7683615342  0.1767990      0.7571158 -5.823006e-01  0.5294021
##   [2089,] -0.8995102208 -0.3787226     -1.3207918 -4.500143e-02  0.5294021
##   [2090,]  0.9664083448  0.7323206      0.7571158 -4.905666e-01  0.5294021
##   [2091,] -2.1544751354 -0.9342442     -1.3207918 -5.485031e-01  0.5294021
##   [2092,] -0.7391195830  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [2093,] -0.5664853850  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2094,]  0.1436411033  1.0100814      0.7571158  1.974384e-01 -1.8889088
##   [2095,]  0.8476458115 -1.2120050      0.7571158  1.646763e-01  0.5294021
##   [2096,]  0.5733900643 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [2097,]  1.9716046325  0.7323206      0.7571158 -3.070986e-01  0.5294021
##   [2098,]  1.3630996935  1.0100814     -1.3207918 -4.085302e-01 -1.8889088
##   [2099,]  1.2455615161  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [2100,] -0.8640038964 -1.2120050      0.7571158  1.396533e+00  0.5294021
##   [2101,]  0.2660767047  0.7323206     -1.3207918 -4.500143e-02  0.5294021
##   [2102,] -0.9264460532 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [2103,]  0.2268973122  1.0100814      0.7571158  1.843336e-01  0.5294021
##   [2104,] -0.8713500325 -0.6564834     -1.3207918 -6.347200e-01  0.5294021
##   [2105,]  0.1779230717  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [2106,] -1.0819392670 -1.2120050     -1.3207918 -3.333083e-01  0.5294021
##   [2107,]  1.6765348331  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [2108,]  0.7852036547 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [2109,] -0.1759158164  0.4545598      0.7571158  2.170957e-01  0.5294021
##   [2110,]  1.7218360056 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [2111,] -0.7660554153 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [2112,]  1.0202800095  1.0100814      0.7571158 -6.871394e-01  0.5294021
##   [2113,]  0.2819933329  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [2114,] -0.4244600873  1.0100814      0.7571158  2.957249e-01 -1.8889088
##   [2115,]  0.9149853923 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [2116,] -0.6987158345 -0.6564834     -1.3207918 -1.957073e-01  0.5294021
##   [2117,] -0.1783645285  1.0100814      0.7571158 -1.495258e-01  0.5294021
##   [2118,] -0.7146324627  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [2119,] -0.0473584349  1.0100814      0.7571158  3.612491e-01  0.5294021
##   [2120,] -1.1590736959 -0.9342442      0.7571158 -2.153646e-01  0.5294021
##   [2121,] -0.5395495527 -0.3787226      0.7571158  2.957249e-01  0.5294021
##   [2122,]  1.3888111698  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [2123,] -1.7492132947  0.7323206      0.7571158  4.225668e-01 -1.8889088
##   [2124,] -0.7501387871  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [2125,] -0.5052675843 -1.2120050      0.7571158 -4.500143e-02  0.5294021
##   [2126,]  0.4276916986 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [2127,]  0.9272289524 -1.4897658     -1.3207918 -1.498403e-01  0.5294021
##   [2128,] -0.3130436900  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [2129,]  1.0202800095 -0.6564834     -1.3207918 -4.800827e-01 -1.8889088
##   [2130,] -0.6081134895 -1.2120050     -1.3207918  1.199960e+00  0.5294021
##   [2131,]  0.2428139404  1.0100814      0.7571158 -2.677840e-01 -1.8889088
##   [2132,]  0.3579034058 -0.1009618      0.7571158 -5.298811e-01  0.5294021
##   [2133,] -0.5615879609  1.0100814      0.7571158  8.080520e-02  0.5294021
##   [2134,]  0.3530059817  1.0100814      0.7571158  9.915200e-02 -1.8889088
##   [2135,] -0.1416338480 -1.4897658     -1.3207918 -5.167763e-01  0.5294021
##   [2136,] -1.6696301538 -0.3787226     -1.3207918 -1.498403e-01  0.5294021
##   [2137,] -1.0035804821 -0.6564834      0.7571158  5.447171e-01  0.5294021
##   [2138,] -1.1480544917 -1.4897658     -1.3207918 -3.195482e-01  0.5294021
##   [2139,] -0.4440497836  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [2140,] -1.2594708890 -0.9342442     -1.3207918 -4.500143e-02  0.5294021
##   [2141,]  1.2810678405  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [2142,] -0.4526202757 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [2143,] -0.7366708710 -0.9342442      0.7571158  3.481443e-01  0.5294021
##   [2144,]  0.1730256476 -1.4897658      0.7571158 -8.038454e-02  0.5294021
##   [2145,]  1.3104523849 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [2146,] -2.0712189265  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [2147,] -1.5337266362  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [2148,] -0.3730371347 -1.4897658      0.7571158  1.802783e+00  0.5294021
##   [2149,]  0.8843764919  1.0100814     -1.3207918 -4.053850e-01  0.5294021
##   [2150,]  0.7888767228 -0.6564834      0.7571158  3.675892e-04  0.5294021
##   [2151,] -0.4771073959 -0.1009618     -1.3207918 -5.954054e-01  0.5294021
##   [2152,]  1.1170041346 -0.6564834      0.7571158  2.052286e-02  0.5294021
##   [2153,] -0.0326661628  1.0100814     -1.3207918  2.695151e-01  0.5294021
##   [2154,]  0.4509544629 -0.1009618     -1.3207918  5.447171e-01  0.5294021
##   [2155,] -1.3782334224  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [2156,] -0.7060619706  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2157,]  0.3015830291 -0.9342442     -1.3207918 -1.891549e-01 -1.8889088
##   [2158,] -1.5202587201 -0.1009618      0.7571158  2.695151e-01  0.5294021
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##   [2159,] -0.7636067033  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [2160,] -0.5934212173  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2161,] -1.8594053360  0.7323206     -1.3207918  8.723386e-01  0.5294021
##   [2162,] -0.4354792915 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [2163,] -1.0366380944 -1.4897658     -1.3207918  4.791929e-01  0.5294021
##   [2164,] -0.3326333863 -0.6564834      0.7571158  1.199960e+00  0.5294021
##   [2165,]  0.2685254167 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [2166,] -0.9105294250  1.0100814     -1.3207918  3.088297e-01 -1.8889088
##   [2167,]  0.7582678224  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [2168,] -1.7663542789 -0.3787226      0.7571158 -4.119374e-01  0.5294021
##   [2169,] -1.0941828271  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2170,]  2.0707774697  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [2171,] -0.6974914785  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [2172,]  0.4876851433  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [2173,] -1.3708872863  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2174,]  1.5981760482 -0.9342442      0.7571158 -1.301830e-01  0.5294021
##   [2175,] -1.2802849413  0.7323206     -1.3207918 -1.105257e-01  0.5294021
##   [2176,] -0.4954727362  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [2177,]  0.1277244751  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [2178,] -1.6475917455 -1.4897658     -1.3207918 -6.656475e-01  0.5294021
##   [2179,]  1.6691886970  0.4545598      0.7571158 -4.381471e-01  0.5294021
##   [2180,]  2.0952645900  1.0100814      0.7571158 -9.742085e-02 -1.8889088
##   [2181,]  1.8393741830 -1.2120050      0.7571158  4.136686e-01  0.5294021
##   [2182,] -0.5358764846 -1.4897658      0.7571158  1.384666e-01 -1.8889088
##   [2183,]  0.0383464861  1.0100814      0.7571158  2.433054e-01 -1.8889088
##   [2184,]  1.2724973484  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [2185,]  0.0958912187 -1.4897658     -1.3207918 -1.367354e-01  0.5294021
##   [2186,]  0.5782874883  0.1767990      0.7571158 -4.381471e-01  0.5294021
##   [2187,] -0.3828319828  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2188,]  1.8589638792 -0.6564834      0.7571158 -1.445983e-01  0.5294021
##   [2189,] -0.1379607800 -0.1009618     -1.3207918 -1.105257e-01 -1.8889088
##   [2190,] -1.6586109497 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [2191,]  1.8418228950  1.0100814      0.7571158 -5.154658e-01  0.5294021
##   [2192,] -0.9044076449 -1.2120050      0.7571158  1.527581e+00  0.5294021
##   [2193,] -0.8309462841 -1.4897658      0.7571158  1.253617e-01  0.5294021
##   [2194,]  0.3836148821  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [2195,] -0.4464984956  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2196,] -0.4477228516  1.0100814     -1.3207918  6.416931e-01  0.5294021
##   [2197,] -1.2325350567 -1.2120050      0.7571158  4.081514e-01  0.5294021
##   [2198,] -0.7489144311  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [2199,] -1.6280020493 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##   [2200,]  0.9872223971 -1.2120050      0.7571158 -7.657686e-01  0.5294021
##   [2201,] -0.2236657010  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [2202,] -0.7036132586 -1.2120050      0.7571158  2.052286e-02  0.5294021
##   [2203,] -0.6399467458 -0.6564834      0.7571158 -5.954054e-01  0.5294021
##   [2204,] -0.6644338661 -1.4897658     -1.3207918  2.458026e+00  0.5294021
##   [2205,]  0.7729600946 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [2206,] -0.9570549535 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [2207,]  0.7484729743  1.0100814      0.7571158  3.350394e-01  0.5294021
##   [2208,] -1.5361753483 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [2209,] -1.0672469948 -0.3787226      0.7571158  6.757657e-01 -1.8889088
##   [2210,]  2.3793151853 -0.9342442     -1.3207918 -5.036714e-01  0.5294021
##   [2211,] -0.6240301176 -0.1009618      0.7571158  6.102414e-01  0.5294021
##   [2212,]  0.0334490620  1.0100814     -1.3207918 -3.421541e-01  0.5294021
##   [2213,] -0.4060947471 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [2214,] -0.0889865394 -1.2120050      0.7571158 -2.808889e-01  0.5294021
##   [2215,] -0.8823692366  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [2216,]  0.5378837399  1.0100814      0.7571158 -3.596228e-01  0.5294021
##   [2217,] -1.5973931490  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [2218,] -0.1244928638 -1.2120050      0.7571158 -6.478249e-01  0.5294021
##   [2219,] -0.4269087994 -1.4897658     -1.3207918 -6.347200e-01  0.5294021
##   [2220,] -0.0730699112  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [2221,]  0.8549919476 -0.6564834     -1.3207918  4.673257e-02  0.5294021
##   [2222,]  0.6162425248 -0.3787226      0.7571158 -1.879171e-02 -1.8889088
##   [2223,] -1.1945800203  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [2224,]  0.0089619417  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [2225,]  0.2930125370 -1.4897658     -1.3207918 -8.050831e-01  0.5294021
##   [2226,]  1.1084336425 -1.4897658     -1.3207918 -5.626433e-01  0.5294021
##   [2227,] -0.6166839816 -1.2120050      0.7571158  9.915200e-02 -1.8889088
##   [2228,]  0.7362294142  1.0100814      0.7571158 -3.660704e-01  0.5294021
##   [2229,] -0.5738315211 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [2230,] -0.4207870193 -1.2120050      0.7571158  9.509677e-01  0.5294021
##   [2231,]  1.4757404468 -0.6564834      0.7571158  2.433054e-01 -1.8889088
##   [2232,]  1.2039334116 -0.6564834     -1.3207918 -4.905666e-01  0.5294021
##   [2233,] -0.1024544556 -1.4897658     -1.3207918 -8.968171e-01  0.5294021
##   [2234,] -0.0706211992  1.0100814      0.7571158  1.644725e-02  0.5294021
##   [2235,] -0.3473256584 -0.6564834     -1.3207918  2.051776e+00  0.5294021
##   [2236,] -0.5419982647 -1.2120050      0.7571158 -6.085103e-01  0.5294021
##   [2237,] -0.3277359622  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [2238,] -1.0990802512  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [2239,]  0.3848392381  1.0100814      0.7571158  6.233463e-01 -1.8889088
##   [2240,] -1.3170156217  1.0100814      0.7571158 -2.638525e-01  0.5294021
##   [2241,] -1.4761819036 -0.9342442     -1.3207918 -1.760500e-01  0.5294021
##   [2242,] -0.8909397287  1.0100814      0.7571158  2.510446e+00  0.5294021
##   [2243,] -0.3901781189  1.0100814      0.7571158  8.461289e-01  0.5294021
##   [2244,]  1.7181629376 -0.3787226     -1.3207918 -2.546791e-01 -1.8889088
##   [2245,]  0.1032373548 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [2246,]  1.2590294323  1.0100814      0.7571158 -6.740346e-01 -1.8889088
##   [2247,] -0.8689013205  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [2248,]  1.3839137457 -0.6564834     -1.3207918 -6.740346e-01  0.5294021
##   [2249,]  1.8956945597 -0.1009618     -1.3207918 -3.319978e-01 -1.8889088
##   [2250,] -1.2606952450  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [2251,]  0.3664738979 -0.9342442      0.7571158 -7.121114e-02 -1.8889088
##   [2252,]  0.5048261275  0.4545598      0.7571158 -1.105257e-01 -1.8889088
##   [2253,] -1.1994774443  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [2254,]  0.0860963706 -0.6564834      0.7571158 -6.347200e-01 -1.8889088
##   [2255,] -0.8187027239 -1.2120050      0.7571158  4.450678e-01  0.5294021
##   [2256,]  0.1509872394  0.4545598      0.7571158  2.170957e-01  0.5294021
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##   [2257,] -1.1627467639  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [2258,] -0.3607935746 -1.2120050     -1.3207918  3.481443e-01  0.5294021
##   [2259,] -1.0072535501 -0.6564834     -1.3207918 -2.415743e-01  0.5294021
##   [2260,]  0.0640579624  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [2261,] -1.1945800203  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [2262,] -0.0216469586 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [2263,] -0.8860423047  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [2264,] -0.3620179306 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [2265,] -0.8199270799 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [2266,] -0.5224085685  1.0100814     -1.3207918  1.527581e+00  0.5294021
##   [2267,] -0.1061275236 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [2268,] -1.6280020493 -0.9342442     -1.3207918 -5.325021e-01  0.5294021
##   [2269,] -0.3326333863  1.0100814     -1.3207918  8.604715e-02 -1.8889088
##   [2270,] -1.3696629303 -1.4897658      0.7571158  1.855203e+00  0.5294021
##   [2271,] -1.2031505124 -0.3787226      0.7571158 -1.236306e-01 -1.8889088
##   [2272,] -1.4370025111  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [2273,] -0.2677425175  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2274,]  2.3499306409 -0.6564834     -1.3207918 -4.643569e-01 -1.8889088
##   [2275,] -1.8141041635  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [2276,]  0.3089291652 -0.6564834      0.7571158  1.199960e+00  0.5294021
##   [2277,] -0.7366708710 -0.3787226     -1.3207918 -1.026628e-01  0.5294021
##   [2278,] -1.0182727542 -0.6564834      0.7571158  9.870061e-01  0.5294021
##   [2279,] -1.5018933799  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [2280,] -0.1061275236 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [2281,] -0.9717472257 -0.9342442     -1.3207918 -7.121114e-02  0.5294021
##   [2282,]  1.1059849305  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [2283,]  0.6541975612 -0.3787226      0.7571158  1.199960e+00 -1.8889088
##   [2284,] -0.8505359803 -0.6564834      0.7571158  9.915200e-02 -1.8889088
##   [2285,] -1.6622840177 -0.6564834      0.7571158  2.826200e-01  0.5294021
##   [2286,] -1.4749575475 -1.4897658      0.7571158 -5.429860e-01  0.5294021
##   [2287,] -0.1869350206 -0.9342442     -1.3207918 -2.415743e-01 -1.8889088
##   [2288,]  1.8773292194  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [2289,] -1.3733359984  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [2290,] -0.0020572624 -0.3787226      0.7571158  5.357927e-01  0.5294021
##   [2291,] -0.2677425175  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [2292,] -2.1434559313 -1.2120050      0.7571158  1.658630e+00  0.5294021
##   [2293,] -0.7819720435  0.4545598      0.7571158  1.108226e+00  0.5294021
##   [2294,] -0.4452741396  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [2295,] -0.6974914785 -0.9342442     -1.3207918 -1.215338e-01  0.5294021
##   [2296,]  0.9468186486 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [2297,]  0.4436083268 -0.6564834      0.7571158 -4.381471e-01 -1.8889088
##   [2298,] -0.3179411141 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [2299,] -0.6436198139  1.0100814      0.7571158 -4.132479e-01  0.5294021
##   [2300,] -0.8897153727  1.0100814      0.7571158  3.820931e+00  0.5294021
##   [2301,]  1.8540664552 -0.9342442      0.7571158  8.854434e-01 -1.8889088
##   [2302,]  0.2379165164  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [2303,]  1.9777264126  0.4545598      0.7571158 -1.879171e-02 -1.8889088
##   [2304,]  0.4166724945  1.0100814      0.7571158 -6.381797e-01  0.5294021
##   [2305,]  0.3383137095 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [2306,] -1.4737331915  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [2307,]  1.3006575367 -1.4897658      0.7571158 -6.609297e-01  0.5294021
##   [2308,]  0.4852364313 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [2309,] -0.3289603182 -0.3787226     -1.3207918 -1.498403e-01 -1.8889088
##   [2310,] -1.6573865937  0.7323206      0.7571158 -1.760500e-01  0.5294021
##   [2311,] -0.7648310593 -0.3787226      0.7571158  2.444921e+00  0.5294021
##   [2312,] -1.3157912657  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [2313,] -1.3145669097  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [2314,]  0.1130322029 -0.1009618     -1.3207918 -4.119374e-01  0.5294021
##   [2315,]  0.7435755503  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [2316,]  0.5231914677 -0.3787226     -1.3207918  8.604715e-02  0.5294021
##   [2317,] -1.1088750993  1.0100814      0.7571158  8.068143e-01  0.5294021
##   [2318,] -0.1146980157 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [2319,]  0.8647867957  1.0100814     -1.3207918 -5.823006e-01  0.5294021
##   [2320,] -0.8113565878  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [2321,]  0.4497301068 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##   [2322,] -1.9622512412 -0.9342442     -1.3207918 -5.298811e-01 -1.8889088
##   [2323,]  0.0395708421 -0.6564834      0.7571158 -6.347200e-01  0.5294021
##   [2324,] -0.3338577423 -0.6564834      0.7571158 -2.022597e-01  0.5294021
##   [2325,]  1.6079708963 -0.9342442      0.7571158  1.253617e-01  0.5294021
##   [2326,] -0.2016272927 -1.2120050     -1.3207918 -4.683145e-01  0.5294021
##   [2327,] -0.4024216791 -1.4897658     -1.3207918  1.515714e-01 -1.8889088
##   [2328,]  0.3248457934 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [2329,] -0.9423626813 -0.6564834     -1.3207918 -6.871394e-01  0.5294021
##   [2330,] -1.4614896314 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [2331,]  0.6786846815 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
##   [2332,]  1.9936430408 -1.2120050      0.7571158 -5.036714e-01  0.5294021
##   [2333,] -0.3950755430 -0.9342442     -1.3207918 -6.284821e-01  0.5294021
##   [2334,]  1.1427156109  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [2335,] -1.7504376507  0.1767990      0.7571158 -4.500143e-02  0.5294021
##   [2336,] -1.1872338842 -0.1009618     -1.3207918  2.641494e+00 -1.8889088
##   [2337,] -0.5824020132  0.1767990      0.7571158  1.239275e+00  0.5294021
##   [2338,] -0.2995757739 -0.3787226      0.7571158 -2.415743e-01 -1.8889088
##   [2339,] -0.8652282524 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##   [2340,] -0.0008329064  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [2341,] -1.4688357675 -1.4897658     -1.3207918 -4.937117e-01  0.5294021
##   [2342,] -0.3240628942 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [2343,] -0.4330305794  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [2344,] -0.7281003789  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [2345,] -0.6007673534  1.0100814      0.7571158  9.771774e-01  0.5294021
##   [2346,]  0.7594921784 -0.1009618      0.7571158 -3.189657e-02  0.5294021
##   [2347,]  0.7998959269  0.1767990      0.7571158  5.316123e-01 -1.8889088
##   [2348,]  0.6933769537  1.0100814     -1.3207918  5.316123e-01  0.5294021
##   [2349,] -0.9950099900  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [2350,]  0.1681282236  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [2351,]  0.9859980411 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [2352,] -0.9472601054 -0.6564834      0.7571158  1.199960e+00  0.5294021
##   [2353,] -0.0216469586  1.0100814      0.7571158  2.575970e+00  0.5294021
##   [2354,] -1.1700929000  0.4545598      0.7571158 -7.002443e-01 -1.8889088
```

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##   [2355,]  0.5660439282 -0.3787226      0.7571158 -5.412037e-01  0.5294021
##   [2356,] -0.5958699293  0.4545598     -1.3207918  1.265484e+00 -1.8889088
##   [2357,] -0.8517603363  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [2358,]  1.6251118805  1.0100814     -1.3207918 -3.595180e-01 -1.8889088
##   [2359,] -0.7293247349 -0.1009618      0.7571158  9.378629e-01  0.5294021
##   [2360,] -0.6056647774  0.4545598     -1.3207918  1.789679e+00  0.5294021
##   [2361,] -1.1076507433 -0.9342442     -1.3207918 -5.036714e-01  0.5294021
##   [2362,]  0.0016158056 -1.4897658     -1.3207918 -6.740346e-01 -1.8889088
##   [2363,]  2.0022135329  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [2364,] -1.4186371709  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2365,] -0.1563261202  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2366,]  0.6958256657 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [2367,] -0.8346193521 -0.6564834      0.7571158 -3.189657e-02  0.5294021
##   [2368,]  0.6493001372 -0.6564834      0.7571158 -6.085103e-01  0.5294021
##   [2369,] -1.3390540300 -0.9342442     -1.3207918  7.412900e-01  0.5294021
##   [2370,] -1.0280676023  0.1767990      0.7571158 -3.726229e-01  0.5294021
##   [2371,] -0.0963326755  0.4545598      0.7571158  3.481443e-01 -1.8889088
##   [2372,] -0.3865050509 -1.2120050      0.7571158 -7.002443e-01  0.5294021
##   [2373,] -1.5129125840 -1.4897658     -1.3207918  2.575970e+00  0.5294021
##   [2374,] -0.2077490728  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [2375,] -1.2313107007 -1.2120050     -1.3207918 -5.954054e-01  0.5294021
##   [2376,] -0.2799860776 -0.9342442      0.7571158  2.826200e-01  0.5294021
##   [2377,]  0.0542631142  0.7323206     -1.3207918 -4.250423e-01  0.5294021
##   [2378,] -2.1091739629  1.0100814      0.7571158  1.070098e+01  0.5294021
##   [2379,] -0.6938184105  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2380,]  0.6199155928  1.0100814      0.7571158  5.983743e-02 -1.8889088
##   [2381,]  0.9296776644 -1.4897658      0.7571158 -6.871394e-01  0.5294021
##   [2382,] -1.2913041454  1.0100814     -1.3207918  2.695151e-01  0.5294021
##   [2383,] -0.1159223717 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [2384,] -0.6081134895 -1.2120050      0.7571158  1.908860e-01 -1.8889088
##   [2385,]  0.3591277618  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [2386,] -0.7427926510 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [2387,] -1.2239645646 -0.1009618      0.7571158  2.564103e-01  0.5294021
##   [2388,] -1.0035804821 -1.4897658     -1.3207918  2.013699e-01  0.5294021
##   [2389,] -1.8875655243 -0.9342442     -1.3207918  3.493310e+00  0.5294021
##   [2390,]  1.3630996935 -0.3787226     -1.3207918 -1.760500e-01 -1.8889088
##   [2391,] -0.6913696984  0.4545598      0.7571158 -1.760500e-01 -1.8889088
##   [2392,] -0.0057303305  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2393,] -0.5126137203  1.0100814      0.7571158  1.593106e+00  0.5294021
##   [2394,] -1.5067908039 -1.2120050     -1.3207918 -5.954054e-01  0.5294021
##   [2395,] -0.2579476694  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [2396,] -0.5824020132 -0.3787226      0.7571158 -5.810628e-02 -1.8889088
##   [2397,]  0.2036345480 -0.9342442     -1.3207918  7.294229e-02  0.5294021
##   [2398,] -0.0816404033 -0.9342442     -1.3207918 -2.022597e-01  0.5294021
##   [2399,] -0.6117865575 -1.4897658      0.7571158 -3.202034e-01  0.5294021
##   [2400,]  0.1130322029 -1.2120050      0.7571158 -7.121114e-02  0.5294021
##   [2401,]  1.9973161088  1.0100814      0.7571158 -3.831067e-01  0.5294021
##   [2402,] -1.3635411502  1.0100814     -1.3207918 -4.774617e-01  0.5294021
##   [2403,]  1.0582350459 -0.1009618     -1.3207918 -5.835455e-01 -1.8889088
##   [2404,] -1.7602324989  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [2405,] -0.7893181796  1.0100814      0.7571158  3.743540e-01 -1.8889088
##   [2406,]  0.6994987337 -1.4897658     -1.3207918 -2.415743e-01 -1.8889088
##   [2407,]  0.2575062126  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [2408,] -2.1581482035 -0.1009618      0.7571158  4.005637e-01  0.5294021
##   [2409,]  2.0401685693 -0.6564834     -1.3207918 -1.498403e-01  0.5294021
##   [2410,]  2.1013863700 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [2411,]  0.4717685151 -1.4897658      0.7571158 -7.002443e-01  0.5294021
##   [2412,]  2.0622069776 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [2413,] -0.0718455552 -1.4897658      0.7571158 -4.709093e-01  0.5294021
##   [2414,] -1.2839580093  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [2415,]  1.4843109389  0.7323206     -1.3207918 -5.036714e-01  0.5294021
##   [2416,]  0.0126350098 -1.2120050      0.7571158 -3.912318e-01  0.5294021
##   [2417,] -1.5545406885 -0.9342442      0.7571158  2.433054e-01  0.5294021
##   [2418,]  1.2908626886 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [2419,] -1.0819392670 -0.3787226     -1.3207918 -3.726229e-01  0.5294021
##   [2420,] -0.6999401905 -0.6564834      0.7571158 -5.692481e-01  0.5294021
##   [2421,]  0.5440055199  0.4545598      0.7571158 -4.500143e-02  0.5294021
##   [2422,]  0.0199811458  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [2423,] -0.7562605672 -1.2120050     -1.3207918 -5.823006e-01  0.5294021
##   [2424,]  1.6018491162 -1.4897658      0.7571158  5.447171e-01 -1.8889088
##   [2425,] -0.2248900570  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [2426,]  0.6639924093  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2427,] -0.4758830399 -1.4897658     -1.3207918 -2.048807e-01  0.5294021
##   [2428,]  0.0236542139 -1.2120050      0.7571158 -1.223928e-02  0.5294021
##   [2429,] -0.6179083376 -0.3787226     -1.3207918  1.515714e-01  0.5294021
##   [2430,]  2.4540009021  1.0100814      0.7571158 -7.505086e-02 -1.8889088
##   [2431,]  1.3263690130 -1.4897658     -1.3207918 -6.889610e-01 -1.8889088
##   [2432,] -1.1125481673 -0.1009618      0.7571158  9.378629e-01 -1.8889088
##   [2433,] -0.5787289451  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [2434,]  0.1313975431 -0.3787226     -1.3207918 -4.435726e-01  0.5294021
##   [2435,] -1.1688685440  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [2436,] -0.9619523776  1.0100814      0.7571158 -4.053850e-01  0.5294021
##   [2437,] -0.6411711018  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [2438,]  1.2480102281  0.7323206      0.7571158 -5.823006e-01  0.5294021
##   [2439,]  0.4521788189 -0.3787226      0.7571158 -4.905666e-01  0.5294021
##   [2440,]  2.2017835632  1.0100814      0.7571158  2.433054e-01  0.5294021
##   [2441,] -0.4758830399  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [2442,] -1.4406755791  1.0100814     -1.3207918  6.888706e-01  0.5294021
##   [2443,] -0.5371008406 -1.4897658      0.7571158 -7.526637e-01  0.5294021
##   [2444,] -0.1599991882  0.7323206      0.7571158  9.116531e-01  0.5294021
##   [2445,]  0.4093263584 -0.9342442     -1.3207918 -5.686855e-03  0.5294021
##   [2446,] -0.1955055127  1.0100814     -1.3207918  1.134436e+00 -1.8889088
##   [2447,] -0.8640038964 -1.4897658     -1.3207918  1.658630e+00  0.5294021
##   [2448,] -1.0145996862  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [2449,] -0.9056320009  0.1767990      0.7571158 -5.036714e-01  0.5294021
##   [2450,]  0.5378837399  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [2451,] -1.2007018004  0.1767990      0.7571158  1.462057e+00 -1.8889088
##   [2452,]  0.7215371420  1.0100814     -1.3207918 -3.726229e-01 -1.8889088
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##   [2453,] -1.0329650264 -0.1009618      0.7571158  8.604715e-02  0.5294021
##   [2454,] -1.6145341332 -0.3787226      0.7571158 -6.347200e-01  0.5294021
##   [2455,] -0.9656254456 -0.9342442      0.7571158  6.626609e-01  0.5294021
##   [2456,]  1.2308692439  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [2457,] -0.3118193340  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [2458,] -0.2530502453  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [2459,] -0.3314090302  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [2460,] -1.1370352876  1.0100814      0.7571158  4.149063e-02  0.5294021
##   [2461,] -1.6267776933  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [2462,] -1.8349182157 -1.4897658     -1.3207918  3.874589e-01  0.5294021
##   [2463,]  0.9933441772 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [2464,]  0.5268645357  0.4545598      0.7571158  2.052286e-02  0.5294021
##   [2465,] -0.8395167762  0.7323206     -1.3207918  6.481217e+00  0.5294021
##   [2466,] -0.6509659500  0.1767990     -1.3207918 -2.933385e-01  0.5294021
##   [2467,] -1.0770418429 -0.1009618     -1.3207918  5.241818e-01  0.5294021
##   [2468,] -0.2542746013  0.1767990      0.7571158 -2.415743e-01 -1.8889088
##   [2469,]  0.9235558844 -0.3787226      0.7571158 -7.264540e-01  0.5294021
##   [2470,] -0.4048703911 -0.9342442      0.7571158 -3.333083e-01  0.5294021
##   [2471,]  1.2627025003  1.0100814     -1.3207918 -6.663420e-01  0.5294021
##   [2472,]  0.7937741468 -1.4897658      0.7571158 -3.922801e-01 -1.8889088
##   [2473,]  1.0753760301  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [2474,] -0.5052675843 -1.4897658     -1.3207918 -2.022597e-01  0.5294021
##   [2475,] -1.7969631793  0.1767990      0.7571158 -2.153646e-01  0.5294021
##   [2476,] -0.8995102208  1.0100814     -1.3207918  3.362772e-02  0.5294021
##   [2477,] -0.0314418068 -0.6564834     -1.3207918 -5.723933e-01  0.5294021
##   [2478,] -0.5162867884  1.0100814     -1.3207918 -2.135299e-01  0.5294021
##   [2479,] -0.8909397287 -0.1009618      0.7571158 -5.691957e-01  0.5294021
##   [2480,]  0.5317619598  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [2481,] -0.1942811566  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [2482,] -1.4688357675  1.0100814     -1.3207918 -3.359293e-01  0.5294021
##   [2483,]  0.5795118444  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2484,]  0.4889094993  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [2485,]  0.1766987157 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [2486,]  0.7129666499 -0.9342442      0.7571158  1.122569e-01  0.5294021
##   [2487,]  0.3860635941  0.4545598      0.7571158  8.723386e-01  0.5294021
##   [2488,]  1.8393741830  1.0100814      0.7571158  1.253617e-01 -1.8889088
##   [2489,]  0.6468514251  1.0100814      0.7571158 -2.796511e-02  0.5294021
##   [2490,] -1.2337594127  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [2491,] -0.8505359803  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [2492,] -0.0314418068  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [2493,] -0.9803177178  1.0100814      0.7571158  7.294229e-02  0.5294021
##   [2494,]  1.3765676096 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [2495,] -0.5848507252 -1.2120050     -1.3207918  7.412900e-01 -1.8889088
##   [2496,] -1.3206886897  1.0100814      0.7571158  1.160645e+00  0.5294021
##   [2497,] -0.2861078577 -0.9342442      0.7571158  3.362772e-02  0.5294021
##   [2498,] -0.9521575295  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [2499,] -0.5358764846 -0.1009618     -1.3207918  7.150803e-01  0.5294021
##   [2500,]  0.1632307995  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [2501,] -1.2888554334  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [2502,] -1.7528863628 -1.2120050      0.7571158  1.855203e+00  0.5294021
##   [2503,] -0.9423626813  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [2504,]  0.2868907569  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [2505,]  0.1620064435  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2506,] -0.5762802331  0.4545598      0.7571158 -4.185947e-01 -1.8889088
##   [2507,] -1.0317406704 -0.9342442      0.7571158  1.515714e-01  0.5294021
##   [2508,] -0.6044404214  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [2509,] -0.7562605672  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [2510,]  1.4022790859  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [2511,] -0.1575504762  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [2512,] -0.8799205246  1.0100814     -1.3207918  7.412900e-01  0.5294021
##   [2513,] -0.6277031857  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [2514,] -1.3145669097 -0.1009618     -1.3207918 -3.070986e-01  0.5294021
##   [2515,] -1.2031505124 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [2516,]  0.7007230898 -0.1009618     -1.3207918 -2.028101e-01  0.5294021
##   [2517,] -0.1979542247  0.1767990      0.7571158 -7.121114e-02  0.5294021
##   [2518,] -0.9839907858  1.0100814     -1.3207918  7.418002e-03  0.5294021
##   [2519,] -0.8884910167  1.0100814     -1.3207918  4.791929e-01 -1.8889088
##   [2520,] -1.3990474747  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [2521,]  0.6199155928  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [2522,] -1.3488488781  1.0100814     -1.3207918  8.723386e-01 -1.8889088
##   [2523,]  0.4166724945  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [2524,] -0.2873322137 -0.9342442      0.7571158  1.068911e+00 -1.8889088
##   [2525,] -1.1003046072  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [2526,]  1.3410612852  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [2527,]  0.0640579624 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [2528,] -0.6864722744 -0.6564834      0.7571158  1.304799e+00  0.5294021
##   [2529,]  0.7043961578  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2530,] -0.6056647774  1.0100814     -1.3207918 -5.357259e-01 -1.8889088
##   [2531,] -1.7002390542 -0.3787226      0.7571158  1.789679e+00 -1.8889088
##   [2532,] -1.1394839996  0.1767990      0.7571158 -4.119374e-01  0.5294021
##   [2533,] -0.5089406523 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [2534,] -1.0145996862  1.0100814      0.7571158  1.462057e+00 -1.8889088
##   [2535,] -0.7905425356 -1.4897658      0.7571158 -7.657686e-01  0.5294021
##   [2536,] -1.2582465330 -1.2120050      0.7571158 -1.105257e-01 -1.8889088
##   [2537,]  1.3790163216  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [2538,] -1.3206886897 -0.9342442      0.7571158  1.129121e-01 -1.8889088
##   [2539,]  0.6395052890  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2540,]  2.0279250092  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2541,] -0.3497743705 -1.4897658     -1.3207918  4.018015e-02  0.5294021
##   [2542,]  1.3728945416 -1.2120050     -1.3207918 -1.498403e-01  0.5294021
##   [2543,] -0.7158568187  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [2544,]  2.0254762972 -1.4897658      0.7571158 -6.216151e-01  0.5294021
##   [2545,] -1.5912713689 -0.9342442      0.7571158  3.481443e-01  0.5294021
##   [2546,]  1.3435099972 -1.4897658      0.7571158 -3.301631e-01  0.5294021
##   [2547,]  1.3508561333 -1.4897658     -1.3207918 -4.905666e-01  0.5294021
##   [2548,]  0.9529404287  0.7323206      0.7571158  9.915200e-02  0.5294021
##   [2549,] -0.1000057436  0.7323206      0.7571158 -4.578044e-01 -1.8889088
##   [2550,]  0.4399352587 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
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##   [2551,] -0.4930240241 -0.9342442      0.7571158 -5.132642e-01  0.5294021
##   [2552,]  1.0337479256  0.1767990     -1.3207918 -5.691957e-01  0.5294021
##   [2553,] -1.0819392670  0.7323206      0.7571158  3.560858e-01  0.5294021
##   [2554,]  1.1341451188  0.1767990     -1.3207918 -1.760500e-01  0.5294021
##   [2555,] -0.2150952089 -0.9342442      0.7571158 -2.022597e-01  0.5294021
##   [2556,]  0.3321919295  0.1767990      0.7571158  2.052286e-02  0.5294021
##   [2557,] -0.1391851360  1.0100814      0.7571158 -3.333083e-01  0.5294021
##   [2558,] -1.0696957068  1.0100814     -1.3207918  5.054026e-01 -1.8889088
##   [2559,] -1.6671814418 -0.3787226      0.7571158 -3.726229e-01 -1.8889088
##   [2560,]  0.7852036547  1.0100814      0.7571158  4.398783e-01  0.5294021
##   [2561,] -0.7281003789 -1.4897658      0.7571158 -2.481267e-01  0.5294021
##   [2562,] -0.2750886536 -1.4897658     -1.3207918 -3.464131e-01  0.5294021
##   [2563,] -0.0681724872 -0.9342442      0.7571158  9.509677e-01  0.5294021
##   [2564,] -0.7036132586 -1.2120050     -1.3207918  4.136686e-01  0.5294021
##   [2565,] -1.9279692728 -1.2120050     -1.3207918  2.170695e-01  0.5294021
##   [2566,]  0.9027418321 -1.2120050      0.7571158  2.433054e-01  0.5294021
##   [2567,] -1.9255205608 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [2568,]  1.9042650518  1.0100814     -1.3207918 -3.729505e-01  0.5294021
##   [2569,]  0.2636279927  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2570,] -0.0632750631 -0.6564834     -1.3207918 -4.145584e-01  0.5294021
##   [2571,]  1.1672027312  0.4545598      0.7571158  2.170957e-01  0.5294021
##   [2572,] -0.8419654882  0.1767990      0.7571158 -1.498403e-01  0.5294021
##   [2573,]  1.6716374091  1.0100814     -1.3207918 -3.437922e-01  0.5294021
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##   [2576,]  0.5611465041  1.0100814     -1.3207918  2.314383e-02  0.5294021
##   [2577,] -0.3999729670 -0.6564834     -1.3207918  7.418002e-03  0.5294021
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##   [2582,] -1.7724760590 -0.3787226      0.7571158 -7.121114e-02 -1.8889088
##   [2583,] -0.0987813875  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [2584,] -0.3497743705  1.0100814     -1.3207918  1.357218e+00  0.5294021
##   [2585,] -1.3782334224  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [2586,] -0.8774718126  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [2587,] -0.7011645465  1.0100814      0.7571158  5.793009e-01  0.5294021
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##   [2591,] -1.3647655063  1.0100814      0.7571158  8.604715e-02  0.5294021
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##   [2593,] -1.1076507433  0.1767990      0.7571158 -7.121114e-02 -1.8889088
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##   [2600,] -1.0097022621  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [2601,] -0.3191654701  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [2602,]  0.0261029259  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [2603,]  1.8601882352 -1.4897658      0.7571158 -1.891549e-01  0.5294021
##   [2604,]  1.4879840069 -1.4897658      0.7571158  2.489798e-01  0.5294021
##   [2605,] -0.5371008406  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [2606,] -1.2227402086  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [2607,] -1.6855467820 -1.4897658     -1.3207918  2.051776e+00  0.5294021
##   [2608,] -0.2297874811 -0.6564834      0.7571158 -2.415743e-01  0.5294021
##   [2609,] -0.0596019951  0.4545598      0.7571158 -1.236306e-01  0.5294021
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##   [2615,]  0.0591605383  1.0100814      0.7571158 -2.022597e-01  0.5294021
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##   [2617,] -0.5101650083  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [2618,] -0.2322361931  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [2619,] -0.9692985137  1.0100814      0.7571158  3.493310e+00  0.5294021
##   [2620,]  0.9345750885  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [2621,]  1.3667727615 -0.3787226     -1.3207918  2.826200e-01  0.5294021
##   [2622,] -0.0326661628  0.4545598      0.7571158 -4.255665e-01 -1.8889088
##   [2623,] -1.4027205427  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [2624,] -0.1587748322 -1.4897658      0.7571158 -4.381471e-01  0.5294021
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##   [2626,] -0.0767429793  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [2627,]  1.1806706473 -0.9342442      0.7571158  8.997860e-02  0.5294021
##   [2628,] -0.6999401905  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [2629,]  0.3946340862  1.0100814      0.7571158  4.398783e-01  0.5294021
##   [2630,] -1.1590736959 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##   [2631,]  0.6015502526 -1.4897658     -1.3207918 -3.301631e-01  0.5294021
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##   [2633,] -0.2922296378  1.0100814     -1.3207918 -4.500143e-02  0.5294021
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##   [2636,] -1.2925285014 -0.9342442      0.7571158 -3.857277e-01  0.5294021
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##   [2639,] -0.3718127787  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [2640,] -1.2888554334 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [2641,] -1.0145996862 -0.3787226      0.7571158  2.695151e-01  0.5294021
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##   [2643,]  0.8953956960  0.1767990      0.7571158  5.709269e-01  0.5294021
##   [2644,]  1.3435099972 -0.9342442      0.7571158 -1.105257e-01  0.5294021
##   [2645,] -0.9521575295 -0.9342442      0.7571158 -4.119374e-01  0.5294021
##   [2646,] -0.9215486291  1.0100814      0.7571158  7.674997e-01  0.5294021
##   [2647,]  0.7998959269  1.0100814      0.7571158 -4.952361e-01 -1.8889088
##   [2648,] -1.2374324808  1.0100814     -1.3207918 -2.415743e-01  0.5294021
```

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##   [2649,] -1.2962015695 -0.9342442     -1.3207918  6.102414e-01  0.5294021
##   [2650,]  0.7558191104  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [2651,] -0.9913369219 -1.4897658      0.7571158 -8.431600e-02  0.5294021
##   [2652,] -1.3892526265 -0.3787226      0.7571158  2.433054e-01  0.5294021
##   [2653,] -1.1284647955  1.0100814      0.7571158  8.526813e-01  0.5294021
##   [2654,] -0.4746586839  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [2655,] -0.7954399596 -1.4897658     -1.3207918 -5.914740e-01  0.5294021
##   [2656,]  1.1072092865  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [2657,] -0.1416338480 -0.6564834     -1.3207918 -5.298811e-01  0.5294021
##   [2658,]  1.2247474639 -0.6564834      0.7571158 -5.626433e-01 -1.8889088
##   [2659,]  0.3983071542  1.0100814      0.7571158 -4.015846e-01  0.5294021
##   [2660,]  2.1687259508  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2661,]  0.5133966196  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2662,] -0.1122493037 -0.3787226      0.7571158 -3.726229e-01  0.5294021
##   [2663,]  0.1926153439  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [2664,] -0.5530174688 -0.3787226      0.7571158  1.265484e+00  0.5294021
##   [2665,]  0.2305703803  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2666,]  0.2575062126  0.1767990     -1.3207918 -1.105257e-01 -1.8889088
##   [2667,] -1.0280676023  0.4545598      0.7571158  7.418002e-03 -1.8889088
##   [2668,] -0.1906080886 -0.9342442     -1.3207918 -2.284694e-01  0.5294021
##   [2669,] -0.2261144130 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [2670,] -0.0094033985  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [2671,] -0.2934539938  1.0100814      0.7571158  3.362772e-02 -1.8889088
##   [2672,] -0.7146324627 -1.2120050     -1.3207918  8.604715e-02  0.5294021
##   [2673,] -0.5934212173  1.0100814      0.7571158  2.197036e-01  0.5294021
##   [2674,] -0.1281659319 -1.4897658     -1.3207918 -3.847448e-01 -1.8889088
##   [2675,] -0.2542746013 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [2676,]  0.1583333755  1.0100814      0.7571158 -1.236306e-01 -1.8889088
##   [2677,] -0.8101322318  1.0100814     -1.3207918 -2.546791e-01  0.5294021
##   [2678,]  0.3285188614  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2679,] -2.1201931670  1.0100814      0.7571158  4.803796e+00 -1.8889088
##   [2680,] -0.9999074140  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [2681,] -0.2028516487  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [2682,] -1.7773734831 -0.3787226     -1.3207918 -4.905666e-01  0.5294021
##   [2683,] -0.0975570315 -0.3787226      0.7571158 -5.691957e-01  0.5294021
##   [2684,] -0.3056975539  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [2685,]  0.4154481384  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [2686,]  0.5231914677 -0.3787226     -1.3207918  2.826200e-01  0.5294021
##   [2687,]  1.8063165706 -1.4897658     -1.3207918 -3.726229e-01 -1.8889088
##   [2688,] -0.8627795404 -0.9342442      0.7571158  1.331009e+00 -1.8889088
##   [2689,] -0.4281331554 -1.2120050     -1.3207918  8.723386e-01  0.5294021
##   [2690,]  0.3113778772  1.0100814      0.7571158 -4.224213e-01  0.5294021
##   [2691,]  0.4987043474  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2692,] -0.7256516668  1.0100814     -1.3207918  1.646763e-01 -1.8889088
##   [2693,] -1.5190343641  1.0100814      0.7571158  2.182824e+00  0.5294021
##   [2694,] -0.1330633559 -0.3787226     -1.3207918  7.294229e-02  0.5294021
##   [2695,]  1.0251774335  0.4545598      0.7571158 -4.381471e-01  0.5294021
##   [2696,]  0.7827549427 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [2697,]  0.9835493290  1.0100814      0.7571158 -6.845185e-01  0.5294021
##   [2698,]  2.1870912910  1.0100814      0.7571158  1.199960e+00 -1.8889088
##   [2699,]  0.4460570388  0.1767990      0.7571158 -4.512520e-01  0.5294021
##   [2700,] -0.5101650083 -1.4897658      0.7571158 -7.892132e-01 -1.8889088
##   [2701,]  0.2575062126 -0.3787226     -1.3207918 -8.706074e-01  0.5294021
##   [2702,] -0.4293575114 -0.3787226      0.7571158 -1.629451e-01  0.5294021
##   [2703,] -0.6815748503  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [2704,]  0.8219343352 -1.2120050      0.7571158 -4.362076e-01  0.5294021
##   [2705,]  0.2354678043  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [2706,]  1.1537348150 -1.4897658     -1.3207918 -6.795386e-01  0.5294021
##   [2707,] -1.1272404395  1.0100814      0.7571158  2.047044e-02 -1.8889088
##   [2708,] -0.0889865394 -1.4897658      0.7571158 -2.022597e-01  0.5294021
##   [2709,] -1.4014961867  1.0100814      0.7571158  1.332115e-01  0.5294021
##   [2710,] -0.5689340970  1.0100814      0.7571158  6.403099e-02 -1.8889088
##   [2711,]  0.3248457934  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [2712,]  0.2366921604 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [2713,] -0.3791589148 -0.1009618      0.7571158  7.412900e-01 -1.8889088
##   [2714,] -0.1759158164  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [2715,]  1.0496645538 -1.4897658      0.7571158 -2.743364e-01 -1.8889088
##   [2716,]  1.4341123423 -0.9342442      0.7571158  4.005637e-01  0.5294021
##   [2717,] -1.0133753302  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [2718,]  1.2602537883 -0.3787226      0.7571158 -9.742085e-02 -1.8889088
##   [2719,] -0.0240956707 -0.1009618      0.7571158 -3.070986e-01  0.5294021
##   [2720,] -1.6377968974 -1.4897658      0.7571158  1.646763e-01  0.5294021
##   [2721,] -0.9962343460 -1.4897658      0.7571158 -7.121114e-02  0.5294021
##   [2722,]  0.8121394871  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2723,] -1.2741631612 -0.9342442     -1.3207918  4.410650e+00  0.5294021
##   [2724,] -0.3044731979 -0.3787226      0.7571158  2.156615e+00  0.5294021
##   [2725,] -1.2435542608 -0.9342442     -1.3207918 -2.620179e-01  0.5294021
##   [2726,]  2.1760720869  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [2727,] -2.0112254818 -1.4897658      0.7571158 -8.050831e-01  0.5294021
##   [2728,] -0.2910052818 -1.2120050      0.7571158  8.723386e-01 -1.8889088
##   [2729,]  1.2394397360 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [2730,]  0.5538003681 -1.2120050     -1.3207918  8.604715e-02  0.5294021
##   [2731,] -0.8223757920 -1.2120050      0.7571158 -3.401752e-01 -1.8889088
##   [2732,]  0.1632307995  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [2733,] -0.9533818855 -0.3787226     -1.3207918 -2.153646e-01  0.5294021
##   [2734,] -1.3819064905  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [2735,] -0.0069546865  1.0100814      0.7571158 -7.272542e-03 -1.8889088
##   [2736,]  0.6321591530 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [2737,] -0.7819720435 -1.2120050     -1.3207918 -4.712107e-01  0.5294021
##   [2738,]  0.4607493110 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [2739,]  0.1497628834  1.0100814     -1.3207918 -2.939937e-01 -1.8889088
##   [2740,] -0.3779345588 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [2741,]  0.0236542139 -0.9342442     -1.3207918 -4.596391e-01  0.5294021
##   [2742,]  0.6762359695  1.0100814      0.7571158  7.543949e-01  0.5294021
##   [2743,]  0.7264345661  1.0100814     -1.3207918  1.188093e-01 -1.8889088
##   [2744,]  1.6704130530  1.0100814      0.7571158  2.526099e-01  0.5294021
##   [2745,]  0.7680626705  0.1767990     -1.3207918  4.673257e-02  0.5294021
##   [2746,] -0.3387551663  1.0100814      0.7571158  4.529831e-01  0.5294021
```

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##   [2747,]  0.1742500036 -0.3787226     -1.3207918 -5.691957e-01  0.5294021
##   [2748,] -0.5909725053 -1.4897658     -1.3207918  6.757657e-01 -1.8889088
##   [2749,] -0.8174783679  1.0100814     -1.3207918  8.881227e-02  0.5294021
##   [2750,] -1.1578493399 -0.6564834      0.7571158  5.185074e-01  0.5294021
##   [2751,] -1.0366380944  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [2752,]  0.2893394690  1.0100814      0.7571158  1.199960e+00 -1.8889088
##   [2753,] -1.5435214843  1.0100814     -1.3207918 -9.742085e-02  0.5294021
##   [2754,]  0.1656795115 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##   [2755,] -0.3326333863  0.4545598     -1.3207918  1.239275e+00  0.5294021
##   [2756,]  1.3937085938 -0.9342442      0.7571158  1.384666e-01  0.5294021
##   [2757,]  1.4120739340 -0.6564834     -1.3207918 -5.691957e-01 -1.8889088
##   [2758,]  0.3921853742  1.0100814     -1.3207918 -6.609297e-01  0.5294021
##   [2759,] -0.8835935927  1.0100814      0.7571158 -6.085103e-01  0.5294021
##   [2760,] -0.4869022441 -0.9342442     -1.3207918  4.791929e-01  0.5294021
##   [2761,]  0.6052233206  0.4545598      0.7571158 -9.742085e-02 -1.8889088
##   [2762,] -1.0170483982 -0.3787226      0.7571158  4.791929e-01  0.5294021
##   [2763,] -1.5447458404  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [2764,]  0.3126022332 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [2765,] -0.0889865394 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [2766,]  0.9713057689  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2767,] -0.2579476694  0.1767990     -1.3207918 -7.788734e-01  0.5294021
##   [2768,] -0.7427926510 -0.9342442     -1.3207918  1.908860e-01  0.5294021
##   [2769,] -0.6240301176 -1.4897658     -1.3207918 -6.347200e-01  0.5294021
##   [2770,]  0.2856664009 -1.2120050      0.7571158 -6.347200e-01  0.5294021
##   [2771,]  0.6284860849 -0.9342442     -1.3207918 -6.530668e-01  0.5294021
##   [2772,]  0.3444354896  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [2773,] -1.6488161016  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2774,]  0.8366266073 -0.9342442     -1.3207918 -6.740346e-01  0.5294021
##   [2775,] -0.7342221589  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [2776,] -0.5481200448 -0.3787226     -1.3207918 -3.739989e-01  0.5294021
##   [2777,] -1.3047720616  0.1767990      0.7571158  2.052286e-02 -1.8889088
##   [2778,] -1.5202587201 -1.2120050      0.7571158  5.761688e-01  0.5294021
##   [2779,] -0.6950427665 -1.4897658     -1.3207918 -2.546791e-01  0.5294021
##   [2780,] -1.0880610470  0.1767990     -1.3207918 -1.105257e-01  0.5294021
##   [2781,] -0.5003701602  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2782,]  2.1001620140  0.1767990      0.7571158  8.604715e-02  0.5294021
##   [2783,]  0.7472486183  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [2784,] -0.8627795404  1.0100814     -1.3207918  1.422743e+00  0.5294021
##   [2785,]  0.4803390072  1.0100814      0.7571158 -5.272602e-01 -1.8889088
##   [2786,] -1.2778362292  1.0100814      0.7571158  3.624359e+00  0.5294021
##   [2787,] -1.2717144492  1.0100814      0.7571158  4.267734e-01 -1.8889088
##   [2788,]  1.6642912730  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [2789,]  0.0995642868 -1.2120050      0.7571158 -9.937348e-02 -1.8889088
##   [2790,] -1.2215158526  0.4545598      0.7571158 -4.905666e-01  0.5294021
##   [2791,] -1.0794905549  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [2792,]  1.0178312974  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [2793,]  1.2149526157  1.0100814      0.7571158 -8.431600e-02 -1.8889088
##   [2794,]  0.7313319901  1.0100814      0.7571158  4.005637e-01  0.5294021
##   [2795,]  2.3621742011 -0.9342442      0.7571158 -4.053850e-01 -1.8889088
##   [2796,]  0.1313975431  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [2797,] -1.4210858829 -0.6564834      0.7571158 -5.560909e-01  0.5294021
##   [2798,]  2.2936102643 -1.4897658     -1.3207918 -6.504458e-01  0.5294021
##   [2799,]  0.2587305686  1.0100814      0.7571158 -4.604254e-01  0.5294021
##   [2800,] -0.3865050509  1.0100814      0.7571158 -5.810628e-02  0.5294021
##   [2801,] -0.7281003789  1.0100814     -1.3207918  3.612491e-01  0.5294021
##   [2802,] -0.1489799841 -1.4897658     -1.3207918 -6.163732e-01 -1.8889088
##   [2803,]  1.1512861030  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [2804,] -1.4786306156 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
##   [2805,]  0.2036345480  1.0100814     -1.3207918 -1.432879e-01 -1.8889088
##   [2806,] -0.7709528394 -1.2120050      0.7571158  5.131417e+00  0.5294021
##   [2807,]  0.1632307995 -1.2120050     -1.3207918 -4.103124e-01  0.5294021
##   [2808,] -0.5897481492  1.0100814     -1.3207918  2.182824e+00  0.5294021
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##   [2810,] -2.0381613141 -1.2120050      0.7571158  3.978190e+00  0.5294021
##   [2811,] -1.5141369400  0.1767990      0.7571158  3.481443e-01  0.5294021
##   [2812,]  0.0701797424 -0.9342442      0.7571158 -7.657686e-01  0.5294021
##   [2813,]  0.8868252039 -0.9342442     -1.3207918 -5.691957e-01  0.5294021
##   [2814,] -0.0877621834  0.4545598      0.7571158  1.488267e+00  0.5294021
##   [2815,] -1.1052020312 -0.9342442      0.7571158  2.838067e+00  0.5294021
##   [2816,] -1.1358109316  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2817,]  0.3676982539 -0.6564834      0.7571158 -4.500143e-02  0.5294021
##   [2818,]  0.4411596147 -0.1009618      0.7571158 -2.088121e-01 -1.8889088
##   [2819,] -0.9031832889 -1.4897658      0.7571158 -2.881752e-01  0.5294021
##   [2820,]  1.8405985390  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [2821,]  1.0031390253 -0.1009618      0.7571158 -7.788734e-01  0.5294021
##   [2822,]  0.4693198031 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [2823,]  0.1607820875 -0.1009618     -1.3207918 -6.347200e-01  0.5294021
##   [2824,]  1.0423184177  1.0100814      0.7571158 -1.652490e-01  0.5294021
##   [2825,] -0.2640694495  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [2826,]  0.9811006170  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [2827,] -0.5811776571  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [2828,] -0.8664526085 -0.1009618     -1.3207918  2.031390e-01 -1.8889088
##   [2829,]  0.7594921784 -1.2120050      0.7571158 -8.431600e-02  0.5294021
##   [2830,]  0.5317619598 -0.6564834     -1.3207918 -3.726229e-01  0.5294021
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##   [2832,]  1.1170041346  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [2833,]  0.1522115954 -0.1009618      0.7571158  1.646763e-01  0.5294021
##   [2834,]  0.0273272819  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [2835,] -1.2398811928 -0.9342442     -1.3207918 -6.216151e-01  0.5294021
##   [2836,] -1.2766118732  1.0100814     -1.3207918  1.855203e+00  0.5294021
##   [2837,]  1.0141582294 -1.2120050      0.7571158  3.612491e-01 -1.8889088
##   [2838,]  1.1267989827 -0.6564834      0.7571158  7.412900e-01  0.5294021
##   [2839,]  0.5158453316  1.0100814     -1.3207918 -3.433204e-01  0.5294021
##   [2840,] -0.8089078758 -1.4897658      0.7571158  5.447171e-01  0.5294021
##   [2841,] -0.9619523776 -1.4897658     -1.3207918 -2.022597e-01  0.5294021
##   [2842,]  0.4166724945  0.7323206      0.7571158 -4.381471e-01 -1.8889088
##   [2843,] -0.2493771773  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [2844,] -1.1982530883 -1.4897658     -1.3207918 -2.776913e-01  0.5294021
```

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##   [2845,]  1.0117095174 -1.2120050      0.7571158 -4.905666e-01  0.5294021
##   [2846,] -0.5395495527 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [2847,] -1.3745603544  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [2848,] -0.0155251786  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [2849,] -0.6338249658  1.0100814      0.7571158 -1.524613e-01  0.5294021
##   [2850,]  0.4815633632  0.7323206      0.7571158 -3.333083e-01  0.5294021
##   [2851,]  0.3260701494 -0.9342442     -1.3207918 -1.760500e-01  0.5294021
##   [2852,]  0.3260701494 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##   [2853,] -0.9631767336 -1.2120050     -1.3207918 -6.531978e-01  0.5294021
##   [2854,] -0.4085434591 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [2855,]  0.1399680352  1.0100814      0.7571158  3.874589e-01  0.5294021
##   [2856,] -1.4602652754  0.4545598      0.7571158  2.064881e+00  0.5294021
##   [2857,]  1.8969189157  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [2858,] -0.4991458042 -1.2120050     -1.3207918  8.604715e-02 -1.8889088
##   [2859,] -1.3868039145  0.4545598      0.7571158  3.219346e-01 -1.8889088
##   [2860,]  0.5342106718  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [2861,]  0.5317619598  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [2862,]  0.2856664009 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [2863,] -1.2570221770  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [2864,]  0.5244158237 -0.6564834     -1.3207918 -5.036714e-01  0.5294021
##   [2865,] -1.4920985317  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [2866,] -0.6093378455  0.1767990      0.7571158 -1.105257e-01  0.5294021
##   [2867,] -1.0550034347 -1.2120050      0.7571158  1.908860e-01  0.5294021
##   [2868,] -1.8116554515  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [2869,] -0.2787617216 -1.4897658      0.7571158  6.888706e-01 -1.8889088
##   [2870,] -1.1578493399 -1.4897658      0.7571158  1.515714e-01  0.5294021
##   [2871,] -0.6852479184 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [2872,]  0.2709741288 -1.2120050     -1.3207918 -2.808889e-01  0.5294021
##   [2873,] -1.3512975901  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [2874,] -0.8284975720 -0.3787226      0.7571158  8.604715e-02  0.5294021
##   [2875,] -0.0081790425 -0.3787226     -1.3207918 -6.347200e-01 -1.8889088
##   [2876,] -0.6864722744  0.7323206      0.7571158  2.695151e-01 -1.8889088
##   [2877,]  1.1145554226 -1.4897658      0.7571158  6.757657e-01  0.5294021
##   [2878,] -0.1257172199  1.0100814      0.7571158 -5.364336e-01  0.5294021
##   [2879,] -1.0684713508 -0.3787226     -1.3207918  3.886966e-02  0.5294021
##   [2880,] -1.0023561260 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [2881,] -1.1480544917  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [2882,] -0.1710183924 -0.9342442      0.7571158 -7.002443e-01  0.5294021
##   [2883,]  0.3860635941 -0.1009618     -1.3207918  8.723386e-01  0.5294021
##   [2884,] -0.0400122989 -0.1009618     -1.3207918 -5.036714e-01  0.5294021
##   [2885,] -1.2509003969  0.1767990      0.7571158  3.481443e-01  0.5294021
##   [2886,]  0.5880823364 -0.3787226      0.7571158  4.673257e-02  0.5294021
##   [2887,]  0.5513516560 -1.4897658      0.7571158 -2.153646e-01 -1.8889088
##   [2888,] -0.5285303485  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [2889,]  0.5660439282  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [2890,] -0.3877294069 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [2891,] -0.8835935927 -0.1009618      0.7571158 -3.726229e-01  0.5294021
##   [2892,] -0.1195954398 -1.2120050      0.7571158  8.604715e-02 -1.8889088
##   [2893,] -0.8872666607 -1.2120050     -1.3207918  4.791929e-01  0.5294021
##   [2894,]  1.2896383326 -0.1009618      0.7571158  8.604715e-02 -1.8889088
##   [2895,] -0.3032488419  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [2896,]  0.8415240314  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [2897,] -0.1232685078  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [2898,] -0.7011645465 -0.9342442      0.7571158 -7.526637e-01  0.5294021
##   [2899,] -0.5028188722  1.0100814      0.7571158 -2.606768e-01 -1.8889088
##   [2900,] -1.3733359984 -0.9342442      0.7571158 -4.500143e-02 -1.8889088
##   [2901,]  1.3398369292 -0.3787226     -1.3207918 -7.156472e-01  0.5294021
##   [2902,]  0.6701141894 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [2903,]  2.0107840250 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [2904,]  1.0998631504  0.4545598      0.7571158  4.791929e-01 -1.8889088
##   [2905,]  0.9174341043  0.1767990      0.7571158 -4.643569e-01 -1.8889088
##   [2906,]  0.4460570388  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [2907,]  0.2366921604  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [2908,] -0.3350820983 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [2909,] -1.2729388052  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [2910,] -0.3975242550  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [2911,] -0.4513959196 -1.4897658     -1.3207918 -5.167763e-01  0.5294021
##   [2912,]  2.3768664733  1.0100814      0.7571158 -6.268571e-01  0.5294021
##   [2913,] -1.3439514540 -1.4897658     -1.3207918 -2.939937e-01  0.5294021
##   [2914,] -1.1811121041 -0.3787226      0.7571158 -1.760500e-01  0.5294021
##   [2915,] -0.6717800022  0.7323206      0.7571158  2.880454e-01 -1.8889088
##   [2916,]  0.2085319720  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [2917,]  0.2146537521 -1.2120050      0.7571158  8.723386e-01  0.5294021
##   [2918,]  0.1975127679 -1.2120050      0.7571158 -3.189657e-02 -1.8889088
##   [2919,]  0.0701797424  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [2920,] -0.8444142002 -0.6564834      0.7571158 -2.415743e-01  0.5294021
##   [2921,]  0.1338462552  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [2922,]  2.4038023056  1.0100814      0.7571158  3.612491e-01 -1.8889088
##   [2923,] -1.5839252328 -0.9342442     -1.3207918  2.170957e-01 -1.8889088
##   [2924,] -0.2040760048 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##   [2925,]  0.3236214374  1.0100814      0.7571158 -1.679351e-01  0.5294021
##   [2926,]  1.2088308357  1.0100814     -1.3207918 -4.958085e-01  0.5294021
##   [2927,] -0.3314090302  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [2928,] -0.6191326936  0.1767990     -1.3207918 -3.070986e-01  0.5294021
##   [2929,] -0.3583448626  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [2930,] -0.5040432282 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [2931,] -0.3950755430 -0.6564834      0.7571158 -2.415743e-01  0.5294021
##   [2932,]  0.0469169782  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [2933,] -2.0234690419 -0.9342442     -1.3207918  2.170957e-01  0.5294021
##   [2934,] -1.0023561260 -0.3787226     -1.3207918  1.515714e-01  0.5294021
##   [2935,] -1.9414371890 -0.1009618      0.7571158  2.052286e-02  0.5294021
##   [2936,] -0.3509987265 -0.6564834      0.7571158 -1.879171e-02  0.5294021
##   [2937,]  1.7683615342  0.7323206     -1.3207918 -7.395589e-01  0.5294021
##   [2938,] -0.7611579912 -1.2120050     -1.3207918 -1.891549e-01 -1.8889088
##   [2939,] -1.3194643337 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [2940,] -1.2215158526  0.1767990      0.7571158  4.136686e-01 -1.8889088
##   [2941,] -0.5983186413 -0.1009618      0.7571158 -4.500143e-02  0.5294021
##   [2942,] -0.0424610109  1.0100814      0.7571158  8.723386e-01 -1.8889088
```

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##   [2943,]  0.0873207266  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [2944,]  0.0432439101 -0.6564834     -1.3207918 -1.760500e-01  0.5294021
##   [2945,]  0.6015502526  1.0100814     -1.3207918 -5.621604e-01  0.5294021
##   [2946,] -0.8321706401  1.0100814      0.7571158 -6.085103e-01 -1.8889088
##   [2947,] -0.7905425356  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [2948,]  0.2317947363  0.1767990      0.7571158  6.102414e-01 -1.8889088
##   [2949,] -0.8089078758 -0.6564834      0.7571158  3.546967e-01  0.5294021
##   [2950,]  0.6946013097 -1.2120050     -1.3207918 -4.119374e-01 -1.8889088
##   [2951,] -1.1407083557  0.4545598      0.7571158  2.313873e+00 -1.8889088
##   [2952,]  0.0052888737  1.0100814     -1.3207918  4.136686e-01 -1.8889088
##   [2953,]  1.2663755683  1.0100814      0.7571158 -1.432879e-01  0.5294021
##   [2954,]  0.5758387763  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [2955,] -1.0807149110  1.0100814     -1.3207918 -5.954054e-01  0.5294021
##   [2956,] -0.0828647594  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [2957,] -1.2117210045  1.0100814     -1.3207918  5.983743e-02 -1.8889088
##   [2958,]  0.6762359695 -0.1009618      0.7571158  1.515714e-01 -1.8889088
##   [2959,]  0.4068776463  1.0100814      0.7571158 -3.333083e-01  0.5294021
##   [2960,]  0.6211399488  0.7323206      0.7571158 -1.367354e-01  0.5294021
##   [2961,] -0.1257172199  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [2962,] -1.1480544917  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [2963,] -1.8055336714 -1.4897658      0.7571158  2.826200e-01 -1.8889088
##   [2964,]  1.5883812001  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [2965,] -1.2557978210 -0.3787226      0.7571158  8.604715e-02  0.5294021
##   [2966,]  0.3799418140  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [2967,] -0.5885237932 -0.6564834      0.7571158  1.331009e+00  0.5294021
##   [2968,]  0.7129666499  1.0100814     -1.3207918 -2.939937e-01  0.5294021
##   [2969,]  0.6786846815  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [2970,]  0.6137938127  1.0100814      0.7571158 -3.202034e-01 -1.8889088
##   [2971,] -0.4367036475  0.1767990      0.7571158  6.102414e-01  0.5294021
##   [2972,] -0.9729715817 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [2973,] -0.6827992063  1.0100814      0.7571158  1.855203e+00 -1.8889088
##   [2974,] -0.1869350206  0.1767990      0.7571158 -5.686855e-03  0.5294021
##   [2975,] -0.3350820983 -1.4897658     -1.3207918 -1.760500e-01 -1.8889088
##   [2976,] -0.1342877120 -0.9342442     -1.3207918 -4.500143e-02  0.5294021
##   [2977,] -1.0256188903  1.0100814      0.7571158 -4.906976e-01  0.5294021
##   [2978,] -0.1942811566 -0.6564834      0.7571158 -4.510626e-02  0.5294021
##   [2979,] -0.8358437081  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [2980,]  0.6297104409 -0.9342442      0.7571158 -3.070986e-01 -1.8889088
##   [2981,]  0.1669038676  0.4545598      0.7571158 -4.500143e-02  0.5294021
##   [2982,]  0.0444682661  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [2983,]  0.4178968505 -1.2120050      0.7571158  4.804306e-02 -1.8889088
##   [2984,] -0.9142024930  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [2985,]  0.9027418321  0.7323206      0.7571158  1.134436e+00 -1.8889088
##   [2986,]  0.2366921604 -1.2120050     -1.3207918 -1.531165e-01  0.5294021
##   [2987,] -0.8627795404 -1.2120050      0.7571158  1.003387e+00  0.5294021
##   [2988,]  0.0775258785 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [2989,]  0.1167052710 -1.4897658      0.7571158  7.418002e-03  0.5294021
##   [2990,] -0.7525874991 -1.4897658     -1.3207918  4.136686e-01  0.5294021
##   [2991,] -0.9472601054  1.0100814      0.7571158  2.051776e+00  0.5294021
##   [2992,]  0.3566790498  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [2993,] -0.3069219100 -1.4897658      0.7571158  1.515714e-01 -1.8889088
##   [2994,] -1.2007018004  1.0100814     -1.3207918  2.052286e-02 -1.8889088
##   [2995,] -0.2310118371 -1.4897658      0.7571158 -3.595180e-01 -1.8889088
##   [2996,] -0.6693312902 -0.6564834     -1.3207918 -5.512945e-01  0.5294021
##   [2997,] -0.7476900751 -0.6564834      0.7571158 -2.808889e-01 -1.8889088
##   [2998,] -0.0277687387  1.0100814      0.7571158  1.777811e-01  0.5294021
##   [2999,]  0.0787502345  1.0100814     -1.3207918 -3.726229e-01 -1.8889088
##   [3000,] -0.4011973231 -1.2120050      0.7571158  7.412900e-01  0.5294021
##   [3001,] -1.7394184466 -0.1009618     -1.3207918  8.735253e+00  0.5294021
##   [3002,] -0.0155251786  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [3003,]  0.4227942745 -0.3787226     -1.3207918 -3.726229e-01  0.5294021
##   [3004,] -0.4930240241  1.0100814     -1.3207918 -5.954054e-01  0.5294021
##   [3005,]  0.6786846815 -1.4897658     -1.3207918 -6.719378e-01  0.5294021
##   [3006,]  2.2776936361 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [3007,] -0.8701256765 -1.2120050      0.7571158  1.331009e+00 -1.8889088
##   [3008,]  0.6444027131  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [3009,] -0.1330633559  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3010,] -0.5371008406  0.4545598      0.7571158 -7.919783e-01  0.5294021
##   [3011,] -0.3669153547 -0.6564834     -1.3207918  1.974384e-01  0.5294021
##   [3012,]  0.1779230717 -0.1009618      0.7571158 -3.464131e-01  0.5294021
##   [3013,] -1.7565594308  1.0100814     -1.3207918  3.481443e-01  0.5294021
##   [3014,] -1.2753875172  0.1767990      0.7571158  5.447171e-01  0.5294021
##   [3015,] -0.4685369038  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [3016,] -0.6154596255 -0.3787226      0.7571158  2.052286e-02 -1.8889088
##   [3017,]  2.1026107261 -0.9342442     -1.3207918 -5.691957e-01  0.5294021
##   [3018,]  0.4840120752  0.4545598     -1.3207918  8.604715e-02  0.5294021
##   [3019,] -1.3304835379 -0.9342442      0.7571158  5.296466e-01  0.5294021
##   [3020,] -0.9019589329 -1.4897658      0.7571158  7.294229e-02  0.5294021
##   [3021,]  0.4705441591  0.7323206      0.7571158 -4.381471e-01  0.5294021
##   [3022,]  1.0766003861 -0.6564834      0.7571158 -2.808889e-01  0.5294021
##   [3023,] -0.1110249477  1.0100814      0.7571158  6.233463e-01  0.5294021
##   [3024,] -1.0819392670 -0.1009618     -1.3207918 -3.070986e-01  0.5294021
##   [3025,]  1.1806706473 -1.4897658      0.7571158 -5.686855e-03  0.5294021
##   [3026,]  0.3444354896  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3027,] -0.5701584530  1.0100814      0.7571158 -3.385502e-01 -1.8889088
##   [3028,] -0.2420310412  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [3029,] -1.5827008768  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [3030,]  0.2268973122 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [3031,] -1.0366380944 -0.9342442     -1.3207918  2.433054e-01  0.5294021
##   [3032,]  2.5017507867  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [3033,]  1.1280233387  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [3034,] -0.3522230825  1.0100814      0.7571158  2.302006e-01  0.5294021
##   [3035,]  0.1509872394 -0.9342442      0.7571158  8.723386e-01  0.5294021
##   [3036,] -1.5104638720 -0.6564834      0.7571158  4.791929e-01  0.5294021
##   [3037,]  0.9651839888 -1.2120050     -1.3207918  2.052286e-02 -1.8889088
##   [3038,]  2.2862641282 -0.3787226      0.7571158 -5.691957e-01  0.5294021
##   [3039,] -1.2117210045  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [3040,] -1.2496760409  1.0100814     -1.3207918  2.826200e-01 -1.8889088
```

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##   [3041,]  1.3275933690  0.1767990      0.7571158 -6.478249e-01  0.5294021
##   [3042,] -0.7746259074 -0.3787226      0.7571158  8.477801e-01  0.5294021
##   [3043,]  0.1154809150 -0.6564834      0.7571158  8.723386e-01 -1.8889088
##   [3044,]  2.4491034781 -0.6564834      0.7571158  2.170957e-01  0.5294021
##   [3045,] -0.9350165453 -1.2120050     -1.3207918  1.167198e+00  0.5294021
##   [3046,]  0.1081347789 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [3047,] -2.0320395340 -1.4897658      0.7571158 -4.250423e-01 -1.8889088
##   [3048,] -0.7170811747 -1.4897658     -1.3207918 -5.209698e-01  0.5294021
##   [3049,]  2.2042322752  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [3050,]  0.0114106537 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [3051,]  0.4264673426  0.1767990     -1.3207918 -7.002443e-01 -1.8889088
##   [3052,] -0.2689668735 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [3053,] -1.7798221951  1.0100814     -1.3207918  6.102414e-01  0.5294021
##   [3054,] -0.3877294069 -1.4897658     -1.3207918  1.646763e-01  0.5294021
##   [3055,] -0.7525874991  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [3056,] -1.1700929000 -0.1009618     -1.3207918  1.646763e-01  0.5294021
##   [3057,] -1.2533491090 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##   [3058,] -0.8554334043  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [3059,] -1.2729388052 -1.4897658      0.7571158  4.902796e-01 -1.8889088
##   [3060,] -2.0381613141  0.4545598     -1.3207918  1.515714e-01  0.5294021
##   [3061,] -0.1208197958  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [3062,]  0.1754743597  1.0100814     -1.3207918 -5.724457e-01  0.5294021
##   [3063,] -0.9350165453 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [3064,] -0.1391851360 -0.9342442      0.7571158 -3.197710e-01 -1.8889088
##   [3065,] -0.0351148748 -0.9342442      0.7571158  3.481443e-01  0.5294021
##   [3066,]  0.4889094993 -0.3787226      0.7571158 -1.236306e-01 -1.8889088
##   [3067,] -0.1146980157 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [3068,] -0.5371008406  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [3069,] -0.6264788297  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [3070,]  0.8513188795  1.0100814     -1.3207918 -6.740346e-01  0.5294021
##   [3071,] -1.1468301357  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3072,]  0.4852364313 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [3073,] -0.5322034166 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [3074,] -0.6644338661  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [3075,] -0.8407411322  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [3076,] -1.0268432463 -0.6564834     -1.3207918  1.646763e-01  0.5294021
##   [3077,]  0.0505900462  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3078,] -0.5456713327  1.0100814      0.7571158 -5.810628e-02  0.5294021
##   [3079,] -0.3975242550  1.0100814      0.7571158 -5.233287e-01  0.5294021
##   [3080,] -1.5606624685  1.0100814     -1.3207918  2.170957e-01 -1.8889088
##   [3081,] -1.2533491090 -0.3787226      0.7571158 -3.333083e-01  0.5294021
##   [3082,] -1.2655926691  1.0100814      0.7571158  3.362772e-02 -1.8889088
##   [3083,]  0.6064476767  1.0100814      0.7571158  7.294229e-02  0.5294021
##   [3084,]  0.4546275309 -1.2120050      0.7571158 -4.971190e-01  0.5294021
##   [3085,] -1.4602652754 -1.2120050     -1.3207918 -5.036714e-01  0.5294021
##   [3086,]  0.7852036547 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [3087,] -1.0256188903 -0.3787226     -1.3207918 -3.070986e-01 -1.8889088
##   [3088,]  0.5440055199 -0.6564834      0.7571158 -3.857277e-01 -1.8889088
##   [3089,] -1.8496104879  0.1767990     -1.3207918 -1.092880e-02  0.5294021
##   [3090,] -0.5175111444  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [3091,] -0.2150952089  1.0100814     -1.3207918 -2.546791e-01  0.5294021
##   [3092,] -0.7329978029  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [3093,]  0.9394725125 -0.9342442     -1.3207918 -5.429860e-01  0.5294021
##   [3094,]  1.7316308537  1.0100814     -1.3207918 -4.217661e-01 -1.8889088
##   [3095,]  2.1319952704 -0.6564834     -1.3207918 -4.500143e-02  0.5294021
##   [3096,] -0.8333949961  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [3097,] -0.1746914604 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [3098,]  0.2709741288  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [3099,] -1.3170156217  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3100,] -1.2129453605 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [3101,] -0.6840235623  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3102,] -1.8410399958 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [3103,] -0.3962998990 -0.3787226      0.7571158 -1.498403e-01  0.5294021
##   [3104,]  0.8525432355 -1.4897658      0.7571158 -7.002443e-01  0.5294021
##   [3105,]  1.4892083629  0.4545598      0.7571158 -5.298811e-01  0.5294021
##   [3106,] -1.3549706581  1.0100814     -1.3207918  1.908860e-01 -1.8889088
##   [3107,] -0.3473256584  0.1767990      0.7571158 -3.437922e-01  0.5294021
##   [3108,]  0.6113451007  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [3109,]  0.9578378527  1.0100814      0.7571158 -3.333083e-01 -1.8889088
##   [3110,] -1.2717144492 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [3111,]  0.6407296451  1.0100814      0.7571158  5.578220e-01  0.5294021
##   [3112,]  0.0248785699  1.0100814     -1.3207918 -4.119374e-01 -1.8889088
##   [3113,]  1.0851708782 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [3114,] -0.2383579732  0.1767990      0.7571158  2.170957e-01 -1.8889088
##   [3115,] -0.6179083376  0.1767990     -1.3207918 -4.500143e-02  0.5294021
##   [3116,] -0.0473584349 -0.9342442      0.7571158 -4.381471e-01  0.5294021
##   [3117,] -0.2542746013 -0.9342442      0.7571158  1.083254e-01  0.5294021
##   [3118,] -0.1746914604 -1.4897658      0.7571158  8.604715e-02 -1.8889088
##   [3119,] -1.9659243092  1.0100814     -1.3207918  1.527581e+00  0.5294021
##   [3120,]  0.1375193232  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [3121,]  1.9018163397  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [3122,] -0.9937856339  0.4545598      0.7571158  1.527581e+00  0.5294021
##   [3123,] -1.2227402086  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [3124,]  0.6321591530 -1.4897658      0.7571158  4.136686e-01  0.5294021
##   [3125,] -0.4942483801  1.0100814      0.7571158  7.019754e-01 -1.8889088
##   [3126,] -0.2579476694 -0.1009618      0.7571158  5.983743e-02  0.5294021
##   [3127,] -0.7770746194 -1.4897658      0.7571158  5.447171e-01 -1.8889088
##   [3128,] -0.2518258893 -0.3787226      0.7571158 -1.498403e-01  0.5294021
##   [3129,]  0.9811006170  1.0100814     -1.3207918 -5.560909e-01  0.5294021
##   [3130,]  1.7940730105 -0.9342442      0.7571158  8.604715e-02  0.5294021
##   [3131,]  1.2467858721 -0.9342442      0.7571158  4.673257e-02  0.5294021
##   [3132,] -0.4085434591  0.1767990      0.7571158  7.412900e-01  0.5294021
##   [3133,]  1.0594594019  0.1767990     -1.3207918 -4.905666e-01  0.5294021
##   [3134,] -1.0831636230  1.0100814      0.7571158 -5.225555e-01  0.5294021
##   [3135,] -0.4134408832  0.1767990      0.7571158 -5.691957e-01  0.5294021
##   [3136,] -0.8823692366 -0.3787226      0.7571158  8.985483e-01  0.5294021
##   [3137,]  2.2715718560  1.0100814      0.7571158 -3.343043e-01  0.5294021
##   [3138,] -0.7880938236 -0.1009618      0.7571158  2.826200e-01  0.5294021
```

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##   [3139,]  0.4607493110 -0.9342442     -1.3207918 -4.512520e-01  0.5294021
##   [3140,] -1.5398484163  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [3141,] -0.2959027058 -1.2120050      0.7571158 -1.367354e-01 -1.8889088
##   [3142,] -1.2325350567  1.0100814      0.7571158  2.039909e-01  0.5294021
##   [3143,]  0.3554546937  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [3144,] -1.0537790786  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [3145,] -0.0914352515  0.4545598      0.7571158 -4.500143e-02  0.5294021
##   [3146,]  1.5234903313  0.7323206     -1.3207918 -4.381471e-01  0.5294021
##   [3147,] -0.9876638539 -1.2120050      0.7571158 -1.760500e-01 -1.8889088
##   [3148,]  1.1390425429 -0.3787226      0.7571158 -1.367354e-01 -1.8889088
##   [3149,] -0.2334605491  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3150,] -1.6010662170 -0.9342442      0.7571158  1.134436e+00 -1.8889088
##   [3151,]  0.5709413523 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [3152,] -1.0721444189  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [3153,] -0.8640038964 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [3154,] -0.5028188722  1.0100814      0.7571158  1.789679e+00 -1.8889088
##   [3155,]  1.8516177431 -0.3787226      0.7571158 -2.808889e-01 -1.8889088
##   [3156,]  0.1815961397 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##   [3157,]  0.0285516379  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [3158,] -0.8052348078  0.4545598      0.7571158 -2.743364e-01  0.5294021
##   [3159,]  0.3517816257  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3160,]  0.6590949853 -0.1009618      0.7571158  7.418002e-03 -1.8889088
##   [3161,] -1.5471945524 -1.2120050      0.7571158 -3.620865e-01 -1.8889088
##   [3162,] -0.8309462841  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [3163,] -1.2974259255 -0.9342442      0.7571158  2.545494e-01  0.5294021
##   [3164,]  0.5427811639  1.0100814      0.7571158 -5.273329e-02  0.5294021
##   [3165,] -1.7235018184  1.0100814      0.7571158  4.604791e-01 -1.8889088
##   [3166,]  1.1427156109 -0.1009618      0.7571158  2.052286e-02  0.5294021
##   [3167,] -0.6166839816 -1.2120050     -1.3207918 -2.022597e-01  0.5294021
##   [3168,]  0.2636279927 -0.3787226     -1.3207918 -1.760500e-01  0.5294021
##   [3169,] -0.1514286961 -1.2120050      0.7571158  1.724154e+00  0.5294021
##   [3170,]  0.2587305686  1.0100814      0.7571158 -3.333083e-01 -1.8889088
##   [3171,]  0.1950640559 -0.6564834     -1.3207918 -2.808889e-01  0.5294021
##   [3172,]  0.2232242442 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [3173,] -0.2861078577 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [3174,]  0.0322247060  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [3175,] -1.6671814418 -1.4897658     -1.3207918  1.527581e+00  0.5294021
##   [3176,]  0.3860635941  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [3177,] -0.1367364240 -1.2120050      0.7571158 -1.760500e-01  0.5294021
##   [3178,] -0.8444142002 -0.9342442      0.7571158  2.170957e-01 -1.8889088
##   [3179,] -0.8566577604 -0.9342442      0.7571158  8.604715e-02  0.5294021
##   [3180,]  2.2152514794  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [3181,] -0.8799205246 -1.4897658      0.7571158 -5.810628e-02  0.5294021
##   [3182,] -1.0770418429 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [3183,] -1.0537790786 -0.3787226      0.7571158  1.828993e+00  0.5294021
##   [3184,]  2.2421873117 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [3185,] -1.2802849413 -1.4897658      0.7571158  2.170957e-01 -1.8889088
##   [3186,] -1.6867711380 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [3187,]  0.3260701494  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [3188,] -1.7100339023 -0.9342442      0.7571158  5.381647e-01 -1.8889088
##   [3189,]  1.1402668989  1.0100814     -1.3207918 -4.381471e-01 -1.8889088
##   [3190,] -1.7945144673  1.0100814     -1.3207918 -4.119374e-01 -1.8889088
##   [3191,]  0.6823577495 -1.4897658      0.7571158  1.134436e+00  0.5294021
##   [3192,] -1.8385912838  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [3193,] -0.3669153547 -1.4897658      0.7571158  4.791929e-01 -1.8889088
##   [3194,]  0.6750116135  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [3195,]  0.2452626525 -1.2120050     -1.3207918  7.418002e-03  0.5294021
##   [3196,] -1.2055992244 -1.4897658     -1.3207918  2.826200e-01  0.5294021
##   [3197,] -2.0504048742  0.1767990      0.7571158  3.481443e-01  0.5294021
##   [3198,] -0.3754858468 -0.3787226      0.7571158 -3.857277e-01  0.5294021
##   [3199,] -0.8835935927 -0.9342442     -1.3207918 -3.726229e-01 -1.8889088
##   [3200,] -0.1159223717  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [3201,] -1.5606624685 -0.3787226      0.7571158 -5.167763e-01  0.5294021
##   [3202,]  1.1304720508 -0.6564834     -1.3207918 -5.429860e-01  0.5294021
##   [3203,] -0.4917996681  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [3204,] -0.6644338661  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [3205,] -0.5640366729  0.4545598      0.7571158 -6.740346e-01  0.5294021
##   [3206,] -0.2334605491  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [3207,] -0.3375308103 -0.6564834      0.7571158 -7.121114e-02  0.5294021
##   [3208,] -0.7660554153 -0.1009618      0.7571158  1.331009e+00  0.5294021
##   [3209,] -0.4293575114 -0.9342442      0.7571158  6.757657e-01  0.5294021
##   [3210,]  0.2526087885  1.0100814      0.7571158 -1.076951e-01 -1.8889088
##   [3211,]  0.8684598637  1.0100814     -1.3207918 -4.774617e-01  0.5294021
##   [3212,] -0.5652610290 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [3213,] -0.3216141821 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [3214,]  1.2565807202  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3215,]  2.3793151853  1.0100814      0.7571158 -1.773605e-01  0.5294021
##   [3216,] -1.9806165814 -1.4897658      0.7571158  9.378629e-01 -1.8889088
##   [3217,] -0.7868694675 -0.3787226     -1.3207918  1.527581e+00  0.5294021
##   [3218,]  2.3560524210 -0.6564834     -1.3207918 -7.002443e-01  0.5294021
##   [3219,] -0.2114221408  1.0100814      0.7571158  3.088297e-01  0.5294021
##   [3220,] -1.8116554515  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [3221,] -1.3917013386 -1.2120050     -1.3207918  3.219346e-01  0.5294021
##   [3222,] -0.7378952270 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [3223,]  0.4644223790  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [3224,]  0.5758387763  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [3225,] -0.1183710838 -0.6564834      0.7571158 -1.498403e-01  0.5294021
##   [3226,]  0.6627680533 -0.9342442      0.7571158 -3.202034e-01  0.5294021
##   [3227,]  0.8133638431  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##   [3228,] -0.9754202937  1.0100814      0.7571158  1.396533e+00  0.5294021
##   [3229,] -0.2677425175  0.4545598     -1.3207918  1.319141e-01  0.5294021
##   [3230,]  0.1191539830 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [3231,] -0.7501387871 -0.6564834     -1.3207918  1.122569e-01 -1.8889088
##   [3232,] -1.6035149290  0.4545598     -1.3207918  5.447171e-01 -1.8889088
##   [3233,] -1.2668170251  1.0100814     -1.3207918  2.939819e-01  0.5294021
##   [3234,]  1.1549591710 -0.9342442     -1.3207918 -2.698225e-02  0.5294021
##   [3235,] -1.6255533373 -0.1009618     -1.3207918  2.170957e-01  0.5294021
##   [3236,] -1.6390212534  1.0100814      0.7571158  2.052286e-02  0.5294021
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##   [3237,] -0.5236329245 -0.1009618     -1.3207918  2.564103e-01  0.5294021
##   [3238,] -0.5101650083 -0.3787226     -1.3207918 -5.036714e-01  0.5294021
##   [3239,] -1.1958043763  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [3240,] -2.1752891877  1.0100814     -1.3207918  3.166875e+01  0.5294021
##   [3241,]  1.1990359876  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [3242,] -0.6068891334  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [3243,]  0.1228270510 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [3244,]  1.8344767589 -0.3787226      0.7571158 -4.250423e-01  0.5294021
##   [3245,] -0.2689668735  0.7323206      0.7571158  3.219346e-01  0.5294021
##   [3246,] -1.1431570677  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [3247,]  1.3728945416  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [3248,] -0.6411711018  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [3249,] -0.8591064724  0.4545598     -1.3207918 -3.726229e-01  0.5294021
##   [3250,] -0.8762474566  1.0100814     -1.3207918  1.878981e-01  0.5294021
##   [3251,] -1.6280020493 -0.6564834     -1.3207918  1.253617e-01  0.5294021
##   [3252,]  0.2513844325 -1.2120050      0.7571158 -5.691957e-01  0.5294021
##   [3253,] -1.0194971102  1.0100814      0.7571158  3.219346e-01  0.5294021
##   [3254,]  0.0322247060 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [3255,] -0.2261144130 -0.9342442     -1.3207918  1.396533e+00  0.5294021
##   [3256,] -1.1284647955  1.0100814      0.7571158  4.556041e-01 -1.8889088
##   [3257,] -0.7697284833 -1.2120050      0.7571158  4.791929e-01  0.5294021
##   [3258,]  0.6909282416  1.0100814     -1.3207918 -5.920375e-01  0.5294021
##   [3259,]  0.3848392381  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [3260,]  0.5195183997  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3261,] -1.5863739448 -0.1009618      0.7571158  8.723386e-01  0.5294021
##   [3262,] -0.0963326755 -0.9342442      0.7571158  2.170957e-01  0.5294021
##   [3263,] -0.1967298687  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [3264,]  0.5721657083 -0.9342442     -1.3207918 -2.022597e-01  0.5294021
##   [3265,] -0.5505687568  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [3266,] -1.5447458404 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [3267,] -0.9080807129  1.0100814     -1.3207918 -1.367354e-01  0.5294021
##   [3268,]  0.6480757811  1.0100814      0.7571158 -1.236306e-01 -1.8889088
##   [3269,] -0.8211514359  1.0100814      0.7571158 -4.643569e-01 -1.8889088
##   [3270,]  1.3790163216  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [3271,]  0.8439727434 -1.4897658      0.7571158  9.915200e-02 -1.8889088
##   [3272,] -0.4024216791  1.0100814      0.7571158  1.068911e+00 -1.8889088
##   [3273,] -1.5031177359 -0.9342442      0.7571158  3.362261e+00  0.5294021
##   [3274,]  0.6786846815  1.0100814     -1.3207918  4.791929e-01 -1.8889088
##   [3275,] -1.4957715998 -0.6564834      0.7571158 -1.879171e-02 -1.8889088
##   [3276,] -0.6117865575  1.0100814      0.7571158  3.874589e-01  0.5294021
##   [3277,] -0.4048703911  1.0100814     -1.3207918 -1.879171e-02  0.5294021
##   [3278,]  0.2024101920  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [3279,]  0.4754415831 -1.4897658     -1.3207918 -2.546791e-01  0.5294021
##   [3280,] -0.4660881918 -0.6564834      0.7571158 -4.643569e-01  0.5294021
##   [3281,] -0.8909397287 -0.6564834     -1.3207918  7.294229e-02  0.5294021
##   [3282,] -1.5459701964  1.0100814     -1.3207918 -2.546791e-01  0.5294021
##   [3283,]  0.8684598637 -0.3787226      0.7571158  7.674997e-01  0.5294021
##   [3284,]  0.4595249550  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [3285,]  0.9774275490 -0.9342442      0.7571158 -2.808889e-01  0.5294021
##   [3286,] -0.1000057436  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3287,]  0.6664411214  1.0100814     -1.3207918  1.199960e+00 -1.8889088
##   [3288,] -0.3424282344 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##   [3289,] -1.0439842305  0.1767990      0.7571158  5.316123e-01 -1.8889088
##   [3290,] -0.7170811747 -0.1009618      0.7571158  1.265484e+00  0.5294021
##   [3291,]  0.1485385273 -1.4897658      0.7571158 -5.429860e-01  0.5294021
##   [3292,] -0.6240301176 -0.9342442     -1.3207918 -1.105257e-01 -1.8889088
##   [3293,] -1.4382268671  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [3294,]  0.4583005989  0.7323206      0.7571158  4.289357e-01 -1.8889088
##   [3295,] -0.3105949780 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [3296,]  0.6125694567 -0.9342442      0.7571158 -5.036714e-01  0.5294021
##   [3297,]  0.7019474458 -0.3787226     -1.3207918  7.418002e-03  0.5294021
##   [3298,] -1.6377968974 -1.2120050      0.7571158  5.447171e-01  0.5294021
##   [3299,]  0.5121722636  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [3300,] -0.0657237752 -1.2120050      0.7571158  8.723386e-01  0.5294021
##   [3301,]  0.5721657083 -1.2120050     -1.3207918 -6.347200e-01  0.5294021
##   [3302,] -1.2557978210 -0.9342442      0.7571158 -5.560909e-01  0.5294021
##   [3303,]  0.7680626705  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [3304,]  2.4944046506 -1.4897658      0.7571158 -9.618312e-03  0.5294021
##   [3305,] -0.3326333863  1.0100814     -1.3207918 -3.110300e-01  0.5294021
##   [3306,]  0.5782874883  1.0100814      0.7571158  1.656376e+00  0.5294021
##   [3307,]  1.0361966377 -1.4897658      0.7571158  2.826200e-01 -1.8889088
##   [3308,]  0.3346406415  1.0100814     -1.3207918 -8.908413e-01  0.5294021
##   [3309,] -0.6093378455  1.0100814      0.7571158 -9.742085e-02 -1.8889088
##   [3310,] -0.2848835017  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [3311,] -1.7908413992  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [3312,] -1.6537135256  0.1767990      0.7571158  1.855203e+00  0.5294021
##   [3313,] -0.9019589329 -0.3787226      0.7571158  8.604715e-02  0.5294021
##   [3314,]  0.4301404106  1.0100814      0.7571158 -3.189657e-02 -1.8889088
##   [3315,] -0.6717800022  1.0100814     -1.3207918 -4.381471e-01 -1.8889088
##   [3316,]  0.5501273000 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [3317,] -0.5848507252  0.1767990      0.7571158  8.723386e-01  0.5294021
##   [3318,]  0.6676654774  0.4545598      0.7571158  4.791929e-01  0.5294021
##   [3319,] -1.1517275598  1.0100814     -1.3207918 -2.677840e-01 -1.8889088
##   [3320,] -0.7599336352  0.4545598      0.7571158 -4.643569e-01  0.5294021
##   [3321,] -0.3461013024 -0.1009618      0.7571158  8.604715e-02  0.5294021
##   [3322,]  0.7692870266  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [3323,]  0.7839792987  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [3324,] -0.0767429793  0.4545598      0.7571158 -5.036714e-01  0.5294021
##   [3325,] -0.3424282344  0.4545598      0.7571158  3.481443e-01  0.5294021
##   [3326,]  0.1216026950 -0.6564834      0.7571158  1.515714e-01  0.5294021
##   [3327,] -1.3072207736 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [3328,] -1.1994774443  0.7323206     -1.3207918  2.052286e-02  0.5294021
##   [3329,] -1.1137725233  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [3330,] -0.5566905369 -1.4897658     -1.3207918 -3.634495e-01  0.5294021
##   [3331,] -1.7075851902 -0.6564834      0.7571158  5.447171e-01  0.5294021
##   [3332,] -0.5615879609  1.0100814      0.7571158 -1.013523e-01  0.5294021
##   [3333,] -0.5064919403  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [3334,] -0.8101322318  0.1767990      0.7571158 -4.500143e-02  0.5294021
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##   [3335,] -0.5224085685 -1.2120050     -1.3207918 -5.167763e-01  0.5294021
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##   [3337,]  1.6177657444  1.0100814     -1.3207918  7.418002e-03  0.5294021
##   [3338,] -0.1661209683  0.7323206      0.7571158 -2.153646e-01  0.5294021
##   [3339,] -0.8750231006  0.1767990     -1.3207918 -1.498403e-01 -1.8889088
##   [3340,] -1.1198943034  1.0100814     -1.3207918 -2.415743e-01 -1.8889088
##   [3341,] -1.4235345949  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [3342,] -0.5334277726 -0.6564834      0.7571158  3.743540e-01 -1.8889088
##   [3343,] -0.1012300996 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [3344,] -0.5885237932  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3345,]  0.4485057508  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [3346,]  0.1044617108  0.1767990      0.7571158  7.189390e-02 -1.8889088
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##   [3348,] -1.1945800203  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [3349,] -0.1967298687 -0.9342442      0.7571158  4.529831e-01  0.5294021
##   [3350,]  0.3126022332  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [3351,] -0.2469284653 -0.6564834      0.7571158  4.791929e-01  0.5294021
##   [3352,] -1.0194971102 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [3353,] -1.1321378636  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [3354,] -1.1113238113 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [3355,]  0.1779230717 -0.9342442      0.7571158 -2.415743e-01 -1.8889088
##   [3356,] -1.7602324989  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [3357,] -0.1293902879 -0.6564834     -1.3207918  1.527581e+00 -1.8889088
##   [3358,] -1.1835608162 -0.1009618      0.7571158 -5.364336e-01 -1.8889088
##   [3359,]  0.7619408905  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [3360,]  0.0824233026  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [3361,]  0.1411923913  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [3362,] -0.6925940544 -0.6564834      0.7571158  1.122569e-01  0.5294021
##   [3363,]  0.1387436792  0.4545598     -1.3207918  3.481443e-01  0.5294021
##   [3364,]  1.2578050762  0.4545598     -1.3207918  1.745836e-01  0.5294021
##   [3365,] -0.1526530522 -0.6564834     -1.3207918  7.418002e-03 -1.8889088
##   [3366,]  1.4953301430  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [3367,] -1.3941500506  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [3368,]  0.6554219172  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [3369,] -0.6497415939 -1.4897658     -1.3207918 -2.153646e-01  0.5294021
##   [3370,] -1.5435214843  1.0100814      0.7571158  1.173750e+00  0.5294021
##   [3371,] -1.6512648136  1.0100814     -1.3207918  5.447171e-01  0.5294021
##   [3372,] -0.8162540119  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [3373,] -0.4685369038 -1.4897658      0.7571158  3.921039e-02  0.5294021
##   [3374,] -0.7831963995 -0.6564834      0.7571158  5.983743e-02 -1.8889088
##   [3375,]  1.3679971175  1.0100814     -1.3207918 -2.022597e-01  0.5294021
##   [3376,] -0.5003701602 -1.4897658     -1.3207918 -9.742085e-02 -1.8889088
##   [3377,] -0.0008329064 -0.9342442      0.7571158 -2.284694e-01  0.5294021
##   [3378,] -2.3295580455 -1.4897658      0.7571158  1.855203e+00  0.5294021
##   [3379,] -1.3157912657 -1.2120050     -1.3207918  6.757657e-01 -1.8889088
##   [3380,]  0.0860963706  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [3381,]  0.3921853742  1.0100814      0.7571158 -5.298811e-01 -1.8889088
##   [3382,] -1.6414699655  0.7323206      0.7571158  1.134436e+00  0.5294021
##   [3383,] -0.3069219100 -1.2120050      0.7571158  4.922977e-01  0.5294021
##   [3384,] -0.7587092792  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [3385,]  1.3006575367  1.0100814      0.7571158  6.364511e-01  0.5294021
##   [3386,]  0.2721984848 -1.4897658      0.7571158 -7.526637e-01  0.5294021
##   [3387,] -0.5872994372 -0.9342442     -1.3207918 -2.416791e-01  0.5294021
##   [3388,] -0.9925612779 -0.1009618     -1.3207918  2.170957e-01  0.5294021
##   [3389,] -0.3338577423  1.0100814     -1.3207918  6.102414e-01  0.5294021
##   [3390,] -0.2248900570 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
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##   [3392,]  0.6150181688 -0.1009618      0.7571158 -3.726229e-01  0.5294021
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##   [3394,]  0.9847736851  0.7323206     -1.3207918 -4.381471e-01  0.5294021
##   [3395,] -1.1921313083 -0.1009618      0.7571158  8.556980e-01  0.5294021
##   [3396,] -1.2227402086 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [3397,]  0.0052888737 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [3398,] -1.3047720616 -1.2120050      0.7571158  1.265484e+00  0.5294021
##   [3399,] -0.3265116062 -1.2120050      0.7571158 -1.761024e-01  0.5294021
##   [3400,] -1.4639383434 -0.6564834     -1.3207918 -3.726229e-01 -1.8889088
##   [3401,] -0.9399139693 -1.2120050     -1.3207918 -2.153646e-01 -1.8889088
##   [3402,]  0.4889094993  1.0100814     -1.3207918 -1.879171e-02  0.5294021
##   [3403,]  0.0848720146 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [3404,]  0.7484729743 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [3405,]  1.2896383326 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [3406,] -0.0559289270  0.1767990     -1.3207918  4.791929e-01 -1.8889088
##   [3407,] -1.6022905730 -0.1009618     -1.3207918 -3.726229e-01  0.5294021
##   [3408,] -0.1673453243  0.1767990      0.7571158  6.102414e-01 -1.8889088
##   [3409,] -0.2518258893  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [3410,]  1.3569779134  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [3411,] -0.7893181796 -1.4897658      0.7571158  6.495560e-01  0.5294021
##   [3412,] -0.6901453424 -1.4897658      0.7571158  6.495560e-01  0.5294021
##   [3413,] -0.2138708529  1.0100814     -1.3207918  7.418002e-03  0.5294021
##   [3414,] -0.1759158164  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [3415,]  0.9578378527 -1.2120050      0.7571158  9.915200e-02 -1.8889088
##   [3416,] -0.4207870193 -1.4897658     -1.3207918 -7.002443e-01 -1.8889088
##   [3417,]  0.3383137095  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [3418,] -1.6537135256 -1.2120050     -1.3207918 -5.954054e-01  0.5294021
##   [3419,] -0.2065247168  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [3420,] -0.4624151238  0.1767990      0.7571158  5.983743e-02  0.5294021
##   [3421,]  0.0824233026 -1.4897658      0.7571158  5.447171e-01  0.5294021
##   [3422,] -0.0657237752  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [3423,]  0.5415568079 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [3424,] -0.9631767336 -1.4897658     -1.3207918  2.826200e-01 -1.8889088
##   [3425,] -0.2457041092 -0.9342442      0.7571158 -5.810628e-02  0.5294021
##   [3426,] -0.0853134714  1.0100814      0.7571158 -1.943968e-01  0.5294021
##   [3427,] -0.0363392308 -0.3787226      0.7571158 -3.070986e-01 -1.8889088
##   [3428,]  0.7141910059  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [3429,] -0.8284975720  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [3430,]  0.2317947363  1.0100814     -1.3207918 -5.560909e-01 -1.8889088
##   [3431,] -1.1860095282 -0.3787226      0.7571158 -2.808889e-01 -1.8889088
##   [3432,] -0.5101650083 -0.6564834     -1.3207918  4.791929e-01  0.5294021
```

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##   [3433,]  0.2232242442  0.1767990      0.7571158 -1.760500e-01  0.5294021
##   [3434,]  2.0977133020 -0.6564834      0.7571158  5.447171e-01  0.5294021
##   [3435,] -0.3326333863 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [3436,] -1.0745931309 -1.2120050      0.7571158 -2.808889e-01  0.5294021
##   [3437,] -0.4758830399  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [3438,]  0.5158453316  1.0100814      0.7571158  3.362772e-02 -1.8889088
##   [3439,] -1.6243289813 -0.6564834      0.7571158  3.062087e-01 -1.8889088
##   [3440,] -1.0268432463  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [3441,] -1.5851495888  1.0100814      0.7571158 -3.136510e-01  0.5294021
##   [3442,] -1.0427598745  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [3443,] -1.4908741757 -1.4897658     -1.3207918 -3.857277e-01  0.5294021
##   [3444,]  0.4019802223  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [3445,]  0.2489357205  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [3446,] -0.4281331554 -0.1009618      0.7571158  1.619315e+00 -1.8889088
##   [3447,] -0.3816076268  1.0100814      0.7571158  1.199960e+00 -1.8889088
##   [3448,]  1.5565479437  0.4545598      0.7571158 -3.857277e-01  0.5294021
##   [3449,]  0.6713385454  0.4545598      0.7571158 -5.298811e-01  0.5294021
##   [3450,]  1.5969516922 -0.9342442     -1.3207918 -7.133491e-01  0.5294021
##   [3451,]  1.1439399669 -0.3787226      0.7571158 -3.595180e-01  0.5294021
##   [3452,] -0.6374980338  0.7323206      0.7571158  2.182824e+00 -1.8889088
##   [3453,]  1.6410285087  1.0100814     -1.3207918 -4.500143e-02 -1.8889088
##   [3454,]  0.5929797605 -0.9342442      0.7571158  4.266686e-01 -1.8889088
##   [3455,] -0.2616207374  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [3456,]  0.0444682661  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [3457,] -0.0387879428 -1.4897658      0.7571158  3.612491e-01 -1.8889088
##   [3458,] -0.3999729670 -0.9342442     -1.3207918  4.791929e-01  0.5294021
##   [3459,] -0.7036132586 -0.1009618      0.7571158  5.473381e-01 -1.8889088
##   [3460,]  1.1990359876  0.4545598     -1.3207918  2.170957e-01  0.5294021
##   [3461,]  0.2562818566  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [3462,] -1.1211186594  1.0100814      0.7571158  3.493310e+00  0.5294021
##   [3463,] -0.8346193521  0.1767990      0.7571158 -1.105257e-01  0.5294021
##   [3464,]  0.1950640559 -1.4897658     -1.3207918 -5.036691e-01  0.5294021
##   [3465,] -1.0647982828 -1.2120050     -1.3207918  1.068911e+00  0.5294021
##   [3466,] -0.0081790425 -1.4897658      0.7571158 -4.697036e-01  0.5294021
##   [3467,] -1.4602652754 -0.9342442      0.7571158  8.068143e-01  0.5294021
##   [3468,]  1.0472158418  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [3469,]  0.0983399308  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [3470,] -0.8199270799  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [3471,] -0.2310118371 -1.4897658     -1.3207918 -6.334823e-02  0.5294021
##   [3472,]  1.2039334116  0.7323206     -1.3207918 -2.677840e-01  0.5294021
##   [3473,]  0.9504917167 -0.3787226     -1.3207918 -1.498403e-01  0.5294021
##   [3474,]  0.6627680533 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [3475,]  1.2174013278  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [3476,] -0.2652938055 -1.4897658      0.7571158  2.826200e-01 -1.8889088
##   [3477,] -1.9242962048  1.0100814     -1.3207918  8.723386e-01  0.5294021
##   [3478,] -1.5459701964 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [3479,] -0.8444142002  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [3480,]  0.2366921604  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [3481,]  0.1669038676  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [3482,] -2.2095711561 -0.3787226      0.7571158  4.136686e-01  0.5294021
##   [3483,]  0.5231914677  1.0100814      0.7571158  4.660880e-01  0.5294021
##   [3484,] -0.1942811566  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [3485,] -1.3745603544  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [3486,] -1.9047065085  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [3487,] -0.3522230825 -0.1009618      0.7571158  3.481443e-01  0.5294021
##   [3488,] -0.7587092792 -1.2120050     -1.3207918 -7.002443e-01  0.5294021
##   [3489,]  1.1121067105  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3490,] -0.9166512050  1.0100814     -1.3207918 -2.415743e-01 -1.8889088
##   [3491,]  0.4595249550  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [3492,]  2.0658800456  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [3493,]  1.2602537883 -0.9342442     -1.3207918 -4.905666e-01  0.5294021
##   [3494,]  2.4331868499  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [3495,]  1.6667399850 -0.1009618      0.7571158 -1.236306e-01  0.5294021
##   [3496,] -0.8762474566 -0.9342442      0.7571158 -6.845185e-01  0.5294021
##   [3497,] -1.6928929181 -1.4897658     -1.3207918 -6.300022e-01  0.5294021
##   [3498,]  2.3070781804  0.7323206      0.7571158 -8.889542e-01  0.5294021
##   [3499,] -0.8713500325 -0.9342442     -1.3207918 -7.002443e-01  0.5294021
##   [3500,] -0.9839907858 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [3501,]  0.7901010788 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [3502,] -1.3721116423 -1.4897658      0.7571158  1.462057e+00  0.5294021
##   [3503,] -1.1737659680 -1.4897658     -1.3207918 -6.347200e-01  0.5294021
##   [3504,]  0.1032373548  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [3505,]  0.5280888918  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3506,]  0.4154481384  1.0100814      0.7571158 -5.695626e-01  0.5294021
##   [3507,] -0.0216469586 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [3508,] -0.2897809258 -0.6564834      0.7571158  1.920727e+00 -1.8889088
##   [3509,] -0.6570877300 -0.6564834      0.7571158 -5.036714e-01  0.5294021
##   [3510,]  0.3040317411  0.1767990      0.7571158  2.170957e-01  0.5294021
##   [3511,]  1.7120411575 -1.2120050      0.7571158 -5.429860e-01  0.5294021
##   [3512,] -0.3412038784  1.0100814     -1.3207918  1.515714e-01  0.5294021
##   [3513,]  0.9186584603  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [3514,]  0.7484729743 -0.9342442     -1.3207918 -6.609297e-01  0.5294021
##   [3515,] -0.3669153547 -1.2120050      0.7571158 -6.609297e-01  0.5294021
##   [3516,]  0.2599549246 -1.4897658      0.7571158  1.239275e+00 -1.8889088
##   [3517,] -0.6779017823  0.7323206      0.7571158 -6.163732e-01  0.5294021
##   [3518,]  2.2642257199 -0.1009618      0.7571158  7.150803e-01  0.5294021
##   [3519,] -0.1355120680 -0.3787226      0.7571158  8.604715e-02  0.5294021
##   [3520,] -1.4259833070  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [3521,] -1.6598353057  1.0100814     -1.3207918  3.645254e-01 -1.8889088
##   [3522,] -0.9668498016 -0.9342442     -1.3207918  1.501372e+00 -1.8889088
##   [3523,]  0.6652167653  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [3524,]  0.1277244751  1.0100814      0.7571158 -3.092609e-01  0.5294021
##   [3525,] -1.6047392850  1.0100814     -1.3207918  4.791929e-01 -1.8889088
##   [3526,] -0.4011973231 -0.1009618     -1.3207918 -6.347200e-01 -1.8889088
##   [3527,] -1.2166184285 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [3528,] -0.1404094920  0.1767990     -1.3207918  7.412900e-01  0.5294021
##   [3529,]  1.1794462913  0.1767990      0.7571158 -2.022597e-01 -1.8889088
##   [3530,] -1.1958043763 -1.4897658     -1.3207918  4.791929e-01 -1.8889088
```

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##   [3531,] -0.2885565697 -1.4897658      0.7571158 -3.726229e-01 -1.8889088
##   [3532,]  2.3180973846 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [3533,]  0.4411596147 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [3534,] -0.4146652392  1.0100814      0.7571158 -4.879456e-01  0.5294021
##   [3535,] -0.7991130277 -1.2120050      0.7571158 -1.498403e-01 -1.8889088
##   [3536,] -0.1342877120  1.0100814      0.7571158  2.957249e-01  0.5294021
##   [3537,] -0.3999729670 -0.6564834      0.7571158  2.695151e-01  0.5294021
##   [3538,]  0.9260045964 -1.4897658     -1.3207918 -4.577520e-01 -1.8889088
##   [3539,] -1.3280348258 -0.1009618      0.7571158  8.723386e-01  0.5294021
##   [3540,]  0.8978444081  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [3541,] -0.3620179306 -0.9342442      0.7571158  1.908860e-01  0.5294021
##   [3542,]  0.1093591349  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [3543,]  0.6921525977  0.7323206      0.7571158  8.068143e-01  0.5294021
##   [3544,]  0.1571090194  0.4545598      0.7571158 -3.070986e-01 -1.8889088
##   [3545,] -1.3194643337  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [3546,] -0.9350165453 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [3547,] -1.2484516849  0.1767990     -1.3207918  4.791929e-01  0.5294021
##   [3548,] -1.1235673715  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [3549,] -0.8542090483 -0.3787226      0.7571158  1.646763e-01  0.5294021
##   [3550,]  2.2079053433 -0.9342442     -1.3207918 -2.022597e-01  0.5294021
##   [3551,] -1.2337594127 -0.1009618      0.7571158  2.433054e-01  0.5294021
##   [3552,] -0.5958699293  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3553,] -0.5322034166 -1.2120050      0.7571158 -2.939937e-01 -1.8889088
##   [3554,] -1.5753547407  1.0100814      0.7571158  5.538905e-01  0.5294021
##   [3555,] -0.4746586839  1.0100814      0.7571158 -3.398607e-01  0.5294021
##   [3556,] -1.2080479364 -0.9342442      0.7571158 -1.367354e-01  0.5294021
##   [3557,]  0.2905638250 -1.2120050     -1.3207918  1.789679e+00  0.5294021
##   [3558,] -0.4122165272  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [3559,]  1.2810678405  1.0100814     -1.3207918 -1.334592e-01  0.5294021
##   [3560,]  0.2244486002  1.0100814      0.7571158  2.695151e-01  0.5294021
##   [3561,] -0.8529846923 -0.6564834      0.7571158  2.182824e+00 -1.8889088
##   [3562,] -0.6142352695  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [3563,] -1.1823364601 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [3564,] -0.1330633559 -0.9342442     -1.3207918 -3.595180e-01  0.5294021
##   [3565,]  0.1583333755  0.1767990      0.7571158  2.564103e-01  0.5294021
##   [3566,] -1.0709200628 -0.3787226      0.7571158 -9.742085e-02  0.5294021
##   [3567,]  0.4350378347 -0.3787226      0.7571158  2.433054e-01 -1.8889088
##   [3568,] -0.7611579912 -0.3787226      0.7571158  2.957249e-01 -1.8889088
##   [3569,] -1.5520919764 -0.3787226      0.7571158 -1.105257e-01  0.5294021
##   [3570,]  1.6802079011 -0.3787226      0.7571158  1.253617e-01  0.5294021
##   [3571,] -0.4697612599 -1.2120050      0.7571158  2.564103e-01 -1.8889088
##   [3572,] -0.3852806949  1.0100814      0.7571158 -4.038124e-01  0.5294021
##   [3573,] -1.4406755791  1.0100814     -1.3207918  8.723386e-01 -1.8889088
##   [3574,] -0.5517931128  1.0100814     -1.3207918 -6.049196e-01  0.5294021
##   [3575,] -0.1624479003  1.0100814      0.7571158  1.331009e+00  0.5294021
##   [3576,]  1.3814650337  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [3577,] -1.4161884589 -1.2120050      0.7571158  7.806046e-01  0.5294021
##   [3578,] -0.9521575295 -0.9342442      0.7571158 -3.988326e-01  0.5294021
##   [3579,] -1.4418999352 -0.6564834      0.7571158  6.757657e-01 -1.8889088
##   [3580,] -2.1397828633 -1.2120050     -1.3207918 -2.808889e-01  0.5294021
##   [3581,]  0.6860308176  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [3582,] -1.2680413811 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [3583,]  1.5847081320 -0.6564834      0.7571158  5.447171e-01  0.5294021
##   [3584,] -2.0332638900  0.4545598      0.7571158  9.706250e-01  0.5294021
##   [3585,] -2.0601997223 -1.4897658      0.7571158  1.908860e-01 -1.8889088
##   [3586,]  0.2844420449  1.0100814      0.7571158  5.660256e-01  0.5294021
##   [3587,]  0.1216026950 -1.2120050      0.7571158  8.655738e-04  0.5294021
##   [3588,]  0.4950312794  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [3589,]  0.6480757811 -0.1009618     -1.3207918 -7.645308e-02  0.5294021
##   [3590,] -0.6460685259 -1.4897658      0.7571158  2.170957e-01 -1.8889088
##   [3591,]  0.9823249730  1.0100814     -1.3207918  1.515714e-01  0.5294021
##   [3592,] -0.5958699293 -1.2120050      0.7571158  2.052286e-02 -1.8889088
##   [3593,]  1.6716374091 -0.1009618     -1.3207918 -3.757942e-01  0.5294021
##   [3594,] -0.6595364421  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [3595,] -1.2227402086  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3596,] -0.6326006097  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [3597,]  0.1889422758  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [3598,] -0.3718127787  1.0100814     -1.3207918  4.398783e-01  0.5294021
##   [3599,] -1.8557322680 -0.1009618     -1.3207918  3.481443e-01  0.5294021
##   [3600,] -0.9178755611  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [3601,]  0.2477113645 -0.3787226     -1.3207918 -3.070986e-01 -1.8889088
##   [3602,]  0.0909937947 -1.2120050      0.7571158 -1.105257e-01 -1.8889088
##   [3603,] -0.7758502634 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [3604,]  0.5929797605  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [3605,]  2.4784880224 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [3606,] -1.0574521467  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [3607,]  0.1558846634  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [3608,] -1.9022577965 -0.3787226     -1.3207918 -7.243703e-01  0.5294021
##   [3609,] -0.6277031857  0.7323206      0.7571158 -3.721126e-03 -1.8889088
##   [3610,] -1.5116882280  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [3611,] -1.2790605853 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [3612,] -1.3941500506  1.0100814      0.7571158  2.302006e-01  0.5294021
##   [3613,] -0.6950427665  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [3614,] -1.7516620068  1.0100814     -1.3207918 -4.250423e-01  0.5294021
##   [3615,]  0.0873207266 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [3616,] -0.1110249477  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [3617,] -1.3329322499 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [3618,]  0.8133638431 -0.6564834      0.7571158  7.818423e-02 -1.8889088
##   [3619,]  0.2011858360 -0.1009618      0.7571158 -6.216151e-01 -1.8889088
##   [3620,] -1.1198943034 -0.1009618     -1.3207918  2.957249e-01 -1.8889088
##   [3621,] -0.2861078577  0.4545598      0.7571158 -3.660704e-01 -1.8889088
##   [3622,] -1.6059636411  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [3623,]  0.2391408724  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [3624,]  0.7276589221 -0.1009618      0.7571158  4.791929e-01  0.5294021
##   [3625,]  0.0848720146  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [3626,] -0.1098005917 -0.9342442     -1.3207918 -7.121114e-02 -1.8889088
##   [3627,]  0.2489357205 -0.6564834     -1.3207918  6.102414e-01  0.5294021
##   [3628,] -1.2264132766 -1.4897658      0.7571158  5.447171e-01  0.5294021
```

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##   [3629,]  0.9725301249  1.0100814     -1.3207918 -6.058893e-01 -1.8889088
##   [3630,]  1.4537020385  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [3631,]  0.3872879501  1.0100814     -1.3207918 -9.565753e-01  0.5294021
##   [3632,] -1.3965987626 -0.6564834      0.7571158  1.003387e+00  0.5294021
##   [3633,]  0.2599549246 -0.9342442      0.7571158 -4.512520e-01  0.5294021
##   [3634,] -0.9668498016 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [3635,]  2.2985076883  1.0100814     -1.3207918 -3.333083e-01  0.5294021
##   [3636,] -0.6730043582 -1.4897658      0.7571158  7.418002e-03  0.5294021
##   [3637,] -0.9399139693  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [3638,] -0.6791261383 -0.3787226      0.7571158  1.646763e-01  0.5294021
##   [3639,]  0.4974799914  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3640,]  0.0187567898 -1.2120050     -1.3207918  8.068143e-01  0.5294021
##   [3641,] -1.0794905549 -0.6564834     -1.3207918 -6.674821e-01  0.5294021
##   [3642,]  0.9921198211 -0.1009618      0.7571158  3.874589e-01  0.5294021
##   [3643,]  0.1607820875  0.1767990      0.7571158  2.052286e-02  0.5294021
##   [3644,] -1.7969631793 -0.9342442     -1.3207918 -5.741231e-01  0.5294021
##   [3645,]  0.2305703803  0.1767990      0.7571158 -3.070986e-01 -1.8889088
##   [3646,] -0.6607607981 -0.3787226      0.7571158 -1.996387e-01  0.5294021
##   [3647,]  1.3888111698 -1.4897658      0.7571158  7.418002e-03 -1.8889088
##   [3648,] -0.9117537810 -0.9342442      0.7571158 -1.760500e-01 -1.8889088
##   [3649,]  0.5819605564 -0.3787226      0.7571158  6.862496e-01 -1.8889088
##   [3650,]  1.6961245293  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3651,] -1.1639711199  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [3652,] -1.7332966665  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [3653,]  1.1672027312 -1.2120050      0.7571158  2.052286e-02 -1.8889088
##   [3654,]  1.0900683023 -0.9342442     -1.3207918 -9.742085e-02  0.5294021
##   [3655,] -0.9105294250  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [3656,] -0.5824020132  1.0100814     -1.3207918  3.481443e-01  0.5294021
##   [3657,] -0.3081462660  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3658,]  0.2477113645 -0.1009618      0.7571158 -5.691957e-01  0.5294021
##   [3659,] -1.5165856520 -0.1009618     -1.3207918  4.333259e-01  0.5294021
##   [3660,] -0.0608263511 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [3661,] -1.2484516849  1.0100814     -1.3207918 -1.204854e-01  0.5294021
##   [3662,] -1.4357781551  1.0100814     -1.3207918 -8.431600e-02  0.5294021
##   [3663,]  0.6799090375  1.0100814      0.7571158  8.080520e-02  0.5294021
##   [3664,] -1.1651954759 -0.9342442      0.7571158  2.313873e+00 -1.8889088
##   [3665,] -0.8615551844  1.0100814      0.7571158 -4.288165e-01  0.5294021
##   [3666,] -0.4354792915  0.1767990     -1.3207918 -7.002443e-01  0.5294021
##   [3667,] -0.8872666607  1.0100814      0.7571158 -2.389533e-01  0.5294021
##   [3668,] -1.3010989935  1.0100814      0.7571158  2.564103e-01 -1.8889088
##   [3669,]  1.7438744139  1.0100814      0.7571158 -6.779660e-01  0.5294021
##   [3670,] -0.5346521286  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [3671,] -0.7268760228 -0.3787226      0.7571158 -4.500143e-02 -1.8889088
##   [3672,]  1.4328879863 -0.1009618      0.7571158 -6.347200e-01  0.5294021
##   [3673,] -0.6632095101  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [3674,] -1.6769762899 -0.3787226     -1.3207918 -5.167763e-01  0.5294021
##   [3675,]  0.7239858540  1.0100814     -1.3207918 -8.575026e-01  0.5294021
##   [3676,]  2.1344439824  1.0100814     -1.3207918 -4.512520e-01 -1.8889088
##   [3677,]  0.4338134787 -1.4897658     -1.3207918 -6.347200e-01  0.5294021
##   [3678,] -1.8006362473  0.4545598      0.7571158 -1.891549e-01  0.5294021
##   [3679,]  1.0361966377  1.0100814      0.7571158  1.843336e-01  0.5294021
##   [3680,] -1.5973931490 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [3681,] -1.6549378816  1.0100814      0.7571158  5.131417e+00  0.5294021
##   [3682,] -0.1489799841 -1.4897658     -1.3207918  2.170957e-01 -1.8889088
##   [3683,]  2.0879184539  1.0100814      0.7571158  3.678016e-01 -1.8889088
##   [3684,] -0.7856451115  0.4545598     -1.3207918 -6.478249e-01  0.5294021
##   [3685,] -1.6218802692 -0.9342442      0.7571158  3.362772e-02  0.5294021
##   [3686,] -0.3522230825  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [3687,] -0.4171139512  1.0100814      0.7571158 -1.387504e-01  0.5294021
##   [3688,] -1.6353481854 -0.9342442      0.7571158 -2.415743e-01  0.5294021
##   [3689,] -1.4663870554  1.0100814     -1.3207918 -4.688387e-01 -1.8889088
##   [3690,]  0.7007230898 -0.6564834      0.7571158  2.052286e-02  0.5294021
##   [3691,]  0.6456270691  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [3692,] -1.0011317700  0.1767990     -1.3207918 -2.808889e-01 -1.8889088
##   [3693,] -0.7048376146 -1.4897658      0.7571158  7.418002e-03  0.5294021
##   [3694,]  2.5078725668 -0.9342442     -1.3207918 -4.702802e-01  0.5294021
##   [3695,]  0.7252102100  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [3696,] -0.5346521286 -1.4897658      0.7571158 -4.381471e-01 -1.8889088
##   [3697,] -0.6007673534  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [3698,] -0.5444469767 -1.2120050      0.7571158 -3.202034e-01  0.5294021
##   [3699,] -1.1639711199 -0.6564834      0.7571158 -4.500143e-02  0.5294021
##   [3700,] -0.6583120860  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [3701,] -0.8456385562 -0.9342442     -1.3207918 -4.064858e-01  0.5294021
##   [3702,] -0.4379280035 -0.3787226      0.7571158 -2.114331e-01 -1.8889088
##   [3703,]  0.3983071542 -0.6564834     -1.3207918 -1.367354e-01  0.5294021
##   [3704,] -0.5138380764 -0.3787226     -1.3207918 -5.036714e-01 -1.8889088
##   [3705,] -1.5471945524 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [3706,]  0.0714040984  1.0100814      0.7571158 -4.528246e-01  0.5294021
##   [3707,] -0.0596019951  1.0100814      0.7571158 -7.143975e-01  0.5294021
##   [3708,] -0.6374980338  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [3709,]  0.3481085577  1.0100814      0.7571158 -6.216151e-01 -1.8889088
##   [3710,]  0.0371221300  1.0100814     -1.3207918  2.170957e-01 -1.8889088
##   [3711,] -0.7917668916 -1.4897658     -1.3207918  3.743540e-01  0.5294021
##   [3712,] -1.3035477055  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [3713,] -1.4027205427  1.0100814      0.7571158  1.253617e-01 -1.8889088
##   [3714,]  0.4631980230 -0.3787226     -1.3207918 -6.347200e-01  0.5294021
##   [3715,]  0.5684926402 -1.2120050      0.7571158 -1.761024e-01 -1.8889088
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##   [3717,]  0.3762687460  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [3718,] -1.2594708890  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [3719,] -0.5064919403  1.0100814     -1.3207918  3.481443e-01  0.5294021
##   [3720,] -0.5089406523  1.0100814     -1.3207918 -6.478249e-01  0.5294021
##   [3721,]  0.0579361823  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [3722,] -2.0920329787 -1.4897658     -1.3207918  1.095121e+00 -1.8889088
##   [3723,]  0.0383464861  0.4545598      0.7571158 -4.500143e-02 -1.8889088
##   [3724,]  0.4276916986  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [3725,]  1.4414584784  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [3726,]  1.6275605925  1.0100814      0.7571158 -4.381471e-01  0.5294021
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##   [3727,] -1.4161884589 -0.6564834      0.7571158  1.199960e+00  0.5294021
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##   [3729,] -1.5018933799 -1.2120050      0.7571158  1.068911e+00 -1.8889088
##   [3730,] -1.8557322680 -1.4897658      0.7571158  3.743540e-01  0.5294021
##   [3731,] -0.7929912476 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [3732,] -0.0742942673 -1.4897658     -1.3207918 -6.139822e-02  0.5294021
##   [3733,] -1.3317078939  1.0100814     -1.3207918 -1.891549e-01  0.5294021
##   [3734,] -1.3684385743 -0.9342442     -1.3207918 -5.613328e-01  0.5294021
##   [3735,] -0.7427926510  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3736,]  0.8402996754 -0.6564834     -1.3207918 -2.415743e-01  0.5294021
##   [3737,]  1.8210088428  1.0100814      0.7571158  1.224000e-01  0.5294021
##   [3738,] -1.1064263873 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [3739,] -1.5778034527 -0.1009618     -1.3207918 -2.035702e-01 -1.8889088
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##   [3742,] -1.9953088536  0.4545598     -1.3207918  1.134436e+00  0.5294021
##   [3743,] -1.5055664479  1.0100814      0.7571158  1.011250e+00 -1.8889088
##   [3744,] -1.4639383434  1.0100814      0.7571158  1.712287e-01  0.5294021
##   [3745,]  1.1831193594  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [3746,] -0.5799533011  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [3747,] -0.1036788116  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [3748,] -1.3892526265 -1.4897658      0.7571158  4.791929e-01 -1.8889088
##   [3749,] -0.3485500144  1.0100814      0.7571158  1.632420e+00  0.5294021
##   [3750,]  0.6529732052  0.4545598      0.7571158 -3.857277e-01  0.5294021
##   [3751,]  0.4546275309 -1.2120050      0.7571158  4.136686e-01  0.5294021
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##   [3753,]  0.5991015406  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [3754,] -0.1844863085 -0.3787226      0.7571158 -1.105257e-01 -1.8889088
##   [3755,]  1.6336823726  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [3756,]  1.3471830653 -0.6564834      0.7571158 -1.879171e-02  0.5294021
##   [3757,] -0.8762474566  1.0100814      0.7571158  7.411852e-01  0.5294021
##   [3758,] -0.1416338480 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [3759,]  0.4754415831  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [3760,] -0.8174783679  0.7323206     -1.3207918 -1.105257e-01  0.5294021
##   [3761,]  0.8194856231  1.0100814      0.7571158 -3.202034e-01  0.5294021
##   [3762,] -1.4529191393  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [3763,]  0.5231914677  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [3764,]  0.7203127860  0.7323206      0.7571158 -3.070986e-01  0.5294021
##   [3765,] -0.0926596075 -1.2120050      0.7571158 -6.609297e-01  0.5294021
##   [3766,]  0.7778575187 -1.2120050      0.7571158 -3.333083e-01 -1.8889088
##   [3767,] -0.0951083195 -0.3787226      0.7571158  3.219346e-01  0.5294021
##   [3768,] -0.3424282344 -0.6564834      0.7571158 -2.415743e-01  0.5294021
##   [3769,]  1.7683615342  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [3770,] -0.4673125478 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [3771,] -2.0442830942 -0.9342442     -1.3207918  1.384666e-01  0.5294021
##   [3772,]  0.2783202648 -1.4897658      0.7571158 -1.938726e-01  0.5294021
##   [3773,] -1.1100994553 -0.6564834      0.7571158  5.840317e-01  0.5294021
##   [3774,]  0.3126022332 -1.4897658     -1.3207918 -5.429860e-01  0.5294021
##   [3775,] -1.7222774624 -0.3787226     -1.3207918 -4.381471e-01  0.5294021
##   [3776,] -0.6203570496  1.0100814      0.7571158 -4.840141e-01  0.5294021
##   [3777,] -0.0608263511  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [3778,] -1.4614896314 -0.3787226     -1.3207918  8.723386e-01  0.5294021
##   [3779,]  1.0435427737 -0.9342442     -1.3207918 -6.740346e-01  0.5294021
##   [3780,] -0.3534474385 -0.3787226      0.7571158  4.791929e-01 -1.8889088
##   [3781,] -1.3721116423  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [3782,] -1.0403111625  1.0100814     -1.3207918  1.384666e-01  0.5294021
##   [3783,]  1.1941385635 -0.3787226     -1.3207918 -4.829658e-01  0.5294021
##   [3784,] -0.7146324627 -1.2120050     -1.3207918 -1.879171e-02  0.5294021
##   [3785,] -1.4418999352  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3786,] -1.8814437443 -0.6564834      0.7571158  2.197560e-01 -1.8889088
##   [3787,] -0.0375635868  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [3788,] -1.1700929000  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [3789,] -0.6558633740 -1.4897658      0.7571158 -3.482871e-01  0.5294021
##   [3790,] -0.5371008406 -0.9342442      0.7571158  9.051007e-01 -1.8889088
##   [3791,]  0.9566134967  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [3792,] -0.6974914785 -0.9342442      0.7571158  1.253617e-01 -1.8889088
##   [3793,]  1.2565807202 -1.2120050      0.7571158 -6.020627e-01  0.5294021
##   [3794,] -0.1881593766 -0.6564834      0.7571158  7.412900e-01 -1.8889088
##   [3795,]  0.3542303377  1.0100814     -1.3207918 -2.153646e-01 -1.8889088
##   [3796,] -1.3672142183 -0.6564834      0.7571158 -3.726229e-01  0.5294021
##   [3797,] -0.5407739087  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [3798,] -0.0094033985 -0.1009618      0.7571158 -4.381471e-01  0.5294021
##   [3799,]  0.1069104229 -1.2120050      0.7571158 -6.740346e-01 -1.8889088
##   [3800,] -0.3534474385 -0.9342442     -1.3207918 -4.381471e-01 -1.8889088
##   [3801,]  1.3790163216  1.0100814      0.7571158 -8.431600e-02 -1.8889088
##   [3802,] -0.7734015514 -0.1009618     -1.3207918  8.723386e-01  0.5294021
##   [3803,] -1.3757847104 -0.1009618      0.7571158 -1.105257e-01  0.5294021
##   [3804,]  0.2685254167  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [3805,] -0.1146980157  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [3806,]  0.2158781081 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [3807,]  1.4316636303 -0.1009618      0.7571158 -1.879171e-02  0.5294021
##   [3808,] -0.4709856159 -0.1009618     -1.3207918 -2.415743e-01  0.5294021
##   [3809,] -0.7146324627 -1.2120050      0.7571158 -4.250423e-01 -1.8889088
##   [3810,]  1.9005919837  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3811,]  0.2966856051  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [3812,] -0.7868694675  1.0100814     -1.3207918 -9.742085e-02 -1.8889088
##   [3813,] -1.6549378816 -1.2120050      0.7571158  5.316123e-01  0.5294021
##   [3814,]  1.3312664371 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [3815,]  0.2379165164  1.0100814      0.7571158 -2.317325e-01  0.5294021
##   [3816,]  0.2219998882  1.0100814     -1.3207918 -2.677840e-01 -1.8889088
##   [3817,] -1.6328994734  1.0100814      0.7571158  4.673257e-02 -1.8889088
##   [3818,]  1.2222987518 -0.6564834      0.7571158 -2.546791e-01  0.5294021
##   [3819,] -1.5900470129 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [3820,]  1.1953629195 -0.9342442     -1.3207918 -5.691957e-01  0.5294021
##   [3821,] -0.4881266001 -1.2120050      0.7571158  2.733228e+00 -1.8889088
##   [3822,] -1.4712844795  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [3823,]  0.3860635941  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [3824,]  1.1549591710  1.0100814     -1.3207918 -2.415743e-01  0.5294021
```

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##   [3825,] -0.6313762537 -0.6564834      0.7571158  1.298246e+00  0.5294021
##   [3826,]  1.1782219353 -0.1009618      0.7571158 -9.118294e-02  0.5294021
##   [3827,] -1.1860095282 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##   [3828,] -1.0280676023  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [3829,]  0.0726284545  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [3830,] -0.0889865394 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [3831,] -1.3219130458 -1.2120050      0.7571158 -2.415743e-01 -1.8889088
##   [3832,]  0.6750116135  1.0100814      0.7571158 -7.395589e-01  0.5294021
##   [3833,]  0.8562163036 -0.9342442     -1.3207918  2.052286e-02 -1.8889088
##   [3834,] -0.9521575295 -1.2120050      0.7571158  2.182824e+00 -1.8889088
##   [3835,]  0.3897366621  1.0100814      0.7571158 -4.774617e-01  0.5294021
##   [3836,] -0.5040432282 -0.1009618      0.7571158 -2.808889e-01  0.5294021
##   [3837,] -1.7541107188 -1.4897658     -1.3207918  8.604715e-02 -1.8889088
##   [3838,] -0.6730043582  1.0100814      0.7571158 -1.236306e-01 -1.8889088
##   [3839,]  0.9455942926  0.4545598      0.7571158 -7.264540e-01  0.5294021
##   [3840,]  1.8589638792  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [3841,] -1.5582137565 -1.4897658     -1.3207918 -5.810628e-02  0.5294021
##   [3842,] -2.1226418791  0.4545598     -1.3207918  1.174937e+01  0.5294021
##   [3843,] -0.5248572805  1.0100814      0.7571158  3.350394e-01  0.5294021
##   [3844,]  0.6223643048 -1.2120050      0.7571158  8.604715e-02 -1.8889088
##   [3845,] -1.5961687929 -1.4897658     -1.3207918  8.604715e-02  0.5294021
##   [3846,] -0.8578821164 -0.3787226      0.7571158  1.003387e+00  0.5294021
##   [3847,] -0.9521575295  0.4545598     -1.3207918  2.170957e-01  0.5294021
##   [3848,] -1.6145341332 -1.2120050      0.7571158  2.613901e-01  0.5294021
##   [3849,]  1.8528420992 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [3850,] -0.2150952089 -1.4897658      0.7571158 -4.119374e-01  0.5294021
##   [3851,]  0.4068776463  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [3852,] -0.6326006097  0.1767990      0.7571158 -3.595180e-01  0.5294021
##   [3853,] -1.8520591999 -0.9342442     -1.3207918 -7.657686e-01 -1.8889088
##   [3854,] -0.9729715817  1.0100814      0.7571158  1.777811e-01 -1.8889088
##   [3855,] -0.2983514179 -0.1009618      0.7571158 -3.070986e-01 -1.8889088
##   [3856,] -1.3782334224  1.0100814     -1.3207918  7.294229e-02 -1.8889088
##   [3857,] -0.2199926329  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [3858,] -0.5003701602  0.4545598      0.7571158 -2.415743e-01  0.5294021
##   [3859,] -1.9585781732 -0.9342442     -1.3207918 -6.347200e-01 -1.8889088
##   [3860,] -0.0057303305  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [3861,] -1.9573538171  1.0100814      0.7571158  1.253617e-01 -1.8889088
##   [3862,] -0.2824347897  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3863,] -0.7207542428 -0.9342442     -1.3207918  4.791929e-01 -1.8889088
##   [3864,]  1.7683615342  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [3865,] -0.5615879609 -0.6564834      0.7571158  4.791929e-01 -1.8889088
##   [3866,] -0.7807476875  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [3867,] -1.0476572986 -0.6564834     -1.3207918 -5.810628e-02  0.5294021
##   [3868,] -1.0452085865 -1.2120050     -1.3207918 -3.202034e-01  0.5294021
##   [3869,]  1.1476130350  0.7323206     -1.3207918 -2.415743e-01 -1.8889088
##   [3870,] -1.5043420919 -1.2120050     -1.3207918  2.498579e-01  0.5294021
##   [3871,]  0.8207099792  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [3872,]  1.2602537883  1.0100814      0.7571158 -7.788734e-01  0.5294021
##   [3873,]  0.1411923913  0.4545598     -1.3207918 -3.857277e-01  0.5294021
##   [3874,]  0.5795118444  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [3875,]  1.2712729924 -0.1009618      0.7571158  1.961279e-01 -1.8889088
##   [3876,] -0.8872666607  1.0100814      0.7571158 -1.879171e-02 -1.8889088
##   [3877,] -0.5542418248 -1.2120050      0.7571158 -2.341962e-01  0.5294021
##   [3878,] -0.6595364421 -0.9342442      0.7571158 -3.988326e-01 -1.8889088
##   [3879,]  1.0570106899  1.0100814      0.7571158 -1.120983e-01  0.5294021
##   [3880,] -0.1098005917 -0.6564834      0.7571158  8.723386e-01  0.5294021
##   [3881,] -1.2019261564 -1.2120050     -1.3207918 -5.429860e-01  0.5294021
##   [3882,] -0.7085106826  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [3883,] -0.0596019951 -1.4897658      0.7571158  1.855203e+00  0.5294021
##   [3884,]  1.0876195903  1.0100814     -1.3207918 -8.050831e-01  0.5294021
##   [3885,] -0.7391195830 -0.9342442     -1.3207918 -1.389895e-01  0.5294021
##   [3886,]  0.5550247241 -1.4897658     -1.3207918 -5.398408e-01 -1.8889088
##   [3887,]  1.1892411394  1.0100814      0.7571158 -2.992357e-01  0.5294021
##   [3888,]  0.1362949672 -1.2120050      0.7571158  7.412900e-01 -1.8889088
##   [3889,] -1.7479889387  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [3890,] -0.4807804640 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [3891,]  0.4240186305 -1.2120050      0.7571158 -5.691957e-01  0.5294021
##   [3892,] -1.4027205427  1.0100814      0.7571158  3.874589e-01 -1.8889088
##   [3893,] -1.8177772315  1.0100814     -1.3207918 -7.121114e-02 -1.8889088
##   [3894,]  0.9480430046 -0.9342442      0.7571158  8.723386e-01  0.5294021
##   [3895,]  0.6150181688 -0.9342442      0.7571158 -1.052838e-01  0.5294021
##   [3896,]  0.1913909878  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [3897,] -0.5273059925  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [3898,] -1.8226746556  1.0100814      0.7571158  1.593106e+00  0.5294021
##   [3899,] -0.9019589329  0.1767990      0.7571158 -1.760500e-01 -1.8889088
##   [3900,] -0.7856451115  1.0100814      0.7571158 -6.687926e-01  0.5294021
##   [3901,] -0.4060947471  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [3902,]  0.6713385454  1.0100814      0.7571158 -5.495384e-01  0.5294021
##   [3903,]  0.9639596328  0.1767990      0.7571158 -2.808889e-01  0.5294021
##   [3904,] -0.6387223898  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [3905,] -0.5199598564  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [3906,] -0.7060619706 -0.1009618     -1.3207918  4.791929e-01 -1.8889088
##   [3907,]  1.0619081140  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [3908,] -1.6659570858  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [3909,] -0.2359092611 -0.3787226      0.7571158  8.959273e-01 -1.8889088
##   [3910,] -1.5655598926  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [3911,]  0.2440382964 -0.3787226     -1.3207918 -3.988326e-01 -1.8889088
##   [3912,]  0.4864607873 -0.9342442     -1.3207918 -5.691957e-01  0.5294021
##   [3913,] -0.1306146439 -1.4897658     -1.3207918 -7.012344e-02  0.5294021
##   [3914,] -0.4722099719 -0.9342442      0.7571158  3.743540e-01  0.5294021
##   [3915,] -1.6965659861  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3916,] -1.1676441880  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [3917,]  0.5084991955  1.0100814      0.7571158 -7.526637e-01  0.5294021
##   [3918,]  1.3582022694 -0.9342442      0.7571158 -6.347200e-01  0.5294021
##   [3919,] -0.5407739087  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [3920,] -0.1061275236  1.0100814     -1.3207918 -3.752438e-01 -1.8889088
##   [3921,] -0.2506015333 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [3922,] -1.1223430154  1.0100814      0.7571158 -4.512520e-01  0.5294021
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##   [3923,] -1.0109266181 -1.2120050      0.7571158  4.791929e-01 -1.8889088
##   [3924,] -0.3485500144 -0.9342442     -1.3207918  4.791929e-01  0.5294021
##   [3925,] -1.4321050870 -0.6564834      0.7571158  1.410875e-01  0.5294021
##   [3926,]  0.1399680352 -1.2120050      0.7571158 -1.760500e-01 -1.8889088
##   [3927,] -0.3999729670  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [3928,] -2.0051037017  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [3929,]  0.2477113645  1.0100814      0.7571158 -1.891549e-01 -1.8889088
##   [3930,] -0.2579476694  1.0100814     -1.3207918  6.757657e-01  0.5294021
##   [3931,]  0.3309675735 -0.3787226     -1.3207918 -5.429860e-01  0.5294021
##   [3932,]  1.7059193774  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [3933,] -0.1012300996 -0.9342442      0.7571158  1.122569e-01  0.5294021
##   [3934,]  0.5684926402 -0.6564834      0.7571158 -1.879171e-02 -1.8889088
##   [3935,] -0.5101650083  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [3936,] -0.9509331734 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##   [3937,] -0.6509659500 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [3938,] -0.5542418248  1.0100814      0.7571158  5.983743e-02  0.5294021
##   [3939,] -0.8615551844  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [3940,] -0.1710183924  1.0100814     -1.3207918 -2.415743e-01 -1.8889088
##   [3941,] -0.9460357494  1.0100814     -1.3207918  1.908860e-01  0.5294021
##   [3942,]  1.7928486545  0.7323206      0.7571158  8.604715e-02 -1.8889088
##   [3943,] -1.9524563931  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [3944,] -0.9166512050 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##   [3945,]  0.5709413523  0.1767990      0.7571158 -3.070986e-01  0.5294021
##   [3946,] -1.3194643337  1.0100814      0.7571158  3.350394e-01  0.5294021
##   [3947,]  0.5733900643 -0.6564834      0.7571158  8.604715e-02 -1.8889088
##   [3948,] -1.1211186594  1.0100814     -1.3207918  9.915200e-02  0.5294021
##   [3949,] -0.5432226207 -0.1009618     -1.3207918 -5.036714e-01  0.5294021
##   [3950,] -0.9852151418  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [3951,] -0.1269415759 -0.3787226      0.7571158 -1.760500e-01  0.5294021
##   [3952,] -0.0265443827 -0.3787226     -1.3207918 -6.740346e-01  0.5294021
##   [3953,]  0.2354678043 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [3954,]  1.2982088247  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [3955,] -0.7856451115  1.0100814      0.7571158 -1.541387e-01  0.5294021
##   [3956,] -0.7795233315 -1.4897658     -1.3207918 -6.740346e-01  0.5294021
##   [3957,]  0.2403652284 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [3958,] -1.1125481673  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [3959,] -1.3366053179 -0.3787226     -1.3207918 -4.512520e-01  0.5294021
##   [3960,] -0.6044404214 -1.4897658     -1.3207918 -2.153646e-01  0.5294021
##   [3961,] -1.0990802512  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [3962,] -0.8713500325 -0.9342442      0.7571158 -1.879171e-02 -1.8889088
##   [3963,] -1.4823036836  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [3964,]  0.0775258785  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [3965,] -0.0130764665  1.0100814     -1.3207918 -1.879171e-02  0.5294021
##   [3966,]  0.2207755322  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [3967,] -0.0938839635  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [3968,] -0.7195298868  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [3969,]  1.3863624577  1.0100814      0.7571158 -8.562648e-02  0.5294021
##   [3970,] -0.4648638358  0.7323206      0.7571158 -1.760500e-01  0.5294021
##   [3971,] -0.4269087994  1.0100814      0.7571158  5.709269e-01  0.5294021
##   [3972,]  0.6713385454  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [3973,]  0.1007886428 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [3974,] -1.3965987626  1.0100814      0.7571158  2.510446e+00  0.5294021
##   [3975,] -1.4370025111  0.4545598     -1.3207918  1.313506e-01  0.5294021
##   [3976,]  1.7867268744  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [3977,]  1.6373554407 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [3978,] -0.5640366729  1.0100814      0.7571158  1.646763e-01 -1.8889088
##   [3979,] -1.3157912657  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [3980,] -1.2068235804 -0.9342442      0.7571158  8.723386e-01  0.5294021
##   [3981,]  0.9823249730 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [3982,]  0.5305376038 -0.6564834      0.7571158  2.052286e-02  0.5294021
##   [3983,] -0.7734015514 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [3984,] -1.5594381125 -0.6564834      0.7571158 -3.726229e-01  0.5294021
##   [3985,]  1.8577395232  1.0100814      0.7571158 -8.575026e-01  0.5294021
##   [3986,] -0.0167495346  1.0100814      0.7571158 -6.229518e-01  0.5294021
##   [3987,] -0.1526530522  0.4545598      0.7571158 -1.223928e-02  0.5294021
##   [3988,]  2.2311681076  1.0100814      0.7571158 -1.891549e-01 -1.8889088
##   [3989,]  0.5574734361  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [3990,]  0.3407624216 -0.1009618      0.7571158 -4.381471e-01  0.5294021
##   [3991,] -1.2876310774  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [3992,]  0.0995642868 -0.6564834     -1.3207918 -1.879171e-02  0.5294021
##   [3993,] -0.5860750812 -1.4897658     -1.3207918 -1.072495e-01  0.5294021
##   [3994,] -0.3718127787  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [3995,] -0.9754202937 -0.1009618      0.7571158  7.412900e-01 -1.8889088
##   [3996,]  0.0775258785 -1.4897658      0.7571158  7.412900e-01 -1.8889088
##   [3997,]  0.4840120752  1.0100814     -1.3207918  2.170957e-01 -1.8889088
##   [3998,]  2.1099568621 -1.2120050      0.7571158 -4.500143e-02 -1.8889088
##   [3999,] -0.2665181615 -1.4897658     -1.3207918 -7.395589e-01  0.5294021
##   [4000,]  1.3165741649 -0.1009618      0.7571158 -3.726229e-01 -1.8889088
##   [4001,] -0.9766446497  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [4002,] -0.3105949780  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [4003,] -0.6546390180 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [4004,] -1.2484516849 -0.9342442     -1.3207918 -6.740346e-01  0.5294021
##   [4005,] -0.0828647594  0.1767990     -1.3207918 -2.415743e-01  0.5294021
##   [4006,]  0.4129994264 -1.4897658     -1.3207918 -4.500143e-02 -1.8889088
##   [4007,] -0.6411711018  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [4008,]  0.2489357205 -1.4897658      0.7571158 -5.954054e-01  0.5294021
##   [4009,]  0.0934425067 -0.6564834      0.7571158 -4.643569e-01  0.5294021
##   [4010,] -1.1578493399 -0.3787226     -1.3207918 -5.730092e-01  0.5294021
##   [4011,] -0.8578821164  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [4012,] -1.4651626994 -1.4897658      0.7571158 -2.704050e-01  0.5294021
##   [4013,]  0.2819933329 -0.3787226      0.7571158  5.054026e-01  0.5294021
##   [4014,] -1.2325350567 -1.2120050      0.7571158  1.003387e+00  0.5294021
##   [4015,] -0.9276704092  0.7323206     -1.3207918 -3.857277e-01  0.5294021
##   [4016,]  0.7215371420 -1.4897658      0.7571158 -7.121114e-02 -1.8889088
##   [4017,] -1.4076179668  1.0100814      0.7571158  6.567925e-01  0.5294021
##   [4018,]  1.8173357747 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [4019,]  2.2250463275 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [4020,]  0.3383137095  1.0100814     -1.3207918 -2.022597e-01  0.5294021
```

```
##   [4021,] -0.5921968613  1.0100814      0.7571158  2.667704e+00  0.5294021
##   [4022,]  2.3266678767  1.0100814     -1.3207918 -2.546791e-01 -1.8889088
##   [4023,] -1.3537463021 -0.1009618      0.7571158 -3.070986e-01  0.5294021
##   [4024,] -0.8970615088  1.0100814      0.7571158  1.396533e+00  0.5294021
##   [4025,]  0.8709085757  1.0100814      0.7571158  2.486522e-01  0.5294021
##   [4026,] -0.8505359803 -1.4897658      0.7571158  1.855203e+00  0.5294021
##   [4027,]  0.6370565770 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [4028,] -0.8909397287  1.0100814      0.7571158  1.384666e-01  0.5294021
##   [4029,]  0.4546275309  1.0100814      0.7571158 -3.857277e-01 -1.8889088
##   [4030,] -1.7920657552  1.0100814      0.7571158  2.051776e+00 -1.8889088
##   [4031,] -0.3056975539  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [4032,] -0.0669481312  0.7323206      0.7571158 -2.415743e-01  0.5294021
##   [4033,] -1.3059964176 -0.9342442      0.7571158 -5.810628e-02  0.5294021
##   [4034,] -0.6068891334 -1.2120050      0.7571158 -5.560909e-01  0.5294021
##   [4035,] -1.4210858829 -0.9342442      0.7571158  6.757657e-01  0.5294021
##   [4036,]  0.2244486002 -0.6564834     -1.3207918 -8.169503e-02  0.5294021
##   [4037,] -0.0400122989 -1.4897658     -1.3207918 -3.782579e-01  0.5294021
##   [4038,] -0.8872666607  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [4039,] -0.7011645465 -1.2120050      0.7571158 -4.119374e-01  0.5294021
##   [4040,]  0.3970827982  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4041,]  1.0337479256 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [4042,]  1.4010547299 -0.3787226     -1.3207918 -2.546791e-01 -1.8889088
##   [4043,] -1.2557978210  0.4545598      0.7571158 -3.070986e-01 -1.8889088
##   [4044,] -0.7991130277 -1.2120050      0.7571158 -4.420786e-01  0.5294021
##   [4045,] -0.1244928638 -0.9342442     -1.3207918 -3.202034e-01  0.5294021
##   [4046,]  1.2418884481  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [4047,] -1.5092395159  1.0100814     -1.3207918  8.604715e-02 -1.8889088
##   [4048,]  1.4096252220  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [4049,]  0.5574734361  1.0100814      0.7571158  1.593106e+00  0.5294021
##   [4050,] -0.4330305794  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [4051,] -0.6374980338 -0.1009618     -1.3207918 -5.298811e-01 -1.8889088
##   [4052,] -0.5775045891 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [4053,] -0.3742614907 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [4054,] -0.8284975720  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [4055,] -1.4223102389  0.7323206      0.7571158  4.791929e-01 -1.8889088
##   [4056,] -0.9803177178  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [4057,]  0.3370893535 -0.1009618      0.7571158 -3.726229e-01  0.5294021
##   [4058,]  1.2247474639  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [4059,] -1.0599008587  1.0100814      0.7571158  1.920727e+00  0.5294021
##   [4060,] -0.8995102208 -0.6564834     -1.3207918  4.791929e-01  0.5294021
##   [4061,] -1.5153612960 -0.6564834     -1.3207918  8.723386e-01 -1.8889088
##   [4062,] -1.2802849413  1.0100814      0.7571158  4.148553e+00  0.5294021
##   [4063,] -1.8361425717  1.0100814      0.7571158  3.219346e-01  0.5294021
##   [4064,] -1.3843552025 -0.6564834     -1.3207918 -1.760500e-01  0.5294021
##   [4065,] -0.4758830399  1.0100814      0.7571158  1.908860e-01 -1.8889088
##   [4066,]  0.1167052710  0.1767990      0.7571158 -2.808889e-01  0.5294021
##   [4067,]  0.3334162855  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [4068,] -1.6843224260 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [4069,] -0.9497088174 -0.3787226     -1.3207918 -6.740346e-01  0.5294021
##   [4070,]  0.2881151130 -0.9342442      0.7571158 -4.119374e-01  0.5294021
##   [4071,] -0.4354792915 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [4072,] -0.5371008406  1.0100814      0.7571158 -7.889380e-01  0.5294021
##   [4073,] -1.2288619887  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [4074,]  1.3826893897 -0.6564834      0.7571158 -5.954054e-01  0.5294021
##   [4075,]  2.2274950395  0.7323206      0.7571158 -6.478249e-01  0.5294021
##   [4076,] -2.1201931670 -1.4897658     -1.3207918 -6.242754e-01  0.5294021
##   [4077,]  0.0248785699  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [4078,] -0.9925612779 -0.3787226     -1.3207918 -4.119374e-01  0.5294021
##   [4079,] -1.2913041454  1.0100814      0.7571158  3.653248e-01 -1.8889088
##   [4080,]  0.6933769537  0.7323206      0.7571158 -3.595180e-01  0.5294021
##   [4081,] -0.0228713147  1.0100814      0.7571158  1.475162e+00 -1.8889088
##   [4082,]  0.1669038676 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [4083,] -1.0158240422 -1.4897658     -1.3207918 -5.691957e-01 -1.8889088
##   [4084,] -1.3035477055  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4085,]  1.2320935999  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [4086,] -0.5297547045 -0.3787226      0.7571158  1.055807e+00 -1.8889088
##   [4087,] -0.3375308103 -0.1009618      0.7571158 -4.500143e-02  0.5294021
##   [4088,] -1.5631111806 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [4089,] -0.0938839635  0.4545598      0.7571158 -4.119374e-01  0.5294021
##   [4090,]  1.3177985209 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [4091,] -0.5689340970  0.1767990      0.7571158  3.219346e-01  0.5294021
##   [4092,] -0.7880938236 -0.6564834     -1.3207918  4.791929e-01  0.5294021
##   [4093,]  1.1721001552  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [4094,] -1.1664198320  0.1767990      0.7571158 -1.105257e-01  0.5294021
##   [4095,] -0.1942811566 -1.2120050      0.7571158  6.102414e-01  0.5294021
##   [4096,] -1.0525547226 -0.3787226     -1.3207918 -3.189657e-02 -1.8889088
##   [4097,] -1.0954071831  1.0100814      0.7571158  4.003599e-02  0.5294021
##   [4098,]  0.5917554045 -0.1009618      0.7571158  2.051776e+00 -1.8889088
##   [4099,] -1.7296235985  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [4100,] -1.5839252328 -0.3787226      0.7571158  1.684840e+00  0.5294021
##   [4101,]  1.2920870446 -0.6564834      0.7571158 -1.708081e-01  0.5294021
##   [4102,] -0.5628123169 -1.4897658      0.7571158  5.447171e-01  0.5294021
##   [4103,] -1.4774062596 -0.6564834      0.7571158  1.515714e-01  0.5294021
##   [4104,] -0.4624151238 -0.9342442      0.7571158 -3.620598e-01  0.5294021
##   [4105,] -0.2224413450 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [4106,] -0.3632422866 -0.9342442      0.7571158 -1.367354e-01  0.5294021
##   [4107,]  1.4867596509 -0.6564834     -1.3207918 -5.446372e-01  0.5294021
##   [4108,] -0.0791916913  1.0100814      0.7571158 -4.841845e-01  0.5294021
##   [4109,]  1.7353039218 -1.4897658     -1.3207918 -5.483852e-01  0.5294021
##   [4110,]  0.6395052890 -0.9342442      0.7571158 -3.070986e-01 -1.8889088
##   [4111,]  0.4901338553  1.0100814      0.7571158  3.211343e-03  0.5294021
##   [4112,] -1.0476572986 -0.3787226      0.7571158  4.791929e-01  0.5294021
##   [4113,]  2.1356683384  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [4114,] -0.5689340970  0.4545598      0.7571158 -7.121114e-02  0.5294021
##   [4115,] -0.7917668916 -0.1009618     -1.3207918 -4.774617e-01  0.5294021
##   [4116,] -1.8728732522  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [4117,] -1.0256188903 -1.4897658      0.7571158 -2.808889e-01  0.5294021
##   [4118,] -0.9105294250  1.0100814      0.7571158  4.673257e-02  0.5294021
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##   [4119,]  0.2477113645 -0.1009618      0.7571158 -3.070986e-01 -1.8889088
##   [4120,]  0.1020129988  1.0100814      0.7571158  3.292078e-01  0.5294021
##   [4121,]  0.1436411033 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [4122,]  0.9762031930 -0.1009618     -1.3207918 -1.879171e-02 -1.8889088
##   [4123,] -1.1590736959  0.4545598     -1.3207918  3.481443e-01  0.5294021
##   [4124,] -0.4367036475  1.0100814      0.7571158 -1.248886e-01 -1.8889088
##   [4125,]  0.3970827982  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4126,] -0.3669153547  0.7323206      0.7571158 -1.550822e-01 -1.8889088
##   [4127,] -1.6586109497 -1.4897658     -1.3207918 -4.119374e-01  0.5294021
##   [4128,]  0.1644551555  0.1767990      0.7571158  8.723386e-01  0.5294021
##   [4129,]  0.6027746086 -0.3787226      0.7571158  7.517739e-01  0.5294021
##   [4130,]  0.5060504835  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [4131,]  2.4588983262  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [4132,] -1.5031177359  0.7323206      0.7571158 -2.808889e-01  0.5294021
##   [4133,] -0.7880938236  0.7323206     -1.3207918 -1.760500e-01  0.5294021
##   [4134,] -0.4085434591 -0.6564834      0.7571158  3.481443e-01  0.5294021
##   [4135,]  0.1669038676 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [4136,]  0.7582678224  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [4137,]  0.3836148821  0.7323206      0.7571158  1.396533e+00  0.5294021
##   [4138,]  1.1867924274 -1.4897658     -1.3207918 -4.446996e-01  0.5294021
##   [4139,]  0.8672355077 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [4140,] -0.6987158345  1.0100814      0.7571158  1.265484e+00  0.5294021
##   [4141,] -0.2689668735  1.0100814      0.7571158  1.207750e-01 -1.8889088
##   [4142,]  1.9446688002 -1.2120050      0.7571158 -1.760500e-01 -1.8889088
##   [4143,] -1.0084779061  1.0100814      0.7571158  1.068911e+00 -1.8889088
##   [4144,] -1.3268104698  1.0100814      0.7571158  2.695151e-01 -1.8889088
##   [4145,]  0.5109479076  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [4146,] -0.5040432282  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4147,] -2.1312123712 -0.9342442      0.7571158  3.938875e+00  0.5294021
##   [4148,] -0.5371008406  1.0100814     -1.3207918 -6.216151e-01 -1.8889088
##   [4149,] -0.9717472257  1.0100814      0.7571158 -7.133491e-01  0.5294021
##   [4150,] -0.4795561080  1.0100814     -1.3207918  1.777811e-01  0.5294021
##   [4151,] -0.3448769464 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [4152,] -1.1860095282  0.7323206     -1.3207918 -1.105257e-01 -1.8889088
##   [4153,] -0.8640038964  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [4154,]  1.0484401978 -0.9342442     -1.3207918 -5.272602e-01  0.5294021
##   [4155,]  1.0129338734 -1.2120050      0.7571158  8.604715e-02 -1.8889088
##   [4156,] -0.7844207555 -1.4897658      0.7571158 -3.398607e-01  0.5294021
##   [4157,] -0.6203570496 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [4158,] -1.1860095282 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##   [4159,] -1.1309135075  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [4160,] -1.1798877481 -0.1009618      0.7571158  8.159149e-02  0.5294021
##   [4161,] -0.1110249477  1.0100814      0.7571158 -2.288626e-01  0.5294021
##   [4162,] -1.0268432463  1.0100814      0.7571158  3.044789e-01  0.5294021
##   [4163,] -0.7648310593  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [4164,] -1.5337266362  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [4165,] -0.0926596075  1.0100814      0.7571158  2.838067e+00 -1.8889088
##   [4166,] -0.6607607981 -1.4897658     -1.3207918  8.604715e-02  0.5294021
##   [4167,] -0.6730043582  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [4168,] -1.4933228878 -0.1009618      0.7571158  9.915200e-02  0.5294021
##   [4169,] -0.7170811747  0.1767990      0.7571158  8.723386e-01  0.5294021
##   [4170,] -0.4513959196  1.0100814     -1.3207918 -3.595180e-01 -1.8889088
##   [4171,]  0.3652495419  1.0100814     -1.3207918 -2.546791e-01  0.5294021
##   [4172,]  0.7852036547 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [4173,] -0.5615879609  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [4174,]  0.3970827982  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [4175,] -0.4979214482 -1.4897658      0.7571158  2.052286e-02 -1.8889088
##   [4176,]  1.3043306048  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [4177,] -1.1333622196  0.7323206      0.7571158  2.039909e-01  0.5294021
##   [4178,] -1.4872011077  1.0100814      0.7571158  3.564003e-01 -1.8889088
##   [4179,] -1.2888554334  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [4180,] -0.5750558771 -0.3787226     -1.3207918  2.170957e-01  0.5294021
##   [4181,] -1.6855467820  1.0100814      0.7571158 -3.169272e-01 -1.8889088
##   [4182,] -0.8493116243  1.0100814      0.7571158 -6.609297e-01  0.5294021
##   [4183,] -0.0596019951  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [4184,]  0.3921853742 -1.4897658      0.7571158 -6.433168e-01 -1.8889088
##   [4185,]  0.5831849124  1.0100814     -1.3207918 -7.526637e-01  0.5294021
##   [4186,] -0.7856451115  0.1767990      0.7571158 -2.415743e-01  0.5294021
##   [4187,] -0.7097350386  1.0100814      0.7571158  9.247580e-01 -1.8889088
##   [4188,]  0.1240514071  1.0100814      0.7571158  4.267734e-01  0.5294021
##   [4189,] -0.9680741576  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [4190,]  1.1610809511  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4191,] -1.3329322499 -0.1009618      0.7571158 -2.808889e-01  0.5294021
##   [4192,]  1.2663755683 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [4193,] -1.2582465330 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [4194,] -1.3672142183 -0.9342442      0.7571158  1.003387e+00  0.5294021
##   [4195,]  1.4659455987  0.7323206     -1.3207918  1.908860e-01  0.5294021
##   [4196,] -0.9497088174  0.1767990     -1.3207918 -5.954054e-01  0.5294021
##   [4197,]  0.8758059998 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [4198,] -0.4648638358  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [4199,] -0.7734015514 -0.1009618     -1.3207918  2.170957e-01  0.5294021
##   [4200,] -1.7332966665  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4201,]  0.7852036547  1.0100814     -1.3207918 -1.761548e-01  0.5294021
##   [4202,] -1.0684713508 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [4203,]  0.4497301068  1.0100814      0.7571158 -4.512520e-01 -1.8889088
##   [4204,] -1.2888554334  0.1767990     -1.3207918 -3.385502e-01  0.5294021
##   [4205,] -1.3010989935 -0.3787226      0.7571158  4.791929e-01 -1.8889088
##   [4206,] -0.1538774082  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [4207,] -1.4982203118  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [4208,] -0.6632095101  0.4545598      0.7571158  1.003387e+00 -1.8889088
##   [4209,] -0.9117537810 -1.4897658     -1.3207918  1.515714e-01  0.5294021
##   [4210,]  0.2758715528 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [4211,]  0.8390753194  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [4212,]  0.6554219172  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [4213,] -0.8982858648 -0.6564834     -1.3207918  4.136686e-01 -1.8889088
##   [4214,] -0.2922296378  0.1767990      0.7571158  3.481443e-01 -1.8889088
##   [4215,]  0.3676982539  0.4545598      0.7571158  1.122569e-01  0.5294021
##   [4216,]  0.0922181507 -1.4897658     -1.3207918  8.723386e-01 -1.8889088
```

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##   [4217,]  0.6860308176  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4218,] -0.2334605491  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4219,]  0.7852036547  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [4220,]  1.7928486545 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [4221,] -0.5530174688 -0.3787226     -1.3207918 -4.905666e-01 -1.8889088
##   [4222,] -0.1563261202 -0.6564834     -1.3207918 -1.760500e-01 -1.8889088
##   [4223,] -1.4394512231 -1.2120050     -1.3207918 -7.788734e-01  0.5294021
##   [4224,] -0.8517603363 -0.9342442      0.7571158  8.604715e-02 -1.8889088
##   [4225,]  0.2207755322  1.0100814      0.7571158 -3.767640e-01  0.5294021
##   [4226,]  1.0704786061  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [4227,] -0.1318389999  1.0100814      0.7571158  1.108226e+00 -1.8889088
##   [4228,] -0.5995429974 -1.4897658     -1.3207918  1.515714e-01 -1.8889088
##   [4229,] -0.0975570315 -0.9342442      0.7571158  8.604715e-02  0.5294021
##   [4230,] -0.8689013205  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [4231,] -1.6267776933  0.1767990      0.7571158  2.170957e-01  0.5294021
##   [4232,] -0.1330633559 -1.2120050      0.7571158 -4.500143e-02  0.5294021
##   [4233,] -1.7149313263 -0.3787226      0.7571158  3.651806e-01 -1.8889088
##   [4234,]  0.2783202648 -1.2120050     -1.3207918 -6.024165e-01  0.5294021
##   [4235,]  0.4999287034 -1.2120050     -1.3207918  4.136686e-01  0.5294021
##   [4236,] -1.4700601235  1.0100814      0.7571158  3.807827e+00 -1.8889088
##   [4237,]  0.1913909878 -1.4897658     -1.3207918 -7.100729e-01  0.5294021
##   [4238,] -1.2092722925  1.0100814     -1.3207918  3.362772e-02  0.5294021
##   [4239,] -1.0341893824 -1.4897658      0.7571158 -4.549214e-01  0.5294021
##   [4240,] -1.5006690238  0.1767990      0.7571158  7.543949e-01 -1.8889088
##   [4241,]  0.5048261275 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [4242,]  0.8464214555  1.0100814      0.7571158 -3.012014e-01  0.5294021
##   [4243,] -1.2239645646  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [4244,] -0.9484844614 -1.4897658     -1.3207918  4.791929e-01  0.5294021
##   [4245,] -0.2297874811  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [4246,] -0.4501715636  1.0100814      0.7571158  8.068143e-01 -1.8889088
##   [4247,] -0.2665181615 -0.9342442     -1.3207918 -6.347200e-01  0.5294021
##   [4248,]  1.2235231078  1.0100814      0.7571158 -5.155385e-02  0.5294021
##   [4249,] -1.0696957068  1.0100814     -1.3207918 -1.879171e-02  0.5294021
##   [4250,] -0.1012300996  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [4251,] -0.4905753121 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [4252,] -1.1358109316 -1.2120050     -1.3207918 -4.119374e-01 -1.8889088
##   [4253,] -1.8532835559 -0.3787226      0.7571158 -1.236306e-01  0.5294021
##   [4254,] -0.1110249477  1.0100814      0.7571158  2.354425e-01  0.5294021
##   [4255,] -0.6277031857  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [4256,]  0.8843764919 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [4257,]  0.4044289343  1.0100814     -1.3207918 -1.105257e-01 -1.8889088
##   [4258,] -0.7599336352 -1.2120050      0.7571158 -6.609297e-01  0.5294021
##   [4259,] -0.3595692186  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [4260,] -0.8603308284 -0.6564834     -1.3207918 -3.595180e-01 -1.8889088
##   [4261,] -0.0363392308  1.0100814     -1.3207918  4.673257e-02  0.5294021
##   [4262,] -0.5517931128 -0.9342442      0.7571158  8.723386e-01 -1.8889088
##   [4263,] -1.2631439571  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [4264,]  0.1644551555 -1.2120050     -1.3207918 -4.381471e-01 -1.8889088
##   [4265,] -0.4183383073  0.4545598     -1.3207918 -4.500143e-02  0.5294021
##   [4266,]  0.3934097302 -1.4897658      0.7571158  3.481443e-01  0.5294021
##   [4267,] -2.3222119094  0.1767990      0.7571158  3.951201e+01 -1.8889088
##   [4268,] -1.5031177359 -1.4897658     -1.3207918  5.709269e-01  0.5294021
##   [4269,] -1.1958043763  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4270,] -0.6326006097  1.0100814      0.7571158  5.185074e-01  0.5294021
##   [4271,] -0.6240301176  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [4272,] -1.6843224260 -0.1009618     -1.3207918 -6.478249e-01  0.5294021
##   [4273,] -1.0696957068  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4274,] -1.6733032218 -1.2120050      0.7571158 -5.429860e-01 -1.8889088
##   [4275,]  1.6912271053  0.1767990      0.7571158  6.102414e-01 -1.8889088
##   [4276,] -0.5554661808 -0.6564834     -1.3207918  5.983743e-02  0.5294021
##   [4277,]  1.5381826035  0.7323206      0.7571158 -9.742085e-02 -1.8889088
##   [4278,] -1.0158240422  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [4279,]  0.9590622088  1.0100814      0.7571158 -5.858651e-01  0.5294021
##   [4280,]  0.1766987157 -1.4897658     -1.3207918 -6.085103e-01  0.5294021
##   [4281,] -0.4954727362  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [4282,] -1.8030849594 -0.1009618      0.7571158  3.415919e-01  0.5294021
##   [4283,] -2.0516292302 -1.4897658      0.7571158  3.088297e-01  0.5294021
##   [4284,]  0.0628336063 -1.2120050      0.7571158  2.170957e-01 -1.8889088
##   [4285,]  0.2305703803  1.0100814      0.7571158  2.051776e+00  0.5294021
##   [4286,]  0.4705441591  1.0100814      0.7571158  1.081944e-01 -1.8889088
##   [4287,]  0.5586977921 -0.6564834     -1.3207918 -3.726229e-01 -1.8889088
##   [4288,]  1.0998631504 -0.3787226      0.7571158 -5.272602e-01 -1.8889088
##   [4289,] -0.3865050509 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [4290,] -0.9362409013 -1.4897658      0.7571158  3.481443e-01  0.5294021
##   [4291,]  1.4132982900  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4292,] -0.1098005917  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4293,]  1.1059849305 -1.4897658     -1.3207918 -3.857277e-01 -1.8889088
##   [4294,]  0.2868907569  1.0100814      0.7571158  5.316123e-01  0.5294021
##   [4295,] -1.7737004150  1.0100814      0.7571158 -2.677840e-01 -1.8889088
##   [4296,] -1.3659898623  1.0100814     -1.3207918  1.515714e-01  0.5294021
##   [4297,]  0.6701141894 -0.9342442      0.7571158 -1.498403e-01  0.5294021
##   [4298,]  0.3762687460 -0.6564834      0.7571158  9.640726e-01 -1.8889088
##   [4299,]  0.1595577315 -0.9342442     -1.3207918 -7.121114e-02  0.5294021
##   [4300,]  1.6936758173 -0.3787226     -1.3207918 -5.036714e-01  0.5294021
##   [4301,] -0.4832291760 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [4302,] -0.2775373656  1.0100814     -1.3207918 -3.595180e-01  0.5294021
##   [4303,] -0.0755186233 -0.1009618     -1.3207918 -1.311397e-01  0.5294021
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##   [4305,]  0.0077375857  1.0100814      0.7571158 -5.320303e-01  0.5294021
##   [4306,]  0.4068776463  1.0100814      0.7571158 -3.202034e-01  0.5294021
##   [4307,] -0.4232357313 -0.9342442     -1.3207918  8.723386e-01  0.5294021
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##   [4309,]  0.7325563461  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [4310,] -1.3194643337 -0.1009618     -1.3207918 -3.072689e-01  0.5294021
##   [4311,] -1.0978558952  1.0100814      0.7571158  1.646763e-01 -1.8889088
##   [4312,] -0.8946127968  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4313,] -0.1612235443  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [4314,] -1.5655598926 -1.4897658     -1.3207918 -3.333083e-01 -1.8889088
```

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##   [4315,]  0.1350706112  1.0100814     -1.3207918  2.052286e-02  0.5294021
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##   [4317,] -0.0191982466  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [4318,] -0.2628450934  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [4319,] -0.0338905188 -1.4897658      0.7571158  6.757657e-01 -1.8889088
##   [4320,] -0.7170811747  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [4321,]  1.0141582294  1.0100814     -1.3207918 -2.022597e-01  0.5294021
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##   [4323,] -0.0130764665  1.0100814     -1.3207918  5.447171e-01 -1.8889088
##   [4324,] -0.9080807129  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [4325,] -0.8052348078  1.0100814      0.7571158 -9.479988e-02  0.5294021
##   [4326,]  0.7411268382  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [4327,] -1.4063936107 -1.4897658     -1.3207918  7.412900e-01  0.5294021
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##   [4330,] -0.1575504762  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [4331,] -1.0599008587 -1.2120050     -1.3207918  2.052286e-02  0.5294021
##   [4332,]  0.4448326828  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [4333,]  0.3566790498  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [4334,] -1.1676441880 -0.3787226     -1.3207918 -1.760500e-01 -1.8889088
##   [4335,]  0.7203127860 -0.6564834      0.7571158 -3.521138e-01  0.5294021
##   [4336,]  0.7239858540 -1.2120050     -1.3207918 -5.901635e-01  0.5294021
##   [4337,]  0.3738200340  1.0100814     -1.3207918 -8.169503e-02 -1.8889088
##   [4338,] -1.1162212354 -0.9342442      0.7571158  2.170957e-01  0.5294021
##   [4339,] -0.8297219280  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4340,] -0.3265116062 -1.2120050      0.7571158 -5.954054e-01  0.5294021
##   [4341,] -1.0452085865 -0.3787226     -1.3207918  8.723386e-01  0.5294021
##   [4342,]  0.2697497727 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [4343,] -0.4011973231 -0.6564834      0.7571158 -4.774617e-01  0.5294021
##   [4344,]  0.8317291833  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [4345,]  1.1745488673 -1.2120050      0.7571158 -5.429860e-01 -1.8889088
##   [4346,] -1.8153285195  1.0100814      0.7571158  1.658630e+00 -1.8889088
##   [4347,] -0.3473256584  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4348,] -0.6827992063  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [4349,] -0.0400122989 -1.2120050      0.7571158 -1.590864e-02  0.5294021
##   [4350,] -1.6084123531 -1.2120050      0.7571158  1.908860e-01 -1.8889088
##   [4351,] -1.4639383434 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [4352,] -0.5113893643 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [4353,] -0.0804160473 -0.9342442     -1.3207918 -1.760500e-01  0.5294021
##   [4354,]  0.3493329137 -1.4897658     -1.3207918 -1.236306e-01 -1.8889088
##   [4355,] -0.9790933618 -0.6564834     -1.3207918 -5.686855e-03  0.5294021
##   [4356,]  0.6615436973 -0.3787226     -1.3207918  1.068911e+00  0.5294021
##   [4357,] -1.1994774443 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [4358,]  0.2746471968  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4359,] -0.2652938055  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [4360,] -1.2288619887  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4361,] -1.2753875172  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [4362,] -1.9071552206  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [4363,] -1.3059964176  1.0100814      0.7571158 -1.891549e-01 -1.8889088
##   [4364,] -1.9769435134 -1.4897658      0.7571158 -2.415743e-01 -1.8889088
##   [4365,] -1.6402456095  1.0100814      0.7571158  1.789679e+00 -1.8889088
##   [4366,]  0.5440055199 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [4367,] -1.3574193702  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [4368,]  0.3579034058  1.0100814     -1.3207918 -3.660704e-01 -1.8889088
##   [4369,] -0.3889537629  1.0100814     -1.3207918 -4.860847e-01  0.5294021
##   [4370,]  0.3579034058 -0.9342442      0.7571158 -4.446996e-01  0.5294021
##   [4371,]  1.2161769718 -1.4897658      0.7571158  1.499464e-01 -1.8889088
##   [4372,] -0.6215814056 -1.2120050      0.7571158 -5.560909e-01 -1.8889088
##   [4373,] -2.0920329787 -1.2120050     -1.3207918 -2.808889e-01  0.5294021
##   [4374,] -0.0779673353  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##   [4375,] -0.3424282344 -1.4897658     -1.3207918 -1.060045e-01  0.5294021
##   [4376,] -1.3133425537  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [4377,] -1.3537463021  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [4378,]  1.1708757992  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [4379,] -1.9879627175 -0.9342442     -1.3207918  5.983743e-02  0.5294021
##   [4380,] -0.2946783498  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [4381,] -1.3537463021  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4382,] -1.4798549716 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [4383,]  0.1595577315  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4384,]  0.6799090375  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [4385,] -1.4492460712 -0.6564834      0.7571158 -4.500143e-02 -1.8889088
##   [4386,] -1.0917341151 -0.9342442     -1.3207918 -5.036714e-01  0.5294021
##   [4387,]  0.0983399308 -1.4897658     -1.3207918  2.052286e-02  0.5294021
##   [4388,] -1.4223102389  1.0100814      0.7571158 -8.492465e-01 -1.8889088
##   [4389,] -0.2824347897 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [4390,]  1.1512861030  1.0100814      0.7571158 -1.891549e-01 -1.8889088
##   [4391,] -0.7023889026  1.0100814     -1.3207918 -1.367354e-01  0.5294021
##   [4392,]  0.3713713219  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [4393,] -1.1186699474 -0.6564834     -1.3207918 -1.563927e-01 -1.8889088
##   [4394,]  0.1509872394 -0.3787226      0.7571158  1.134436e+00  0.5294021
##   [4395,] -1.1456057797  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [4396,]  0.3799418140  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4397,] -1.0097022621  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [4398,]  1.0312992136 -0.9342442     -1.3207918  1.384666e-01  0.5294021
##   [4399,] -0.8223757920 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [4400,] -1.1382596436  0.1767990      0.7571158 -1.891549e-01  0.5294021
##   [4401,] -0.3338577423 -0.1009618     -1.3207918 -2.022597e-01  0.5294021
##   [4402,] -0.7170811747  0.4545598     -1.3207918  8.723386e-01 -1.8889088
##   [4403,] -0.0436853669  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [4404,]  0.4460570388  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [4405,]  2.0291493652  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [4406,]  1.0680298940  0.7323206     -1.3207918 -4.643569e-01  0.5294021
##   [4407,]  2.3768664733  1.0100814      0.7571158  1.068911e+00  0.5294021
##   [4408,] -1.0660226388 -0.1009618      0.7571158 -2.284694e-01  0.5294021
##   [4409,] -0.0277687387  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [4410,] -0.9962343460 -1.4897658     -1.3207918 -5.954054e-01  0.5294021
##   [4411,] -1.7283992425 -0.3787226      0.7571158  3.022773e-01 -1.8889088
##   [4412,]  0.0628336063  0.7323206      0.7571158  1.777811e-01  0.5294021
```

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##   [4413,] -0.8982858648 -1.2120050      0.7571158  5.447171e-01  0.5294021
##   [4414,] -0.2885565697 -0.9342442      0.7571158 -4.391955e-01  0.5294021
##   [4415,]  1.9752777006 -1.4897658     -1.3207918 -4.547248e-01  0.5294021
##   [4416,]  0.1485385273  1.0100814      0.7571158  2.182824e+00  0.5294021
##   [4417,] -1.6855467820  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [4418,] -0.7795233315 -0.1009618      0.7571158  3.034640e+00 -1.8889088
##   [4419,] -0.4820048200  0.4545598      0.7571158  2.826200e-01 -1.8889088
##   [4420,]  0.0530387582 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [4421,] -1.6782006459 -1.4897658     -1.3207918  1.068911e+00  0.5294021
##   [4422,]  0.8782547118  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [4423,] -1.3427270980 -1.2120050     -1.3207918  4.791929e-01  0.5294021
##   [4424,]  0.0714040984 -0.9342442     -1.3207918 -7.121114e-02  0.5294021
##   [4425,] -0.0204226026  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4426,]  0.5207427557  1.0100814      0.7571158  1.068911e+00  0.5294021
##   [4427,] -1.1443814237  0.7323206      0.7571158  1.646763e-01 -1.8889088
##   [4428,] -0.1795888845  1.0100814     -1.3207918 -3.189657e-02  0.5294021
##   [4429,] -0.1195954398 -0.3787226      0.7571158  2.826200e-01  0.5294021
##   [4430,]  0.0297759940 -1.4897658     -1.3207918 -6.491353e-01  0.5294021
##   [4431,] -1.0378624505 -0.6564834      0.7571158 -5.954054e-01  0.5294021
##   [4432,] -0.0938839635  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4433,]  1.5724645719 -0.9342442      0.7571158 -6.347200e-01 -1.8889088
##   [4434,]  0.8194856231  0.4545598      0.7571158  6.180316e-02 -1.8889088
##   [4435,] -1.2888554334  0.7323206      0.7571158  2.957249e-01  0.5294021
##   [4436,] -0.6032160654  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [4437,] -1.3500732341  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [4438,]  0.0212055019  1.0100814      0.7571158 -7.776357e-02  0.5294021
##   [4439,] -0.8431898442  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [4440,] -0.2971270618  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [4441,] -1.3219130458 -0.9342442     -1.3207918 -3.726229e-01  0.5294021
##   [4442,] -1.2778362292  1.0100814     -1.3207918 -4.905666e-01  0.5294021
##   [4443,] -0.3105949780  1.0100814      0.7571158  1.304799e+00 -1.8889088
##   [4444,]  0.9492673607 -1.4897658     -1.3207918 -7.121114e-02  0.5294021
##   [4445,]  1.0190556535  1.0100814     -1.3207918 -8.693697e-02  0.5294021
##   [4446,] -1.0892854031 -0.1009618     -1.3207918  1.396533e+00  0.5294021
##   [4447,]  0.5831849124  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [4448,]  1.0998631504 -1.4897658      0.7571158 -5.429860e-01 -1.8889088
##   [4449,] -0.7072863266  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [4450,] -0.8260488600 -0.6564834      0.7571158  8.604715e-02  0.5294021
##   [4451,]  0.7435755503 -1.2120050     -1.3207918 -5.560909e-01  0.5294021
##   [4452,] -0.1293902879  0.1767990      0.7571158  7.150803e-01 -1.8889088
##   [4453,]  0.2550575006 -0.1009618      0.7571158  8.723386e-01 -1.8889088
##   [4454,] -0.6068891334 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [4455,] -0.7427926510  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4456,]  1.6924514613  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4457,]  0.5268645357  1.0100814      0.7571158 -3.464131e-01 -1.8889088
##   [4458,] -1.8055336714 -0.1009618      0.7571158 -5.691957e-01  0.5294021
##   [4459,] -1.4933228878  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [4460,] -0.3240628942  1.0100814     -1.3207918 -4.578044e-01  0.5294021
##   [4461,]  0.5317619598  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [4462,] -0.2236657010 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##   [4463,] -1.3219130458  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [4464,]  0.0224298579 -0.1009618     -1.3207918 -2.808889e-01  0.5294021
##   [4465,] -1.9328666969 -1.4897658     -1.3207918 -2.808889e-01  0.5294021
##   [4466,] -0.6362736778  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [4467,] -0.5224085685  1.0100814      0.7571158  2.302006e-01  0.5294021
##   [4468,]  0.1240514071  1.0100814     -1.3207918  5.586345e-01  0.5294021
##   [4469,] -1.5422971283  1.0100814     -1.3207918 -4.512520e-01  0.5294021
##   [4470,] -0.3252872502 -0.9342442      0.7571158  4.673257e-02  0.5294021
##   [4471,] -1.1431570677  1.0100814      0.7571158  2.117300e+00 -1.8889088
##   [4472,]  1.1010875064 -1.4897658     -1.3207918 -3.973450e-01  0.5294021
##   [4473,]  0.1999614799  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [4474,]  0.0052888737  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [4475,] -2.0173472618  0.1767990      0.7571158 -3.009262e-01 -1.8889088
##   [4476,]  1.9005919837  1.0100814     -1.3207918  8.655738e-04  0.5294021
##   [4477,] -1.3917013386  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [4478,] -0.8603308284 -1.2120050     -1.3207918 -3.857277e-01  0.5294021
##   [4479,] -1.1345865756 -0.9342442      0.7571158  1.920727e+00  0.5294021
##   [4480,] -1.1052020312  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [4481,] -0.3840563389 -0.6564834      0.7571158 -1.498403e-01  0.5294021
##   [4482,] -0.9950099900 -0.3787226     -1.3207918 -4.774617e-01  0.5294021
##   [4483,] -0.8995102208  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4484,] -0.0559289270  1.0100814     -1.3207918 -6.585708e-01  0.5294021
##   [4485,]  1.8503933871 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [4486,] -0.8505359803 -0.3787226     -1.3207918 -5.036714e-01 -1.8889088
##   [4487,]  0.6174668808  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [4488,] -0.9656254456 -0.9342442      0.7571158  5.840317e-01  0.5294021
##   [4489,] -1.6512648136 -1.2120050     -1.3207918 -2.219170e-01  0.5294021
##   [4490,] -1.2680413811  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [4491,] -0.2628450934 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [4492,] -1.1456057797  1.0100814     -1.3207918  8.723386e-01  0.5294021
##   [4493,] -1.1284647955 -1.4897658     -1.3207918  2.498579e-01  0.5294021
##   [4494,] -0.7219785988  0.1767990      0.7571158  5.983743e-02  0.5294021
##   [4495,] -1.0341893824  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [4496,] -0.8774718126  1.0100814     -1.3207918  2.052286e-02 -1.8889088
##   [4497,] -0.7489144311  1.0100814      0.7571158  3.490747e-01  0.5294021
##   [4498,]  0.6676654774  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4499,]  0.2195511762  1.0100814      0.7571158 -3.189657e-02 -1.8889088
##   [4500,] -1.9279692728 -0.1009618     -1.3207918  6.364511e-01  0.5294021
##   [4501,] -0.7758502634 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [4502,] -0.1551017642 -1.2120050      0.7571158  7.543949e-01  0.5294021
##   [4503,]  0.1509872394  0.4545598      0.7571158  2.826200e-01  0.5294021
##   [4504,]  0.3921853742 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [4505,] -1.7945144673 -1.4897658     -1.3207918 -4.119374e-01  0.5294021
##   [4506,] -0.3999729670 -0.6564834      0.7571158 -7.776357e-02 -1.8889088
##   [4507,] -0.5542418248 -0.9342442      0.7571158  4.791929e-01  0.5294021
##   [4508,] -0.4452741396  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [4509,]  1.8589638792  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4510,]  0.8476458115  1.0100814      0.7571158  4.136686e-01  0.5294021
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##   [4511,] -0.5787289451  1.0100814      0.7571158  6.678301e-02 -1.8889088
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##   [4513,] -0.8860423047 -0.6564834     -1.3207918 -1.105257e-01  0.5294021
##   [4514,]  2.2311681076 -0.9342442      0.7571158 -3.726229e-01  0.5294021
##   [4515,]  0.5586977921 -0.3787226      0.7571158 -5.298811e-01 -1.8889088
##   [4516,] -0.9313434772  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4517,] -0.8248245040  1.0100814      0.7571158  3.743540e-01  0.5294021
##   [4518,] -1.0941828271 -1.4897658     -1.3207918  2.313873e+00  0.5294021
##   [4519,]  0.6982743777  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [4520,] -0.6766774263 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [4521,] -0.6607607981 -0.1009618     -1.3207918  1.646763e-01  0.5294021
##   [4522,] -0.9093050690  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [4523,]  0.1815961397 -1.2120050      0.7571158  4.136686e-01  0.5294021
##   [4524,]  0.4301404106 -0.3787226      0.7571158 -1.105257e-01  0.5294021
##   [4525,]  1.0766003861  0.1767990      0.7571158 -2.415743e-01 -1.8889088
##   [4526,]  0.2954612490  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [4527,] -0.6105622015  1.0100814     -1.3207918 -7.526637e-01  0.5294021
##   [4528,] -0.9252216971  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4529,] -1.1468301357 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [4530,]  0.5354350278  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [4531,] -1.1137725233  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4532,] -0.1685696803 -1.4897658      0.7571158 -8.103251e-01 -1.8889088
##   [4533,] -1.1590736959  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4534,] -0.3081462660 -1.4897658     -1.3207918 -2.415743e-01 -1.8889088
##   [4535,]  0.3444354896 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [4536,]  0.5929797605  0.4545598      0.7571158 -3.189657e-02  0.5294021
##   [4537,] -1.5447458404  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [4538,]  1.2724973484  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [4539,] -0.0547045710  0.7323206      0.7571158 -5.823006e-01  0.5294021
##   [4540,] -0.9080807129 -1.4897658     -1.3207918  7.412900e-01  0.5294021
##   [4541,] -1.5141369400 -0.9342442      0.7571158 -6.674821e-01  0.5294021
##   [4542,] -0.4587420557 -1.2120050      0.7571158 -1.760500e-01  0.5294021
##   [4543,] -1.1627467639  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [4544,] -0.0351148748  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [4545,] -1.7173800384 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [4546,] -0.4416010715 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [4547,] -0.9631767336 -0.1009618      0.7571158 -1.367354e-01  0.5294021
##   [4548,]  1.2786191285 -0.9342442      0.7571158 -2.010220e-02 -1.8889088
##   [4549,] -0.2101977848 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [4550,]  0.1803717837  1.0100814      0.7571158  8.985483e-01  0.5294021
##   [4551,] -0.1281659319 -1.4897658      0.7571158 -2.022597e-01  0.5294021
##   [4552,] -1.4957715998 -0.9342442      0.7571158  2.826200e-01 -1.8889088
##   [4553,]  0.1216026950  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [4554,] -0.0583776391  1.0100814      0.7571158 -3.988326e-01 -1.8889088
##   [4555,] -0.6497415939  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4556,]  0.6541975612 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [4557,]  0.7350050582  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [4558,] -0.4648638358 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [4559,]  0.1705769356  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [4560,]  0.4093263584 -0.3787226     -1.3207918 -4.381471e-01  0.5294021
##   [4561,] -1.4357781551  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [4562,] -1.7883926872  1.0100814      0.7571158  2.169647e-01 -1.8889088
##   [4563,]  0.3358649975 -0.9342442      0.7571158  1.253617e-01  0.5294021
##   [4564,] -0.0706211992 -0.9342442     -1.3207918  5.447171e-01  0.5294021
##   [4565,] -0.2101977848  1.0100814      0.7571158 -3.857277e-01  0.5294021
##   [4566,] -1.5814765208  0.1767990      0.7571158 -4.381471e-01 -1.8889088
##   [4567,] -0.5958699293 -1.4897658     -1.3207918 -6.871394e-01  0.5294021
##   [4568,]  0.5280888918  1.0100814      0.7571158  1.777811e-01  0.5294021
##   [4569,] -0.9595036655 -1.4897658     -1.3207918  2.052286e-02  0.5294021
##   [4570,] -0.9448113934  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [4571,] -0.8627795404 -0.1009618      0.7571158  2.170957e-01  0.5294021
##   [4572,] -0.1220441518  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [4573,] -1.0684713508  0.1767990      0.7571158  5.447171e-01  0.5294021
##   [4574,]  0.2391408724  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [4575,] -0.7893181796 -0.9342442      0.7571158  1.777811e-01  0.5294021
##   [4576,] -1.4321050870  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [4577,]  2.1185273542  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [4578,] -0.8333949961  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [4579,]  0.3419867776 -0.3787226     -1.3207918  1.003387e+00  0.5294021
##   [4580,] -1.3439514540 -1.2120050     -1.3207918 -6.278924e-01  0.5294021
##   [4581,] -0.0914352515  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [4582,]  0.2440382964  1.0100814     -1.3207918 -1.879171e-02 -1.8889088
##   [4583,] -0.7440170070 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##   [4584,]  1.2039334116  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [4585,] -0.1146980157  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4586,] -1.0782661989  0.7323206      0.7571158  8.604715e-02 -1.8889088
##   [4587,]  0.1583333755  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [4588,]  1.2786191285 -1.4897658      0.7571158 -1.629451e-01  0.5294021
##   [4589,] -0.0840891154 -1.4897658      0.7571158 -7.264540e-01  0.5294021
##   [4590,] -1.9034821525  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [4591,] -1.2092722925  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [4592,] -0.1955055127 -0.9342442      0.7571158  7.281851e-01  0.5294021
##   [4593,] -0.0204226026 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [4594,] -1.3439514540 -0.9342442     -1.3207918  4.803796e+00  0.5294021
##   [4595,] -1.8924629484  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [4596,] -0.1073518796 -0.6564834     -1.3207918  1.658630e+00  0.5294021
##   [4597,] -1.6659570858  1.0100814      0.7571158  7.019754e-01  0.5294021
##   [4598,]  0.8904982720 -1.4897658     -1.3207918 -7.071636e-01  0.5294021
##   [4599,] -1.0709200628  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [4600,] -1.1247917275  0.4545598      0.7571158  1.003387e+00 -1.8889088
##   [4601,] -0.7489144311  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [4602,] -1.9181744247 -1.4897658     -1.3207918  7.412900e-01  0.5294021
##   [4603,]  0.2917881810  1.0100814      0.7571158 -4.590101e-01  0.5294021
##   [4604,]  1.2002603436  1.0100814     -1.3207918  1.122569e-01  0.5294021
##   [4605,] -0.5322034166 -0.6564834      0.7571158  4.791929e-01 -1.8889088
##   [4606,] -2.0969304028  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [4607,] -0.1502043401 -1.4897658      0.7571158 -6.609297e-01  0.5294021
##   [4608,] -0.7550362112 -0.3787226      0.7571158 -4.119374e-01 -1.8889088
```

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##   [4609,] -1.6182072012  0.4545598      0.7571158 -5.686855e-03  0.5294021
##   [4610,]  1.4365610543 -1.2120050      0.7571158 -6.085103e-01  0.5294021
##   [4611,] -0.7525874991  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4612,]  0.7937741468  1.0100814      0.7571158 -6.465871e-02  0.5294021
##   [4613,] -1.3868039145  1.0100814      0.7571158  1.003387e+00 -1.8889088
##   [4614,]  0.8354022513 -0.6564834      0.7571158 -3.857277e-01  0.5294021
##   [4615,] -0.2248900570  0.1767990      0.7571158  4.791929e-01  0.5294021
##   [4616,] -1.2509003969 -0.3787226      0.7571158  1.003387e+00  0.5294021
##   [4617,] -1.7075851902  0.4545598      0.7571158 -1.879171e-02  0.5294021
##   [4618,]  2.0095596690  1.0100814      0.7571158 -3.647599e-01 -1.8889088
##   [4619,] -0.7954399596 -0.6564834      0.7571158 -1.879171e-02  0.5294021
##   [4620,] -0.1612235443 -1.2120050     -1.3207918  2.170957e-01 -1.8889088
##   [4621,] -1.0035804821  0.4545598     -1.3207918 -3.070986e-01  0.5294021
##   [4622,]  2.2948346203 -0.9342442     -1.3207918 -6.216151e-01 -1.8889088
##   [4623,] -0.6852479184  1.0100814      0.7571158  1.068911e+00  0.5294021
##   [4624,]  0.6786846815  1.0100814      0.7571158  3.743540e-01 -1.8889088
##   [4625,] -0.2420310412 -0.3787226      0.7571158 -1.105257e-01  0.5294021
##   [4626,] -1.1456057797 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [4627,] -1.5692329606  1.0100814     -1.3207918  1.855203e+00  0.5294021
##   [4628,] -0.3436525904  1.0100814      0.7571158  1.438307e-01  0.5294021
##   [4629,]  0.5329863158 -0.3787226      0.7571158 -4.905666e-01  0.5294021
##   [4630,] -0.1526530522  0.1767990     -1.3207918  2.044626e-01  0.5294021
##   [4631,]  1.9654828525 -1.2120050      0.7571158 -2.415743e-01 -1.8889088
##   [4632,] -0.8297219280  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [4633,] -1.1027533192  0.4545598      0.7571158  4.791929e-01  0.5294021
##   [4634,] -1.0170483982  1.0100814     -1.3207918 -4.250423e-01  0.5294021
##   [4635,] -2.1030521828  1.0100814      0.7571158  1.725341e+01  0.5294021
##   [4636,]  0.1864935638 -0.1009618      0.7571158  7.412900e-01  0.5294021
##   [4637,] -1.3696629303 -1.4897658     -1.3207918 -5.823006e-01  0.5294021
##   [4638,] -1.2815092973  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [4639,] -0.0057303305 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [4640,] -0.7452413631 -1.4897658      0.7571158  5.447171e-01  0.5294021
##   [4641,]  0.2991343171 -0.9342442     -1.3207918 -1.170781e-01 -1.8889088
##   [4642,] -0.1979542247 -1.2120050     -1.3207918 -5.167763e-01  0.5294021
##   [4643,]  0.3774931020  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [4644,]  1.8993676277 -0.6564834     -1.3207918 -6.265950e-01  0.5294021
##   [4645,]  2.1344439824 -0.3787226      0.7571158 -4.119374e-01  0.5294021
##   [4646,] -1.1174455914 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [4647,] -0.9325678332 -0.3787226      0.7571158  4.791929e-01  0.5294021
##   [4648,] -1.9267449168  0.4545598      0.7571158  4.791929e-01  0.5294021
##   [4649,] -1.6586109497 -1.2120050     -1.3207918  1.908860e-01  0.5294021
##   [4650,] -0.9619523776 -1.2120050      0.7571158 -3.070986e-01 -1.8889088
##   [4651,] -1.6561622376  1.0100814      0.7571158  1.068911e+00  0.5294021
##   [4652,] -0.8982858648 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##   [4653,]  0.3174996573  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [4654,]  1.3447343532  1.0100814      0.7571158  9.693145e-01  0.5294021
##   [4655,] -0.4232357313  0.7323206     -1.3207918 -5.686855e-03 -1.8889088
##   [4656,]  1.4806378708  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [4657,]  0.6125694567 -0.9342442      0.7571158  8.199191e-01 -1.8889088
##   [4658,]  1.4488046145  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [4659,]  0.7264345661 -0.3787226      0.7571158 -3.726229e-01  0.5294021
##   [4660,]  0.0052888737  0.1767990     -1.3207918 -1.826024e-01  0.5294021
##   [4661,] -0.6987158345  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [4662,] -0.1942811566  1.0100814     -1.3207918 -7.121114e-02  0.5294021
##   [4663,] -0.7831963995  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [4664,] -1.1578493399 -1.4897658      0.7571158  5.316123e-01  0.5294021
##   [4665,]  0.3603521178  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [4666,] -0.5113893643 -0.9342442      0.7571158  4.791929e-01 -1.8889088
##   [4667,] -0.5260816365 -0.1009618      0.7571158  7.412900e-01  0.5294021
##   [4668,]  0.7227614980 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [4669,] -1.3757847104 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [4670,] -0.0877621834 -1.2120050      0.7571158  4.791929e-01  0.5294021
##   [4671,]  0.0542631142  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [4672,]  1.0631324700 -1.4897658      0.7571158 -1.760500e-01 -1.8889088
##   [4673,] -0.6901453424  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [4674,]  1.7193872936 -0.3787226     -1.3207918 -3.464131e-01  0.5294021
##   [4675,]  0.2966856051 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [4676,] -1.2582465330 -0.6564834      0.7571158  6.102414e-01 -1.8889088
##   [4677,] -1.2337594127  1.0100814      0.7571158  1.068911e+00  0.5294021
##   [4678,] -0.1906080886 -1.2120050      0.7571158  1.199960e+00 -1.8889088
##   [4679,] -1.0292919584 -0.1009618      0.7571158 -1.105257e-01  0.5294021
##   [4680,] -1.1309135075 -1.4897658     -1.3207918 -7.159701e-01  0.5294021
##   [4681,] -0.3020244859  1.0100814     -1.3207918  6.102414e-01 -1.8889088
##   [4682,]  0.6676654774  0.1767990      0.7571158 -5.233287e-01 -1.8889088
##   [4683,]  2.0597582656  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [4684,]  0.4056532903  1.0100814      0.7571158 -2.546791e-01 -1.8889088
##   [4685,] -0.2248900570 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [4686,] -1.8532835559  1.0100814      0.7571158  8.854434e-01  0.5294021
##   [4687,] -1.2435542608  0.1767990      0.7571158  5.447171e-01  0.5294021
##   [4688,]  1.0753760301 -0.1009618      0.7571158 -2.153646e-01  0.5294021
##   [4689,]  0.9321263765  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4690,]  0.0775258785 -0.6564834      0.7571158 -3.726229e-01  0.5294021
##   [4691,]  0.9235558844  0.7323206      0.7571158 -5.167763e-01  0.5294021
##   [4692,] -0.7072863266 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [4693,] -1.2974259255 -0.6564834     -1.3207918 -7.002443e-01 -1.8889088
##   [4694,] -0.6411711018 -0.3787226      0.7571158  2.170957e-01 -1.8889088
##   [4695,] -0.6264788297  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4696,]  0.3285188614 -0.6564834     -1.3207918  2.695151e-01  0.5294021
##   [4697,] -0.6497415939  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [4698,]  0.7129666499  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [4699,]  1.9667072085  1.0100814      0.7571158  9.915200e-02  0.5294021
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##   [4701,] -0.7489144311  0.1767990     -1.3207918  4.136686e-01  0.5294021
##   [4702,]  0.0028401616  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4703,] -1.1823364601  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [4704,] -2.0161229058  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [4705,] -1.4149641028 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [4706,] -1.2484516849  1.0100814      0.7571158  3.362772e-02  0.5294021
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##   [4707,] -1.1651954759 -0.1009618      0.7571158  1.396533e+00 -1.8889088
##   [4708,] -1.0329650264 -0.9342442      0.7571158 -6.137522e-01  0.5294021
##   [4709,] -0.6583120860 -1.4897658      0.7571158 -7.657686e-01  0.5294021
##   [4710,]  0.2244486002 -0.9342442      0.7571158 -2.415743e-01  0.5294021
##   [4711,] -0.2738642976  0.7323206      0.7571158 -3.070986e-01  0.5294021
##   [4712,]  0.4717685151  1.0100814     -1.3207918 -6.019579e-01  0.5294021
##   [4713,]  1.0202800095 -0.6564834      0.7571158 -5.429860e-01  0.5294021
##   [4714,]  0.0603848943 -1.4897658     -1.3207918  2.052286e-02  0.5294021
##   [4715,] -1.0770418429 -0.9342442      0.7571158  1.253617e-01 -1.8889088
##   [4716,] -0.7672797713 -0.9342442      0.7571158  1.003387e+00 -1.8889088
##   [4717,] -1.4357781551 -0.9342442      0.7571158  1.384666e-01  0.5294021
##   [4718,]  2.2299437515 -1.2120050      0.7571158 -5.954054e-01 -1.8889088
##   [4719,] -0.3093706220 -0.3787226      0.7571158 -2.808889e-01  0.5294021
##   [4720,] -0.3595692186  1.0100814      0.7571158  3.219346e-01  0.5294021
##   [4721,] -1.0109266181  1.0100814      0.7571158  2.313873e+00  0.5294021
##   [4722,] -0.8260488600 -0.1009618      0.7571158 -6.347200e-01  0.5294021
##   [4723,] -0.4624151238 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [4724,] -1.0317406704  1.0100814      0.7571158 -6.740346e-01 -1.8889088
##   [4725,] -0.7587092792  0.4545598      0.7571158 -5.691957e-01  0.5294021
##   [4726,]  1.0619081140 -1.2120050     -1.3207918 -5.298811e-01  0.5294021
##   [4727,]  0.0285516379  1.0100814     -1.3207918 -3.464131e-01  0.5294021
##   [4728,]  0.0518144022 -0.3787226     -1.3207918 -7.526637e-01  0.5294021
##   [4729,] -1.6402456095 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [4730,]  0.8096907750 -1.4897658      0.7571158 -5.691957e-01 -1.8889088
##   [4731,] -0.4526202757 -0.9342442     -1.3207918  3.219346e-01  0.5294021
##   [4732,] -0.2187682769 -0.3787226     -1.3207918 -3.988326e-01  0.5294021
##   [4733,] -0.0644994191 -1.2120050      0.7571158  1.527581e+00 -1.8889088
##   [4734,]  0.7276589221 -0.9342442      0.7571158 -1.760500e-01 -1.8889088
##   [4735,]  0.8047933510  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [4736,]  1.4524776825 -0.9342442      0.7571158 -5.691957e-01  0.5294021
##   [4737,]  0.1901666318  0.4545598     -1.3207918 -1.236306e-01  0.5294021
##   [4738,]  0.8133638431 -1.2120050      0.7571158 -2.022597e-01  0.5294021
##   [4739,] -0.3277359622  0.7323206     -1.3207918 -4.643569e-01 -1.8889088
##   [4740,] -1.2068235804  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [4741,]  2.4368599179  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [4742,] -1.2447786169  0.7323206      0.7571158  3.219346e-01  0.5294021
##   [4743,] -1.3341566059  0.1767990     -1.3207918  3.219346e-01  0.5294021
##   [4744,]  0.0126350098  1.0100814     -1.3207918 -5.560909e-01  0.5294021
##   [4745,]  1.4953301430 -1.4897658      0.7571158 -5.640455e-01  0.5294021
##   [4746,]  0.6921525977 -0.6564834      0.7571158  2.302006e-01 -1.8889088
##   [4747,] -1.6145341332  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [4748,]  0.0150837218  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [4749,] -0.1661209683  0.4545598     -1.3207918 -2.284694e-01  0.5294021
##   [4750,]  1.6385797967 -0.3787226      0.7571158 -4.119374e-01  0.5294021
##   [4751,] -0.0865378274  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [4752,] -0.9448113934 -1.2120050     -1.3207918 -7.121114e-02  0.5294021
##   [4753,] -1.2496760409 -0.6564834     -1.3207918  1.134436e+00  0.5294021
##   [4754,] -0.3350820983 -0.9342442      0.7571158  6.102414e-01  0.5294021
##   [4755,] -2.1189688110  1.0100814      0.7571158  5.983233e+00  0.5294021
##   [4756,] -0.5824020132 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [4757,] -0.5322034166  1.0100814     -1.3207918 -1.288725e-01  0.5294021
##   [4758,] -2.0834624866 -1.4897658     -1.3207918  8.723386e-01  0.5294021
##   [4759,]  1.1365938308  0.1767990      0.7571158 -3.503446e-01  0.5294021
##   [4760,] -0.8480872683  1.0100814      0.7571158  7.294229e-02  0.5294021
##   [4761,] -0.8713500325  1.0100814      0.7571158  9.378629e-01  0.5294021
##   [4762,] -0.7317734469 -1.2120050     -1.3207918 -4.905666e-01  0.5294021
##   [4763,] -1.7002390542  0.1767990     -1.3207918 -4.905666e-01  0.5294021
##   [4764,]  0.8709085757  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [4765,] -0.9031832889  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4766,] -0.1208197958 -0.6564834      0.7571158 -4.119374e-01  0.5294021
##   [4767,] -1.0207214663  0.7323206      0.7571158 -1.891549e-01  0.5294021
##   [4768,] -0.8897153727 -1.2120050     -1.3207918 -4.188044e-01 -1.8889088
##   [4769,] -0.5493444008 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [4770,]  2.1907643591  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [4771,] -1.0329650264  1.0100814      0.7571158 -3.660704e-01 -1.8889088
##   [4772,] -1.3696629303 -1.2120050      0.7571158  5.709269e-01  0.5294021
##   [4773,] -0.5664853850  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [4774,]  0.3713713219  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [4775,]  2.3585011330  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [4776,] -1.0941828271  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4777,] -1.6157584892  1.0100814      0.7571158  1.277017e+00 -1.8889088
##   [4778,]  0.1766987157 -1.4897658      0.7571158  9.915200e-02  0.5294021
##   [4779,] -0.7966643157 -0.9342442      0.7571158  3.088297e-01  0.5294021
##   [4780,] -0.3179411141 -0.1009618      0.7571158 -4.381471e-01 -1.8889088
##   [4781,]  0.1191539830  1.0100814      0.7571158 -3.857277e-01 -1.8889088
##   [4782,] -0.4771073959 -0.6564834     -1.3207918  2.170957e-01 -1.8889088
##   [4783,] -1.2717144492  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [4784,] -0.4599664117  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [4785,] -0.2065247168 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [4786,] -0.9852151418 -1.4897658     -1.3207918 -5.482279e-01  0.5294021
##   [4787,] -1.2374324808 -0.6564834     -1.3207918  4.791929e-01  0.5294021
##   [4788,]  1.7891755864 -0.9342442      0.7571158 -1.760500e-01 -1.8889088
##   [4789,] -0.4526202757 -0.9342442      0.7571158 -1.105257e-01  0.5294021
##   [4790,]  1.0741516741  0.1767990      0.7571158 -5.036714e-01 -1.8889088
##   [4791,] -0.9999074140 -1.2120050      0.7571158 -5.495384e-01  0.5294021
##   [4792,]  0.3456598456  0.7323206     -1.3207918 -6.740346e-01  0.5294021
##   [4793,] -2.0014306337 -0.3787226     -1.3207918  1.227356e+01  0.5294021
##   [4794,]  0.2746471968  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [4795,] -0.4648638358  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [4796,] -0.0351148748  0.4545598     -1.3207918 -6.609297e-01  0.5294021
##   [4797,] -0.2089734288  1.0100814      0.7571158  1.908860e-01 -1.8889088
##   [4798,] -0.3289603182  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4799,] -0.2371336171 -0.3787226      0.7571158  4.660880e-01  0.5294021
##   [4800,] -1.3108938416  1.0100814     -1.3207918  2.302006e-01  0.5294021
##   [4801,] -0.6093378455 -0.1009618      0.7571158 -3.988326e-01 -1.8889088
##   [4802,] -1.2411055488  0.1767990     -1.3207918  8.723386e-01  0.5294021
##   [4803,]  1.1414912549 -0.9342442     -1.3207918 -1.879171e-02  0.5294021
##   [4804,] -0.8750231006  1.0100814      0.7571158  3.481443e-01  0.5294021
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##   [4805,]  1.6067465403  0.1767990     -1.3207918 -7.002443e-01  0.5294021
##   [4806,] -0.5260816365 -1.2120050      0.7571158  4.410650e+00  0.5294021
##   [4807,]  2.2385142436  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [4808,]  0.1497628834  1.0100814      0.7571158  1.395222e+00 -1.8889088
##   [4809,] -1.4125153908  0.1767990      0.7571158 -4.500143e-02  0.5294021
##   [4810,] -0.6472928819 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [4811,] -2.2230390722  0.4545598      0.7571158  8.604715e-02  0.5294021
##   [4812,] -0.5787289451  1.0100814      0.7571158  8.068143e-01  0.5294021
##   [4813,] -0.8162540119  1.0100814      0.7571158  3.874589e-01 -1.8889088
##   [4814,]  1.1659783752  0.1767990      0.7571158  1.253617e-01  0.5294021
##   [4815,] -0.5603636049  0.7323206      0.7571158  2.826200e-01 -1.8889088
##   [4816,]  2.0328224333  1.0100814      0.7571158 -3.280663e-01 -1.8889088
##   [4817,]  1.0178312974  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [4818,]  0.8256074032 -0.6564834      0.7571158 -1.498403e-01  0.5294021
##   [4819,] -0.9937856339 -1.4897658     -1.3207918  1.199960e+00  0.5294021
##   [4820,]  0.6578706293  1.0100814     -1.3207918 -8.029339e-01 -1.8889088
##   [4821,] -0.0596019951 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [4822,] -0.3718127787 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [4823,]  0.4423839708 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [4824,] -1.1541762718 -1.2120050      0.7571158  1.527581e+00  0.5294021
##   [4825,]  0.6505244932  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [4826,]  0.2770959088 -1.2120050      0.7571158 -6.740346e-01  0.5294021
##   [4827,] -1.9181744247  1.0100814     -1.3207918  1.147541e+00  0.5294021
##   [4828,] -1.4504704273  0.7323206      0.7571158  9.771774e-01  0.5294021
##   [4829,]  0.1705769356  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [4830,]  0.0273272819 -0.9342442      0.7571158  4.660880e-01  0.5294021
##   [4831,] -0.8199270799  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4832,] -0.8284975720  1.0100814     -1.3207918 -7.828082e-02  0.5294021
##   [4833,] -1.0097022621  0.1767990      0.7571158  2.052286e-02  0.5294021
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##   [4836,] -0.6999401905  1.0100814      0.7571158  7.216327e-01 -1.8889088
##   [4837,]  0.9051905441  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [4838,]  0.5893066925  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [4839,]  0.6468514251  1.0100814      0.7571158  1.511738e+00 -1.8889088
##   [4840,] -1.1872338842 -1.2120050      0.7571158  4.136686e-01  0.5294021
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##   [4843,] -1.5312779242  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4844,] -0.5909725053 -0.9342442      0.7571158 -6.347200e-01  0.5294021
##   [4845,] -1.4859767517 -0.6564834      0.7571158  6.102414e-01  0.5294021
##   [4846,]  1.2688242804 -0.1009618      0.7571158 -1.105257e-01  0.5294021
##   [4847,] -0.0889865394 -1.4897658     -1.3207918 -7.657686e-01  0.5294021
##   [4848,]  0.1779230717  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [4849,]  0.0322247060  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [4850,]  1.2198500398  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [4851,]  0.6407296451  0.1767990      0.7571158 -5.560909e-01  0.5294021
##   [4852,]  0.9100879682  0.4545598      0.7571158 -1.105257e-01 -1.8889088
##   [4853,]  1.0055877373  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4854,] -0.8750231006  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [4855,] -1.3280348258  1.0100814      0.7571158  1.239275e+00  0.5294021
##   [4856,]  0.0640579624 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [4857,]  0.6027746086  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [4858,] -1.8912385924  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [4859,] -0.3962998990 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [4860,] -0.7011645465  1.0100814     -1.3207918  5.840317e-01  0.5294021
##   [4861,]  0.9504917167 -1.2120050     -1.3207918 -4.250423e-01  0.5294021
##   [4862,] -0.4501715636 -0.1009618      0.7571158  6.430036e-01  0.5294021
##   [4863,] -1.1333622196  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [4864,] -0.6619851541 -1.4897658      0.7571158  2.287663e+00  0.5294021
##   [4865,]  0.5084991955 -0.1009618     -1.3207918 -7.121114e-02  0.5294021
##   [4866,] -1.4492460712 -0.6564834     -1.3207918 -2.808889e-01  0.5294021
##   [4867,] -1.0256188903 -0.6564834      0.7571158 -2.808889e-01  0.5294021
##   [4868,] -0.3228385381 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [4869,] -0.9411383253  1.0100814      0.7571158  6.888706e-01  0.5294021
##   [4870,] -0.5726071650 -1.4897658      0.7571158  1.003387e+00  0.5294021
##   [4871,] -0.3326333863  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4872,] -0.9901125659  0.7323206      0.7571158  7.412900e-01  0.5294021
##   [4873,]  1.1365938308 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [4874,] -1.6414699655  1.0100814      0.7571158  9.390496e+00  0.5294021
##   [4875,] -1.3965987626 -0.1009618     -1.3207918 -4.381471e-01  0.5294021
##   [4876,] -0.0853134714  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [4877,] -1.0158240422  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4878,] -0.8150296559 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [4879,]  1.4537020385  1.0100814      0.7571158 -5.429860e-01  0.5294021
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##   [4881,] -1.3672142183 -1.2120050      0.7571158 -4.119374e-01  0.5294021
##   [4882,] -1.9242962048  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [4883,] -0.7244273108  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [4884,]  0.8378509634 -1.4897658     -1.3207918 -8.575026e-01  0.5294021
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##   [4886,] -0.8064591638  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [4887,] -1.1100994553  1.0100814     -1.3207918 -5.167763e-01  0.5294021
##   [4888,] -1.1382596436  0.7323206      0.7571158  8.723386e-01 -1.8889088
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##   [4894,] -1.1688685440  1.0100814      0.7571158  5.964813e-01  0.5294021
##   [4895,] -0.6460685259 -1.4897658     -1.3207918  1.515714e-01  0.5294021
##   [4896,] -1.0880610470 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [4897,]  0.3689226099 -0.3787226     -1.3207918  7.418002e-03  0.5294021
##   [4898,] -1.5141369400  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [4899,] -0.4966970922 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [4900,]  1.0104851614  1.0100814     -1.3207918 -3.202034e-01  0.5294021
##   [4901,] -1.7271748865 -0.6564834      0.7571158  3.481443e-01 -1.8889088
##   [4902,]  0.3799418140 -0.3787226     -1.3207918 -2.441953e-01 -1.8889088
```

```
##   [4903,]  0.1362949672  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [4904,] -0.0375635868 -1.4897658      0.7571158 -6.019579e-01  0.5294021
##   [4905,] -0.7880938236  1.0100814      0.7571158 -6.347200e-01 -1.8889088
##   [4906,] -1.2215158526  1.0100814     -1.3207918 -4.905666e-01  0.5294021
##   [4907,]  1.7108168015  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [4908,] -0.3852806949  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [4909,] -0.9093050690 -0.1009618     -1.3207918  5.447171e-01  0.5294021
##   [4910,] -0.9142024930 -0.6564834      0.7571158  1.265484e+00  0.5294021
##   [4911,]  0.4448326828  1.0100814      0.7571158 -6.993007e-01  0.5294021
##   [4912,] -0.7758502634 -1.2120050     -1.3207918  3.362772e-02  0.5294021
##   [4913,] -1.8165528755  0.7323206      0.7571158 -2.415743e-01  0.5294021
##   [4914,] -1.3439514540 -1.2120050     -1.3207918 -1.432879e-01 -1.8889088
##   [4915,] -2.0124498378  1.0100814     -1.3207918  1.501372e+00  0.5294021
##   [4916,] -0.3473256584 -0.9342442      0.7571158 -6.085103e-01  0.5294021
##   [4917,]  0.6431783571 -0.3787226      0.7571158  7.412900e-01 -1.8889088
##   [4918,] -0.8848179487  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [4919,]  1.3900355258 -1.4897658     -1.3207918 -4.578044e-01  0.5294021
##   [4920,] -1.2190671406  1.0100814     -1.3207918  1.122569e-01 -1.8889088
##   [4921,] -1.6524891696  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [4922,] -0.7121837507  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [4923,]  0.8194856231  1.0100814     -1.3207918 -7.788734e-01  0.5294021
##   [4924,]  0.9896711091  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [4925,]  1.3067793168 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [4926,] -0.4930240241 -1.2120050      0.7571158  1.515714e-01  0.5294021
##   [4927,]  1.4206444261 -0.9342442     -1.3207918 -5.954054e-01  0.5294021
##   [4928,] -1.8043093154 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [4929,]  0.9321263765  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [4930,]  0.4791146512 -0.9342442     -1.3207918 -5.036714e-01  0.5294021
##   [4931,] -2.1397828633 -0.9342442     -1.3207918  2.575970e+00  0.5294021
##   [4932,] -0.1281659319 -1.4897658      0.7571158  8.243093e-01 -1.8889088
##   [4933,]  0.7129666499  0.1767990     -1.3207918  2.433054e-01  0.5294021
##   [4934,] -0.9937856339  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [4935,]  0.3934097302 -0.3787226      0.7571158  8.985483e-01  0.5294021
##   [4936,]  0.7876523668  1.0100814     -1.3207918 -5.691957e-01 -1.8889088
##   [4937,]  0.5709413523  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4938,] -0.5517931128  1.0100814      0.7571158 -3.189657e-02 -1.8889088
##   [4939,]  0.0126350098 -1.2120050      0.7571158  7.418002e-03 -1.8889088
##   [4940,]  1.3080036728  1.0100814      0.7571158 -6.085103e-01  0.5294021
##   [4941,]  0.5195183997  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4942,]  1.5051249911 -1.2120050      0.7571158 -3.739333e-01  0.5294021
##   [4943,] -1.8789950322  1.0100814      0.7571158  5.459039e+00  0.5294021
##   [4944,] -0.0816404033  0.1767990      0.7571158 -4.512520e-01  0.5294021
##   [4945,] -0.3509987265 -0.6564834     -1.3207918 -3.568970e-01 -1.8889088
##   [4946,]  0.4411596147  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [4947,] -0.6521903060 -0.3787226     -1.3207918  1.646763e-01  0.5294021
##   [4948,]  1.9128355439 -0.6564834     -1.3207918 -5.298811e-01  0.5294021
##   [4949,] -1.4125153908  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4950,] -0.8517603363 -0.3787226     -1.3207918  4.529831e-01  0.5294021
##   [4951,] -1.6255533373  1.0100814     -1.3207918 -5.686855e-03 -1.8889088
##   [4952,] -1.0219458223 -0.9342442      0.7571158  6.233463e-01  0.5294021
##   [4953,] -1.6084123531 -0.1009618     -1.3207918  8.068143e-01 -1.8889088
##   [4954,] -0.5762802331 -1.2120050      0.7571158 -3.988326e-01  0.5294021
##   [4955,]  0.5133966196  1.0100814     -1.3207918 -4.669778e-01  0.5294021
##   [4956,] -0.6411711018 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [4957,]  0.2379165164  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [4958,] -0.7048376146 -0.1009618     -1.3207918 -5.429860e-01  0.5294021
##   [4959,] -0.4391523595  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [4960,] -1.1884582402  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [4961,] -1.8226746556  0.4545598      0.7571158  2.182824e+00  0.5294021
##   [4962,] -2.0222446859 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##   [4963,]  0.6003258966  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##   [4964,] -1.1394839996  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [4965,] -1.2545734650  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [4966,] -1.5851495888  0.4545598      0.7571158  3.809064e-01 -1.8889088
##   [4967,] -0.4709856159  0.1767990      0.7571158  8.604715e-02  0.5294021
##   [4968,] -1.1015289632  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [4969,]  1.9189573239 -1.4897658      0.7571158  9.915200e-02  0.5294021
##   [4970,] -1.5631111806 -0.9342442     -1.3207918  5.185074e-01 -1.8889088
##   [4971,]  0.2868907569  0.7323206      0.7571158  1.419394e-01 -1.8889088
##   [4972,]  1.8675343713  1.0100814      0.7571158 -3.887025e-01 -1.8889088
##   [4973,]  1.3655484055 -0.3787226     -1.3207918 -6.871394e-01  0.5294021
##   [4974,]  2.2225976155 -0.6564834     -1.3207918 -1.105257e-01 -1.8889088
##   [4975,] -1.1749903241  0.7323206      0.7571158  1.515714e-01 -1.8889088
##   [4976,] -1.1884582402  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [4977,] -0.1599991882  1.0100814     -1.3207918 -6.609297e-01  0.5294021
##   [4978,] -1.9659243092  1.0100814      0.7571158  8.068143e-01 -1.8889088
##   [4979,] -0.9570549535 -1.2120050      0.7571158  1.055807e+00 -1.8889088
##   [4980,] -0.0853134714  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [4981,] -1.1039776752 -0.9342442      0.7571158 -2.546791e-01  0.5294021
##   [4982,] -0.7880938236  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [4983,] -0.3448769464 -0.9342442      0.7571158  8.723386e-01 -1.8889088
##   [4984,] -0.0926596075  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [4985,]  0.9786519050  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [4986,] -0.0302174507 -1.4897658     -1.3207918 -7.150266e-01  0.5294021
##   [4987,] -1.1994774443  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [4988,]  0.0738528105 -0.1009618      0.7571158 -4.500143e-02  0.5294021
##   [4989,] -0.4783317520  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [4990,] -1.2570221770 -1.4897658     -1.3207918  2.379397e+00  0.5294021
##   [4991,] -1.1223430154 -1.2120050     -1.3207918  8.604715e-02  0.5294021
##   [4992,]  0.8427483874 -0.9342442     -1.3207918 -3.189657e-02  0.5294021
##   [4993,]  1.8589638792 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [4994,] -0.0706211992  1.0100814      0.7571158  6.871360e-01  0.5294021
##   [4995,]  0.1901666318  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [4996,] -1.6096367091  1.0100814     -1.3207918  1.265484e+00  0.5294021
##   [4997,] -1.6537135256  1.0100814      0.7571158  1.396533e+00 -1.8889088
##   [4998,] -1.1211186594  0.7323206     -1.3207918  1.199960e+00 -1.8889088
##   [4999,]  0.2807689769  1.0100814     -1.3207918 -1.629451e-01  0.5294021
##   [5000,] -0.0681724872  1.0100814      0.7571158 -5.691957e-01  0.5294021
```

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##   [5001,] -0.6595364421  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [5002,] -0.6656582221  1.0100814      0.7571158 -8.115773e-02  0.5294021
##   [5003,] -0.8150296559  1.0100814      0.7571158  1.908860e-01 -1.8889088
##   [5004,]  1.0288505016 -1.2120050      0.7571158 -7.002443e-01  0.5294021
##   [5005,] -0.2554989574 -0.3787226      0.7571158  4.687090e-01  0.5294021
##   [5006,]  0.7399024822  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [5007,]  0.4485057508 -1.4897658      0.7571158  5.447171e-01  0.5294021
##   [5008,] -0.5113893643 -0.9342442     -1.3207918 -4.563367e-01 -1.8889088
##   [5009,] -0.2897809258  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [5010,] -1.2986502815 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [5011,] -1.8606296920 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [5012,]  1.4451315464 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [5013,] -0.5836263692  1.0100814      0.7571158  3.362772e-02 -1.8889088
##   [5014,] -0.9019589329  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [5015,]  0.1791474277 -0.6564834      0.7571158 -2.415743e-01 -1.8889088
##   [5016,] -2.2010006640 -1.4897658     -1.3207918  1.211631e+01  0.5294021
##   [5017,] -1.2962015695  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5018,] -1.4455730032  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [5019,] -0.1734671044 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [5020,] -1.6365725414 -0.3787226      0.7571158 -1.105257e-01 -1.8889088
##   [5021,]  0.1473141713 -1.2120050     -1.3207918 -4.591149e-01  0.5294021
##   [5022,] -0.3950755430  1.0100814      0.7571158 -8.050831e-01 -1.8889088
##   [5023,] -1.1517275598  1.0100814     -1.3207918  3.481443e-01 -1.8889088
##   [5024,] -0.2383579732 -1.4897658      0.7571158 -2.677840e-01  0.5294021
##   [5025,]  0.2538331446  1.0100814      0.7571158 -1.236306e-01 -1.8889088
##   [5026,]  0.2758715528  1.0100814     -1.3207918  3.362772e-02 -1.8889088
##   [5027,] -1.5729060287 -0.3787226     -1.3207918 -2.141268e-02  0.5294021
##   [5028,]  0.3248457934  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [5029,] -1.4663870554  0.4545598      0.7571158  8.604715e-02  0.5294021
##   [5030,]  1.1721001552  1.0100814      0.7571158 -8.431600e-02  0.5294021
##   [5031,]  0.5635952162 -1.4897658     -1.3207918 -6.412724e-01  0.5294021
##   [5032,] -1.2300863447  0.4545598      0.7571158  1.036673e+00 -1.8889088
##   [5033,]  0.1020129988 -1.4897658      0.7571158  2.032046e-01  0.5294021
##   [5034,]  1.4622725306  1.0100814      0.7571158 -8.050831e-01  0.5294021
##   [5035,] -0.6840235623 -1.4897658      0.7571158 -4.905666e-01 -1.8889088
##   [5036,] -0.2946783498  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5037,] -1.5288292122 -0.3787226      0.7571158 -2.415743e-01 -1.8889088
##   [5038,] -2.3222119094 -0.6564834      0.7571158 -4.381471e-01 -1.8889088
##   [5039,] -0.2873322137 -0.6564834      0.7571158  4.005637e-01 -1.8889088
##   [5040,]  1.7683615342  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [5041,]  0.4631980230  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [5042,] -0.6668825781  1.0100814      0.7571158 -5.679901e-01 -1.8889088
##   [5043,]  0.0616092503  1.0100814      0.7571158  2.564103e-01 -1.8889088
##   [5044,] -1.2068235804 -0.6564834      0.7571158  3.744850e-01 -1.8889088
##   [5045,]  0.6578706293  0.4545598      0.7571158 -4.381471e-01 -1.8889088
##   [5046,] -0.7170811747 -0.6564834     -1.3207918  3.743540e-01  0.5294021
##   [5047,] -0.3607935746  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5048,] -1.4076179668  1.0100814     -1.3207918  4.398783e-01  0.5294021
##   [5049,] -0.8701256765 -0.3787226      0.7571158  1.450190e-01  0.5294021
##   [5050,] -0.1024544556 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [5051,] -1.3084451296 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [5052,] -0.3350820983  0.4545598     -1.3207918  4.791929e-01  0.5294021
##   [5053,] -0.5848507252 -0.1009618      0.7571158  2.826200e-01 -1.8889088
##   [5054,] -1.0415355185 -0.6564834      0.7571158  8.604715e-02  0.5294021
##   [5055,] -1.6316751174  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [5056,] -0.7648310593  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [5057,]  0.0236542139 -0.3787226      0.7571158  2.182824e+00  0.5294021
##   [5058,]  0.0003914496 -1.2120050     -1.3207918  2.052286e-02  0.5294021
##   [5059,] -0.2530502453  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [5060,] -1.9059308646  1.0100814      0.7571158 -2.743364e-01  0.5294021
##   [5061,] -0.7342221589 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [5062,]  1.0900683023 -0.3787226     -1.3207918 -5.036714e-01  0.5294021
##   [5063,] -0.4734343279  1.0100814      0.7571158 -5.955496e-01 -1.8889088
##   [5064,] -0.6460685259 -0.6564834      0.7571158  8.604715e-02  0.5294021
##   [5065,] -0.0375635868 -0.1009618      0.7571158 -5.810628e-02  0.5294021
##   [5066,] -1.1884582402 -1.2120050      0.7571158  1.986251e+00 -1.8889088
##   [5067,] -0.4342549354 -1.4897658      0.7571158  1.488267e+00  0.5294021
##   [5068,]  0.5929797605 -0.1009618      0.7571158 -2.808889e-01  0.5294021
##   [5069,] -0.6117865575  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [5070,] -1.3721116423 -0.9342442      0.7571158 -4.381471e-01 -1.8889088
##   [5071,]  0.7460242623  0.4545598     -1.3207918 -5.036714e-01 -1.8889088
##   [5072,]  1.3508561333 -0.9342442     -1.3207918 -5.933086e-01  0.5294021
##   [5073,] -0.0424610109  1.0100814      0.7571158  9.913890e-02  0.5294021
##   [5074,] -0.6228057616  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [5075,]  0.5256401797  0.1767990      0.7571158 -1.760500e-01  0.5294021
##   [5076,]  1.1427156109 -0.9342442     -1.3207918 -3.070986e-01 -1.8889088
##   [5077,] -0.8860423047  0.4545598      0.7571158 -2.677840e-01 -1.8889088
##   [5078,]  0.9321263765  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [5079,] -0.3485500144  1.0100814     -1.3207918  8.068143e-01  0.5294021
##   [5080,] -0.2738642976 -1.4897658      0.7571158 -1.760500e-01 -1.8889088
##   [5081,] -0.6240301176 -0.6564834      0.7571158  5.054026e-01  0.5294021
##   [5082,]  0.8562163036 -1.2120050      0.7571158  2.170957e-01 -1.8889088
##   [5083,] -0.4771073959 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [5084,]  0.2930125370 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [5085,] -0.6938184105  1.0100814      0.7571158 -4.512520e-01 -1.8889088
##   [5086,] -0.7819720435 -0.3787226     -1.3207918 -4.430484e-01 -1.8889088
##   [5087,] -0.6142352695  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [5088,]  2.3891100334 -1.2120050      0.7571158  1.777811e-01  0.5294021
##   [5089,] -1.0745931309 -0.6564834      0.7571158 -4.500143e-02  0.5294021
##   [5090,]  0.2403652284 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [5091,] -0.7146324627  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [5092,]  1.2516832962 -1.2120050      0.7571158 -2.284694e-01  0.5294021
##   [5093,]  1.0251774335 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [5094,]  1.3679971175  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [5095,]  0.3370893535  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [5096,] -1.2594708890 -1.2120050      0.7571158  1.527581e+00  0.5294021
##   [5097,] -1.6047392850 -1.4897658      0.7571158  5.578220e-01 -1.8889088
##   [5098,] -0.0779673353  1.0100814      0.7571158  3.612491e-01  0.5294021
```

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##   [5099,] -0.1881593766  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [5100,] -0.2053003608  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5101,] -1.0562277907  1.0100814      0.7571158  7.294229e-02  0.5294021
##   [5102,] -0.4917996681 -0.9342442      0.7571158  2.170957e-01  0.5294021
##   [5103,] -1.0807149110 -0.6564834      0.7571158 -4.643569e-01  0.5294021
##   [5104,] -1.2190671406  1.0100814      0.7571158  5.983743e-02 -1.8889088
##   [5105,] -0.6668825781 -1.2120050      0.7571158  8.854434e-01  0.5294021
##   [5106,] -1.5716816727 -1.2120050     -1.3207918 -5.705062e-01  0.5294021
##   [5107,]  0.3811661700  0.1767990      0.7571158 -9.846924e-02  0.5294021
##   [5108,] -0.3081462660 -1.4897658      0.7571158  6.101890e-01  0.5294021
##   [5109,] -1.3096694856 -0.9342442     -1.3207918 -5.167763e-01  0.5294021
##   [5110,]  1.5479774516  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [5111,]  0.7533703984  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [5112,] -1.5373997043  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [5113,]  0.0199811458  0.7323206     -1.3207918 -7.002443e-01 -1.8889088
##   [5114,] -2.0308151780 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [5115,] -1.6843224260 -0.1009618     -1.3207918 -1.760500e-01  0.5294021
##   [5116,]  0.9725301249 -0.9342442      0.7571158 -3.475271e-01  0.5294021
##   [5117,]  0.8696842197  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [5118,] -0.2640694495  0.7323206      0.7571158 -3.726229e-01  0.5294021
##   [5119,] -1.2545734650  1.0100814      0.7571158 -1.629451e-01 -1.8889088
##   [5120,]  1.6177657444 -0.3787226      0.7571158 -5.691957e-01  0.5294021
##   [5121,]  0.4068776463 -1.2120050     -1.3207918 -5.902290e-01  0.5294021
##   [5122,] -0.4207870193 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [5123,]  0.6762359695  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [5124,] -1.1027533192 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [5125,]  0.6199155928 -0.9342442     -1.3207918 -3.595180e-01  0.5294021
##   [5126,] -0.6546390180  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [5127,] -0.3485500144  0.1767990      0.7571158  7.937094e-01  0.5294021
##   [5128,]  0.1460898153  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [5129,] -0.4636394798 -0.1009618     -1.3207918 -2.153646e-01  0.5294021
##   [5130,] -0.0069546865 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [5131,] -0.4954727362 -0.6564834     -1.3207918  1.397043e-02 -1.8889088
##   [5132,] -0.9129781370  0.4545598      0.7571158  1.122569e-01  0.5294021
##   [5133,] -1.2668170251  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [5134,]  0.5660439282 -0.3787226      0.7571158  4.791929e-01  0.5294021
##   [5135,] -0.1489799841  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [5136,] -0.8652282524 -0.9342442      0.7571158  4.791929e-01  0.5294021
##   [5137,]  0.2391408724  0.1767990      0.7571158  2.052286e-02  0.5294021
##   [5138,] -0.1220441518 -1.4897658     -1.3207918 -3.988326e-01  0.5294021
##   [5139,]  0.0628336063  1.0100814      0.7571158  1.908860e-01 -1.8889088
##   [5140,] -0.7525874991  1.0100814      0.7571158  2.039909e-01 -1.8889088
##   [5141,]  0.7864280108  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [5142,]  0.0505900462 -1.4897658      0.7571158 -4.905666e-01  0.5294021
##   [5143,] -0.2714155855 -1.2120050     -1.3207918 -5.102239e-01  0.5294021
##   [5144,] -0.9729715817  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [5145,]  0.2734228408  1.0100814      0.7571158 -2.317325e-01  0.5294021
##   [5146,]  0.4289160546  1.0100814     -1.3207918 -7.657686e-01  0.5294021
##   [5147,] -1.0672469948 -0.9342442      0.7571158  2.170957e-01  0.5294021
##   [5148,] -0.3191654701 -0.1009618     -1.3207918 -4.643569e-01  0.5294021
##   [5149,] -0.5652610290 -0.3787226      0.7571158  3.820931e+00  0.5294021
##   [5150,]  1.3655484055  1.0100814     -1.3207918 -5.429860e-01 -1.8889088
##   [5151,] -1.8471617759 -1.2120050     -1.3207918  7.294229e-02 -1.8889088
##   [5152,]  0.6860308176  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [5153,] -0.4048703911 -1.4897658     -1.3207918 -6.609297e-01  0.5294021
##   [5154,]  1.4267662062 -1.4897658      0.7571158 -5.298811e-01  0.5294021
##   [5155,] -0.0032816184  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [5156,] -1.4712844795 -1.2120050     -1.3207918 -1.088221e-01 -1.8889088
##   [5157,] -0.1073518796 -1.4897658      0.7571158 -3.333083e-01  0.5294021
##   [5158,] -1.2215158526  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [5159,] -0.9325678332 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [5160,] -1.4492460712  1.0100814      0.7571158  4.005637e-01  0.5294021
##   [5161,]  1.0961900824 -0.3787226      0.7571158  7.806046e-01 -1.8889088
##   [5162,] -1.3574193702  1.0100814     -1.3207918  3.624869e-02  0.5294021
##   [5163,]  0.0799745905  1.0100814      0.7571158  1.553791e+00  0.5294021
##   [5164,]  1.5357338915  1.0100814      0.7571158 -5.489766e-01  0.5294021
##   [5165,] -0.0461340789  1.0100814      0.7571158  5.316123e-01 -1.8889088
##   [5166,] -1.5667842486  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [5167,]  0.8243830472  1.0100814      0.7571158 -3.354051e-01  0.5294021
##   [5168,]  2.3229948086 -0.9342442      0.7571158 -3.464131e-01  0.5294021
##   [5169,]  0.9480430046 -1.2120050     -1.3207918 -3.333083e-01  0.5294021
##   [5170,]  0.1975127679  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5171,] -0.8578821164  1.0100814     -1.3207918 -4.381471e-01 -1.8889088
##   [5172,]  0.6186912368 -0.9342442     -1.3207918 -5.189779e-01  0.5294021
##   [5173,]  1.1463886789 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [5174,] -0.6215814056  0.1767990     -1.3207918 -9.742085e-02  0.5294021
##   [5175,] -0.1085762357 -1.4897658      0.7571158  8.047175e-01 -1.8889088
##   [5176,] -1.0758174869  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [5177,] -0.1489799841 -1.2120050     -1.3207918  8.723386e-01  0.5294021
##   [5178,] -1.6255533373  1.0100814      0.7571158  4.803796e+00  0.5294021
##   [5179,]  0.5293132478 -0.3787226      0.7571158 -3.070986e-01 -1.8889088
##   [5180,] -0.0045059744 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [5181,]  0.8978444081  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [5182,] -1.0072535501  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5183,] -2.0528535863 -0.9342442      0.7571158  8.723386e-01  0.5294021
##   [5184,] -0.0987813875  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [5185,]  0.3603521178  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [5186,]  0.3309675735  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [5187,]  0.4778902952 -0.6564834      0.7571158  5.565115e-01  0.5294021
##   [5188,] -0.5273059925  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [5189,] -1.0268432463 -1.2120050      0.7571158  4.791929e-01  0.5294021
##   [5190,] -0.4966970922  1.0100814      0.7571158  7.418002e-03 -1.8889088
##   [5191,]  0.8917226280  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5192,] -0.4416010715 -0.6564834     -1.3207918 -2.415743e-01  0.5294021
##   [5193,] -0.1440825601 -0.9342442      0.7571158  5.185074e-01 -1.8889088
##   [5194,] -0.5677097410  1.0100814     -1.3207918 -2.202789e-01  0.5294021
##   [5195,]  0.2819933329  0.1767990      0.7571158 -5.839387e-01  0.5294021
##   [5196,]  0.6199155928  1.0100814      0.7571158 -4.500143e-02  0.5294021
```

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##   [5197,] -0.8897153727 -0.3787226      0.7571158 -1.105257e-01  0.5294021
##   [5198,] -0.1428582040 -0.1009618      0.7571158  2.052286e-02 -1.8889088
##   [5199,] -0.7709528394 -1.4897658     -1.3207918 -7.264540e-01  0.5294021
##   [5200,]  0.5133966196  1.0100814      0.7571158 -3.444474e-01  0.5294021
##   [5201,] -0.8456385562 -0.3787226      0.7571158 -5.167763e-01 -1.8889088
##   [5202,] -0.7525874991  0.4545598      0.7571158 -4.381471e-01 -1.8889088
##   [5203,] -1.0513303666  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [5204,] -1.6133097771 -1.4897658      0.7571158  4.267734e-01  0.5294021
##   [5205,]  0.7974472149 -0.1009618      0.7571158 -6.485325e-01  0.5294021
##   [5206,]  0.1362949672 -0.6564834     -1.3207918 -6.216151e-01  0.5294021
##   [5207,] -0.7697284833  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [5208,]  1.8357011150  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [5209,]  0.1620064435  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [5210,] -0.7023889026 -1.2120050      0.7571158  2.379397e+00  0.5294021
##   [5211,] -0.2726399416  0.1767990      0.7571158  4.136686e-01 -1.8889088
##   [5212,]  0.3848392381 -0.1009618      0.7571158  3.088297e-01  0.5294021
##   [5213,] -0.7195298868  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [5214,] -0.7709528394 -1.2120050     -1.3207918 -5.823006e-01 -1.8889088
##   [5215,] -1.0880610470 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [5216,]  0.3126022332  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [5217,]  0.7203127860  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5218,] -0.0583776391  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [5219,]  0.4803390072  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [5220,] -0.4330305794  1.0100814      0.7571158 -2.677840e-01 -1.8889088
##   [5221,] -1.1247917275 -0.9342442      0.7571158  4.673257e-02  0.5294021
##   [5222,]  1.3533048453  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [5223,] -0.6742287142  1.0100814      0.7571158  1.396533e+00  0.5294021
##   [5224,]  0.2440382964 -1.4897658     -1.3207918  1.908860e-01  0.5294021
##   [5225,]  0.5182940436  1.0100814      0.7571158 -2.939937e-01 -1.8889088
##   [5226,] -1.2704900932 -0.1009618      0.7571158  9.915200e-02  0.5294021
##   [5227,]  0.9113123242  1.0100814      0.7571158 -6.085103e-01  0.5294021
##   [5228,] -1.2655926691 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [5229,] -1.2068235804  0.1767990      0.7571158 -4.500143e-02 -1.8889088
##   [5230,] -0.9864394979 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [5231,]  0.4142237824  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [5232,] -0.9301191212  1.0100814     -1.3207918  1.908860e-01 -1.8889088
##   [5233,] -1.2423299048 -1.2120050     -1.3207918 -5.036714e-01  0.5294021
##   [5234,]  0.5648195722 -1.4897658     -1.3207918  2.052286e-02  0.5294021
##   [5235,] -1.7577837868 -0.9342442     -1.3207918  1.646763e-01  0.5294021
##   [5236,] -0.1955055127  0.4545598      0.7571158  4.267734e-01  0.5294021
##   [5237,] -0.8480872683 -1.2120050      0.7571158 -7.121114e-02 -1.8889088
##   [5238,]  2.3315653007 -1.4897658     -1.3207918 -5.429860e-01  0.5294021
##   [5239,]  1.6202144565 -0.9342442      0.7571158 -2.677840e-01  0.5294021
##   [5240,] -1.1198943034  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [5241,]  0.0150837218 -0.9342442      0.7571158  3.874589e-01  0.5294021
##   [5242,] -1.1480544917  0.4545598      0.7571158 -4.819829e-01 -1.8889088
##   [5243,]  0.4509544629  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [5244,] -0.4109921712 -1.2120050     -1.3207918 -7.919783e-01  0.5294021
##   [5245,]  0.0750771665 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [5246,]  0.1730256476  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [5247,] -0.3767102028 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##   [5248,] -0.7611579912  1.0100814     -1.3207918 -6.497906e-01 -1.8889088
##   [5249,] -0.4354792915 -1.4897658      0.7571158 -1.879171e-02  0.5294021
##   [5250,] -1.4272076630 -1.2120050      0.7571158  6.757657e-01  0.5294021
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##   [5253,]  1.7071437335 -0.1009618      0.7571158 -3.726229e-01 -1.8889088
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##   [5255,]  0.0616092503  1.0100814     -1.3207918 -2.677840e-01  0.5294021
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##   [5257,] -1.0635739268  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [5258,] -0.6081134895 -0.3787226      0.7571158  3.362772e-02 -1.8889088
##   [5259,] -1.2594708890 -0.6564834     -1.3207918 -4.500143e-02  0.5294021
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##   [5261,]  2.3083025365  1.0100814      0.7571158 -4.512520e-01 -1.8889088
##   [5262,] -1.2680413811  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [5263,] -0.4330305794  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [5264,] -0.9913369219  0.7323206     -1.3207918 -3.267559e-01  0.5294021
##   [5265,] -1.3096694856 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [5266,]  0.9015174761  1.0100814     -1.3207918 -6.908815e-02  0.5294021
##   [5267,] -0.9595036655  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [5268,]  1.7830538063  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [5269,] -0.9117537810 -1.4897658      0.7571158 -7.121114e-02 -1.8889088
##   [5270,] -1.0525547226  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [5271,]  1.4377854103  0.4545598      0.7571158 -1.105257e-01 -1.8889088
##   [5272,] -1.6096367091  1.0100814      0.7571158  3.088297e-01  0.5294021
##   [5273,] -1.5288292122 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [5274,] -0.7905425356  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5275,]  0.7705113826  1.0100814      0.7571158  3.874589e-01  0.5294021
##   [5276,] -1.8753219642  0.7323206      0.7571158  8.723386e-01  0.5294021
##   [5277,]  1.4659455987 -0.6564834     -1.3207918 -3.857277e-01  0.5294021
##   [5278,] -0.8946127968  1.0100814     -1.3207918 -3.464131e-01  0.5294021
##   [5279,]  0.0640579624 -0.6564834      0.7571158 -2.416791e-01  0.5294021
##   [5280,] -0.0681724872 -0.1009618     -1.3207918 -5.691957e-01  0.5294021
##   [5281,] -1.2374324808  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5282,]  1.3900355258 -1.4897658     -1.3207918 -3.660704e-01  0.5294021
##   [5283,] -0.7452413631  1.0100814      0.7571158  1.331009e+00 -1.8889088
##   [5284,]  0.3872879501 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [5285,] -0.8027860957 -0.1009618     -1.3207918 -1.879171e-02  0.5294021
##   [5286,]  1.9005919837 -1.2120050      0.7571158 -3.398607e-01  0.5294021
##   [5287,] -0.0216469586  1.0100814      0.7571158 -2.004775e-01  0.5294021
##   [5288,]  1.9716046325  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [5289,]  1.0863952342  1.0100814      0.7571158 -5.810628e-02  0.5294021
##   [5290,] -0.5689340970  1.0100814     -1.3207918  7.412900e-01  0.5294021
##   [5291,] -0.3816076268  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [5292,] -0.9386896133 -1.2120050      0.7571158 -3.857277e-01  0.5294021
##   [5293,]  0.7949985029  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [5294,]  0.3591277618  1.0100814     -1.3207918 -4.663953e-02  0.5294021
```

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##   [5295,] -0.6681069342 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [5296,] -1.1798877481 -0.3787226      0.7571158  4.693642e-01 -1.8889088
##   [5297,] -1.2570221770  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [5298,] -0.5407739087  1.0100814      0.7571158 -2.677840e-01 -1.8889088
##   [5299,]  1.1072092865 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [5300,] -0.7807476875 -1.2120050     -1.3207918 -3.464131e-01  0.5294021
##   [5301,]  1.0410940617  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [5302,]  0.2403652284  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5303,]  0.4889094993  1.0100814     -1.3207918  6.502112e-01  0.5294021
##   [5304,] -0.6632095101 -0.9342442      0.7571158  2.957249e-01 -1.8889088
##   [5305,] -1.0660226388  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [5306,]  0.8586650156  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [5307,] -0.6827992063  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5308,] -1.6622840177  1.0100814      0.7571158 -2.717882e-02  0.5294021
##   [5309,]  0.4032045783  0.4545598      0.7571158 -2.415743e-01  0.5294021
##   [5310,] -0.2126464969  1.0100814      0.7571158 -5.810628e-02  0.5294021
##   [5311,]  1.0741516741  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [5312,] -0.5762802331 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [5313,] -0.4966970922 -0.9342442      0.7571158 -3.063123e-01  0.5294021
##   [5314,]  0.1056860668 -0.3787226     -1.3207918  6.102414e-01 -1.8889088
##   [5315,] -1.1149968794 -0.1009618     -1.3207918  1.193408e+00  0.5294021
##   [5316,] -0.5848507252  0.1767990      0.7571158 -1.105257e-01  0.5294021
##   [5317,] -0.5358764846  0.4545598      0.7571158 -5.954054e-01  0.5294021
##   [5318,] -0.8823692366 -1.4897658      0.7571158 -4.643569e-01  0.5294021
##   [5319,] -0.5848507252 -1.4897658     -1.3207918 -5.390545e-01  0.5294021
##   [5320,]  0.2171024641  1.0100814      0.7571158 -4.014535e-01 -1.8889088
##   [5321,]  1.5271633994 -1.2120050      0.7571158 -4.643569e-01  0.5294021
##   [5322,] -0.5860750812  1.0100814     -1.3207918  2.585595e-01 -1.8889088
##   [5323,] -1.6218802692 -0.1009618      0.7571158  9.771774e-01  0.5294021
##   [5324,]  1.4990032110  1.0100814      0.7571158 -1.396912e-02  0.5294021
##   [5325,]  0.8500945235  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [5326,]  0.6750116135 -0.6564834      0.7571158 -2.415743e-01  0.5294021
##   [5327,] -0.2444797532 -0.9342442      0.7571158 -5.691957e-01  0.5294021
##   [5328,] -0.3436525904  1.0100814      0.7571158 -4.547248e-01  0.5294021
##   [5329,]  1.1708757992 -1.4897658      0.7571158 -9.742085e-02  0.5294021
##   [5330,] -1.2496760409 -1.4897658      0.7571158 -4.381471e-01 -1.8889088
##   [5331,]  0.9309020204 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [5332,] -0.9276704092  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5333,] -0.5444469767 -1.2120050     -1.3207918 -5.823006e-01  0.5294021
##   [5334,] -0.8664526085 -1.4897658     -1.3207918 -1.105257e-01 -1.8889088
##   [5335,]  1.0215043655  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [5336,]  0.0640579624  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5337,] -0.9044076449  1.0100814      0.7571158  2.838067e+00 -1.8889088
##   [5338,] -0.9007345769  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [5339,] -1.4296563750  0.7323206     -1.3207918  4.791929e-01  0.5294021
##   [5340,]  1.0361966377  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [5341,]  0.5684926402  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [5342,]  0.5256401797 -0.9342442     -1.3207918 -2.559896e-01  0.5294021
##   [5343,] -1.6794250019  0.1767990      0.7571158 -1.105257e-01 -1.8889088
##   [5344,] -1.5643355366  0.7323206     -1.3207918 -1.760500e-01 -1.8889088
##   [5345,]  0.2354678043 -0.9342442      0.7571158 -4.643569e-01  0.5294021
##   [5346,]  0.4607493110 -0.6564834     -1.3207918 -6.085103e-01  0.5294021
##   [5347,] -0.6362736778 -0.9342442      0.7571158 -2.415743e-01  0.5294021
##   [5348,] -0.6864722744  0.1767990      0.7571158 -4.500143e-02 -1.8889088
##   [5349,]  1.2908626886  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [5350,] -0.9362409013 -0.9342442      0.7571158  6.102414e-01 -1.8889088
##   [5351,]  0.9260045964  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [5352,] -1.3831308465 -1.4897658      0.7571158  3.481443e-01 -1.8889088
##   [5353,] -0.3191654701  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5354,] -0.2799860776  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [5355,] -0.8187027239  0.4545598      0.7571158  5.447171e-01 -1.8889088
##   [5356,] -1.1370352876 -0.3787226     -1.3207918  2.826200e-01  0.5294021
##   [5357,]  0.7129666499 -0.1009618     -1.3207918 -2.415743e-01  0.5294021
##   [5358,]  2.4809367345 -1.2120050      0.7571158 -1.629451e-01  0.5294021
##   [5359,] -0.9509331734  1.0100814      0.7571158  2.695151e-01  0.5294021
##   [5360,] -0.4440497836 -0.9342442      0.7571158 -2.844010e-01  0.5294021
##   [5361,]  1.3496317773 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##   [5362,]  0.6076720327  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [5363,]  1.0998631504  1.0100814      0.7571158  8.474976e-02 -1.8889088
##   [5364,] -1.6243289813 -0.1009618     -1.3207918  2.826200e-01  0.5294021
##   [5365,]  0.9945685332  1.0100814      0.7571158 -3.653366e-01  0.5294021
##   [5366,] -0.7207542428 -0.9342442     -1.3207918 -5.954054e-01  0.5294021
##   [5367,] -0.5811776571  1.0100814      0.7571158 -3.882438e-01  0.5294021
##   [5368,] -1.2300863447 -0.6564834      0.7571158  2.170957e-01  0.5294021
##   [5369,] -0.0902108954  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [5370,] -1.7320723105 -0.6564834      0.7571158  1.421930e+00  0.5294021
##   [5371,] -0.7415682950 -1.4897658      0.7571158 -1.236306e-01  0.5294021
##   [5372,] -0.7036132586 -0.9342442      0.7571158  1.134436e+00 -1.8889088
##   [5373,] -1.2227402086 -1.4897658      0.7571158  5.447171e-01  0.5294021
##   [5374,]  2.0181301611  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [5375,]  0.6003258966  1.0100814     -1.3207918 -6.085103e-01 -1.8889088
##   [5376,] -1.6071879971  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5377,] -1.3268104698  0.1767990      0.7571158  1.090593e-01  0.5294021
##   [5378,]  1.6361310846 -0.1009618      0.7571158 -3.601470e-01  0.5294021
##   [5379,]  0.7313319901 -1.4897658     -1.3207918 -4.895182e-01  0.5294021
##   [5380,] -0.0730699112  1.0100814      0.7571158 -2.153646e-01 -1.8889088
##   [5381,] -1.4076179668  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [5382,]  0.3297432174  1.0100814      0.7571158  6.888706e-01  0.5294021
##   [5383,] -1.3219130458 -1.4897658     -1.3207918 -1.694976e-01 -1.8889088
##   [5384,] -0.1453069161  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [5385,] -0.5236329245  1.0100814     -1.3207918 -6.347200e-01 -1.8889088
##   [5386,] -0.6730043582 -0.9342442      0.7571158  1.147541e+00  0.5294021
##   [5387,]  0.4068776463  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [5388,]  1.4573751066 -0.9342442     -1.3207918 -7.657686e-01  0.5294021
##   [5389,]  0.2183268202 -1.2120050      0.7571158 -2.546791e-01 -1.8889088
##   [5390,] -0.7060619706 -0.3787226      0.7571158 -1.760500e-01 -1.8889088
##   [5391,]  0.6223643048  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [5392,]  0.6297104409  1.0100814      0.7571158  2.170957e-01  0.5294021
```

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##   [5393,] -0.3497743705  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [5394,] -0.5517931128 -0.3787226     -1.3207918  6.443141e-01  0.5294021
##   [5395,] -0.9105294250  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5396,] -1.4002718307  0.1767990     -1.3207918  2.052286e-02  0.5294021
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##   [5398,] -0.6338249658 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [5399,] -1.6439186775 -1.2120050      0.7571158  1.646763e-01  0.5294021
##   [5400,] -1.2264132766  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [5401,] -0.6252544737  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5402,]  0.7215371420  0.4545598     -1.3207918 -2.415743e-01  0.5294021
##   [5403,]  1.3129010969  1.0100814      0.7571158  2.302006e-01  0.5294021
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##   [5406,] -1.7834952631 -0.1009618      0.7571158  2.051776e+00  0.5294021
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##   [5409,] -0.0816404033  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [5410,] -0.9644010896 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [5411,]  0.1546603074 -1.2120050      0.7571158 -1.629451e-01  0.5294021
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##   [5413,] -0.5187355004  1.0100814     -1.3207918 -2.415743e-01  0.5294021
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##   [5415,]  0.2881151130 -1.4897658      0.7571158 -3.189657e-02  0.5294021
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##   [5417,] -0.5995429974  0.1767990      0.7571158  2.170957e-01  0.5294021
##   [5418,] -0.2983514179 -0.9342442     -1.3207918  2.957249e-01  0.5294021
##   [5419,] -1.0892854031 -0.6564834      0.7571158  1.855203e+00  0.5294021
##   [5420,] -0.5701584530 -0.1009618     -1.3207918 -6.216151e-01  0.5294021
##   [5421,] -0.3203898261 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##   [5422,] -0.4318062234 -1.4897658      0.7571158  2.826200e-01 -1.8889088
##   [5423,] -1.6745275779 -1.4897658     -1.3207918  6.639713e-01 -1.8889088
##   [5424,]  0.9994659572  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [5425,]  1.0557863339 -0.1009618      0.7571158 -3.595180e-01  0.5294021
##   [5426,] -1.3647655063 -0.6564834     -1.3207918  1.908860e-01 -1.8889088
##   [5427,] -0.9190999171 -0.9342442      0.7571158  3.481443e-01  0.5294021
##   [5428,] -0.4134408832  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [5429,] -0.7489144311 -1.2120050      0.7571158  8.604715e-02 -1.8889088
##   [5430,]  0.4766659392  1.0100814     -1.3207918  4.136686e-01 -1.8889088
##   [5431,] -0.3399795223 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##   [5432,]  0.3383137095 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##   [5433,] -0.9570549535 -1.4897658     -1.3207918  7.418002e-03  0.5294021
##   [5434,] -0.7636067033  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5435,] -0.8444142002  1.0100814     -1.3207918 -3.070986e-01  0.5294021
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##   [5438,] -1.3782334224 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [5439,] -1.3194643337  1.0100814     -1.3207918 -2.415743e-01  0.5294021
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##   [5442,]  0.3603521178 -0.1009618     -1.3207918 -4.500143e-02  0.5294021
##   [5443,] -0.7207542428  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [5444,] -1.7492132947  0.4545598      0.7571158 -6.347200e-01  0.5294021
##   [5445,] -0.1073518796  1.0100814     -1.3207918 -2.022597e-01  0.5294021
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##   [5448,]  0.6027746086  0.4545598     -1.3207918 -3.070986e-01  0.5294021
##   [5449,]  2.0169058051 -0.1009618      0.7571158  1.134436e+00  0.5294021
##   [5450,] -1.4541434953  1.0100814      0.7571158  9.719355e-01  0.5294021
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##   [5456,] -1.0060291941 -0.6564834     -1.3207918 -3.988326e-01  0.5294021
##   [5457,]  0.8464214555  1.0100814      0.7571158  3.874589e-01 -1.8889088
##   [5458,] -1.2374324808  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5459,] -0.1575504762  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [5460,] -0.5101650083  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [5461,] -1.3696629303  0.7323206     -1.3207918 -1.891549e-01  0.5294021
##   [5462,] -0.5407739087 -0.6564834     -1.3207918 -4.905666e-01  0.5294021
##   [5463,]  0.6701141894 -1.4897658     -1.3207918 -6.740346e-01  0.5294021
##   [5464,] -0.1428582040 -1.4897658      0.7571158 -3.529656e-01  0.5294021
##   [5465,] -0.1930568006  1.0100814      0.7571158 -6.351918e-01  0.5294021
##   [5466,] -1.3304835379 -1.2120050     -1.3207918  3.219346e-01  0.5294021
##   [5467,]  0.6358322210 -0.9342442      0.7571158  3.362772e-02  0.5294021
##   [5468,] -0.9080807129  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5469,] -0.1599991882  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [5470,] -1.3317078939 -0.3787226     -1.3207918 -3.333083e-01  0.5294021
##   [5471,] -0.6950427665 -0.3787226      0.7571158 -4.119374e-01  0.5294021
##   [5472,] -1.2055992244  1.0100814     -1.3207918  4.791929e-01 -1.8889088
##   [5473,]  1.5357338915  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [5474,]  0.1436411033  1.0100814      0.7571158  8.068143e-01  0.5294021
##   [5475,] -1.1333622196  0.4545598      0.7571158 -2.415743e-01 -1.8889088
##   [5476,] -0.5199598564 -0.3787226      0.7571158 -3.726229e-01 -1.8889088
##   [5477,]  1.4328879863  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [5478,]  0.4154481384 -0.9342442     -1.3207918 -5.758268e-01  0.5294021
##   [5479,] -0.6766774263 -0.3787226      0.7571158  4.791929e-01  0.5294021
##   [5480,]  1.7989704345 -1.4897658     -1.3207918 -5.888530e-01 -1.8889088
##   [5481,] -0.7317734469  0.1767990      0.7571158  2.170957e-01  0.5294021
##   [5482,]  0.7619408905  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [5483,]  0.3419867776 -0.6564834     -1.3207918 -3.202034e-01  0.5294021
##   [5484,] -0.3154924021  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5485,] -0.9607280216  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [5486,] -0.2065247168  1.0100814     -1.3207918 -6.856193e-01  0.5294021
##   [5487,]  0.8060177070  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5488,] -0.4158895952 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [5489,] -0.2591720254  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [5490,]  1.4696186667  0.7323206     -1.3207918 -4.381471e-01  0.5294021
```

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##   [5491,] -0.4060947471 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [5492,] -0.9044076449  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [5493,] -0.2910052818 -1.2120050      0.7571158 -3.988326e-01  0.5294021
##   [5494,] -1.0647982828  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [5495,] -0.4709856159 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [5496,] -0.4966970922 -0.1009618     -1.3207918  5.447171e-01  0.5294021
##   [5497,] -0.8138052999 -0.3787226      0.7571158 -4.486310e-01  0.5294021
##   [5498,] -0.2567233134 -1.4897658     -1.3207918  5.447171e-01  0.5294021
##   [5499,] -0.5309790606  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [5500,]  1.1696514432 -0.6564834     -1.3207918  7.418002e-03  0.5294021
##   [5501,] -0.7746259074 -0.9342442      0.7571158  6.757657e-01  0.5294021
##   [5502,]  0.4668710910  1.0100814      0.7571158 -8.181880e-01  0.5294021
##   [5503,] -1.3990474747 -0.6564834     -1.3207918  1.527581e+00 -1.8889088
##   [5504,] -1.6316751174  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [5505,] -0.2089734288  0.7323206      0.7571158 -3.070986e-01  0.5294021
##   [5506,] -0.7648310593 -1.2120050      0.7571158  4.673257e-02 -1.8889088
##   [5507,] -0.3142680460  0.1767990      0.7571158  7.418002e-03  0.5294021
##   [5508,] -0.9472601054  1.0100814      0.7571158 -2.546791e-01 -1.8889088
##   [5509,] -1.9414371890  0.1767990      0.7571158  1.515714e-01 -1.8889088
##   [5510,]  1.0876195903  0.7323206      0.7571158  2.052286e-02 -1.8889088
##   [5511,]  1.9226303920 -1.2120050      0.7571158 -7.291477e-02  0.5294021
##   [5512,] -1.2068235804 -1.4897658     -1.3207918 -6.891969e-01  0.5294021
##   [5513,] -0.2408066852  1.0100814      0.7571158  7.543949e-01  0.5294021
##   [5514,]  0.1975127679 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [5515,] -0.8076835198 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [5516,]  0.6615436973 -0.6564834     -1.3207918 -3.333083e-01 -1.8889088
##   [5517,] -1.2509003969 -1.4897658     -1.3207918 -5.499316e-01  0.5294021
##   [5518,] -1.0268432463  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [5519,] -0.3448769464 -1.2120050     -1.3207918 -3.254454e-01  0.5294021
##   [5520,]  0.1901666318  1.0100814     -1.3207918  2.826200e-01 -1.8889088
##   [5521,]  0.8182612671  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [5522,]  0.2966856051  1.0100814      0.7571158 -4.133527e-01 -1.8889088
##   [5523,]  0.0052888737  1.0100814      0.7571158  8.854434e-01  0.5294021
##   [5524,] -1.0476572986  1.0100814      0.7571158  1.331009e+00 -1.8889088
##   [5525,]  0.6970500217  1.0100814      0.7571158 -8.312929e-01  0.5294021
##   [5526,]  1.6398041527 -0.1009618      0.7571158 -3.333083e-01 -1.8889088
##   [5527,] -0.0118521105 -0.9342442     -1.3207918 -4.119374e-01  0.5294021
##   [5528,] -1.0292919584 -0.9342442     -1.3207918 -7.133491e-01  0.5294021
##   [5529,] -0.6240301176 -0.3787226     -1.3207918  2.957249e-01 -1.8889088
##   [5530,] -0.2677425175  1.0100814      0.7571158  2.248349e+00  0.5294021
##   [5531,] -1.6035149290 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [5532,]  1.7916242984  1.0100814     -1.3207918 -3.641047e-01  0.5294021
##   [5533,]  0.4546275309  0.1767990      0.7571158 -5.686855e-03 -1.8889088
##   [5534,] -0.1489799841 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [5535,]  0.2991343171 -1.2120050     -1.3207918 -4.709093e-01 -1.8889088
##   [5536,]  0.2501600765 -0.1009618     -1.3207918 -4.381471e-01 -1.8889088
##   [5537,] -1.4149641028  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [5538,]  0.0420195541 -0.6564834     -1.3207918 -5.691957e-01  0.5294021
##   [5539,] -1.6524891696 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [5540,]  1.2688242804  0.7323206      0.7571158 -1.498403e-01 -1.8889088
##   [5541,]  0.0481413342 -0.1009618     -1.3207918 -5.036714e-01 -1.8889088
##   [5542,] -1.3231374018 -0.9342442      0.7571158  3.481443e-01 -1.8889088
##   [5543,]  2.1968861392  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [5544,] -0.2028516487 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [5545,] -1.3206886897  1.0100814      0.7571158  1.331009e+00  0.5294021
##   [5546,]  1.5516505197  1.0100814     -1.3207918 -3.464131e-01  0.5294021
##   [5547,] -0.5603636049  1.0100814     -1.3207918 -6.347200e-01  0.5294021
##   [5548,]  1.8038678586  0.1767990     -1.3207918 -5.429860e-01  0.5294021
##   [5549,] -0.9558305975  0.4545598      0.7571158  3.981174e-01  0.5294021
##   [5550,] -0.2506015333 -0.3787226      0.7571158 -2.153646e-01  0.5294021
##   [5551,] -0.1734671044 -0.3787226     -1.3207918  6.114792e-02  0.5294021
##   [5552,]  2.4319624939 -0.9342442      0.7571158 -4.661653e-01  0.5294021
##   [5553,] -0.6730043582 -0.9342442      0.7571158 -5.429860e-01  0.5294021
##   [5554,] -0.9166512050 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [5555,]  0.3077048092 -1.2120050      0.7571158  2.052286e-02  0.5294021
##   [5556,]  0.2893394690  0.4545598     -1.3207918 -5.036714e-01  0.5294021
##   [5557,] -1.3708872863 -0.9342442     -1.3207918  1.253617e-01 -1.8889088
##   [5558,] -0.7917668916  1.0100814      0.7571158  1.055807e+00  0.5294021
##   [5559,] -0.7562605672  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5560,]  0.3640251858 -1.4897658      0.7571158  3.481443e-01  0.5294021
##   [5561,] -0.5481200448 -0.3787226     -1.3207918 -3.595180e-01  0.5294021
##   [5562,] -2.0381613141 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [5563,]  0.0420195541 -1.4897658     -1.3207918 -1.498403e-01  0.5294021
##   [5564,] -0.1759158164  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [5565,] -1.4333294431  0.7323206     -1.3207918 -3.333083e-01  0.5294021
##   [5566,] -0.3093706220  1.0100814      0.7571158  7.150803e-01  0.5294021
##   [5567,]  0.6444027131 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [5568,] -1.7908413992 -0.3787226     -1.3207918 -1.760500e-01 -1.8889088
##   [5569,] -0.8101322318  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [5570,]  0.2085319720 -1.4897658     -1.3207918 -4.119374e-01  0.5294021
##   [5571,] -1.3378296739 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [5572,] -0.9864394979  1.0100814      0.7571158 -7.788734e-01  0.5294021
##   [5573,]  0.0995642868 -0.1009618      0.7571158  8.604715e-02 -1.8889088
##   [5574,] -0.0498071470  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [5575,] -1.8079823834 -0.1009618      0.7571158  2.052286e-02  0.5294021
##   [5576,]  0.1265001191  1.0100814      0.7571158 -3.333083e-01 -1.8889088
##   [5577,] -1.5386240603 -1.2120050      0.7571158 -5.036714e-01  0.5294021
##   [5578,]  0.5011530594  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5579,] -1.6267776933  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [5580,] -1.0721444189  0.7323206      0.7571158  2.170957e-01 -1.8889088
##   [5581,]  0.0150837218  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [5582,]  1.2639268563 -1.2120050      0.7571158 -1.498403e-01 -1.8889088
##   [5583,] -0.5787289451  1.0100814      0.7571158  1.777811e-01 -1.8889088
##   [5584,] -1.6953416301 -0.6564834     -1.3207918  8.604715e-02 -1.8889088
##   [5585,] -0.6595364421  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5586,] -1.7369697346  1.0100814      0.7571158  8.068143e-01  0.5294021
##   [5587,] -0.9925612779  0.1767990     -1.3207918 -2.022597e-01  0.5294021
##   [5588,]  1.3006575367  1.0100814      0.7571158 -3.070986e-01  0.5294021
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##   [5589,]  0.6823577495  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [5590,]  0.3530059817 -0.6564834      0.7571158 -6.072725e-02  0.5294021
##   [5591,]  0.4607493110 -1.4897658     -1.3207918 -3.988326e-01  0.5294021
##   [5592,] -0.1428582040  1.0100814      0.7571158 -1.057293e-01  0.5294021
##   [5593,]  0.6529732052  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [5594,] -1.1517275598  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [5595,] -0.5187355004  0.1767990     -1.3207918  1.003387e+00 -1.8889088
##   [5596,]  0.3934097302 -0.6564834      0.7571158 -5.167763e-01  0.5294021
##   [5597,] -0.5530174688  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [5598,] -0.5615879609  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [5599,] -0.3779345588  1.0100814     -1.3207918  7.418002e-03  0.5294021
##   [5600,] -1.3794577784 -1.4897658      0.7571158  1.646763e-01  0.5294021
##   [5601,] -1.1370352876  1.0100814     -1.3207918 -3.701067e-01 -1.8889088
##   [5602,] -0.5762802331  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [5603,]  2.2666744320  0.1767990     -1.3207918  2.052286e-02  0.5294021
##   [5604,]  0.8782547118  1.0100814      0.7571158 -6.478249e-01  0.5294021
##   [5605,] -0.9509331734 -1.4897658     -1.3207918  2.826200e-01  0.5294021
##   [5606,] -0.2983514179  1.0100814      0.7571158 -3.595180e-01 -1.8889088
##   [5607,]  0.1705769356  1.0100814      0.7571158 -3.595180e-01 -1.8889088
##   [5608,] -0.7427926510  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [5609,] -0.7427926510 -0.9342442      0.7571158 -2.284694e-01  0.5294021
##   [5610,] -1.2374324808  1.0100814      0.7571158  2.957249e-01  0.5294021
##   [5611,] -1.4418999352 -1.2120050      0.7571158  4.791929e-01  0.5294021
##   [5612,] -1.6316751174  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [5613,]  0.4680954471  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [5614,] -0.6754530702 -0.1009618      0.7571158 -1.433606e-02 -1.8889088
##   [5615,]  1.7830538063  0.4545598     -1.3207918  2.170957e-01  0.5294021
##   [5616,]  0.9664083448  1.0100814      0.7571158 -5.311916e-01 -1.8889088
##   [5617,] -1.4112910348  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [5618,] -0.6387223898 -0.3787226      0.7571158 -3.726229e-01  0.5294021
##   [5619,] -0.8370680641 -0.6564834     -1.3207918 -2.022597e-01  0.5294021
##   [5620,] -0.2273387690  1.0100814     -1.3207918 -4.578044e-01  0.5294021
##   [5621,]  1.8834509995  0.4545598      0.7571158 -1.760500e-01 -1.8889088
##   [5622,] -0.3852806949 -0.1009618      0.7571158  7.418002e-03  0.5294021
##   [5623,] -0.1465312721 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [5624,]  0.8500945235  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [5625,]  2.1772964429 -0.1009618      0.7571158 -2.546791e-01  0.5294021
##   [5626,] -0.1428582040  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [5627,] -1.6696301538 -0.6564834     -1.3207918 -2.153646e-01  0.5294021
##   [5628,] -0.6313762537  1.0100814      0.7571158 -5.429860e-01 -1.8889088
##   [5629,]  0.6223643048 -0.3787226      0.7571158 -3.726229e-01  0.5294021
##   [5630,] -0.2224413450 -0.1009618      0.7571158 -2.808889e-01  0.5294021
##   [5631,] -1.2019261564  1.0100814     -1.3207918 -3.595180e-01  0.5294021
##   [5632,] -0.2591720254  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [5633,] -0.5958699293 -0.6564834      0.7571158  7.412900e-01  0.5294021
##   [5634,] -0.6876966304  1.0100814     -1.3207918  4.922977e-01  0.5294021
##   [5635,] -1.9561294611 -0.3787226      0.7571158  2.838067e+00  0.5294021
##   [5636,] -0.3350820983  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [5637,]  0.8305048273  0.7323206      0.7571158 -2.415743e-01 -1.8889088
##   [5638,] -0.9423626813  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5639,]  0.2024101920  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##   [5640,] -0.0277687387 -0.6564834      0.7571158 -5.036714e-01 -1.8889088
##   [5641,] -1.2864067213 -1.4897658     -1.3207918 -1.760500e-01 -1.8889088
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##   [5643,] -1.2998746375  1.0100814     -1.3207918  5.649641e-01 -1.8889088
##   [5644,] -0.5934212173  1.0100814      0.7571158 -5.691957e-01 -1.8889088
##   [5645,] -1.1566249838  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [5646,] -0.3424282344  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [5647,] -0.9190999171 -0.3787226     -1.3207918 -5.036714e-01  0.5294021
##   [5648,] -1.0011317700 -0.1009618     -1.3207918 -1.236306e-01  0.5294021
##   [5649,] -2.0724432825 -0.6564834      0.7571158  3.481443e-01 -1.8889088
##   [5650,] -0.3865050509  1.0100814      0.7571158  9.915200e-02 -1.8889088
##   [5651,] -1.4933228878 -0.9342442     -1.3207918 -4.289737e-01  0.5294021
##   [5652,]  1.1782219353  0.4545598      0.7571158 -4.381471e-01  0.5294021
##   [5653,] -1.4774062596 -0.6564834      0.7571158 -2.022597e-01 -1.8889088
##   [5654,]  0.7558191104 -0.1009618      0.7571158  3.362772e-02 -1.8889088
##   [5655,] -1.6586109497 -1.4897658     -1.3207918  5.447171e-01  0.5294021
##   [5656,] -0.6362736778  1.0100814      0.7571158 -8.038454e-02  0.5294021
##   [5657,] -1.3035477055 -1.2120050      0.7571158  5.316123e-01  0.5294021
##   [5658,] -1.1333622196 -0.3787226      0.7571158  1.147541e+00 -1.8889088
##   [5659,] -0.2053003608 -1.2120050      0.7571158 -3.224064e-01  0.5294021
##   [5660,]  1.2125039037  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5661,] -0.6154596255 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [5662,] -0.8248245040  1.0100814     -1.3207918  2.564103e-01  0.5294021
##   [5663,] -0.6215814056  1.0100814      0.7571158 -5.485628e-02  0.5294021
##   [5664,] -0.3718127787  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [5665,]  0.5770631323 -0.6564834     -1.3207918 -3.204655e-01  0.5294021
##   [5666,] -0.3889537629  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [5667,] -0.5309790606 -1.4897658      0.7571158  4.136686e-01 -1.8889088
##   [5668,] -0.5481200448 -0.1009618      0.7571158 -4.643569e-01  0.5294021
##   [5669,] -1.3488488781 -0.6564834      0.7571158 -1.105257e-01  0.5294021
##   [5670,]  2.0854697419  1.0100814      0.7571158  6.638986e-02 -1.8889088
##   [5671,] -0.7807476875  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [5672,]  1.0215043655  1.0100814     -1.3207918 -2.677840e-01  0.5294021
##   [5673,] -0.5860750812 -1.4897658     -1.3207918 -7.121114e-02  0.5294021
##   [5674,]  0.7399024822  1.0100814      0.7571158 -6.478249e-01  0.5294021
##   [5675,] -2.1471289994  1.0100814      0.7571158  1.004574e+01  0.5294021
##   [5676,] -1.0501060106  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [5677,] -1.2937528574  1.0100814      0.7571158  2.039909e-01  0.5294021
##   [5678,] -0.7476900751 -1.4897658      0.7571158 -7.121114e-02 -1.8889088
##   [5679,]  1.4794135148 -0.1009618      0.7571158  7.150803e-01  0.5294021
##   [5680,]  0.0261029259  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5681,] -0.0706211992  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [5682,]  1.7597910421  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [5683,] -0.9423626813  1.0100814      0.7571158 -3.333083e-01  0.5294021
##   [5684,] -1.5398484163 -1.4897658      0.7571158  6.102414e-01 -1.8889088
##   [5685,] -0.3754858468 -1.2120050     -1.3207918 -5.167763e-01  0.5294021
##   [5686,]  0.8390753194  1.0100814      0.7571158 -3.333083e-01 -1.8889088
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##   [5687,] -1.4896498197 -0.6564834     -1.3207918 -2.808889e-01  0.5294021
##   [5688,]  0.9247802404 -1.4897658      0.7571158 -3.726229e-01 -1.8889088
##   [5689,]  1.6177657444  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [5690,] -0.4648638358  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [5691,] -1.2264132766  1.0100814      0.7571158  1.450190e-01  0.5294021
##   [5692,] -0.2444797532  0.4545598      0.7571158 -1.760500e-01  0.5294021
##   [5693,] -1.4565922073  0.7323206      0.7571158  7.019754e-01  0.5294021
##   [5694,] -0.5481200448  0.1767990     -1.3207918 -4.250423e-01  0.5294021
##   [5695,] -0.4979214482  1.0100814      0.7571158  2.039909e-01  0.5294021
##   [5696,] -1.2655926691  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [5697,] -0.8003373837 -1.2120050      0.7571158 -1.760500e-01 -1.8889088
##   [5698,] -0.0681724872 -1.4897658     -1.3207918 -5.167763e-01  0.5294021
##   [5699,]  0.8672355077 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [5700,]  0.4962556354  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [5701,]  0.4240186305 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [5702,]  1.8846753555  0.7323206      0.7571158 -4.102338e-01 -1.8889088
##   [5703,] -0.7329978029 -1.4897658     -1.3207918 -6.347200e-01  0.5294021
##   [5704,]  1.2614781443  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [5705,]  1.2504589402  1.0100814     -1.3207918 -6.150627e-01  0.5294021
##   [5706,] -0.9595036655 -0.9342442     -1.3207918  4.791929e-01 -1.8889088
##   [5707,] -0.4244600873  1.0100814      0.7571158  1.134436e+00  0.5294021
##   [5708,] -0.7734015514 -0.3787226     -1.3207918 -3.070986e-01 -1.8889088
##   [5709,] -0.6644338661  1.0100814     -1.3207918  3.874589e-01 -1.8889088
##   [5710,] -1.4639383434  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [5711,] -0.5419982647  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [5712,] -0.4391523595 -1.2120050     -1.3207918 -5.429860e-01  0.5294021
##   [5713,] -0.8113565878  1.0100814      0.7571158  2.957249e-01 -1.8889088
##   [5714,] -0.1685696803  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [5715,] -0.9595036655 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [5716,]  0.0175324338 -0.9342442     -1.3207918 -1.432879e-01  0.5294021
##   [5717,] -1.8973603725 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [5718,] -1.4174128149 -0.6564834      0.7571158  1.134436e+00  0.5294021
##   [5719,] -0.8187027239 -1.4897658      0.7571158  1.515714e-01  0.5294021
##   [5720,]  0.1669038676 -1.4897658      0.7571158 -4.500143e-02 -1.8889088
##   [5721,] -0.1795888845  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5722,] -0.9239973411  1.0100814     -1.3207918 -6.334823e-02  0.5294021
##   [5723,] -0.9729715817 -1.4897658      0.7571158  5.983743e-02  0.5294021
##   [5724,] -0.8750231006 -0.9342442      0.7571158  8.604715e-02 -1.8889088
##   [5725,]  0.0652823184 -0.6564834     -1.3207918  8.604715e-02 -1.8889088
##   [5726,]  0.2330190923  1.0100814      0.7571158 -8.824745e-02  0.5294021
##   [5727,]  0.6578706293  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [5728,] -1.7626812109 -0.3787226     -1.3207918  1.331009e+00 -1.8889088
##   [5729,] -1.2704900932 -0.3787226     -1.3207918  2.170957e-01  0.5294021
##   [5730,]  0.2648523487  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [5731,] -0.9239973411 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [5732,]  0.2501600765 -1.2120050      0.7571158 -6.674821e-01  0.5294021
##   [5733,]  1.5883812001 -0.9342442     -1.3207918 -5.429860e-01  0.5294021
##   [5734,]  0.7043961578  1.0100814     -1.3207918 -8.181880e-01  0.5294021
##   [5735,] -1.5337266362  1.0100814     -1.3207918  3.231213e+00  0.5294021
##   [5736,] -0.7342221589 -0.6564834      0.7571158 -3.726229e-01 -1.8889088
##   [5737,] -0.4403767155  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [5738,] -0.7795233315 -1.4897658      0.7571158  8.068143e-01  0.5294021
##   [5739,] -0.0302174507 -1.4897658      0.7571158 -6.740346e-01  0.5294021
##   [5740,]  0.1889422758 -0.9342442      0.7571158  6.757657e-01 -1.8889088
##   [5741,] -0.6803504943  0.7323206      0.7571158  2.564103e-01  0.5294021
##   [5742,] -0.6558633740  1.0100814     -1.3207918 -3.070986e-01 -1.8889088
##   [5743,]  0.1571090194 -0.1009618     -1.3207918 -6.740346e-01  0.5294021
##   [5744,]  0.0542631142  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [5745,] -0.5970942853  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [5746,] -1.4945472438  0.4545598      0.7571158  3.743540e-01  0.5294021
##   [5747,]  2.4699175303  0.1767990     -1.3207918 -3.988326e-01  0.5294021
##   [5748,] -0.3399795223  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5749,]  1.2529076522 -0.3787226      0.7571158 -6.085103e-01  0.5294021
##   [5750,] -0.5322034166  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [5751,] -0.3338577423  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [5752,]  0.1681282236  1.0100814     -1.3207918 -5.686855e-03  0.5294021
##   [5753,] -1.0733687749 -1.4897658      0.7571158 -5.167763e-01  0.5294021
##   [5754,] -0.0816404033  1.0100814      0.7571158  2.957249e-01  0.5294021
##   [5755,] -1.7712517030  1.0100814      0.7571158  1.828993e+00  0.5294021
##   [5756,]  0.5721657083 -0.9342442      0.7571158  1.003387e+00 -1.8889088
##   [5757,] -2.3454746737 -0.3787226      0.7571158 -7.657686e-01 -1.8889088
##   [5758,] -0.2346849051 -0.9342442      0.7571158 -2.022597e-01  0.5294021
##   [5759,]  0.4742172271  1.0100814      0.7571158  4.267734e-01 -1.8889088
##   [5760,] -0.3350820983 -0.3787226      0.7571158 -1.105257e-01 -1.8889088
##   [5761,] -0.7293247349 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [5762,]  0.0983399308 -0.9342442     -1.3207918  1.515714e-01  0.5294021
##   [5763,] -0.5824020132  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [5764,] -0.8725743885  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [5765,]  1.9312008841 -0.6564834      0.7571158  8.604715e-02 -1.8889088
##   [5766,]  0.9529404287 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [5767,] -0.9974587020  0.7323206      0.7571158  8.068143e-01 -1.8889088
##   [5768,] -1.2202914966 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [5769,] -1.1602980519 -0.9342442     -1.3207918 -1.498403e-01  0.5294021
##   [5770,] -1.3819064905 -0.1009618      0.7571158  1.068911e+00  0.5294021
##   [5771,] -0.3228385381 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##   [5772,] -1.2998746375  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [5773,]  0.0860963706 -1.2120050      0.7571158 -5.429860e-01  0.5294021
##   [5774,]  2.2948346203 -0.6564834      0.7571158 -4.119374e-01  0.5294021
##   [5775,]  0.0212055019  1.0100814     -1.3207918 -8.575026e-01 -1.8889088
##   [5776,] -0.8150296559 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [5777,] -0.8823692366 -0.6564834     -1.3207918 -4.643569e-01 -1.8889088
##   [5778,] -2.0124498378 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [5779,]  0.0310003500 -0.3787226     -1.3207918 -2.415743e-01 -1.8889088
##   [5780,]  1.5553235877 -0.6564834      0.7571158 -3.726229e-01  0.5294021
##   [5781,] -1.3794577784  1.0100814      0.7571158  7.418002e-03 -1.8889088
##   [5782,]  0.1791474277 -0.6564834      0.7571158 -3.726229e-01  0.5294021
##   [5783,] -0.6081134895  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [5784,] -0.8101322318 -1.4897658     -1.3207918 -2.153646e-01  0.5294021
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##   [5785,] -0.5799533011 -0.9342442      0.7571158 -2.756469e-01 -1.8889088
##   [5786,] -1.3892526265 -1.4897658      0.7571158 -4.014535e-01  0.5294021
##   [5787,]  0.1681282236 -0.6564834     -1.3207918 -6.085103e-01  0.5294021
##   [5788,] -0.1563261202  1.0100814      0.7571158  3.362772e-02 -1.8889088
##   [5789,] -0.4452741396 -0.6564834      0.7571158  2.826200e-01  0.5294021
##   [5790,] -0.4354792915 -0.6564834      0.7571158 -6.740346e-01  0.5294021
##   [5791,] -1.1823364601  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [5792,]  1.7818294503 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [5793,]  0.4142237824 -1.4897658     -1.3207918 -5.429860e-01  0.5294021
##   [5794,]  0.1877179198 -0.9342442     -1.3207918  1.789679e+00  0.5294021
##   [5795,] -0.1453069161 -0.3787226     -1.3207918  3.481443e-01  0.5294021
##   [5796,] -0.6191326936 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [5797,]  0.6358322210  1.0100814      0.7571158  7.294229e-02 -1.8889088
##   [5798,]  0.1154809150  1.0100814     -1.3207918 -3.026569e-03 -1.8889088
##   [5799,] -0.5309790606 -0.9342442      0.7571158  2.051776e+00  0.5294021
##   [5800,] -1.4394512231 -0.6564834     -1.3207918 -7.002443e-01  0.5294021
##   [5801,] -1.1945800203  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [5802,] -0.5640366729 -0.9342442      0.7571158 -4.381471e-01  0.5294021
##   [5803,] -1.5753547407 -1.4897658      0.7571158  1.003387e+00  0.5294021
##   [5804,] -0.5126137203  0.1767990      0.7571158 -6.740346e-01  0.5294021
##   [5805,]  0.1522115954 -0.9342442      0.7571158 -2.546791e-01  0.5294021
##   [5806,]  2.4417573420  1.0100814     -1.3207918  3.088297e-01  0.5294021
##   [5807,] -1.1566249838  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5808,]  0.0114106537  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [5809,] -1.3635411502  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [5810,] -0.9007345769  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [5811,] -0.8456385562  0.1767990     -1.3207918  8.723386e-01  0.5294021
##   [5812,] -0.0644994191  1.0100814     -1.3207918 -2.534414e-02  0.5294021
##   [5813,] -1.4945472438 -0.1009618      0.7571158 -1.498403e-01  0.5294021
##   [5814,]  1.2002603436  0.1767990      0.7571158  1.940384e+00  0.5294021
##   [5815,]  1.1512861030  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5816,]  1.9005919837  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5817,]  2.5176674149  1.0100814      0.7571158 -7.379076e-01  0.5294021
##   [5818,]  0.6186912368  1.0100814      0.7571158 -4.659294e-01  0.5294021
##   [5819,] -1.3035477055  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [5820,] -0.8884910167  0.1767990      0.7571158 -1.760500e-01  0.5294021
##   [5821,] -0.0828647594 -0.9342442     -1.3207918  2.052286e-02 -1.8889088
##   [5822,] -0.7868694675  1.0100814      0.7571158 -1.891549e-01 -1.8889088
##   [5823,] -0.9901125659 -0.1009618     -1.3207918 -9.742085e-02  0.5294021
##   [5824,] -1.1921313083 -1.2120050     -1.3207918  2.052286e-02 -1.8889088
##   [5825,] -0.2701912295 -0.9342442     -1.3207918  1.515714e-01 -1.8889088
##   [5826,] -0.9166512050  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [5827,]  0.7239858540  1.0100814      0.7571158 -3.398607e-01  0.5294021
##   [5828,] -0.8529846923  1.0100814     -1.3207918  4.529831e-01  0.5294021
##   [5829,] -1.3072207736 -1.4897658     -1.3207918  8.723386e-01  0.5294021
##   [5830,] -0.4930240241 -0.3787226     -1.3207918 -3.189657e-02  0.5294021
##   [5831,]  0.1142565589 -0.9342442      0.7571158 -4.500143e-02 -1.8889088
##   [5832,] -1.3512975901 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [5833,] -1.3035477055 -1.4897658     -1.3207918 -7.121114e-02  0.5294021
##   [5834,] -1.3476245221 -0.1009618      0.7571158  1.068911e+00  0.5294021
##   [5835,] -1.0207214663 -0.3787226     -1.3207918 -1.760500e-01  0.5294021
##   [5836,] -1.6622840177  1.0100814      0.7571158  6.888706e-01 -1.8889088
##   [5837,]  0.2942368930 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [5838,]  0.4129994264  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [5839,] -0.9386896133  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [5840,]  1.9348739521  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [5841,]  0.2832176889 -0.9342442     -1.3207918  2.976775e-01 -1.8889088
##   [5842,] -0.2934539938 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [5843,]  0.0616092503  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [5844,]  1.7242847177  0.7323206     -1.3207918 -4.329052e-01  0.5294021
##   [5845,] -0.5811776571 -1.2120050     -1.3207918  1.199960e+00  0.5294021
##   [5846,]  0.0701797424  1.0100814      0.7571158 -7.657686e-01  0.5294021
##   [5847,] -0.7452413631  1.0100814      0.7571158  1.049706e-01  0.5294021
##   [5848,]  0.1375193232  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5849,]  2.1760720869 -0.1009618      0.7571158 -1.105257e-01 -1.8889088
##   [5850,] -0.4085434591  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [5851,] -0.2175439209  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [5852,] -0.9215486291 -1.2120050      0.7571158  1.396533e+00  0.5294021
##   [5853,]  1.1427156109  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [5854,]  0.2379165164  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [5855,]  0.4411596147  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [5856,]  0.6101207447 -0.6564834      0.7571158  1.188093e-01 -1.8889088
##   [5857,]  1.7855025184 -1.4897658      0.7571158 -4.250423e-01  0.5294021
##   [5858,] -0.5689340970 -1.4897658      0.7571158 -2.347598e-01  0.5294021
##   [5859,] -1.2472273289  1.0100814     -1.3207918 -8.035833e-02  0.5294021
##   [5860,] -1.6990146981  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [5861,] -1.6280020493 -0.1009618      0.7571158  1.003387e+00  0.5294021
##   [5862,]  0.5329863158  1.0100814      0.7571158  1.527581e+00 -1.8889088
##   [5863,] -1.9891870735  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [5864,]  2.3854369654  1.0100814      0.7571158 -3.562418e-01 -1.8889088
##   [5865,] -1.3855795585  1.0100814      0.7571158  1.173750e+00 -1.8889088
##   [5866,]  1.9226303920 -1.2120050      0.7571158  7.418002e-03  0.5294021
##   [5867,] -0.8615551844 -0.9342442     -1.3207918 -3.070986e-01  0.5294021
##   [5868,] -0.8101322318 -0.9342442      0.7571158 -6.719378e-01  0.5294021
##   [5869,] -0.3962998990 -0.9342442     -1.3207918 -2.022597e-01  0.5294021
##   [5870,]  0.9406968686 -0.1009618     -1.3207918 -5.429860e-01  0.5294021
##   [5871,] -0.5934212173 -1.4897658     -1.3207918 -4.500143e-02 -1.8889088
##   [5872,]  0.3150509453  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [5873,]  0.1803717837 -0.9342442     -1.3207918  1.862338e-01  0.5294021
##   [5874,] -0.2199926329 -0.3787226     -1.3207918  2.170957e-01 -1.8889088
##   [5875,] -0.3154924021  0.4545598     -1.3207918 -1.879171e-02  0.5294021
##   [5876,] -0.9937856339 -1.4897658     -1.3207918 -7.159701e-01  0.5294021
##   [5877,] -0.3228385381 -0.1009618      0.7571158 -5.954054e-01  0.5294021
##   [5878,] -0.8223757920  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [5879,]  0.7399024822  1.0100814      0.7571158 -4.774617e-01 -1.8889088
##   [5880,] -1.5055664479 -0.1009618      0.7571158  1.515714e-01  0.5294021
##   [5881,]  0.7105179379  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [5882,] -0.9484844614  1.0100814      0.7571158  1.068911e+00  0.5294021
```

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##   [5883,] -0.8321706401  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [5884,] -0.4881266001  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [5885,]  1.9569123604 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [5886,] -0.4599664117 -0.1009618      0.7571158 -7.121114e-02 -1.8889088
##   [5887,]  0.2219998882 -0.9342442     -1.3207918 -6.740346e-01  0.5294021
##   [5888,]  0.6762359695 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [5889,] -0.4464984956  0.4545598      0.7571158  8.604715e-02  0.5294021
##   [5890,]  0.4631980230 -1.4897658      0.7571158  6.102414e-01  0.5294021
##   [5891,]  0.1191539830 -1.2120050      0.7571158  4.005637e-01  0.5294021
##   [5892,] -0.8946127968  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [5893,]  1.9654828525  1.0100814      0.7571158 -4.787722e-01  0.5294021
##   [5894,] -0.5517931128  0.7323206      0.7571158  5.971366e-01 -1.8889088
##   [5895,]  2.0193545171 -0.1009618     -1.3207918 -4.748407e-01 -1.8889088
##   [5896,] -1.1676441880  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5897,]  0.0077375857 -1.4897658      0.7571158 -8.208090e-01  0.5294021
##   [5898,]  0.3872879501  0.1767990     -1.3207918 -4.119374e-01 -1.8889088
##   [5899,]  0.2660767047  1.0100814      0.7571158  3.874589e-01  0.5294021
##   [5900,]  0.0750771665  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [5901,] -0.8529846923  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [5902,] -0.2408066852  1.0100814     -1.3207918 -1.629451e-01 -1.8889088
##   [5903,] -1.3219130458  1.0100814      0.7571158  3.362772e-02 -1.8889088
##   [5904,] -0.8566577604 -0.3787226      0.7571158  2.039909e-01  0.5294021
##   [5905,]  1.2737217044  0.4545598      0.7571158 -2.927560e-02  0.5294021
##   [5906,]  0.7350050582  1.0100814      0.7571158  1.174988e-01  0.5294021
##   [5907,] -1.1578493399 -0.6564834      0.7571158 -4.643569e-01  0.5294021
##   [5908,]  2.4233920018  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [5909,] -0.6754530702  0.7323206      0.7571158  2.170957e-01  0.5294021
##   [5910,]  1.6581694929  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [5911,]  0.5195183997 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [5912,]  0.2868907569  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [5913,] -2.0761163505 -1.2120050     -1.3207918  7.150803e-01  0.5294021
##   [5914,] -0.1244928638  0.7323206      0.7571158  1.777811e-01 -1.8889088
##   [5915,]  0.1644551555 -1.4897658      0.7571158 -5.838994e-01  0.5294021
##   [5916,] -0.4611907678  0.7323206      0.7571158 -5.691957e-01  0.5294021
##   [5917,] -0.0889865394  0.1767990      0.7571158 -1.105257e-01  0.5294021
##   [5918,] -0.9484844614 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [5919,]  0.0089619417  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5920,] -1.7516620068 -1.4897658      0.7571158 -9.090833e-01  0.5294021
##   [5921,]  0.0114106537  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [5922,] -0.5040432282 -0.1009618     -1.3207918 -3.070986e-01  0.5294021
##   [5923,]  1.1574078831 -0.6564834      0.7571158 -4.512520e-01  0.5294021
##   [5924,]  1.9348739521  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5925,]  0.1424167473 -0.9342442      0.7571158 -3.070986e-01 -1.8889088
##   [5926,]  1.4990032110 -0.9342442     -1.3207918 -5.167763e-01  0.5294021
##   [5927,] -0.7587092792 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [5928,] -0.0008329064  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [5929,]  0.0934425067  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [5930,] -0.3632422866  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [5931,]  0.8182612671 -0.9342442     -1.3207918 -6.740346e-01  0.5294021
##   [5932,] -0.2885565697  0.4545598     -1.3207918 -3.333083e-01  0.5294021
##   [5933,] -1.1700929000  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [5934,]  1.0802734542 -0.6564834      0.7571158  8.723386e-01  0.5294021
##   [5935,]  0.1754743597 -1.4897658     -1.3207918 -4.119374e-01  0.5294021
##   [5936,] -1.1113238113  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [5937,] -1.0990802512  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [5938,] -0.5419982647  1.0100814     -1.3207918  4.529831e-01 -1.8889088
##   [5939,] -0.6117865575  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [5940,] -0.5591392489 -0.9342442      0.7571158 -1.288463e-01 -1.8889088
##   [5941,] -0.0865378274 -0.1009618      0.7571158  3.481443e-01  0.5294021
##   [5942,] -1.7002390542 -0.3787226     -1.3207918  3.362772e-02 -1.8889088
##   [5943,]  1.1035362184 -0.6564834      0.7571158  2.826200e-01  0.5294021
##   [5944,] -0.3338577423  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [5945,]  0.1558846634  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [5946,] -1.5545406885 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [5947,]  0.1105834909 -0.3787226     -1.3207918  2.170957e-01  0.5294021
##   [5948,] -1.0207214663 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [5949,]  0.8280561152 -0.1009618     -1.3207918  8.604715e-02  0.5294021
##   [5950,]  0.4925825673  0.7323206      0.7571158  7.937094e-01  0.5294021
##   [5951,] -1.3145669097 -1.4897658      0.7571158  8.735253e+00  0.5294021
##   [5952,] -0.7415682950 -0.6564834      0.7571158  1.658630e+00  0.5294021
##   [5953,] -1.7112582583  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [5954,]  0.9859980411 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [5955,] -0.8309462841  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [5956,]  1.3961573058  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [5957,] -0.0963326755  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [5958,] -0.0277687387  0.1767990      0.7571158  6.101890e-01  0.5294021
##   [5959,] -0.5224085685 -0.1009618     -1.3207918  7.674997e-01  0.5294021
##   [5960,] -0.7305490909 -0.3787226     -1.3207918 -4.500143e-02  0.5294021
##   [5961,] -0.6179083376  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [5962,]  0.3934097302 -1.4897658      0.7571158  7.412900e-01  0.5294021
##   [5963,] -0.1930568006 -1.2120050     -1.3207918 -3.202034e-01  0.5294021
##   [5964,]  0.8574406596  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [5965,]  0.7888767228  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [5966,]  0.2575062126 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [5967,] -0.3130436900  1.0100814      0.7571158  4.529831e-01  0.5294021
##   [5968,] -1.0305163144 -1.4897658      0.7571158  1.253617e-01  0.5294021
##   [5969,] -0.7660554153 -0.3787226      0.7571158  8.199191e-01  0.5294021
##   [5970,] -1.1700929000 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [5971,] -0.9986830580  1.0100814     -1.3207918  8.723386e-01  0.5294021
##   [5972,]  0.8317291833  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [5973,]  1.2369910240  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [5974,] -0.7746259074 -1.4897658     -1.3207918 -2.219170e-01  0.5294021
##   [5975,]  0.0530387582 -0.3787226     -1.3207918 -6.085103e-01  0.5294021
##   [5976,] -0.2628450934 -0.6564834     -1.3207918 -1.105257e-01  0.5294021
##   [5977,]  0.2538331446 -0.9342442      0.7571158 -5.036714e-01  0.5294021
##   [5978,]  1.7353039218 -1.4897658     -1.3207918  1.188093e-01  0.5294021
##   [5979,] -0.9901125659  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [5980,]  1.1696514432 -1.2120050     -1.3207918  3.874589e-01  0.5294021
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##   [5981,]  0.9590622088  0.7323206      0.7571158  3.481443e-01 -1.8889088
##   [5982,] -0.9558305975 -0.6564834      0.7571158  8.723386e-01 -1.8889088
##   [5983,]  0.5844092684  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [5984,] -1.8532835559 -0.9342442      0.7571158  1.396533e+00  0.5294021
##   [5985,] -1.1407083557 -1.2120050     -1.3207918 -6.347200e-01  0.5294021
##   [5986,] -1.2007018004 -1.2120050      0.7571158  1.357218e+00  0.5294021
##   [5987,] -0.6987158345  0.7323206      0.7571158 -1.879171e-02  0.5294021
##   [5988,] -0.3620179306 -0.9342442      0.7571158 -3.070986e-01  0.5294021
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##   [5993,] -1.3684385743  0.7323206      0.7571158 -4.500143e-02  0.5294021
##   [5994,] -1.5435214843  0.7323206      0.7571158 -7.121114e-02 -1.8889088
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##   [5996,]  2.1870912910  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [5997,]  0.6799090375  0.1767990      0.7571158  4.136686e-01 -1.8889088
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##   [6001,] -1.4345537991  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [6002,] -0.8174783679  1.0100814      0.7571158  2.957249e-01  0.5294021
##   [6003,] -0.0436853669 -0.9342442     -1.3207918 -2.677840e-01  0.5294021
##   [6004,] -0.2469284653  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [6005,]  0.0003914496  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [6006,]  0.3713713219 -0.6564834      0.7571158  6.757657e-01  0.5294021
##   [6007,]  0.4276916986  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [6008,] -0.4673125478 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
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##   [6010,] -1.6635083737  1.0100814      0.7571158  6.102414e-01  0.5294021
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##   [6013,]  0.0848720146  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [6014,] -0.2946783498 -0.9342442      0.7571158 -1.105257e-01 -1.8889088
##   [6015,] -0.1489799841  0.4545598      0.7571158  6.102414e-01  0.5294021
##   [6016,]  0.0273272819 -0.3787226     -1.3207918 -6.298057e-01 -1.8889088
##   [6017,] -1.2349837687  1.0100814      0.7571158  8.199191e-01 -1.8889088
##   [6018,]  0.2844420449  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [6019,] -0.7011645465 -1.2120050      0.7571158  7.412900e-01  0.5294021
##   [6020,] -0.7489144311  1.0100814      0.7571158  2.957249e-01 -1.8889088
##   [6021,]  0.3591277618 -0.3787226     -1.3207918 -5.429860e-01  0.5294021
##   [6022,] -1.7969631793  1.0100814      0.7571158  6.233463e-01  0.5294021
##   [6023,]  2.0475147054  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [6024,] -0.2040760048  1.0100814     -1.3207918  7.412900e-01  0.5294021
##   [6025,] -0.7281003789  1.0100814     -1.3207918  3.350394e-01  0.5294021
##   [6026,]  0.5048261275 -0.1009618      0.7571158 -2.808889e-01  0.5294021
##   [6027,]  0.5415568079 -1.2120050      0.7571158 -6.845185e-01  0.5294021
##   [6028,] -1.3157912657  0.4545598     -1.3207918  8.395764e-01  0.5294021
##   [6029,]  0.5097235515  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [6030,] -0.4722099719 -1.2120050      0.7571158 -4.500143e-02  0.5294021
##   [6031,] -0.5628123169  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [6032,]  0.3689226099  1.0100814     -1.3207918  3.219346e-01  0.5294021
##   [6033,]  0.0187567898 -0.3787226     -1.3207918 -6.845185e-01 -1.8889088
##   [6034,] -1.3647655063  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [6035,] -1.4014961867 -1.4897658      0.7571158 -4.119374e-01  0.5294021
##   [6036,] -1.0635739268 -0.9342442      0.7571158  4.267734e-01  0.5294021
##   [6037,] -1.9022577965  0.7323206     -1.3207918 -8.758494e-01  0.5294021
##   [6038,] -1.0097022621 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [6039,] -0.2775373656 -1.4897658      0.7571158 -5.429860e-01  0.5294021
##   [6040,]  0.0860963706  0.7323206     -1.3207918  2.052286e-02  0.5294021
##   [6041,]  1.4181957141  1.0100814      0.7571158 -3.595180e-01 -1.8889088
##   [6042,]  0.4876851433 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [6043,]  0.3395380656 -0.3787226      0.7571158 -1.151648e-01  0.5294021
##   [6044,] -0.0179738906  0.1767990      0.7571158  2.249586e-01 -1.8889088
##   [6045,] -1.8410399958 -1.4897658      0.7571158  4.148553e+00 -1.8889088
##   [6046,]  2.3021807564 -1.4897658     -1.3207918 -4.905666e-01  0.5294021
##   [6047,] -0.5542418248  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [6048,] -0.3509987265  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [6049,] -0.6607607981  0.4545598     -1.3207918  5.447171e-01  0.5294021
##   [6050,]  1.4194200701  1.0100814     -1.3207918 -4.381471e-01 -1.8889088
##   [6051,] -2.1091739629 -1.2120050      0.7571158 -5.560909e-01  0.5294021
##   [6052,] -0.0191982466  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [6053,]  0.0334490620 -0.9342442     -1.3207918 -5.429860e-01  0.5294021
##   [6054,] -0.2922296378  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [6055,] -1.5937200809  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [6056,]  2.1038350821 -0.1009618      0.7571158  2.695151e-01 -1.8889088
##   [6057,] -1.1003046072  1.0100814      0.7571158 -3.555865e-01  0.5294021
##   [6058,] -0.6105622015 -0.9342442     -1.3207918  1.802783e+00 -1.8889088
##   [6059,]  2.1528093226 -0.3787226      0.7571158 -1.105257e-01 -1.8889088
##   [6060,] -0.1171467278 -0.9342442      0.7571158 -1.236306e-01  0.5294021
##   [6061,] -1.4602652754 -0.9342442      0.7571158  1.908860e-01 -1.8889088
##   [6062,]  0.8341778953  0.7323206      0.7571158  1.515714e-01  0.5294021
##   [6063,]  0.3444354896 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##   [6064,] -0.0559289270  0.1767990      0.7571158 -2.415743e-01  0.5294021
##   [6065,]  1.1598565951  1.0100814      0.7571158 -3.503210e-01  0.5294021
##   [6066,] -0.8774718126  1.0100814      0.7571158  1.134436e+00 -1.8889088
##   [6067,]  0.2746471968  1.0100814      0.7571158  9.915200e-02 -1.8889088
##   [6068,] -1.2925285014  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [6069,]  0.9970172452 -0.1009618      0.7571158 -4.643569e-01  0.5294021
##   [6070,]  0.7766331626 -0.3787226     -1.3207918 -5.482279e-01  0.5294021
##   [6071,] -0.1342877120 -0.3787226      0.7571158 -2.022597e-01 -1.8889088
##   [6072,]  0.8574406596  0.4545598      0.7571158  6.102414e-01  0.5294021
##   [6073,] -0.3889537629  0.4545598     -1.3207918 -4.500143e-02  0.5294021
##   [6074,] -0.6827992063 -0.6564834      0.7571158 -6.740346e-01 -1.8889088
##   [6075,] -1.1602980519 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [6076,] -0.2126464969  0.1767990      0.7571158 -3.595180e-01  0.5294021
##   [6077,] -0.0742942673 -0.9342442      0.7571158  6.102414e-01  0.5294021
##   [6078,]  0.5978771846 -1.2120050      0.7571158 -3.896592e-01  0.5294021
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##   [6079,]  2.2225976155  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [6080,] -0.4428254275 -0.3787226      0.7571158 -1.236306e-01  0.5294021
##   [6081,] -0.8150296559  1.0100814      0.7571158  3.219346e-01 -1.8889088
##   [6082,] -0.1906080886 -1.2120050      0.7571158 -2.677840e-01 -1.8889088
##   [6083,]  0.7668383145  0.7323206      0.7571158 -1.760500e-01  0.5294021
##   [6084,] -1.5961687929  1.0100814     -1.3207918  1.855203e+00  0.5294021
##   [6085,]  1.0717029621  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [6086,] -0.1049031676  1.0100814     -1.3207918 -2.022597e-01  0.5294021
##   [6087,]  0.9737544809  0.1767990      0.7571158 -2.022597e-01  0.5294021
##   [6088,] -0.1220441518  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [6089,] -0.2787617216 -0.9342442     -1.3207918 -1.105257e-01  0.5294021
##   [6090,]  0.1301731871  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [6091,] -0.0143008226  0.1767990      0.7571158  8.604715e-02  0.5294021
##   [6092,] -0.7746259074  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [6093,] -0.8456385562 -1.2120050      0.7571158  9.771774e-01 -1.8889088
##   [6094,] -1.6488161016  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [6095,] -1.3598680822 -0.3787226      0.7571158  1.265484e+00  0.5294021
##   [6096,] -0.0424610109  1.0100814      0.7571158  1.068911e+00 -1.8889088
##   [6097,]  0.1424167473  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [6098,]  2.1785207989  0.1767990      0.7571158 -6.609297e-01  0.5294021
##   [6099,] -0.7317734469 -1.4897658      0.7571158  2.131643e-01  0.5294021
##   [6100,] -0.3779345588 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [6101,]  0.1705769356 -1.4897658      0.7571158  2.826200e-01  0.5294021
##   [6102,] -0.0889865394 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [6103,] -0.8676769645  0.4545598     -1.3207918  6.626609e-01  0.5294021
##   [6104,] -1.6671814418 -0.1009618      0.7571158  7.281851e-01 -1.8889088
##   [6105,] -1.6463673895 -0.1009618      0.7571158  2.444921e+00  0.5294021
##   [6106,]  0.6750116135  1.0100814     -1.3207918 -2.415743e-01 -1.8889088
##   [6107,] -0.0853134714 -1.4897658      0.7571158 -2.022597e-01 -1.8889088
##   [6108,]  1.2394397360  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [6109,] -0.5187355004  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [6110,] -1.2411055488 -0.1009618      0.7571158 -2.141268e-02 -1.8889088
##   [6111,] -1.6696301538 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [6112,]  0.6933769537  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [6113,] -1.1994774443 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [6114,]  0.6015502526  1.0100814     -1.3207918 -3.161508e-02  0.5294021
##   [6115,] -1.1235673715 -0.1009618      0.7571158 -3.070986e-01  0.5294021
##   [6116,]  0.0775258785 -0.1009618      0.7571158  1.253617e-01  0.5294021
##   [6117,] -0.2542746013  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [6118,]  0.0652823184 -0.9342442     -1.3207918 -5.167763e-01  0.5294021
##   [6119,]  1.1769975793 -1.2120050      0.7571158  7.937094e-01  0.5294021
##   [6120,]  1.1157797786  1.0100814     -1.3207918  5.316123e-01 -1.8889088
##   [6121,] -0.0008329064  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [6122,] -1.9683730213 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [6123,]  0.3248457934  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [6124,] -0.1220441518 -0.3787226     -1.3207918  8.604715e-02 -1.8889088
##   [6125,]  0.3860635941 -0.6564834      0.7571158  1.253617e-01  0.5294021
##   [6126,] -0.8468629122 -1.2120050     -1.3207918 -3.288002e-01 -1.8889088
##   [6127,] -1.7063608342 -0.6564834      0.7571158  3.743540e-01  0.5294021
##   [6128,] -0.4562933437 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [6129,] -0.1881593766  0.1767990      0.7571158  1.515714e-01  0.5294021
##   [6130,] -0.3754858468 -0.3787226      0.7571158  3.481443e-01 -1.8889088
##   [6131,] -0.9129781370 -1.2120050      0.7571158  8.723386e-01  0.5294021
##   [6132,] -0.9582793095  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [6133,] -0.2150952089 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [6134,]  0.9260045964  1.0100814     -1.3207918  3.362772e-02 -1.8889088
##   [6135,] -0.8566577604 -0.1009618      0.7571158  7.412900e-01  0.5294021
##   [6136,] -0.2836591457 -1.2120050      0.7571158 -6.656475e-01 -1.8889088
##   [6137,] -0.9203242731 -0.3787226      0.7571158  1.122569e-01  0.5294021
##   [6138,] -0.8958371528 -0.3787226      0.7571158  2.444921e+00  0.5294021
##   [6139,] -0.1881593766 -0.9342442     -1.3207918 -2.808889e-01  0.5294021
##   [6140,] -0.6925940544  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [6141,] -1.1333622196  1.0100814      0.7571158  8.985483e-01  0.5294021
##   [6142,] -0.1024544556  0.1767990      0.7571158 -2.415743e-01  0.5294021
##   [6143,]  0.9786519050  0.1767990      0.7571158  1.199960e+00  0.5294021
##   [6144,]  0.2342434483  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [6145,] -0.9472601054 -0.3787226      0.7571158 -3.595180e-01  0.5294021
##   [6146,]  0.9039661881 -0.1009618     -1.3207918 -3.988326e-01  0.5294021
##   [6147,]  0.5464542320  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [6148,] -0.9570549535 -0.3787226      0.7571158  1.134436e+00  0.5294021
##   [6149,] -0.9374652573 -0.9342442     -1.3207918 -5.560909e-01  0.5294021
##   [6150,] -0.3191654701  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [6151,]  0.6456270691  1.0100814      0.7571158  5.381647e-01  0.5294021
##   [6152,]  0.2819933329 -1.2120050     -1.3207918 -4.381471e-01 -1.8889088
##   [6153,] -0.4244600873 -0.6564834      0.7571158 -6.163732e-01  0.5294021
##   [6154,] -1.4994446678  0.1767990     -1.3207918  2.170957e-01  0.5294021
##   [6155,] -0.0277687387  1.0100814      0.7571158  7.543949e-01 -1.8889088
##   [6156,]  1.4916570750 -0.3787226      0.7571158  5.394025e-02 -1.8889088
##   [6157,] -1.6047392850  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [6158,]  1.4071765100  0.1767990      0.7571158 -1.760631e-01  0.5294021
##   [6159,] -0.4036460351  1.0100814      0.7571158  5.709269e-01  0.5294021
##   [6160,] -0.5897481492  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [6161,] -0.8676769645 -0.3787226      0.7571158 -3.726229e-01  0.5294021
##   [6162,]  1.4426828344 -0.3787226      0.7571158  1.515714e-01  0.5294021
##   [6163,]  2.4307381379  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [6164,]  1.0325235696  1.0100814      0.7571158 -4.435988e-01  0.5294021
##   [6165,]  0.0273272819  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [6166,] -0.5848507252  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [6167,]  0.4068776463  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [6168,] -0.8676769645 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [6169,]  1.2210743958  1.0100814     -1.3207918 -3.302286e-01  0.5294021
##   [6170,]  0.4766659392 -0.9342442     -1.3207918 -3.333083e-01  0.5294021
##   [6171,] -0.1820375965  0.7323206     -1.3207918 -2.415743e-01  0.5294021
##   [6172,] -0.1881593766  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [6173,] -0.0387879428  1.0100814     -1.3207918  2.459657e-01  0.5294021
##   [6174,] -0.7464657191 -1.4897658      0.7571158 -3.333083e-01  0.5294021
##   [6175,] -0.4134408832  0.1767990      0.7571158 -2.808889e-01  0.5294021
##   [6176,]  0.3395380656 -1.2120050      0.7571158  2.707529e-02 -1.8889088
```

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##   [6177,]  0.9431455806 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [6178,] -0.6289275417  0.4545598      0.7571158 -4.381471e-01 -1.8889088
##   [6179,] -1.4027205427 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [6180,]  0.3738200340 -0.6564834     -1.3207918 -6.085103e-01  0.5294021
##   [6181,] -0.3436525904 -0.9342442      0.7571158 -3.942197e-01  0.5294021
##   [6182,]  0.4276916986 -1.2120050     -1.3207918 -5.429860e-01  0.5294021
##   [6183,] -1.0635739268  0.7323206      0.7571158  1.855203e+00  0.5294021
##   [6184,]  0.7741844506 -1.4897658      0.7571158 -1.879171e-02  0.5294021
##   [6185,]  0.5403324519  1.0100814      0.7571158  3.219346e-01  0.5294021
##   [6186,] -0.4587420557 -1.2120050     -1.3207918 -6.085103e-01 -1.8889088
##   [6187,] -1.1602980519 -0.1009618      0.7571158  2.182824e+00  0.5294021
##   [6188,]  0.5807362004 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [6189,] -1.3745603544 -0.3787226      0.7571158 -3.202034e-01  0.5294021
##   [6190,]  0.7472486183  1.0100814     -1.3207918 -2.677840e-01  0.5294021
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##   [6192,]  0.0358977740  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [6193,]  2.0254762972 -0.9342442      0.7571158 -5.233287e-01  0.5294021
##   [6194,] -0.1330633559 -0.6564834     -1.3207918 -2.808889e-01  0.5294021
##   [6195,] -0.4587420557 -1.2120050     -1.3207918  7.418002e-03  0.5294021
##   [6196,] -0.4158895952  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [6197,]  0.6946013097  1.0100814      0.7571158  5.185074e-01  0.5294021
##   [6198,] -1.4051692547  1.0100814      0.7571158 -1.826024e-01  0.5294021
##   [6199,] -0.6472928819 -1.2120050      0.7571158 -2.022597e-01 -1.8889088
##   [6200,] -1.9181744247 -1.4897658      0.7571158 -1.195419e-01  0.5294021
##   [6201,] -1.0194971102  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [6202,] -0.4709856159 -0.3787226     -1.3207918 -5.754860e-01  0.5294021
##   [6203,] -1.1125481673 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [6204,] -0.6730043582  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [6205,]  1.0986387944 -0.9342442      0.7571158 -4.381471e-01  0.5294021
##   [6206,] -1.4578165633  1.0100814     -1.3207918  1.265484e+00  0.5294021
##   [6207,] -0.7758502634  1.0100814     -1.3207918 -1.448604e-01  0.5294021
##   [6208,] -0.6362736778 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##   [6209,]  1.4904327189 -1.4897658      0.7571158 -5.954054e-01  0.5294021
##   [6210,] -0.4428254275  1.0100814      0.7571158 -3.466752e-01  0.5294021
##   [6211,]  0.2293460243  0.4545598      0.7571158 -4.500143e-02  0.5294021
##   [6212,] -0.7819720435  0.1767990     -1.3207918 -7.657686e-01  0.5294021
##   [6213,] -0.0681724872  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [6214,]  1.5969516922  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [6215,]  0.4264673426 -1.4897658     -1.3207918 -2.415743e-01 -1.8889088
##   [6216,]  0.0371221300  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [6217,] -0.2836591457  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [6218,]  0.0163080778  1.0100814      0.7571158 -3.988326e-01 -1.8889088
##   [6219,]  2.4319624939 -0.6564834      0.7571158 -1.879171e-02  0.5294021
##   [6220,] -0.3424282344  0.1767990      0.7571158  2.302006e-01  0.5294021
##   [6221,]  1.9532392923 -0.1009618      0.7571158 -1.760500e-01 -1.8889088
##   [6222,]  0.0603848943 -1.2120050      0.7571158  4.136686e-01 -1.8889088
##   [6223,] -0.0204226026 -1.2120050      0.7571158  1.122569e-01  0.5294021
##   [6224,]  0.1252757631 -0.3787226      0.7571158 -1.498403e-01  0.5294021
##   [6225,] -0.3632422866  1.0100814      0.7571158  9.868023e-02  0.5294021
##   [6226,] -0.0265443827  1.0100814      0.7571158  9.037902e-01 -1.8889088
##   [6227,]  0.7252102100 -0.9342442     -1.3207918 -4.800827e-01  0.5294021
##   [6228,]  0.2930125370  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [6229,] -1.1541762718  0.1767990      0.7571158  2.518105e-01 -1.8889088
##   [6230,] -0.9986830580 -1.2120050      0.7571158  4.791929e-01  0.5294021
##   [6231,]  0.2881151130 -0.3787226      0.7571158 -5.954054e-01  0.5294021
##   [6232,]  0.2930125370 -0.6564834     -1.3207918  6.102414e-01 -1.8889088
##   [6233,] -0.0510315030  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [6234,]  0.2477113645 -0.9342442      0.7571158  9.915200e-02  0.5294021
##   [6235,] -0.3399795223 -0.6564834      0.7571158  3.481443e-01  0.5294021
##   [6236,] -0.6252544737  0.4545598     -1.3207918 -3.726229e-01  0.5294021
##   [6237,]  0.8904982720  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6238,] -0.1367364240 -0.3787226      0.7571158 -1.879171e-02 -1.8889088
##   [6239,] -0.7550362112  0.1767990     -1.3207918 -3.595180e-01 -1.8889088
##   [6240,] -1.6830980700  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [6241,]  0.6909282416  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [6242,]  1.7095924455 -0.9342442      0.7571158  4.136686e-01 -1.8889088
##   [6243,] -1.5031177359 -1.2120050      0.7571158  6.102414e-01  0.5294021
##   [6244,] -1.7479889387  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6245,]  0.2244486002  1.0100814      0.7571158 -6.085103e-01  0.5294021
##   [6246,]  0.7607165345  0.4545598      0.7571158 -5.429860e-01 -1.8889088
##   [6247,] -1.6255533373  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [6248,] -0.1269415759  1.0100814      0.7571158  3.219346e-01  0.5294021
##   [6249,] -0.8113565878  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [6250,]  0.1020129988 -0.1009618      0.7571158 -1.760500e-01  0.5294021
##   [6251,] -1.1835608162  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [6252,] -0.1771401724  0.1767990      0.7571158 -7.657686e-01  0.5294021
##   [6253,]  0.2881151130 -1.2120050     -1.3207918  1.214303e-01  0.5294021
##   [6254,] -0.5150624324  0.1767990      0.7571158 -4.381471e-01  0.5294021
##   [6255,] -2.1446802873  1.0100814     -1.3207918  2.826200e-01 -1.8889088
##   [6256,]  0.3162753013  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [6257,]  0.2134293961  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [6258,] -1.2141697165  1.0100814     -1.3207918 -5.686855e-03  0.5294021
##   [6259,] -1.5778034527  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [6260,] -1.0819392670  1.0100814     -1.3207918  2.904829e-01  0.5294021
##   [6261,] -1.5141369400 -1.2120050     -1.3207918  7.150803e-01 -1.8889088
##   [6262,]  0.4203455625  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [6263,]  0.4950312794  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6264,] -0.9203242731 -0.3787226     -1.3207918  5.447171e-01  0.5294021
##   [6265,]  0.1387436792  1.0100814      0.7571158 -3.384919e-02  0.5294021
##   [6266,] -1.2019261564 -1.4897658     -1.3207918  4.791929e-01 -1.8889088
##   [6267,] -0.9839907858 -0.1009618      0.7571158 -1.105257e-01  0.5294021
##   [6268,]  1.1525104590 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [6269,] -1.2766118732 -0.9342442      0.7571158 -1.799815e-01 -1.8889088
##   [6270,]  0.6701141894 -1.4897658     -1.3207918 -5.954054e-01  0.5294021
##   [6271,]  0.4227942745  0.7323206      0.7571158  8.604715e-02  0.5294021
##   [6272,] -1.2153940725  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [6273,] -0.9142024930  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [6274,] -1.1651954759  1.0100814      0.7571158  8.604715e-02 -1.8889088
```

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##   [6275,] -1.5986175050  1.0100814      0.7571158  9.668829e-02 -1.8889088
##   [6276,]  0.6958256657 -0.1009618     -1.3207918 -4.381471e-01  0.5294021
##   [6277,] -1.4137397468  1.0100814     -1.3207918  3.427786e+00 -1.8889088
##   [6278,] -2.0308151780  1.0100814      0.7571158  1.227356e+01 -1.8889088
##   [6279,]  0.1203783390  1.0100814     -1.3207918  5.840317e-01  0.5294021
##   [6280,] -1.4027205427  0.1767990      0.7571158  2.052286e-02  0.5294021
##   [6281,]  0.2501600765 -1.4897658      0.7571158  2.182824e+00  0.5294021
##   [6282,] -0.8848179487 -0.6564834      0.7571158 -6.478249e-01  0.5294021
##   [6283,]  0.4056532903 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [6284,]  0.5929797605  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [6285,] -1.0011317700 -0.1009618      0.7571158  1.515714e-01  0.5294021
##   [6286,]  0.1130322029  1.0100814      0.7571158  7.543949e-01  0.5294021
##   [6287,]  1.2663755683 -0.9342442      0.7571158 -3.529656e-01  0.5294021
##   [6288,] -1.2778362292 -0.1009618      0.7571158  9.378629e-01  0.5294021
##   [6289,] -0.9325678332 -0.9342442     -1.3207918  2.433054e-01  0.5294021
##   [6290,] -0.6093378455 -0.3787226      0.7571158  8.723386e-01  0.5294021
##   [6291,] -0.0987813875  1.0100814      0.7571158 -5.810628e-02  0.5294021
##   [6292,]  1.7132655135  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [6293,] -1.5459701964  1.0100814     -1.3207918  2.182824e+00 -1.8889088
##   [6294,] -1.8826681003  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [6295,]  2.0609826216  0.4545598      0.7571158  7.294229e-02  0.5294021
##   [6296,]  0.4962556354  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [6297,]  0.4081020024  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [6298,] -0.9288947652  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [6299,] -0.2628450934  1.0100814      0.7571158  2.051776e+00 -1.8889088
##   [6300,]  0.4729928711 -0.6564834      0.7571158  2.957249e-01  0.5294021
##   [6301,] -0.4734343279 -1.4897658     -1.3207918 -4.119374e-01 -1.8889088
##   [6302,] -1.3280348258 -1.4897658     -1.3207918 -7.395589e-01 -1.8889088
##   [6303,] -0.6019917094 -0.3787226      0.7571158 -7.002443e-01  0.5294021
##   [6304,] -1.1749903241  1.0100814     -1.3207918  1.253617e-01  0.5294021
##   [6305,]  1.5087980592  0.4545598      0.7571158 -7.002443e-01  0.5294021
##   [6306,] -0.4024216791  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [6307,] -0.3767102028  0.1767990      0.7571158 -4.643569e-01 -1.8889088
##   [6308,]  0.6578706293 -0.3787226      0.7571158 -2.808889e-01  0.5294021
##   [6309,]  1.1500617470  1.0100814      0.7571158  1.396533e+00 -1.8889088
##   [6310,] -0.1575504762 -0.6564834      0.7571158 -1.879171e-02  0.5294021
##   [6311,] -0.1085762357  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [6312,] -1.5790278088 -1.2120050      0.7571158  3.481443e-01  0.5294021
##   [6313,] -0.2420310412  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [6314,] -0.8284975720  1.0100814     -1.3207918 -6.216151e-01  0.5294021
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##   [6316,]  0.6493001372  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [6317,]  0.2538331446  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [6318,] -2.0553022983 -1.2120050      0.7571158  1.620502e+01  0.5294021
##   [6319,] -0.5762802331 -1.4897658      0.7571158  5.709269e-01 -1.8889088
##   [6320,] -1.2349837687 -1.4897658      0.7571158  2.170957e-01  0.5294021
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##   [6322,]  1.1206772026 -1.4897658      0.7571158 -3.857277e-01  0.5294021
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##   [6324,] -0.3326333863 -0.9342442     -1.3207918 -1.760500e-01  0.5294021
##   [6325,] -0.4660881918  1.0100814     -1.3207918 -6.609297e-01  0.5294021
##   [6326,] -0.7807476875 -0.1009618     -1.3207918  2.170957e-01  0.5294021
##   [6327,]  0.2660767047  1.0100814     -1.3207918 -1.105257e-01 -1.8889088
##   [6328,] -0.3620179306  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [6329,]  0.5244158237  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [6330,]  0.1656795115 -0.6564834      0.7571158 -3.726229e-01  0.5294021
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##   [6332,] -0.0804160473  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [6333,] -1.0745931309 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [6334,] -0.8003373837  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [6335,]  0.7533703984 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [6336,] -1.9989819216  1.0100814     -1.3207918 -7.657686e-01  0.5294021
##   [6337,]  0.9468186486 -0.3787226      0.7571158 -6.347200e-01 -1.8889088
##   [6338,] -1.1272404395  1.0100814     -1.3207918 -5.954054e-01  0.5294021
##   [6339,] -1.2790605853  1.0100814      0.7571158  1.777811e-01 -1.8889088
##   [6340,]  0.4607493110  1.0100814      0.7571158 -3.070986e-01  0.5294021
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##   [6342,] -0.1783645285 -0.3787226     -1.3207918  2.957249e-01 -1.8889088
##   [6343,] -0.6852479184  1.0100814      0.7571158  2.489536e-01 -1.8889088
##   [6344,]  0.1693525796 -1.2120050      0.7571158  2.209034e+00 -1.8889088
##   [6345,] -0.6472928819 -0.9342442      0.7571158 -4.774617e-01  0.5294021
##   [6346,]  2.0940402340  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [6347,] -1.3990474747  1.0100814      0.7571158  1.515714e-01  0.5294021
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##   [6350,] -1.3304835379 -0.9342442      0.7571158  3.165689e+00  0.5294021
##   [6351,] -0.3277359622  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [6352,] -1.6671814418 -0.9342442      0.7571158  1.646763e-01  0.5294021
##   [6353,] -0.2959027058  1.0100814      0.7571158  3.940113e-01  0.5294021
##   [6354,]  0.6541975612  1.0100814      0.7571158  2.170957e-01  0.5294021
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##   [6357,]  1.3104523849  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [6358,] -1.2704900932  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [6359,] -0.6558633740 -0.9342442     -1.3207918 -3.857277e-01  0.5294021
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##   [6366,]  0.1877179198 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [6367,]  0.6811333935 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [6368,] -0.5089406523  1.0100814     -1.3207918  2.904829e-01  0.5294021
##   [6369,]  0.4448326828 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [6370,]  0.5525760120 -0.9342442     -1.3207918 -7.345895e-01  0.5294021
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##   [6372,] -0.2297874811  1.0100814     -1.3207918  2.052286e-02 -1.8889088
```

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##   [6381,] -1.2337594127 -0.1009618      0.7571158  1.068911e+00  0.5294021
##   [6382,] -0.9068563569  1.0100814      0.7571158  1.086661e-01  0.5294021
##   [6383,] -0.2420310412  0.1767990      0.7571158 -5.954054e-01  0.5294021
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##   [6386,]  2.0928158779 -1.4897658      0.7571158 -4.381471e-01  0.5294021
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##   [6388,] -0.1538774082 -0.9342442      0.7571158  2.170957e-01  0.5294021
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##   [6393,] -1.0672469948  1.0100814      0.7571158  1.016492e+00 -1.8889088
##   [6394,]  1.5883812001  1.0100814      0.7571158 -3.865868e-02  0.5294021
##   [6395,] -0.8052348078 -0.9342442      0.7571158 -4.119374e-01 -1.8889088
##   [6396,] -0.3473256584 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [6397,]  0.1375193232  0.4545598      0.7571158 -1.105257e-01  0.5294021
##   [6398,] -0.3314090302  0.4545598      0.7571158 -6.465871e-02  0.5294021
##   [6399,]  0.0016158056  1.0100814     -1.3207918 -5.888530e-01  0.5294021
##   [6400,] -0.3926268310 -0.1009618      0.7571158 -5.560909e-01 -1.8889088
##   [6401,] -0.4587420557  1.0100814      0.7571158  1.763469e+00  0.5294021
##   [6402,]  0.2403652284  1.0100814      0.7571158  5.983743e-02 -1.8889088
##   [6403,]  0.1473141713  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [6404,]  0.7717357386 -0.6564834      0.7571158 -3.070986e-01 -1.8889088
##   [6405,]  0.9321263765 -1.2120050      0.7571158  1.619315e+00  0.5294021
##   [6406,] -0.8737987445  0.1767990      0.7571158  1.527581e+00  0.5294021
##   [6407,] -0.4783317520  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [6408,] -0.2836591457 -0.9342442      0.7571158  1.843336e-01  0.5294021
##   [6409,] -2.1459046433 -0.9342442      0.7571158  1.227356e+01 -1.8889088
##   [6410,]  0.6419540011 -0.6564834     -1.3207918 -7.395589e-01  0.5294021
##   [6411,]  1.8944702036  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [6412,]  0.0909937947  1.0100814      0.7571158  1.914102e-01  0.5294021
##   [6413,] -0.0559289270  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [6414,] -0.4318062234  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [6415,] -1.4663870554  1.0100814      0.7571158  4.547451e-02 -1.8889088
##   [6416,] -0.9827664298 -0.6564834      0.7571158  5.971366e-01 -1.8889088
##   [6417,]  1.6495990008 -1.2120050     -1.3207918 -2.546791e-01  0.5294021
##   [6418,] -0.6987158345  1.0100814      0.7571158 -7.460064e-01  0.5294021
##   [6419,] -0.7954399596  1.0100814      0.7571158 -2.962943e-02  0.5294021
##   [6420,]  0.2991343171  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [6421,]  1.3410612852 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [6422,]  0.8096907750 -0.6564834     -1.3207918 -4.543972e-01  0.5294021
##   [6423,]  1.8283549789 -0.6564834     -1.3207918 -3.857277e-01  0.5294021
##   [6424,]  0.7643896025 -0.9342442     -1.3207918 -6.740346e-01  0.5294021
##   [6425,] -1.0476572986  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [6426,] -1.6010662170 -1.2120050     -1.3207918 -2.808889e-01  0.5294021
##   [6427,]  0.5660439282  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [6428,] -0.0449097229  1.0100814      0.7571158 -8.706074e-01  0.5294021
##   [6429,] -1.2704900932  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6430,] -1.5092395159 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [6431,] -0.3546717945 -0.1009618      0.7571158  6.102414e-01  0.5294021
##   [6432,] -1.3476245221 -1.4897658     -1.3207918  8.604715e-02  0.5294021
##   [6433,]  0.1889422758  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [6434,] -0.8982858648  0.7323206      0.7571158  1.658630e+00 -1.8889088
##   [6435,]  0.8292804713 -0.6564834      0.7571158  6.757657e-01  0.5294021
##   [6436,]  0.9345750885 -0.6564834      0.7571158  8.604715e-02 -1.8889088
##   [6437,]  1.1610809511 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [6438,]  0.3028073851  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [6439,]  0.3542303377  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [6440,] -0.0020572624  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [6441,]  0.9639596328 -0.9342442      0.7571158 -2.153646e-01  0.5294021
##   [6442,] -0.0130764665 -1.2120050      0.7571158 -4.643569e-01  0.5294021
##   [6443,]  2.4001292375  1.0100814      0.7571158 -5.691957e-01 -1.8889088
##   [6444,] -0.4073191031  1.0100814     -1.3207918  3.350394e-01 -1.8889088
##   [6445,]  0.4142237824  0.4545598     -1.3207918 -5.036714e-01 -1.8889088
##   [6446,] -1.0341893824 -0.6564834      0.7571158 -4.500143e-02  0.5294021
##   [6447,] -0.7599336352 -0.6564834      0.7571158  9.378629e-01  0.5294021
##   [6448,]  0.9480430046  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [6449,] -0.4048703911 -1.2120050     -1.3207918 -6.478249e-01  0.5294021
##   [6450,] -1.3917013386 -1.2120050      0.7571158  3.637463e+00  0.5294021
##   [6451,] -1.4663870554 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [6452,] -1.2692657371 -0.6564834      0.7571158  1.422428e+00  0.5294021
##   [6453,] -0.5970942853  1.0100814     -1.3207918 -4.905666e-01  0.5294021
##   [6454,] -1.1333622196  1.0100814     -1.3207918  5.971366e-01  0.5294021
##   [6455,] -1.0696957068  1.0100814      0.7571158  1.226170e+00 -1.8889088
##   [6456,]  0.8427483874  0.4545598     -1.3207918 -1.760500e-01  0.5294021
##   [6457,] -1.4321050870  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [6458,] -1.8177772315  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [6459,] -1.5178100080  0.4545598     -1.3207918  2.052286e-02  0.5294021
##   [6460,]  0.6554219172  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [6461,] -0.4795561080  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [6462,]  0.5697169962 -1.2120050      0.7571158  1.265484e+00  0.5294021
##   [6463,] -0.5872994372  1.0100814      0.7571158 -1.944798e-01 -1.8889088
##   [6464,] -0.4501715636  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6465,]  0.1081347789 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [6466,] -0.3730371347  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [6467,] -0.4636394798 -0.9342442      0.7571158 -1.459088e-01  0.5294021
##   [6468,] -0.1795888845 -1.2120050     -1.3207918  1.697316e+00  0.5294021
##   [6469,] -1.4712844795 -0.1009618     -1.3207918 -5.954054e-01  0.5294021
##   [6470,] -1.6157584892 -1.4897658      0.7571158  4.791929e-01 -1.8889088
```

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##   [6471,]  0.1546603074  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [6472,] -0.7170811747 -1.4897658     -1.3207918  4.791929e-01  0.5294021
##   [6473,]  2.2336168196  1.0100814     -1.3207918 -5.131069e-01  0.5294021
##   [6474,] -0.5285303485  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [6475,]  1.5039006351 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [6476,]  1.1635296631  1.0100814      0.7571158 -2.939937e-01 -1.8889088
##   [6477,] -1.5386240603 -1.4897658     -1.3207918  9.771774e-01  0.5294021
##   [6478,] -0.5689340970 -0.9342442      0.7571158 -4.500143e-02 -1.8889088
##   [6479,]  0.4374865467 -0.3787226     -1.3207918 -3.857277e-01  0.5294021
##   [6480,] -0.4109921712  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [6481,] -0.4685369038  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [6482,]  0.9174341043  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [6483,] -1.6059636411  1.0100814     -1.3207918  5.983743e-02  0.5294021
##   [6484,]  0.6713385454  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [6485,]  2.2470847357 -1.4897658     -1.3207918  4.529831e-01  0.5294021
##   [6486,] -0.4269087994  1.0100814     -1.3207918  3.219346e-01  0.5294021
##   [6487,]  0.5305376038  0.4545598      0.7571158 -2.612316e-01 -1.8889088
##   [6488,] -1.2704900932 -1.4897658      0.7571158 -2.284694e-01  0.5294021
##   [6489,]  1.7757076703 -0.6564834     -1.3207918 -4.971190e-01  0.5294021
##   [6490,]  1.2308692439  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [6491,] -1.3023233495  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [6492,] -1.8312451477 -1.4897658      0.7571158 -7.121114e-02  0.5294021
##   [6493,]  0.7852036547 -0.1009618      0.7571158 -7.121114e-02  0.5294021
##   [6494,] -0.4281331554 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [6495,] -1.1492788478 -0.3787226     -1.3207918 -4.381471e-01  0.5294021
##   [6496,] -0.7550362112 -1.2120050     -1.3207918  5.381647e-01  0.5294021
##   [6497,] -0.7489144311 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [6498,]  2.2813667041 -1.4897658      0.7571158 -5.560909e-01  0.5294021
##   [6499,] -1.7700273470 -0.6564834     -1.3207918  2.052286e-02 -1.8889088
##   [6500,] -1.5949444369  0.7323206      0.7571158  2.826200e-01  0.5294021
##   [6501,] -0.9435870374  1.0100814      0.7571158  2.838067e+00 -1.8889088
##   [6502,]  0.8464214555 -1.4897658     -1.3207918 -2.022597e-01  0.5294021
##   [6503,] -0.4416010715  1.0100814     -1.3207918 -1.105257e-01 -1.8889088
##   [6504,] -0.9509331734  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [6505,]  1.9973161088  0.1767990      0.7571158  7.294229e-02  0.5294021
##   [6506,] -0.0755186233 -1.4897658      0.7571158 -4.500143e-02 -1.8889088
##   [6507,] -1.6133097771  1.0100814      0.7571158  3.219346e-01  0.5294021
##   [6508,] -0.0289930947 -1.4897658     -1.3207918  8.723386e-01  0.5294021
##   [6509,] -1.0966315391 -1.4897658     -1.3207918 -5.247309e-01 -1.8889088
##   [6510,] -0.1636722563  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [6511,] -0.3020244859 -0.9342442     -1.3207918 -1.098443e-01  0.5294021
##   [6512,] -0.1465312721  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [6513,] -1.2031505124  1.0100814      0.7571158  2.302006e-01  0.5294021
##   [6514,] -0.9386896133  0.1767990     -1.3207918 -5.429860e-01  0.5294021
##   [6515,] -0.0461340789  1.0100814     -1.3207918 -4.250423e-01  0.5294021
##   [6516,]  1.4843109389  0.1767990      0.7571158 -2.415743e-01  0.5294021
##   [6517,] -2.0124498378 -0.3787226     -1.3207918 -4.500143e-02  0.5294021
##   [6518,]  0.5550247241  1.0100814      0.7571158 -2.284694e-01 -1.8889088
##   [6519,] -1.6671814418  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [6520,] -1.2986502815 -0.6564834     -1.3207918 -4.774617e-01  0.5294021
##   [6521,] -0.0791916913  0.4545598      0.7571158  6.102414e-01  0.5294021
##   [6522,] -1.4345537991  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [6523,]  0.4142237824  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [6524,] -0.1832619525  1.0100814     -1.3207918 -3.202034e-01  0.5294021
##   [6525,] -0.0865378274 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [6526,] -0.4416010715  1.0100814      0.7571158  3.362772e-02 -1.8889088
##   [6527,]  1.7438744139  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [6528,] -1.0390868065  1.0100814      0.7571158  2.366292e+00 -1.8889088
##   [6529,]  0.0383464861  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [6530,]  0.0873207266 -0.9342442      0.7571158  1.199960e+00  0.5294021
##   [6531,] -2.0944816907  0.7323206     -1.3207918 -3.333083e-01 -1.8889088
##   [6532,]  0.7313319901  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [6533,]  0.1607820875  0.1767990      0.7571158 -1.498403e-01 -1.8889088
##   [6534,] -0.0461340789 -0.6564834      0.7571158  3.481443e-01  0.5294021
##   [6535,]  1.7071437335  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [6536,]  0.1681282236  1.0100814      0.7571158  1.384666e-01  0.5294021
##   [6537,]  0.7656139585 -0.1009618     -1.3207918 -1.265267e-01  0.5294021
##   [6538,] -1.0966315391 -0.1009618     -1.3207918 -6.478249e-01  0.5294021
##   [6539,] -1.2153940725 -1.4897658      0.7571158  8.723386e-01 -1.8889088
##   [6540,] -1.0758174869 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [6541,]  0.0040645177  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [6542,] -1.1468301357  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [6543,] -0.2934539938 -0.6564834      0.7571158 -5.104597e-01 -1.8889088
##   [6544,]  0.0175324338 -0.1009618      0.7571158  6.495560e-01  0.5294021
##   [6545,] -1.3047720616 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [6546,]  0.5023774155 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [6547,] -0.2163195649 -0.3787226     -1.3207918 -3.726229e-01  0.5294021
##   [6548,] -0.1416338480  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [6549,]  0.0052888737  1.0100814      0.7571158 -3.595180e-01 -1.8889088
##   [6550,] -0.1428582040  0.1767990      0.7571158 -4.119374e-01  0.5294021
##   [6551,]  1.3484074213  1.0100814     -1.3207918 -4.840141e-01 -1.8889088
##   [6552,]  0.2134293961  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [6553,] -0.9692985137 -1.4897658     -1.3207918  2.170957e-01 -1.8889088
##   [6554,]  0.0505900462  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [6555,]  0.4276916986  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [6556,]  0.7827549427  1.0100814      0.7571158 -6.871394e-01  0.5294021
##   [6557,] -0.8529846923  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [6558,]  0.1118078469  1.0100814     -1.3207918 -6.740346e-01  0.5294021
##   [6559,] -1.6475917455 -0.9342442     -1.3207918  2.052286e-02  0.5294021
##   [6560,]  0.0750771665 -0.6564834      0.7571158  8.723386e-01  0.5294021
##   [6561,] -0.9839907858  1.0100814     -1.3207918  8.723386e-01  0.5294021
##   [6562,] -0.7966643157  0.7323206      0.7571158  3.951980e+00  0.5294021
##   [6563,] -1.2202914966 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##   [6564,] -0.2812104337 -0.6564834      0.7571158  2.170957e-01 -1.8889088
##   [6565,] -0.4538446317 -0.9342442      0.7571158 -4.643569e-01  0.5294021
##   [6566,]  0.1938396999 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [6567,]  0.4093263584 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [6568,] -0.1440825601  1.0100814     -1.3207918 -3.070986e-01  0.5294021
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##   [6569,] -0.6583120860 -0.9342442      0.7571158  5.447171e-01  0.5294021
##   [6570,] -0.2346849051  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [6571,] -0.9852151418 -1.4897658     -1.3207918 -5.298811e-01  0.5294021
##   [6572,] -0.2359092611 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [6573,]  0.5415568079  1.0100814      0.7571158 -2.284694e-01 -1.8889088
##   [6574,]  1.6924514613 -1.2120050      0.7571158 -7.657686e-01  0.5294021
##   [6575,]  0.2917881810 -0.9342442      0.7571158  4.673257e-02  0.5294021
##   [6576,]  0.3603521178  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [6577,] -1.7406428026 -0.1009618      0.7571158  5.447171e-01  0.5294021
##   [6578,]  2.0573095535 -1.4897658      0.7571158 -3.595180e-01 -1.8889088
##   [6579,] -2.0100011258 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [6580,] -0.6448441699  1.0100814      0.7571158 -5.691957e-01 -1.8889088
##   [6581,]  0.9260045964 -0.3787226      0.7571158 -3.988326e-01  0.5294021
##   [6582,]  1.0937413703  0.7323206     -1.3207918 -2.808889e-01  0.5294021
##   [6583,]  0.9737544809  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [6584,] -1.0562277907  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [6585,] -0.9827664298 -1.2120050      0.7571158  1.122569e-01  0.5294021
##   [6586,]  1.1084336425 -0.9342442      0.7571158 -3.464131e-01  0.5294021
##   [6587,] -0.6436198139 -1.2120050     -1.3207918 -2.808889e-01  0.5294021
##   [6588,]  0.9908954651  0.1767990     -1.3207918 -5.167763e-01 -1.8889088
##   [6589,] -1.2325350567  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [6590,] -0.8799205246  0.4545598      0.7571158  1.199960e+00 -1.8889088
##   [6591,] -0.1330633559 -0.6564834     -1.3207918 -6.478249e-01  0.5294021
##   [6592,] -1.4480217152 -1.4897658      0.7571158  1.515714e-01  0.5294021
##   [6593,] -0.3081462660  1.0100814      0.7571158 -4.119374e-01 -1.8889088
##   [6594,] -0.2224413450  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [6595,] -1.1370352876 -0.9342442     -1.3207918 -5.691957e-01  0.5294021
##   [6596,]  0.3640251858  0.1767990      0.7571158 -5.036714e-01  0.5294021
##   [6597,] -1.3635411502 -1.2120050     -1.3207918 -7.121114e-02  0.5294021
##   [6598,] -1.4210858829 -1.4897658      0.7571158 -4.643569e-01  0.5294021
##   [6599,]  0.2599549246  1.0100814      0.7571158 -5.561433e-01  0.5294021
##   [6600,] -0.6252544737 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [6601,]  1.1439399669  1.0100814      0.7571158 -2.942689e-01 -1.8889088
##   [6602,] -0.3693640667 -1.4897658      0.7571158  4.595356e-01 -1.8889088
##   [6603,] -0.2567233134  1.0100814      0.7571158 -1.772294e-01 -1.8889088
##   [6604,] -0.5775045891 -0.9342442      0.7571158  8.723386e-01  0.5294021
##   [6605,]  1.8234575548 -0.3787226     -1.3207918 -1.367354e-01  0.5294021
##   [6606,] -0.1232685078 -0.9342442      0.7571158 -5.686855e-03 -1.8889088
##   [6607,] -1.0660226388 -0.1009618      0.7571158 -3.726229e-01  0.5294021
##   [6608,]  1.3753432536 -0.1009618     -1.3207918 -4.905666e-01  0.5294021
##   [6609,] -0.4611907678 -1.4897658     -1.3207918  8.604715e-02 -1.8889088
##   [6610,] -0.7072863266 -0.9342442     -1.3207918 -1.105257e-01  0.5294021
##   [6611,]  0.2415895844 -1.4897658     -1.3207918 -4.643569e-01 -1.8889088
##   [6612,] -1.4663870554  1.0100814     -1.3207918 -2.022597e-01 -1.8889088
##   [6613,]  2.0952645900  1.0100814      0.7571158 -5.708993e-01  0.5294021
##   [6614,]  1.3031062488 -0.6564834     -1.3207918 -4.171794e-01  0.5294021
##   [6615,] -1.2472273289 -1.4897658     -1.3207918 -1.958383e-01 -1.8889088
##   [6616,]  1.3802406777 -0.3787226     -1.3207918 -6.478249e-01  0.5294021
##   [6617,] -0.4109921712 -0.9342442      0.7571158  2.052286e-02 -1.8889088
##   [6618,]  0.4938069234 -0.9342442      0.7571158  4.791929e-01  0.5294021
##   [6619,]  0.7399024822  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [6620,] -0.6913696984  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [6621,] -0.9227729851  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [6622,] -1.7675786349  1.0100814      0.7571158  9.509677e-01  0.5294021
##   [6623,]  2.0352711453  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [6624,]  0.2158781081  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [6625,]  1.0741516741  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [6626,] -0.3289603182 -0.3787226     -1.3207918  1.397043e-02 -1.8889088
##   [6627,] -1.0133753302 -0.9342442      0.7571158  1.383428e+00 -1.8889088
##   [6628,] -0.4513959196 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [6629,] -0.0351148748 -0.3787226      0.7571158  4.791929e-01 -1.8889088
##   [6630,]  0.6395052890  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [6631,] -0.6693312902  1.0100814      0.7571158  4.542209e-02  0.5294021
##   [6632,] -0.1416338480 -1.4897658      0.7571158 -7.657686e-01  0.5294021
##   [6633,] -1.0843879790 -1.2120050      0.7571158 -1.760500e-01  0.5294021
##   [6634,] -0.4966970922 -0.1009618      0.7571158 -3.726229e-01  0.5294021
##   [6635,] -0.3154924021  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [6636,] -0.8811448806  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [6637,]  0.7043961578 -0.6564834     -1.3207918  1.515714e-01  0.5294021
##   [6638,] -0.6705556462  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [6639,]  1.0986387944  1.0100814      0.7571158 -1.223928e-02  0.5294021
##   [6640,]  1.8295793349 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [6641,] -1.2153940725 -1.4897658     -1.3207918  5.447171e-01 -1.8889088
##   [6642,] -1.3341566059 -0.1009618     -1.3207918  2.184062e-01  0.5294021
##   [6643,] -0.0143008226  1.0100814      0.7571158  5.840317e-01  0.5294021
##   [6644,]  2.4723662424  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [6645,] -0.5811776571  1.0100814      0.7571158  1.134436e+00  0.5294021
##   [6646,]  0.1093591349 -0.9342442     -1.3207918 -7.121114e-02  0.5294021
##   [6647,] -1.2778362292  1.0100814      0.7571158 -2.897346e-01  0.5294021
##   [6648,] -0.6154596255  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [6649,]  1.3337151491  1.0100814      0.7571158  4.396745e-02  0.5294021
##   [6650,]  0.8011202829  1.0100814      0.7571158  4.922977e-01 -1.8889088
##   [6651,]  0.9651839888 -1.2120050      0.7571158  1.397043e-02 -1.8889088
##   [6652,]  0.1815961397  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [6653,] -0.6019917094  1.0100814      0.7571158  1.777811e-01  0.5294021
##   [6654,] -1.3255861138  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [6655,]  1.8320280469  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [6656,] -0.2101977848 -0.9342442      0.7571158  4.008389e-01  0.5294021
##   [6657,]  1.6544964249  0.1767990     -1.3207918 -6.216151e-01 -1.8889088
##   [6658,] -0.5921968613 -0.9342442     -1.3207918 -4.381471e-01 -1.8889088
##   [6659,] -0.9215486291 -0.6564834     -1.3207918 -3.726229e-01  0.5294021
##   [6660,]  1.6826566132  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [6661,]  1.6593938489  1.0100814      0.7571158 -8.597042e-01  0.5294021
##   [6662,]  0.4656467350 -0.9342442      0.7571158 -6.740346e-01  0.5294021
##   [6663,] -1.2068235804  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [6664,] -0.6374980338 -0.1009618      0.7571158  5.328500e-02 -1.8889088
##   [6665,] -0.6179083376  1.0100814      0.7571158  9.378629e-01  0.5294021
##   [6666,]  0.9529404287 -0.1009618      0.7571158 -3.595180e-01 -1.8889088
```

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##   [6667,] -0.6681069342 -0.3787226     -1.3207918 -3.162720e-01 -1.8889088
##   [6668,] -0.2016272927  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [6669,] -0.0118521105 -0.9342442     -1.3207918 -5.429860e-01  0.5294021
##   [6670,] -0.5419982647  0.7323206      0.7571158  3.493310e+00  0.5294021
##   [6671,] -1.5349509922  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [6672,] -0.7072863266 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [6673,]  0.8733572878 -1.2120050      0.7571158 -3.922801e-01  0.5294021
##   [6674,] -0.6607607981  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [6675,]  0.0628336063 -0.9342442     -1.3207918 -2.808889e-01 -1.8889088
##   [6676,] -0.4085434591 -0.6564834     -1.3207918 -3.464131e-01  0.5294021
##   [6677,] -0.0865378274  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [6678,] -0.7060619706  0.1767990      0.7571158  8.461289e-01  0.5294021
##   [6679,] -0.1538774082 -1.4897658      0.7571158 -6.347200e-01  0.5294021
##   [6680,] -1.0611252147 -1.2120050      0.7571158  2.248349e+00 -1.8889088
##   [6681,]  1.4145226461  1.0100814     -1.3207918  1.122569e-01 -1.8889088
##   [6682,] -0.2101977848  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6683,]  0.9957928892  1.0100814      0.7571158  2.957249e-01  0.5294021
##   [6684,] -0.3191654701  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [6685,] -0.9913369219  1.0100814      0.7571158  2.969116e+00 -1.8889088
##   [6686,]  1.7132655135  1.0100814      0.7571158 -4.581452e-01 -1.8889088
##   [6687,] -1.0709200628 -0.6564834     -1.3207918  1.253617e-01  0.5294021
##   [6688,]  0.0652823184 -1.2120050      0.7571158  1.646763e-01 -1.8889088
##   [6689,]  0.7717357386  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [6690,]  1.3410612852  0.7323206     -1.3207918 -1.563927e-01  0.5294021
##   [6691,] -1.3745603544  0.7323206      0.7571158 -2.206065e-01  0.5294021
##   [6692,]  0.5795118444 -0.6564834     -1.3207918 -1.105257e-01  0.5294021
##   [6693,]  0.2207755322  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [6694,] -1.0537790786 -0.1009618      0.7571158  8.604715e-02  0.5294021
##   [6695,] -1.4051692547  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [6696,] -0.7476900751  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [6697,] -0.0718455552 -0.9342442     -1.3207918 -5.429860e-01  0.5294021
##   [6698,] -0.2077490728  1.0100814      0.7571158 -5.298811e-01 -1.8889088
##   [6699,] -0.1110249477  1.0100814      0.7571158 -3.005461e-01  0.5294021
##   [6700,] -0.3130436900  1.0100814     -1.3207918 -5.686855e-03  0.5294021
##   [6701,] -0.4709856159 -0.3787226      0.7571158 -6.609297e-01  0.5294021
##   [6702,] -0.5579148929  0.1767990      0.7571158  3.743540e-01  0.5294021
##   [6703,] -0.3583448626 -0.6564834     -1.3207918 -1.879171e-02  0.5294021
##   [6704,] -0.7183055307 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [6705,] -0.2518258893  1.0100814     -1.3207918 -7.264540e-01 -1.8889088
##   [6706,] -1.1615224079  0.7323206     -1.3207918  1.527581e+00  0.5294021
##   [6707,] -0.9925612779 -0.3787226     -1.3207918  2.052286e-02  0.5294021
##   [6708,] -0.5432226207 -0.1009618      0.7571158  8.604715e-02 -1.8889088
##   [6709,]  0.6615436973  1.0100814      0.7571158 -4.838569e-01  0.5294021
##   [6710,]  1.0227287215 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [6711,] -0.7868694675  1.0100814     -1.3207918  6.757657e-01 -1.8889088
##   [6712,]  0.4350378347 -1.2120050     -1.3207918  2.433054e-01  0.5294021
##   [6713,]  2.0683287577 -0.9342442      0.7571158 -5.036714e-01  0.5294021
##   [6714,]  2.2115784113  1.0100814      0.7571158 -5.072753e-01  0.5294021
##   [6715,]  0.6909282416  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##   [6716,] -0.8382924201 -1.4897658      0.7571158  1.068911e+00 -1.8889088
##   [6717,] -0.8138052999  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [6718,] -0.7121837507 -1.2120050     -1.3207918  8.723386e-01 -1.8889088
##   [6719,] -0.7085106826  0.1767990      0.7571158  1.475162e+00 -1.8889088
##   [6720,]  0.2073076160  1.0100814      0.7571158  2.228881e-01  0.5294021
##   [6721,]  1.1623053071  0.1767990     -1.3207918 -4.500143e-02 -1.8889088
##   [6722,] -1.6488161016  1.0100814      0.7571158 -3.857277e-01 -1.8889088
##   [6723,] -0.1955055127 -1.4897658     -1.3207918 -2.088121e-01 -1.8889088
##   [6724,] -0.2004029367 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [6725,] -0.8150296559 -0.3787226     -1.3207918  2.170957e-01  0.5294021
##   [6726,] -1.1284647955 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [6727,]  1.4990032110  1.0100814      0.7571158  7.543949e-01  0.5294021
##   [6728,] -1.1370352876  1.0100814      0.7571158 -8.431600e-02 -1.8889088
##   [6729,] -1.8312451477 -1.4897658     -1.3207918 -8.312929e-01  0.5294021
##   [6730,] -0.9056320009 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [6731,]  2.2899371962 -0.9342442      0.7571158 -2.743364e-01  0.5294021
##   [6732,]  1.5589966557 -1.4897658     -1.3207918 -5.036714e-01 -1.8889088
##   [6733,]  2.2091296993  0.7323206     -1.3207918 -2.415743e-01 -1.8889088
##   [6734,]  0.1852692078 -0.1009618      0.7571158 -6.740346e-01  0.5294021
##   [6735,] -0.4024216791 -0.9342442     -1.3207918 -2.284694e-01  0.5294021
##   [6736,] -0.3412038784  1.0100814      0.7571158 -1.069219e-01 -1.8889088
##   [6737,]  0.6860308176  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [6738,] -1.2998746375  0.4545598      0.7571158 -1.760500e-01  0.5294021
##   [6739,]  0.5158453316  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [6740,]  0.4117750704 -0.9342442      0.7571158  1.003387e+00  0.5294021
##   [6741,]  0.5660439282 -1.2120050      0.7571158  1.646763e-01  0.5294021
##   [6742,]  2.5397058231 -1.4897658      0.7571158  5.983743e-02  0.5294021
##   [6743,] -0.8236001480 -1.4897658      0.7571158  9.116531e-01  0.5294021
##   [6744,]  1.2602537883  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [6745,]  0.0616092503  1.0100814      0.7571158 -5.810628e-02  0.5294021
##   [6746,]  1.9948673968  1.0100814     -1.3207918 -5.823006e-01  0.5294021
##   [6747,]  0.9357994445  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [6748,] -1.1700929000  1.0100814      0.7571158  2.182824e+00 -1.8889088
##   [6749,] -1.0941828271  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6750,]  1.3153498089 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [6751,]  0.0971155747 -0.1009618     -1.3207918 -3.333083e-01  0.5294021
##   [6752,]  1.8871240676 -1.4897658      0.7571158 -3.595180e-01  0.5294021
##   [6753,] -1.1407083557 -0.3787226      0.7571158  3.533862e-01  0.5294021
##   [6754,] -0.6191326936  1.0100814      0.7571158  1.396533e+00  0.5294021
##   [6755,] -1.0256188903  1.0100814     -1.3207918  5.130820e-01  0.5294021
##   [6756,]  0.9100879682  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [6757,] -0.6987158345 -1.2120050      0.7571158  3.481443e-01 -1.8889088
##   [6758,] -0.2359092611 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [6759,] -0.0840891154 -1.2120050     -1.3207918 -7.264540e-01  0.5294021
##   [6760,] -0.4758830399 -0.1009618     -1.3207918 -1.498403e-01 -1.8889088
##   [6761,] -0.3326333863 -0.3787226      0.7571158  3.481443e-01 -1.8889088
##   [6762,]  0.0530387582  1.0100814      0.7571158 -3.857277e-01  0.5294021
##   [6763,] -0.6436198139 -0.6564834      0.7571158 -4.800827e-01  0.5294021
##   [6764,]  0.8170369111 -0.6564834      0.7571158 -6.216151e-01 -1.8889088
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##   [6765,]  0.3089291652 -0.6564834      0.7571158  1.326087e-01  0.5294021
##   [6766,] -1.0145996862 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [6767,]  0.0775258785  0.4545598     -1.3207918  2.838067e+00  0.5294021
##   [6768,]  2.0940402340 -0.1009618      0.7571158  2.052286e-02  0.5294021
##   [6769,] -0.9362409013  1.0100814      0.7571158 -7.383211e-02  0.5294021
##   [6770,] -0.0314418068  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [6771,]  0.2244486002 -0.6564834      0.7571158 -1.105257e-01  0.5294021
##   [6772,]  0.9235558844  1.0100814      0.7571158 -5.560909e-01  0.5294021
##   [6773,]  0.8513188795  0.7323206      0.7571158 -1.879171e-02  0.5294021
##   [6774,] -1.0231701783 -1.4897658     -1.3207918  3.493310e+00  0.5294021
##   [6775,] -0.4379280035  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [6776,]  1.7340795658  1.0100814     -1.3207918 -7.015548e-01 -1.8889088
##   [6777,] -1.1909069522  1.0100814     -1.3207918 -1.348483e-01  0.5294021
##   [6778,] -0.6607607981 -1.4897658     -1.3207918  1.515714e-01  0.5294021
##   [6779,] -0.0204226026  0.1767990     -1.3207918 -7.788734e-01  0.5294021
##   [6780,] -0.6546390180  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [6781,] -1.0048048381 -0.1009618      0.7571158 -3.726229e-01  0.5294021
##   [6782,]  0.6554219172  1.0100814      0.7571158 -3.215794e-01  0.5294021
##   [6783,] -0.1967298687 -0.6564834      0.7571158  2.826200e-01  0.5294021
##   [6784,] -1.8079823834  1.0100814      0.7571158  5.983743e-02  0.5294021
##   [6785,]  0.3517816257  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [6786,]  1.4892083629  0.1767990     -1.3207918 -5.823006e-01 -1.8889088
##   [6787,] -0.4318062234 -0.1009618      0.7571158 -1.105257e-01  0.5294021
##   [6788,] -0.8260488600  1.0100814      0.7571158 -5.964800e-01  0.5294021
##   [6789,]  1.8932458476 -0.9342442      0.7571158  2.170957e-01 -1.8889088
##   [6790,]  0.7215371420  1.0100814      0.7571158  3.292078e-01  0.5294021
##   [6791,] -0.1746914604  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [6792,]  0.5146209756  1.0100814     -1.3207918 -4.905666e-01 -1.8889088
##   [6793,] -0.4367036475  1.0100814      0.7571158  1.684840e+00  0.5294021
##   [6794,] -1.2876310774 -0.6564834      0.7571158  3.743540e-01 -1.8889088
##   [6795,]  1.0006903132 -0.3787226     -1.3207918 -6.216151e-01  0.5294021
##   [6796,]  1.4157470021  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [6797,] -0.5113893643 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [6798,] -0.2150952089  1.0100814     -1.3207918 -4.500143e-02 -1.8889088
##   [6799,] -0.7293247349  1.0100814      0.7571158 -2.312346e-01 -1.8889088
##   [6800,] -0.0571532831  1.0100814     -1.3207918  2.170957e-01 -1.8889088
##   [6801,] -1.4810793276 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [6802,] -0.0877621834  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [6803,]  0.1130322029  1.0100814      0.7571158 -4.512520e-01 -1.8889088
##   [6804,] -0.8333949961 -1.4897658      0.7571158 -1.498403e-01  0.5294021
##   [6805,] -0.4832291760  1.0100814     -1.3207918  1.384666e-01  0.5294021
##   [6806,] -1.2349837687 -0.1009618      0.7571158 -7.395589e-01  0.5294021
##   [6807,]  1.0937413703  1.0100814      0.7571158 -3.202034e-01  0.5294021
##   [6808,] -0.5297547045  0.1767990      0.7571158  8.723386e-01  0.5294021
##   [6809,] -1.1309135075  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [6810,]  0.9749788369  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [6811,]  0.2697497727  1.0100814     -1.3207918 -3.202034e-01 -1.8889088
##   [6812,] -0.2150952089 -1.2120050      0.7571158  7.412900e-01  0.5294021
##   [6813,]  0.8317291833 -0.3787226     -1.3207918 -4.500143e-02  0.5294021
##   [6814,] -1.2900797894 -0.6564834      0.7571158 -4.512520e-01  0.5294021
##   [6815,] -0.7831963995  0.1767990      0.7571158 -3.070986e-01  0.5294021
##   [6816,] -0.4673125478 -0.6564834     -1.3207918  4.660880e-01  0.5294021
##   [6817,] -0.6925940544  0.7323206      0.7571158 -1.105257e-01  0.5294021
##   [6818,] -1.5178100080 -0.1009618      0.7571158  1.188093e-01  0.5294021
##   [6819,] -0.2714155855 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [6820,] -1.3512975901 -0.9342442      0.7571158 -1.367354e-01  0.5294021
##   [6821,] -0.9790933618  1.0100814     -1.3207918  4.922977e-01  0.5294021
##   [6822,] -0.1183710838  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [6823,]  0.8060177070 -0.9342442     -1.3207918  2.052286e-02  0.5294021
##   [6824,]  1.7340795658  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [6825,] -1.9316423409 -0.6564834     -1.3207918 -6.609297e-01 -1.8889088
##   [6826,] -1.6439186775 -1.4897658     -1.3207918  2.826200e-01 -1.8889088
##   [6827,]  1.2394397360 -0.9342442      0.7571158 -3.988326e-01  0.5294021
##   [6828,] -1.2227402086 -1.4897658      0.7571158 -4.089364e-01  0.5294021
##   [6829,]  1.4537020385  0.1767990      0.7571158 -1.760500e-01  0.5294021
##   [6830,]  0.4081020024 -1.4897658     -1.3207918 -6.216151e-01 -1.8889088
##   [6831,]  0.9162097483 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [6832,] -1.4198615269  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [6833,] -1.4088423228  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [6834,] -0.3779345588  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [6835,]  0.2893394690 -1.4897658      0.7571158 -5.686855e-03 -1.8889088
##   [6836,] -2.1985519520 -1.4897658     -1.3207918 -1.105257e-01 -1.8889088
##   [6837,]  0.8990687641 -0.3787226     -1.3207918  1.003387e+00  0.5294021
##   [6838,]  0.9162097483  0.1767990      0.7571158  4.922977e-01 -1.8889088
##   [6839,] -1.2533491090 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [6840,] -1.1223430154 -0.3787226      0.7571158  4.005637e-01  0.5294021
##   [6841,]  0.2844420449 -1.4897658      0.7571158 -7.121114e-02  0.5294021
##   [6842,]  1.7095924455  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [6843,] -1.3574193702 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [6844,] -1.3157912657  1.0100814      0.7571158  4.005637e-01 -1.8889088
##   [6845,]  0.7668383145 -0.9342442      0.7571158  5.447171e-01  0.5294021
##   [6846,]  0.4338134787  1.0100814      0.7571158 -2.612316e-01 -1.8889088
##   [6847,] -0.2346849051  1.0100814      0.7571158 -6.135950e-01  0.5294021
##   [6848,] -1.1725416120 -0.6564834      0.7571158 -1.367354e-01  0.5294021
##   [6849,]  0.1583333755 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [6850,] -0.7782989754  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [6851,] -0.5934212173  0.1767990     -1.3207918 -4.500143e-02  0.5294021
##   [6852,] -0.2163195649  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [6853,] -1.5484189084 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [6854,]  1.4255418502 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [6855,]  0.1105834909 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [6856,] -1.8998090845 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [6857,] -1.2202914966  0.1767990     -1.3207918  2.078830e-01  0.5294021
##   [6858,] -0.5983186413  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [6859,]  1.6018491162 -0.9342442      0.7571158 -5.036714e-01 -1.8889088
##   [6860,] -1.3059964176 -1.2120050     -1.3207918 -1.120983e-01  0.5294021
##   [6861,] -1.3855795585  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [6862,]  0.9859980411 -1.2120050      0.7571158 -9.742085e-02  0.5294021
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##   [6863,] -0.0449097229  0.1767990     -1.3207918 -4.840141e-01  0.5294021
##   [6864,] -0.2077490728 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [6865,] -0.0767429793  0.1767990      0.7571158 -1.760500e-01 -1.8889088
##   [6866,] -1.0170483982 -0.3787226     -1.3207918 -8.431600e-02  0.5294021
##   [6867,] -0.4917996681  0.1767990      0.7571158 -4.500143e-02  0.5294021
##   [6868,] -1.4382268671 -0.1009618      0.7571158 -4.500143e-02 -1.8889088
##   [6869,] -0.0963326755  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [6870,] -1.2582465330  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [6871,] -0.9031832889 -1.4897658     -1.3207918 -6.740346e-01  0.5294021
##   [6872,]  1.2651512123  1.0100814      0.7571158 -4.184899e-01 -1.8889088
##   [6873,] -0.6521903060 -0.1009618     -1.3207918 -6.216151e-01  0.5294021
##   [6874,] -0.2983514179 -1.2120050      0.7571158  1.908860e-01  0.5294021
##   [6875,] -1.1419327117  1.0100814     -1.3207918  4.398783e-01  0.5294021
##   [6876,] -0.1563261202 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [6877,] -0.0853134714  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [6878,]  1.5638940798  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [6879,]  0.3126022332 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [6880,]  0.3799418140  1.0100814      0.7571158  6.757657e-01 -1.8889088
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##   [6883,]  0.0873207266 -0.6564834     -1.3207918 -6.438934e-01  0.5294021
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##   [6885,]  0.0077375857  0.7323206      0.7571158 -1.105257e-01  0.5294021
##   [6886,] -0.4526202757 -0.6564834     -1.3207918 -2.677840e-01  0.5294021
##   [6887,]  1.0423184177  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [6888,] -1.8263477236 -0.3787226      0.7571158  2.182824e+00  0.5294021
##   [6889,]  1.3006575367  1.0100814     -1.3207918 -6.757120e-01  0.5294021
##   [6890,] -0.4256844433 -0.9342442      0.7571158 -1.105257e-01 -1.8889088
##   [6891,]  0.9517160727 -1.4897658     -1.3207918 -3.726229e-01 -1.8889088
##   [6892,] -1.8373669278  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [6893,] -0.2799860776 -0.3787226     -1.3207918 -3.270400e-01  0.5294021
##   [6894,] -0.9129781370  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [6895,] -0.4979214482  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [6896,] -0.7219785988  0.7323206      0.7571158 -5.167763e-01  0.5294021
##   [6897,] -1.1174455914  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [6898,] -1.2839580093  1.0100814      0.7571158 -4.500143e-02  0.5294021
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##   [6900,] -0.4256844433 -0.9342442      0.7571158 -2.677840e-01  0.5294021
##   [6901,] -0.5187355004  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [6902,]  0.9823249730 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [6903,] -0.4305818674 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [6904,] -0.0657237752  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [6905,] -1.2080479364  1.0100814      0.7571158  2.826200e-01  0.5294021
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##   [6908,] -0.8591064724  1.0100814      0.7571158  1.317904e+00  0.5294021
##   [6909,]  0.3407624216 -1.4897658      0.7571158  6.102414e-01  0.5294021
##   [6910,] -0.5077162963 -0.9342442     -1.3207918  2.170957e-01 -1.8889088
##   [6911,] -0.1710183924  1.0100814      0.7571158 -3.700019e-01  0.5294021
##   [6912,] -1.3659898623 -0.9342442     -1.3207918  7.418002e-03  0.5294021
##   [6913,]  0.4203455625 -0.9342442     -1.3207918 -6.478249e-01 -1.8889088
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##   [6915,] -1.4125153908  0.1767990      0.7571158  5.329228e-01  0.5294021
##   [6916,] -0.6779017823  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [6917,]  0.8133638431  1.0100814      0.7571158 -4.053850e-01 -1.8889088
##   [6918,] -1.0843879790 -0.9342442     -1.3207918  2.032439e-01  0.5294021
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##   [6921,] -0.3240628942 -1.4897658      0.7571158  2.170957e-01  0.5294021
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##   [6925,]  1.7242847177  1.0100814      0.7571158 -1.138675e-01  0.5294021
##   [6926,] -0.6191326936 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [6927,] -0.0889865394  1.0100814      0.7571158 -1.105257e-01 -1.8889088
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##   [6931,]  0.2697497727 -0.1009618     -1.3207918 -2.022597e-01  0.5294021
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##   [6934,]  0.2342434483 -0.9342442      0.7571158 -1.760500e-01  0.5294021
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##   [6941,] -0.5101650083  0.7323206      0.7571158  2.170957e-01  0.5294021
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##   [6943,]  1.3496317773  1.0100814      0.7571158 -1.498403e-01  0.5294021
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##   [6953,]  0.3566790498 -1.4897658      0.7571158  7.674997e-01  0.5294021
##   [6954,] -1.0672469948  0.1767990      0.7571158 -6.609297e-01  0.5294021
##   [6955,] -0.5395495527 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [6956,] -0.5824020132 -1.4897658     -1.3207918  1.068911e+00 -1.8889088
##   [6957,]  0.2783202648  1.0100814      0.7571158  3.486545e-03 -1.8889088
##   [6958,]  0.2660767047 -1.4897658     -1.3207918 -3.398607e-01  0.5294021
##   [6959,]  0.1252757631  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [6960,]  0.3089291652  1.0100814     -1.3207918 -1.105257e-01 -1.8889088
```

```
##   [6961,]  0.3407624216  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [6962,] -0.2836591457 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [6963,] -0.5664853850 -0.9342442     -1.3207918 -4.643569e-01  0.5294021
##   [6964,]  0.4889094993 -0.6564834     -1.3207918 -5.954054e-01  0.5294021
##   [6965,] -0.4820048200  0.7323206     -1.3207918 -6.027441e-01  0.5294021
##   [6966,]  2.0352711453  1.0100814     -1.3207918 -8.024622e-01 -1.8889088
##   [6967,] -1.1125481673 -1.4897658      0.7571158  1.908860e-01  0.5294021
##   [6968,]  0.0934425067 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [6969,] -1.2288619887 -1.4897658     -1.3207918 -3.333083e-01  0.5294021
##   [6970,] -1.0831636230  1.0100814      0.7571158 -1.432879e-01  0.5294021
##   [6971,] -0.7831963995 -1.2120050      0.7571158  7.412900e-01  0.5294021
##   [6972,] -0.6705556462  0.4545598      0.7571158 -8.064664e-02  0.5294021
##   [6973,] -1.8312451477 -0.9342442      0.7571158  6.102414e-01  0.5294021
##   [6974,] -0.6289275417  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [6975,]  0.2330190923 -0.6564834     -1.3207918  1.908860e-01 -1.8889088
##   [6976,] -1.8275720796 -1.2120050     -1.3207918 -2.153646e-01  0.5294021
##   [6977,]  0.4778902952 -0.6564834     -1.3207918 -5.429860e-01  0.5294021
##   [6978,] -0.2506015333  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [6979,] -1.6769762899  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [6980,]  1.7622397541  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [6981,] -0.1906080886  0.4545598      0.7571158 -3.857277e-01  0.5294021
##   [6982,] -0.4942483801  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [6983,] -0.5542418248 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [6984,]  2.0058866009  1.0100814     -1.3207918 -4.500143e-02 -1.8889088
##   [6985,]  0.7141910059  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [6986,]  0.2611792806 -0.6564834      0.7571158  8.604715e-02 -1.8889088
##   [6987,] -1.1823364601 -1.2120050     -1.3207918  8.592337e-01 -1.8889088
##   [6988,] -0.2885565697 -0.6564834     -1.3207918 -6.216151e-01  0.5294021
##   [6989,]  1.0031390253 -0.9342442     -1.3207918 -5.036714e-01  0.5294021
##   [6990,] -1.1186699474 -0.3787226     -1.3207918  4.791929e-01  0.5294021
##   [6991,] -1.4198615269  1.0100814     -1.3207918 -4.381471e-01 -1.8889088
##   [6992,]  1.3092280288  1.0100814     -1.3207918  7.418002e-03  0.5294021
##   [6993,]  0.0738528105  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [6994,]  0.3799418140 -1.2120050      0.7571158  2.564103e-01  0.5294021
##   [6995,]  1.1353694748 -0.1009618     -1.3207918  2.180655e-01  0.5294021
##   [6996,]  1.3704458295 -1.2120050     -1.3207918 -5.429860e-01  0.5294021
##   [6997,] -0.3975242550  1.0100814     -1.3207918  8.604715e-02 -1.8889088
##   [6998,]  0.8733572878 -0.3787226      0.7571158  3.481443e-01  0.5294021
##   [6999,] -1.4455730032  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [7000,] -0.4513959196 -1.2120050      0.7571158 -4.905666e-01 -1.8889088
##   [7001,] -0.2420310412  1.0100814      0.7571158  5.054026e-01  0.5294021
##   [7002,] -0.2285631250  1.0100814     -1.3207918 -5.686855e-03  0.5294021
##   [7003,]  0.0383464861 -1.4897658      0.7571158  6.102414e-01 -1.8889088
##   [7004,]  1.5308364674  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [7005,] -0.9435870374 -0.1009618     -1.3207918 -2.612316e-01  0.5294021
##   [7006,]  0.2232242442  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [7007,]  0.0652823184  1.0100814     -1.3207918 -7.067967e-01  0.5294021
##   [7008,] -0.0118521105 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [7009,] -1.9365397649 -1.2120050      0.7571158  8.723386e-01 -1.8889088
##   [7010,] -0.1489799841 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [7011,] -0.2089734288  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [7012,] -0.4513959196 -0.6564834      0.7571158 -3.726229e-01 -1.8889088
##   [7013,]  0.4129994264  0.1767990      0.7571158  7.412900e-01 -1.8889088
##   [7014,]  1.0986387944  1.0100814      0.7571158 -6.740346e-01  0.5294021
##   [7015,]  0.9162097483 -0.6564834     -1.3207918 -5.691957e-01  0.5294021
##   [7016,]  0.1534359514 -0.1009618     -1.3207918  1.057044e-01  0.5294021
##   [7017,] -1.4590409194 -0.3787226     -1.3207918 -2.546791e-01 -1.8889088
##   [7018,]  1.6336823726  1.0100814     -1.3207918 -7.788734e-01  0.5294021
##   [7019,] -1.0537790786 -0.3787226     -1.3207918  2.826200e-01  0.5294021
##   [7020,] -0.2518258893  1.0100814      0.7571158 -3.857277e-01  0.5294021
##   [7021,]  0.3811661700  0.4545598     -1.3207918 -4.119374e-01  0.5294021
##   [7022,]  2.1589311027  1.0100814      0.7571158 -4.958085e-01 -1.8889088
##   [7023,] -1.1896825962 -0.9342442     -1.3207918 -4.500143e-02  0.5294021
##   [7024,]  1.2614781443  1.0100814     -1.3207918 -4.709093e-01  0.5294021
##   [7025,] -0.5824020132 -0.6564834      0.7571158  1.908860e-01 -1.8889088
##   [7026,] -0.0240956707 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [7027,] -1.2668170251 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [7028,]  0.3297432174 -1.4897658     -1.3207918 -9.012145e-02  0.5294021
##   [7029,] -0.5909725053  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7030,] -1.5827008768 -1.4897658      0.7571158 -2.546791e-01  0.5294021
##   [7031,]  0.3272945054 -0.9342442     -1.3207918 -7.330064e-01  0.5294021
##   [7032,]  0.7362294142 -1.2120050     -1.3207918 -1.891549e-01  0.5294021
##   [7033,]  1.2737217044 -1.2120050     -1.3207918 -6.740346e-01  0.5294021
##   [7034,] -0.1195954398 -0.9342442      0.7571158  7.052516e-01 -1.8889088
##   [7035,]  0.1595577315 -1.4897658      0.7571158 -3.464131e-01  0.5294021
##   [7036,] -1.1333622196 -1.4897658      0.7571158  7.418002e-03  0.5294021
##   [7037,] -1.0072535501 -0.9342442      0.7571158  8.068143e-01  0.5294021
##   [7038,] -0.1808132405  1.0100814      0.7571158  7.543949e-01  0.5294021
##   [7039,]  0.3860635941  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [7040,]  2.2532065158 -0.6564834     -1.3207918 -2.153646e-01  0.5294021
##   [7041,] -1.3439514540  1.0100814      0.7571158  1.986251e+00  0.5294021
##   [7042,] -1.2802849413 -1.4897658     -1.3207918  4.673257e-02  0.5294021
##   [7043,] -1.2092722925 -1.4897658      0.7571158  4.292706e+00  0.5294021
##   [7044,]  1.4010547299  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [7045,] -0.0718455552  0.4545598      0.7571158 -8.431600e-02 -1.8889088
##   [7046,] -1.1982530883  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [7047,] -0.0877621834  1.0100814     -1.3207918  5.578220e-01  0.5294021
##   [7048,] -1.1639711199  0.1767990      0.7571158  1.068911e+00  0.5294021
##   [7049,] -1.3745603544  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [7050,] -0.6032160654  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [7051,]  0.2183268202  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [7052,] -0.6925940544  0.1767990      0.7571158  1.658630e+00  0.5294021
##   [7053,] -0.7758502634  1.0100814      0.7571158  7.294229e-02 -1.8889088
##   [7054,] -0.6717800022 -1.2120050     -1.3207918 -9.742085e-02  0.5294021
##   [7055,] -0.8591064724  1.0100814      0.7571158  1.855203e+00 -1.8889088
##   [7056,]  1.4622725306 -0.9342442     -1.3207918 -4.643569e-01  0.5294021
##   [7057,]  1.0545619779  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [7058,]  2.3144243165  1.0100814     -1.3207918 -8.312929e-01  0.5294021
```

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##   [7059,] -0.3179411141 -0.6564834      0.7571158  1.003387e+00  0.5294021
##   [7060,]  1.8369254710  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [7061,]  0.4191212065 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [7062,]  0.8647867957  1.0100814      0.7571158 -2.284694e-01 -1.8889088
##   [7063,] -1.6292264053 -1.2120050      0.7571158  3.874589e-01 -1.8889088
##   [7064,] -0.3571205065  0.4545598      0.7571158  3.481443e-01  0.5294021
##   [7065,] -1.5851495888  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [7066,] -0.7415682950 -1.2120050     -1.3207918 -2.808889e-01 -1.8889088
##   [7067,] -1.6059636411  1.0100814     -1.3207918 -2.939937e-01  0.5294021
##   [7068,] -0.3154924021  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [7069,]  0.9015174761 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [7070,] -1.3304835379 -0.6564834      0.7571158  7.543949e-01  0.5294021
##   [7071,]  0.8256074032 -1.4897658      0.7571158  1.908860e-01  0.5294021
##   [7072,] -1.5520919764  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [7073,]  0.2807689769  0.1767990      0.7571158  3.919800e-01  0.5294021
##   [7074,]  0.3223970814  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [7075,] -0.1967298687  1.0100814     -1.3207918  3.481443e-01 -1.8889088
##   [7076,]  1.8099896387  0.7323206      0.7571158 -5.823006e-01  0.5294021
##   [7077,] -1.7283992425 -0.3787226     -1.3207918 -7.657686e-01  0.5294021
##   [7078,] -0.9864394979  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7079,]  0.3077048092 -1.2120050      0.7571158  4.673257e-02 -1.8889088
##   [7080,] -0.6044404214 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [7081,]  0.9725301249 -1.2120050     -1.3207918 -4.643569e-01 -1.8889088
##   [7082,] -0.2334605491 -1.4897658      0.7571158  4.136686e-01 -1.8889088
##   [7083,]  1.0300748576 -0.1009618      0.7571158  2.052286e-02  0.5294021
##   [7084,]  1.4990032110  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7085,] -0.2518258893 -0.6564834      0.7571158  1.253617e-01 -1.8889088
##   [7086,] -0.2040760048  1.0100814     -1.3207918 -5.429860e-01  0.5294021
##   [7087,] -0.0693968432  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [7088,] -0.0204226026  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [7089,] -0.0498071470  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [7090,] -1.7712517030 -0.9342442     -1.3207918 -3.385502e-01  0.5294021
##   [7091,] -1.4186371709  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [7092,] -0.3179411141  1.0100814      0.7571158  5.983743e-02 -1.8889088
##   [7093,] -0.6411711018  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [7094,]  0.2599549246 -0.9342442      0.7571158 -2.022597e-01 -1.8889088
##   [7095,] -1.6108610651 -0.6564834     -1.3207918  2.170957e-01  0.5294021
##   [7096,] -1.7614568549  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [7097,] -0.4195626633  1.0100814     -1.3207918 -3.267559e-01 -1.8889088
##   [7098,]  1.4267662062 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [7099,]  0.2171024641 -1.4897658      0.7571158 -2.808889e-01  0.5294021
##   [7100,] -1.7014634102  0.7323206      0.7571158  7.412900e-01  0.5294021
##   [7101,]  1.3226959450 -1.2120050      0.7571158  1.773880e-01  0.5294021
##   [7102,] -0.0179738906  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [7103,]  0.9235558844  0.4545598      0.7571158 -4.512520e-01  0.5294021
##   [7104,] -1.1615224079 -1.2120050      0.7571158  5.983743e-02  0.5294021
##   [7105,] -1.0354137384 -0.3787226     -1.3207918 -2.022597e-01  0.5294021
##   [7106,] -0.1551017642  1.0100814      0.7571158 -3.495583e-01  0.5294021
##   [7107,]  0.1460898153  1.0100814      0.7571158 -4.250423e-01 -1.8889088
##   [7108,] -0.3167167581 -1.4897658     -1.3207918  8.723386e-01  0.5294021
##   [7109,] -0.1293902879 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [7110,] -0.6387223898  1.0100814     -1.3207918 -7.919783e-01  0.5294021
##   [7111,]  0.6027746086  0.4545598      0.7571158 -1.498403e-01  0.5294021
##   [7112,]  0.4717685151 -0.3787226      0.7571158  2.826200e-01 -1.8889088
##   [7113,]  0.0763015225 -1.2120050     -1.3207918 -6.740346e-01  0.5294021
##   [7114,] -1.1676441880  1.0100814     -1.3207918 -2.284694e-01  0.5294021
##   [7115,] -0.6056647774 -1.4897658      0.7571158  6.102414e-01  0.5294021
##   [7116,] -1.7345210226  1.0100814      0.7571158  3.493310e+00  0.5294021
##   [7117,]  0.3603521178 -1.4897658      0.7571158  8.461289e-01  0.5294021
##   [7118,] -1.5239317881 -0.6564834     -1.3207918  3.481443e-01  0.5294021
##   [7119,]  0.1766987157 -0.1009618      0.7571158 -2.808889e-01  0.5294021
##   [7120,] -0.0755186233 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [7121,] -1.4994446678 -0.9342442      0.7571158  5.983743e-02  0.5294021
##   [7122,]  0.9039661881 -0.9342442      0.7571158 -4.250423e-01  0.5294021
##   [7123,]  1.8712074394  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [7124,] -1.3194643337  1.0100814      0.7571158  4.005637e-01  0.5294021
##   [7125,] -0.6326006097  1.0100814     -1.3207918 -3.985390e-01  0.5294021
##   [7126,]  1.2529076522 -1.4897658     -1.3207918 -1.498403e-01  0.5294021
##   [7127,] -0.5236329245 -0.9342442     -1.3207918 -1.105257e-01 -1.8889088
##   [7128,] -1.4223102389  1.0100814     -1.3207918  8.723386e-01  0.5294021
##   [7129,] -0.1991785807  0.7323206      0.7571158  2.564103e-01 -1.8889088
##   [7130,] -0.5273059925 -0.3787226      0.7571158 -2.808889e-01  0.5294021
##   [7131,]  0.4534031749  1.0100814     -1.3207918 -7.919783e-01  0.5294021
##   [7132,] -0.6766774263 -0.6564834      0.7571158  2.826200e-01 -1.8889088
##   [7133,] -0.2175439209  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [7134,]  0.5868579804 -0.6564834     -1.3207918 -4.486310e-01  0.5294021
##   [7135,] -1.0268432463 -0.1009618      0.7571158  3.205003e+00  0.5294021
##   [7136,] -0.0351148748  1.0100814     -1.3207918 -8.431600e-02  0.5294021
##   [7137,] -1.1137725233  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [7138,] -0.2065247168 -0.9342442      0.7571158  8.068143e-01  0.5294021
##   [7139,] -0.1355120680  1.0100814      0.7571158 -7.264540e-01  0.5294021
##   [7140,]  1.0937413703  1.0100814     -1.3207918 -5.429860e-01  0.5294021
##   [7141,] -1.4823036836 -0.3787226      0.7571158  1.003387e+00  0.5294021
##   [7142,]  0.6688898334 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [7143,]  1.8773292194  0.7323206     -1.3207918 -3.333083e-01  0.5294021
##   [7144,]  1.6177657444 -1.4897658     -1.3207918 -6.347200e-01 -1.8889088
##   [7145,] -0.2567233134 -1.4897658      0.7571158  4.791929e-01 -1.8889088
##   [7146,] -0.7611579912  0.7323206      0.7571158 -1.105257e-01  0.5294021
##   [7147,] -0.2408066852 -1.2120050      0.7571158  3.743540e-01  0.5294021
##   [7148,]  0.2942368930 -0.6564834      0.7571158 -1.105257e-01 -1.8889088
##   [7149,] -0.9680741576  1.0100814     -1.3207918  2.176060e-03  0.5294021
##   [7150,] -1.0366380944 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [7151,] -0.4538446317  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [7152,] -0.2016272927  1.0100814      0.7571158 -3.595180e-01 -1.8889088
##   [7153,] -1.0121509742 -1.4897658     -1.3207918 -4.643569e-01  0.5294021
##   [7154,]  0.1203783390  1.0100814     -1.3207918  4.398783e-01  0.5294021
##   [7155,]  0.3762687460  1.0100814      0.7571158 -4.774617e-01  0.5294021
##   [7156,] -1.0966315391  1.0100814     -1.3207918  8.854434e-01  0.5294021
```

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##   [7157,] -1.3010989935 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [7158,] -0.2028516487 -0.9342442      0.7571158 -4.512520e-01  0.5294021
##   [7159,]  0.9186584603 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [7160,] -0.7023889026 -0.3787226     -1.3207918  7.412900e-01 -1.8889088
##   [7161,]  0.4570762429 -1.2120050     -1.3207918 -6.609297e-01  0.5294021
##   [7162,] -0.9778690058  0.7323206      0.7571158  3.532625e+00  0.5294021
##   [7163,] -1.0733687749 -0.9342442     -1.3207918  2.564103e-01  0.5294021
##   [7164,] -0.5909725053 -0.6564834     -1.3207918 -2.415743e-01  0.5294021
##   [7165,] -0.7648310593  1.0100814     -1.3207918  1.908860e-01 -1.8889088
##   [7166,]  1.3055549608  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [7167,]  0.4815633632  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [7168,] -1.5471945524  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [7169,] -1.4504704273  1.0100814      0.7571158  1.134436e+00 -1.8889088
##   [7170,]  1.0508889098  1.0100814      0.7571158  1.894517e+00  0.5294021
##   [7171,] -1.4247589510 -1.2120050      0.7571158  1.134436e+00  0.5294021
##   [7172,] -1.1162212354  0.1767990     -1.3207918 -2.415743e-01  0.5294021
##   [7173,] -0.9068563569  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [7174,]  1.1855680714  1.0100814      0.7571158  2.433054e-01  0.5294021
##   [7175,]  0.7313319901 -0.3787226     -1.3207918 -5.600223e-01  0.5294021
##   [7176,] -0.5089406523  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [7177,]  2.3254435207  1.0100814      0.7571158 -7.264540e-01 -1.8889088
##   [7178,] -1.2680413811  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [7179,] -0.9190999171  0.1767990     -1.3207918  7.019754e-01  0.5294021
##   [7180,] -1.2104966485  1.0100814     -1.3207918  1.344113e+00  0.5294021
##   [7181,]  0.4803390072 -0.1009618      0.7571158  3.493310e+00  0.5294021
##   [7182,] -2.0650971464 -0.9342442     -1.3207918  3.415919e-01  0.5294021
##   [7183,]  0.1913909878  0.7323206      0.7571158 -4.381471e-01  0.5294021
##   [7184,] -0.9350165453  0.7323206     -1.3207918 -2.677840e-01  0.5294021
##   [7185,] -1.0439842305 -1.2120050      0.7571158  8.604715e-02 -1.8889088
##   [7186,] -1.1039776752  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [7187,] -0.4452741396 -1.4897658     -1.3207918  1.253617e-01  0.5294021
##   [7188,] -1.4798549716 -0.9342442      0.7571158 -5.036714e-01 -1.8889088
##   [7189,]  1.3239203010  1.0100814     -1.3207918 -5.036714e-01 -1.8889088
##   [7190,] -1.4431242912 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [7191,] -0.7317734469  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [7192,] -0.7109593947 -0.6564834      0.7571158  8.604715e-02 -1.8889088
##   [7193,] -0.7158568187  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [7194,]  1.1635296631  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [7195,] -0.3375308103  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [7196,] -1.3745603544 -1.2120050     -1.3207918 -6.216151e-01  0.5294021
##   [7197,] -0.5946455733 -1.4897658      0.7571158 -6.006474e-01 -1.8889088
##   [7198,] -0.9203242731 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [7199,]  1.0276261456  1.0100814      0.7571158 -8.558907e-01 -1.8889088
##   [7200,] -0.2959027058 -0.9342442     -1.3207918 -1.367354e-01  0.5294021
##   [7201,]  0.6052233206  1.0100814      0.7571158 -8.431600e-02 -1.8889088
##   [7202,]  0.7766331626  1.0100814      0.7571158 -1.345076e-01  0.5294021
##   [7203,] -0.1281659319 -1.4897658     -1.3207918 -2.808889e-01  0.5294021
##   [7204,]  0.0787502345 -0.9342442     -1.3207918 -1.760500e-01  0.5294021
##   [7205,]  0.8011202829  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [7206,] -0.0240956707  0.7323206     -1.3207918 -7.002443e-01 -1.8889088
##   [7207,] -1.2484516849 -0.6564834     -1.3207918 -9.093978e-01  0.5294021
##   [7208,]  0.3040317411  0.1767990      0.7571158  1.134436e+00  0.5294021
##   [7209,] -0.9399139693  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [7210,] -0.4318062234 -0.3787226     -1.3207918 -2.153646e-01  0.5294021
##   [7211,]  0.5550247241  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [7212,] -0.1857106645  0.1767990      0.7571158  1.515714e-01  0.5294021
##   [7213,] -1.3145669097  1.0100814      0.7571158  7.408969e-01  0.5294021
##   [7214,] -0.2457041092  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [7215,] -0.6534146620  1.0100814      0.7571158 -6.609297e-01  0.5294021
##   [7216,] -0.1416338480  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [7217,] -0.1000057436  0.7323206      0.7571158 -3.070986e-01  0.5294021
##   [7218,] -0.8995102208  1.0100814     -1.3207918  1.855203e+00  0.5294021
##   [7219,]  0.4289160546  1.0100814      0.7571158 -3.883487e-01  0.5294021
##   [7220,] -0.2212169890 -1.4897658      0.7571158  3.481443e-01  0.5294021
##   [7221,] -0.1538774082 -1.4897658      0.7571158  9.915200e-02  0.5294021
##   [7222,] -0.3693640667  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [7223,] -0.9790933618  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [7224,] -0.1599991882 -1.2120050     -1.3207918 -4.863730e-01  0.5294021
##   [7225,] -0.5187355004 -0.9342442     -1.3207918 -5.167763e-01  0.5294021
##   [7226,] -1.6353481854  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [7227,]  0.0591605383  1.0100814     -1.3207918 -6.465871e-02  0.5294021
##   [7228,] -0.3571205065  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [7229,] -0.1244928638  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [7230,] -0.6521903060  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [7231,]  0.0346734180  0.1767990      0.7571158 -4.905666e-01  0.5294021
##   [7232,] -0.3326333863 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [7233,] -0.7868694675 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [7234,] -0.4354792915  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7235,] -0.4269087994  1.0100814      0.7571158 -5.691957e-01 -1.8889088
##   [7236,]  0.9480430046 -1.2120050      0.7571158  5.447171e-01  0.5294021
##   [7237,] -1.0060291941 -0.3787226     -1.3207918  2.826200e-01  0.5294021
##   [7238,] -0.5775045891  1.0100814     -1.3207918 -1.368927e-01  0.5294021
##   [7239,] -0.9484844614 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [7240,]  0.0616092503  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [7241,]  1.0215043655 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [7242,] -1.5802521648  1.0100814      0.7571158 -5.627160e-02 -1.8889088
##   [7243,]  1.7353039218  0.4545598     -1.3207918 -1.105257e-01  0.5294021
##   [7244,]  0.4778902952  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7245,] -1.6843224260  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [7246,] -0.3252872502 -0.1009618      0.7571158  2.170957e-01  0.5294021
##   [7247,]  0.5770631323  0.1767990      0.7571158 -1.367354e-01  0.5294021
##   [7248,] -1.1774390361  1.0100814     -1.3207918 -3.202034e-01  0.5294021
##   [7249,] -1.5471945524  1.0100814      0.7571158  8.985483e-01  0.5294021
##   [7250,] -0.6007673534  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [7251,]  0.3787174580 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [7252,] -2.0528535863 -1.4897658     -1.3207918 -7.437524e-01  0.5294021
##   [7253,] -0.4232357313 -0.9342442     -1.3207918 -3.070986e-01 -1.8889088
##   [7254,] -0.8505359803  1.0100814      0.7571158  9.771774e-01  0.5294021
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##   [7255,] -0.1514286961 -0.9342442      0.7571158 -5.560909e-01  0.5294021
##   [7256,]  1.6581694929  1.0100814      0.7571158 -2.363323e-01  0.5294021
##   [7257,]  0.7080692258  1.0100814      0.7571158 -3.202034e-01  0.5294021
##   [7258,]  1.0019146693  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [7259,] -1.6757519339  1.0100814     -1.3207918  3.481443e-01 -1.8889088
##   [7260,] -1.9193987807  1.0100814     -1.3207918  6.102414e-01 -1.8889088
##   [7261,]  1.1219015587 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [7262,] -0.7856451115 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [7263,]  1.9263034600 -1.4897658     -1.3207918 -7.264540e-01  0.5294021
##   [7264,] -0.2420310412  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [7265,] -0.4256844433  1.0100814      0.7571158  6.495560e-01  0.5294021
##   [7266,] -1.4516947833 -1.4897658     -1.3207918  2.052286e-02 -1.8889088
##   [7267,] -0.5836263692 -0.1009618      0.7571158  6.102414e-01  0.5294021
##   [7268,]  0.6284860849  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [7269,]  0.6162425248  1.0100814      0.7571158  1.475162e+00  0.5294021
##   [7270,]  0.0824233026  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [7271,] -0.6191326936  1.0100814      0.7571158  3.153821e-01  0.5294021
##   [7272,] -1.2423299048 -0.3787226      0.7571158  4.267734e-01  0.5294021
##   [7273,] -2.1691674076 -0.3787226      0.7571158  1.489454e+01  0.5294021
##   [7274,] -1.3525219461  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [7275,]  0.1424167473  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7276,] -0.7183055307  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [7277,] -1.3635411502  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [7278,] -0.8835935927  1.0100814      0.7571158  1.265484e+00  0.5294021
##   [7279,] -1.1615224079  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [7280,] -0.2628450934  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [7281,]  0.0003914496 -1.4897658      0.7571158 -2.349039e-01  0.5294021
##   [7282,] -0.7966643157  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [7283,] -0.7587092792 -1.4897658     -1.3207918 -1.498403e-01  0.5294021
##   [7284,]  0.8500945235 -1.4897658      0.7571158  1.593106e+00 -1.8889088
##   [7285,] -0.6779017823 -0.9342442     -1.3207918  9.378629e-01  0.5294021
##   [7286,] -0.7587092792 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [7287,]  0.6358322210  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [7288,]  0.6137938127 -0.1009618      0.7571158 -3.070986e-01  0.5294021
##   [7289,]  1.8540664552  1.0100814      0.7571158 -5.954054e-01 -1.8889088
##   [7290,]  0.4276916986 -0.3787226      0.7571158 -4.963327e-01  0.5294021
##   [7291,]  1.1145554226 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [7292,] -0.2567233134  0.4545598      0.7571158  1.068911e+00  0.5294021
##   [7293,] -0.0020572624  1.0100814      0.7571158 -5.528933e-01  0.5294021
##   [7294,]  0.1901666318  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [7295,]  1.3459587093  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [7296,]  0.4595249550 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [7297,] -0.7121837507  1.0100814     -1.3207918 -6.347200e-01  0.5294021
##   [7298,] -1.6500404576  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [7299,]  0.0579361823  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [7300,] -1.9549051051  0.1767990      0.7571158 -2.415743e-01  0.5294021
##   [7301,] -0.9717472257 -0.1009618      0.7571158  2.838067e+00 -1.8889088
##   [7302,]  2.4944046506  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [7303,] -0.1881593766  1.0100814      0.7571158 -1.957073e-01  0.5294021
##   [7304,]  0.3138265893  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [7305,]  0.7337807021 -0.9342442     -1.3207918 -5.167763e-01  0.5294021
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##   [7307,] -0.6705556462  1.0100814     -1.3207918  3.362772e-02  0.5294021
##   [7308,] -1.3402783860  1.0100814     -1.3207918  1.980066e+00  0.5294021
##   [7309,] -1.7700273470 -0.6564834     -1.3207918  1.199960e+00  0.5294021
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##   [7311,] -1.6720788658  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7312,]  0.5966528285  1.0100814      0.7571158  3.612491e-01  0.5294021
##   [7313,] -0.6901453424 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [7314,] -1.1725416120 -1.4897658      0.7571158 -1.236306e-01  0.5294021
##   [7315,] -0.2089734288  0.1767990      0.7571158 -1.498403e-01  0.5294021
##   [7316,] -0.6215814056 -0.6564834     -1.3207918 -2.677840e-01  0.5294021
##   [7317,] -1.9120526446  0.1767990     -1.3207918 -6.347200e-01  0.5294021
##   [7318,] -0.7819720435 -1.2120050      0.7571158 -4.500143e-02  0.5294021
##   [7319,] -0.6203570496  0.4545598      0.7571158 -4.250423e-01  0.5294021
##   [7320,]  1.2149526157 -0.3787226     -1.3207918  8.604715e-02  0.5294021
##   [7321,] -1.6426943215 -1.2120050     -1.3207918  3.481443e-01 -1.8889088
##   [7322,]  1.1145554226  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [7323,] -1.0782661989  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [7324,] -0.4367036475  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [7325,] -0.3840563389  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [7326,] -1.2570221770  0.7323206      0.7571158  6.757657e-01  0.5294021
##   [7327,]  0.3064804532  0.4545598     -1.3207918  1.003387e+00  0.5294021
##   [7328,]  0.4485057508  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [7329,]  0.7962228589 -1.2120050      0.7571158  1.882650e-01  0.5294021
##   [7330,]  1.7206116496  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [7331,]  2.0866940979  0.1767990      0.7571158 -5.954054e-01  0.5294021
##   [7332,] -0.0681724872 -1.2120050      0.7571158 -7.002443e-01  0.5294021
##   [7333,] -1.5986175050  1.0100814      0.7571158  5.630639e-01  0.5294021
##   [7334,] -1.1064263873 -0.6564834      0.7571158  2.051776e+00 -1.8889088
##   [7335,] -1.5557650445 -0.9342442     -1.3207918  2.182824e+00  0.5294021
##   [7336,]  0.7031718018 -0.1009618      0.7571158  2.052286e-02  0.5294021
##   [7337,] -0.8125809438  1.0100814     -1.3207918 -4.111773e-01  0.5294021
##   [7338,] -1.2288619887 -1.2120050     -1.3207918 -1.760500e-01  0.5294021
##   [7339,]  0.4840120752  1.0100814      0.7571158 -1.957073e-01  0.5294021
##   [7340,]  0.4656467350 -0.6564834     -1.3207918 -3.857277e-01  0.5294021
##   [7341,] -0.4771073959  0.7323206      0.7571158 -2.284694e-01  0.5294021
##   [7342,] -0.5824020132  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7343,]  0.8390753194 -0.1009618     -1.3207918 -5.810628e-02  0.5294021
##   [7344,]  0.7692870266 -0.3787226     -1.3207918 -7.002443e-01  0.5294021
##   [7345,]  0.4289160546  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [7346,]  1.4120739340  1.0100814     -1.3207918 -3.464131e-01 -1.8889088
##   [7347,] -0.0191982466 -1.2120050      0.7571158  4.136686e-01  0.5294021
##   [7348,] -0.3301846742  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [7349,] -1.9757191574  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [7350,] -0.6448441699 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [7351,]  1.6091952523  1.0100814      0.7571158 -5.911726e-01 -1.8889088
##   [7352,]  0.9933441772 -1.4897658      0.7571158 -1.629451e-01  0.5294021
```

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##   [7353,] -0.4269087994 -1.4897658     -1.3207918 -3.189657e-02  0.5294021
##   [7354,]  0.7717357386 -0.3787226      0.7571158 -3.189657e-02  0.5294021
##   [7355,] -0.9472601054 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [7356,]  0.4815633632 -0.9342442      0.7571158 -4.748145e-01  0.5294021
##   [7357,]  0.2562818566  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [7358,] -1.0843879790 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [7359,]  0.4644223790 -0.6564834      0.7571158  1.319141e-01  0.5294021
##   [7360,] -1.8471617759 -1.2120050     -1.3207918 -4.512520e-01 -1.8889088
##   [7361,] -0.0963326755 -0.9342442      0.7571158  5.447171e-01 -1.8889088
##   [7362,]  2.1785207989  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [7363,] -0.8823692366  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [7364,] -0.1012300996 -1.2120050      0.7571158 -1.879171e-02 -1.8889088
##   [7365,]  0.1840448518  0.1767990      0.7571158 -1.105257e-01  0.5294021
##   [7366,] -2.0136741938 -0.3787226      0.7571158 -3.333083e-01  0.5294021
##   [7367,]  0.6737872574  1.0100814      0.7571158 -8.860292e-01  0.5294021
##   [7368,]  0.8758059998  1.0100814      0.7571158 -7.657686e-01  0.5294021
##   [7369,]  0.2575062126 -0.9342442     -1.3207918 -5.429860e-01  0.5294021
##   [7370,] -0.5505687568  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [7371,] -1.2129453605 -0.1009618      0.7571158  2.826200e-01  0.5294021
##   [7372,] -0.9239973411 -1.4897658      0.7571158 -4.119374e-01  0.5294021
##   [7373,] -1.2411055488  1.0100814     -1.3207918  3.350394e-01  0.5294021
##   [7374,]  0.3848392381 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [7375,] -0.2322361931  0.7323206      0.7571158 -5.429860e-01  0.5294021
##   [7376,] -0.2261144130  1.0100814      0.7571158 -3.778648e-01  0.5294021
##   [7377,]  2.2372898876 -0.1009618      0.7571158 -6.216151e-01  0.5294021
##   [7378,] -1.8018606033 -1.2120050      0.7571158 -8.593897e-01  0.5294021
##   [7379,]  0.6774603255 -1.4897658     -1.3207918 -6.609297e-01  0.5294021
##   [7380,] -1.9340910529 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [7381,] -0.2175439209  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [7382,]  0.8133638431 -0.1009618      0.7571158 -3.886835e-02  0.5294021
##   [7383,]  0.9517160727 -0.1009618      0.7571158 -3.398607e-01  0.5294021
##   [7384,]  0.4325891226 -0.1009618      0.7571158 -3.595180e-01  0.5294021
##   [7385,]  0.9492673607 -0.9342442      0.7571158  2.510446e+00  0.5294021
##   [7386,] -0.7538118552 -1.4897658     -1.3207918  6.102414e-01 -1.8889088
##   [7387,] -0.3093706220 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [7388,]  2.2103540553  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [7389,]  0.2954612490  1.0100814      0.7571158 -6.085103e-01  0.5294021
##   [7390,] -0.9692985137 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [7391,] -0.0510315030  0.4545598      0.7571158 -2.284694e-01  0.5294021
##   [7392,] -1.0611252147  1.0100814     -1.3207918  4.018015e-02  0.5294021
##   [7393,] -1.6598353057  1.0100814      0.7571158  3.350394e-01  0.5294021
##   [7394,]  0.3407624216 -0.6564834     -1.3207918  7.412900e-01 -1.8889088
##   [7395,] -0.1857106645 -0.1009618     -1.3207918 -6.216151e-01  0.5294021
##   [7396,]  0.3150509453 -0.3787226      0.7571158 -3.726229e-01  0.5294021
##   [7397,]  0.3358649975  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [7398,] -0.1379607800 -0.1009618      0.7571158 -4.500143e-02 -1.8889088
##   [7399,]  0.1840448518  1.0100814      0.7571158 -7.592161e-01  0.5294021
##   [7400,]  2.0181301611  1.0100814      0.7571158 -2.153646e-01 -1.8889088
##   [7401,]  0.1962884119 -1.2120050     -1.3207918 -3.857277e-01  0.5294021
##   [7402,] -1.9953088536  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7403,] -0.7758502634 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [7404,]  1.9128355439 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [7405,]  1.2724973484 -0.9342442      0.7571158 -3.595180e-01  0.5294021
##   [7406,] -0.0620507071  1.0100814     -1.3207918 -2.153646e-01 -1.8889088
##   [7407,] -0.8946127968  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [7408,] -0.1489799841 -1.2120050      0.7571158 -3.300321e-01  0.5294021
##   [7409,]  1.4353366983  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [7410,]  0.7325563461  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [7411,] -0.1857106645  1.0100814     -1.3207918  1.527581e+00  0.5294021
##   [7412,] -0.6730043582 -1.2120050      0.7571158  1.724154e+00  0.5294021
##   [7413,]  0.9455942926  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [7414,]  0.0763015225 -1.4897658     -1.3207918  5.709269e-01  0.5294021
##   [7415,]  0.1436411033 -1.4897658     -1.3207918 -4.147550e-01 -1.8889088
##   [7416,]  1.1316964068  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [7417,] -0.0816404033  1.0100814     -1.3207918  3.362772e-02  0.5294021
##   [7418,] -1.2386568368  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [7419,]  1.5455287396  1.0100814     -1.3207918 -8.103251e-01  0.5294021
##   [7420,] -0.8052348078 -0.9342442      0.7571158 -3.857277e-01  0.5294021
##   [7421,] -0.8223757920  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [7422,] -0.4538446317  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7423,] -1.1860095282  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [7424,] -0.2873322137  1.0100814      0.7571158  1.291694e+00 -1.8889088
##   [7425,]  0.6395052890  1.0100814      0.7571158 -6.959087e-01  0.5294021
##   [7426,] -0.1673453243 -0.3787226     -1.3207918  2.170957e-01 -1.8889088
##   [7427,] -0.6203570496 -1.4897658     -1.3207918  2.105433e-01  0.5294021
##   [7428,] -1.4161884589  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [7429,]  1.0386453497  0.4545598      0.7571158 -4.578044e-01  0.5294021
##   [7430,]  0.9235558844  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [7431,] -1.4786306156 -1.2120050      0.7571158 -1.367354e-01  0.5294021
##   [7432,]  1.4279905622  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [7433,]  0.3738200340  1.0100814     -1.3207918 -5.036714e-01 -1.8889088
##   [7434,] -1.7834952631  1.0100814     -1.3207918  1.265484e+00  0.5294021
##   [7435,] -1.6365725414  1.0100814      0.7571158  8.199191e-01  0.5294021
##   [7436,] -0.0179738906  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [7437,] -0.8542090483 -1.4897658      0.7571158  6.102414e-01 -1.8889088
##   [7438,] -0.2603963814  1.0100814     -1.3207918 -5.429860e-01  0.5294021
##   [7439,] -0.5738315211  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [7440,] -0.3999729670 -0.9342442      0.7571158 -1.760500e-01 -1.8889088
##   [7441,]  2.3658472691 -0.3787226     -1.3207918 -4.774617e-01  0.5294021
##   [7442,] -0.7366708710  0.1767990     -1.3207918  4.791929e-01  0.5294021
##   [7443,] -0.8554334043  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [7444,] -0.2175439209  1.0100814     -1.3207918  2.182824e+00  0.5294021
##   [7445,] -1.1162212354  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [7446,] -0.5505687568 -1.4897658     -1.3207918 -6.609428e-01  0.5294021
##   [7447,] -0.5407739087 -1.2120050      0.7571158 -1.760500e-01 -1.8889088
##   [7448,]  1.0741516741  1.0100814      0.7571158  3.467028e-01  0.5294021
##   [7449,]  0.2550575006 -0.9342442     -1.3207918 -5.686855e-03  0.5294021
##   [7450,]  0.9174341043  1.0100814      0.7571158 -3.333083e-01  0.5294021
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##   [7451,]  0.0028401616 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [7452,] -1.8153285195 -0.6564834      0.7571158  2.117300e+00  0.5294021
##   [7453,] -1.0256188903 -0.9342442     -1.3207918 -4.643569e-01  0.5294021
##   [7454,]  0.4093263584  1.0100814      0.7571158 -7.264540e-01  0.5294021
##   [7455,]  1.0080364493 -1.4897658     -1.3207918  8.604715e-02  0.5294021
##   [7456,] -0.5003701602  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [7457,] -0.8223757920  0.4545598      0.7571158  8.985483e-01 -1.8889088
##   [7458,]  0.0285516379 -1.4897658      0.7571158 -7.526637e-01  0.5294021
##   [7459,] -1.1872338842  1.0100814      0.7571158 -1.026628e-01  0.5294021
##   [7460,] -0.1379607800  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [7461,]  0.6235886609  1.0100814     -1.3207918  3.202152e-01  0.5294021
##   [7462,] -0.4416010715  0.1767990     -1.3207918  7.294229e-02 -1.8889088
##   [7463,]  1.9005919837  1.0100814      0.7571158 -1.879171e-02 -1.8889088
##   [7464,] -0.3240628942 -1.4897658     -1.3207918  4.136686e-01  0.5294021
##   [7465,] -0.8138052999 -0.1009618     -1.3207918  6.102414e-01 -1.8889088
##   [7466,] -0.8346193521  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [7467,]  0.6456270691  1.0100814      0.7571158 -2.725017e-01 -1.8889088
##   [7468,]  1.5357338915  0.7323206      0.7571158  3.219346e-01  0.5294021
##   [7469,] -0.5652610290  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7470,]  2.5152187029  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [7471,]  0.9639596328  1.0100814      0.7571158  9.378629e-01 -1.8889088
##   [7472,]  1.8308036909 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [7473,]  1.2443371601  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [7474,]  0.5195183997  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [7475,]  1.7499961940 -1.4897658      0.7571158  1.515714e-01  0.5294021
##   [7476,]  0.6064476767  1.0100814      0.7571158 -2.192960e-01  0.5294021
##   [7477,] -0.9950099900 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [7478,] -1.5606624685  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [7479,]  1.0753760301  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [7480,] -0.7097350386 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [7481,]  0.3517816257  1.0100814     -1.3207918 -1.498403e-01  0.5294021
##   [7482,]  1.2847409086  0.1767990      0.7571158  2.170957e-01  0.5294021
##   [7483,] -0.7538118552  1.0100814      0.7571158  4.893419e-02  0.5294021
##   [7484,] -1.8018606033 -1.2120050      0.7571158 -3.857277e-01  0.5294021
##   [7485,]  0.2734228408 -0.1009618      0.7571158  4.791929e-01  0.5294021
##   [7486,]  0.8904982720  1.0100814      0.7571158 -4.774617e-01  0.5294021
##   [7487,] -1.3464001660 -0.1009618     -1.3207918 -4.500143e-02  0.5294021
##   [7488,]  0.8427483874  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7489,] -0.7097350386  1.0100814      0.7571158  2.957249e-01 -1.8889088
##   [7490,] -0.8970615088 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [7491,] -1.0856123350 -0.9342442      0.7571158 -1.105257e-01  0.5294021
##   [7492,]  0.0456926221  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [7493,] -1.2949772134  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7494,]  1.4683943107  0.4545598      0.7571158 -2.808889e-01  0.5294021
##   [7495,] -1.2827336533  1.0100814     -1.3207918  4.136686e-01 -1.8889088
##   [7496,] -0.0608263511 -0.6564834      0.7571158 -3.333083e-01  0.5294021
##   [7497,] -0.5040432282  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [7498,] -1.2717144492 -0.9342442      0.7571158  2.826200e-01 -1.8889088
##   [7499,]  0.0701797424  0.4545598      0.7571158 -3.726229e-01  0.5294021
##   [7500,]  0.5342106718  1.0100814      0.7571158  5.185074e-01 -1.8889088
##   [7501,]  0.0346734180 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [7502,] -0.2750886536  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [7503,]  0.6297104409  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [7504,]  0.6909282416 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [7505,]  0.0640579624 -0.6564834     -1.3207918 -2.677840e-01  0.5294021
##   [7506,] -1.6047392850 -0.6564834      0.7571158  1.646763e-01  0.5294021
##   [7507,]  0.3958584422  0.4545598     -1.3207918 -5.167763e-01  0.5294021
##   [7508,] -0.3326333863  1.0100814      0.7571158  6.631588e-01 -1.8889088
##   [7509,]  1.3080036728  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [7510,] -0.1122493037  1.0100814     -1.3207918 -3.857277e-01 -1.8889088
##   [7511,] -1.2876310774 -0.3787226     -1.3207918 -1.105257e-01  0.5294021
##   [7512,] -0.3081462660  1.0100814     -1.3207918 -5.829558e-01  0.5294021
##   [7513,] -0.2199926329  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [7514,] -0.2089734288 -0.6564834      0.7571158 -6.085103e-01  0.5294021
##   [7515,]  1.0814978102 -0.6564834     -1.3207918  7.378958e-01 -1.8889088
##   [7516,] -0.9827664298 -0.6564834     -1.3207918 -7.810095e-01  0.5294021
##   [7517,] -0.6203570496  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [7518,]  0.0334490620 -1.2120050      0.7571158  3.874589e-01  0.5294021
##   [7519,]  0.2966856051  1.0100814      0.7571158 -2.284694e-01 -1.8889088
##   [7520,] -1.5618868246  1.0100814     -1.3207918 -9.361317e-01  0.5294021
##   [7521,] -0.1416338480 -0.3787226     -1.3207918 -3.726229e-01 -1.8889088
##   [7522,]  0.8819277799 -0.3787226      0.7571158 -3.267559e-01  0.5294021
##   [7523,]  0.1558846634  1.0100814     -1.3207918  5.447171e-01 -1.8889088
##   [7524,] -0.8933884408 -1.4897658     -1.3207918  4.136686e-01 -1.8889088
##   [7525,] -1.4872011077  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [7526,] -0.7721771954  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [7527,] -0.8174783679 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [7528,]  0.6407296451 -0.6564834      0.7571158 -8.431600e-02  0.5294021
##   [7529,] -0.2236657010  1.0100814     -1.3207918 -2.022597e-01 -1.8889088
##   [7530,]  0.8231586912 -1.2120050     -1.3207918 -4.748407e-01  0.5294021
##   [7531,]  0.7484729743  1.0100814     -1.3207918 -7.133491e-01 -1.8889088
##   [7532,]  2.3548280650 -0.6564834     -1.3207918 -1.760500e-01 -1.8889088
##   [7533,] -1.4700601235  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [7534,]  0.1473141713  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [7535,]  0.8929469840  0.1767990     -1.3207918 -3.726229e-01  0.5294021
##   [7536,] -0.7293247349 -1.4897658      0.7571158 -7.657686e-01  0.5294021
##   [7537,]  0.6639924093  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [7538,] -0.8419654882 -0.3787226      0.7571158  3.219346e-01  0.5294021
##   [7539,]  0.5207427557  1.0100814      0.7571158 -1.996387e-01 -1.8889088
##   [7540,] -0.6411711018  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [7541,] -0.3779345588 -1.4897658     -1.3207918 -1.760500e-01 -1.8889088
##   [7542,] -1.4774062596  1.0100814      0.7571158  1.134436e+00  0.5294021
##   [7543,] -1.0905097591 -0.9342442      0.7571158 -7.788734e-01  0.5294021
##   [7544,] -0.6876966304 -0.1009618      0.7571158  1.003387e+00  0.5294021
##   [7545,] -0.2285631250 -1.2120050     -1.3207918 -3.228244e-01  0.5294021
##   [7546,]  1.4732917347  1.0100814      0.7571158  2.974868e-02  0.5294021
##   [7547,] -0.5983186413 -0.3787226     -1.3207918  2.170957e-01 -1.8889088
##   [7548,]  1.3790163216 -0.6564834      0.7571158 -1.236306e-01  0.5294021
```

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##   [7549,]  1.8993676277  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [7550,]  0.8709085757 -1.4897658      0.7571158 -3.988326e-01  0.5294021
##   [7551,]  0.7778575187  1.0100814      0.7571158 -3.333083e-01  0.5294021
##   [7552,] -1.6145341332  0.1767990      0.7571158  1.488267e+00 -1.8889088
##   [7553,] -0.2885565697  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [7554,] -0.3999729670 -0.9342442     -1.3207918 -7.133491e-01 -1.8889088
##   [7555,]  0.1595577315 -0.3787226      0.7571158 -1.975289e-01 -1.8889088
##   [7556,]  0.2562818566  1.0100814      0.7571158  5.578220e-01  0.5294021
##   [7557,] -0.9644010896 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [7558,] -0.7611579912 -0.3787226      0.7571158 -3.202034e-01  0.5294021
##   [7559,] -1.8055336714  0.4545598     -1.3207918  1.122569e-01  0.5294021
##   [7560,]  0.5525760120 -1.2120050      0.7571158 -1.354977e-02  0.5294021
##   [7561,] -0.2738642976 -0.1009618     -1.3207918 -2.250753e-01  0.5294021
##   [7562,]  1.5773619960 -0.9342442      0.7571158 -3.988326e-01  0.5294021
##   [7563,] -1.7039121222  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [7564,] -1.7406428026 -1.4897658     -1.3207918  2.826200e-01  0.5294021
##   [7565,]  2.1797451550  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [7566,] -0.6166839816 -1.2120050     -1.3207918 -6.300022e-01  0.5294021
##   [7567,] -0.7758502634 -1.2120050     -1.3207918 -3.595180e-01  0.5294021
##   [7568,]  0.2183268202  1.0100814      0.7571158  1.515714e-01 -1.8889088
##   [7569,]  0.5929797605 -1.2120050      0.7571158  5.185074e-01 -1.8889088
##   [7570,]  0.1056860668  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [7571,]  1.3373882172  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [7572,] -0.9362409013 -1.4897658     -1.3207918  4.346363e-01  0.5294021
##   [7573,]  1.0655811820  0.4545598     -1.3207918  2.433054e-01  0.5294021
##   [7574,]  0.0028401616  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [7575,]  1.1439399669 -1.4897658      0.7571158 -1.353725e-01  0.5294021
##   [7576,] -1.4590409194  1.0100814     -1.3207918 -3.070986e-01 -1.8889088
##   [7577,]  0.2624036367  1.0100814      0.7571158  8.068143e-01  0.5294021
##   [7578,]  0.2464870085  1.0100814      0.7571158  1.122569e-01  0.5294021
##   [7579,] -0.6840235623 -0.6564834      0.7571158  1.068911e+00 -1.8889088
##   [7580,]  0.6786846815  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7581,] -0.1808132405  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [7582,] -1.0770418429 -1.2120050      0.7571158  8.723386e-01  0.5294021
##   [7583,]  1.5638940798 -1.2120050     -1.3207918 -5.954054e-01  0.5294021
##   [7584,] -0.1171467278 -1.2120050     -1.3207918 -4.500143e-02  0.5294021
##   [7585,] -0.4807804640  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7586,] -0.2530502453 -0.6564834      0.7571158 -3.070986e-01 -1.8889088
##   [7587,]  1.2945357567  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7588,] -0.8774718126  1.0100814     -1.3207918 -4.705423e-01  0.5294021
##   [7589,]  0.0860963706  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [7590,]  0.3395380656  1.0100814      0.7571158  4.529831e-01  0.5294021
##   [7591,] -0.0314418068 -0.9342442     -1.3207918 -5.691957e-01  0.5294021
##   [7592,] -1.1602980519 -1.4897658     -1.3207918  1.515714e-01  0.5294021
##   [7593,]  0.4999287034 -0.3787226     -1.3207918  9.116531e-01  0.5294021
##   [7594,] -1.6108610651  0.1767990     -1.3207918 -5.691957e-01  0.5294021
##   [7595,] -1.0464329426 -0.3787226      0.7571158 -1.498403e-01  0.5294021
##   [7596,] -1.1309135075  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [7597,]  0.1975127679 -0.6564834      0.7571158  2.433054e-01 -1.8889088
##   [7598,]  0.5427811639 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [7599,]  0.1142565589 -0.9342442      0.7571158  2.052286e-02 -1.8889088
##   [7600,] -1.0145996862 -0.9342442      0.7571158  8.616509e-02 -1.8889088
##   [7601,] -0.7329978029  1.0100814     -1.3207918 -4.615262e-01  0.5294021
##   [7602,] -0.9313434772  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7603,] -0.4269087994  1.0100814      0.7571158 -4.250423e-01 -1.8889088
##   [7604,] -0.6644338661 -0.6564834      0.7571158  6.102414e-01 -1.8889088
##   [7605,]  0.1546603074  1.0100814      0.7571158  1.357218e+00  0.5294021
##   [7606,]  1.4769648028  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7607,]  0.8268317592  1.0100814      0.7571158 -8.026194e-01 -1.8889088
##   [7608,]  0.7692870266  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7609,] -0.9435870374 -1.2120050      0.7571158  1.658630e+00 -1.8889088
##   [7610,] -0.7819720435  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [7611,] -0.0938839635 -0.9342442     -1.3207918  1.515714e-01  0.5294021
##   [7612,]  2.2213732594 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [7613,] -1.2876310774  0.7323206      0.7571158 -5.691957e-01  0.5294021
##   [7614,]  0.0885450826 -1.2120050      0.7571158  2.707019e+00  0.5294021
##   [7615,]  0.2721984848  1.0100814      0.7571158 -5.219134e-01 -1.8889088
##   [7616,]  0.2391408724  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [7617,] -0.1122493037 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [7618,] -0.4538446317  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [7619,] -0.0081790425 -1.4897658      0.7571158 -8.431600e-02  0.5294021
##   [7620,]  0.4448326828  1.0100814     -1.3207918 -3.054211e-01  0.5294021
##   [7621,] -0.1171467278  1.0100814      0.7571158  3.886456e+00  0.5294021
##   [7622,] -0.0338905188  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [7623,] -2.0491805182 -0.9342442     -1.3207918 -7.121114e-02 -1.8889088
##   [7624,] -0.5750558771 -1.2120050     -1.3207918  8.068143e-01  0.5294021
##   [7625,] -2.0234690419  1.0100814     -1.3207918 -8.181880e-01  0.5294021
##   [7626,] -1.4357781551 -0.1009618      0.7571158 -2.153646e-01  0.5294021
##   [7627,]  0.6921525977  1.0100814      0.7571158  3.219346e-01 -1.8889088
##   [7628,] -1.8043093154 -0.9342442     -1.3207918  2.575970e+00  0.5294021
##   [7629,] -2.3454746737 -1.4897658      0.7571158 -3.267559e-01  0.5294021
##   [7630,]  2.3989048815 -0.3787226      0.7571158 -4.391955e-01  0.5294021
##   [7631,]  0.6076720327 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [7632,] -0.4183383073 -1.4897658      0.7571158 -4.381471e-01 -1.8889088
##   [7633,] -1.0158240422 -1.4897658      0.7571158 -4.500143e-02 -1.8889088
##   [7634,]  2.4821610905  1.0100814      0.7571158 -3.897902e-01  0.5294021
##   [7635,]  0.1877179198  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [7636,]  1.1035362184 -0.9342442     -1.3207918 -5.328166e-01  0.5294021
##   [7637,] -1.0158240422  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [7638,] -0.8909397287  1.0100814      0.7571158  1.199960e+00 -1.8889088
##   [7639,] -0.9239973411  0.1767990      0.7571158  7.294229e-02  0.5294021
##   [7640,]  0.0383464861 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [7641,] -0.7905425356 -0.3787226     -1.3207918 -3.726229e-01  0.5294021
##   [7642,] -1.0011317700  1.0100814     -1.3207918 -4.617359e-01 -1.8889088
##   [7643,] -0.5468956887 -0.6564834      0.7571158  6.102414e-01 -1.8889088
##   [7644,] -0.1208197958  1.0100814     -1.3207918  4.529831e-01  0.5294021
##   [7645,]  1.6593938489  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [7646,] -1.0660226388  0.7323206      0.7571158  1.646763e-01  0.5294021
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##   [7647,] -1.0427598745 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [7648,]  1.1182284906  1.0100814      0.7571158 -5.954054e-01  0.5294021
##   [7649,]  0.4803390072 -0.9342442     -1.3207918 -5.678538e-01  0.5294021
##   [7650,] -0.5273059925 -0.9342442      0.7571158 -2.284694e-01  0.5294021
##   [7651,]  0.1265001191  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [7652,] -0.6509659500 -0.3787226      0.7571158 -4.512520e-01 -1.8889088
##   [7653,] -1.4333294431 -0.6564834      0.7571158  8.604715e-02  0.5294021
##   [7654,] -1.0501060106 -0.3787226      0.7571158 -1.105257e-01 -1.8889088
##   [7655,]  0.0395708421  1.0100814      0.7571158 -4.119374e-01 -1.8889088
##   [7656,] -0.1281659319  1.0100814     -1.3207918  6.102414e-01 -1.8889088
##   [7657,]  0.5611465041 -0.3787226      0.7571158 -6.792765e-01  0.5294021
##   [7658,] -0.4917996681 -1.4897658     -1.3207918 -1.105257e-01  0.5294021
##   [7659,] -0.3583448626 -0.1009618     -1.3207918 -7.657686e-01  0.5294021
##   [7660,]  0.3505572697  1.0100814     -1.3207918  1.134436e+00  0.5294021
##   [7661,]  0.3481085577 -1.2120050      0.7571158 -1.970178e-01  0.5294021
##   [7662,] -0.5542418248  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [7663,] -0.0302174507  1.0100814      0.7571158  5.054026e-01  0.5294021
##   [7664,] -0.2101977848 -0.3787226      0.7571158  2.170957e-01 -1.8889088
##   [7665,] -0.4207870193 -0.9342442     -1.3207918 -5.901635e-01  0.5294021
##   [7666,] -0.4709856159  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7667,]  0.9933441772 -1.4897658     -1.3207918 -4.250423e-01 -1.8889088
##   [7668,] -0.3289603182  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##   [7669,]  0.9541647847 -0.9342442      0.7571158 -7.121114e-02  0.5294021
##   [7670,] -0.6779017823  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [7671,] -1.0390868065  1.0100814      0.7571158  2.302006e-01  0.5294021
##   [7672,] -1.3451758100 -1.2120050      0.7571158  1.515714e-01  0.5294021
##   [7673,] -0.0608263511  1.0100814      0.7571158  6.364511e-01  0.5294021
##   [7674,] -0.2004029367  1.0100814      0.7571158  4.017504e+00  0.5294021
##   [7675,]  0.9357994445  1.0100814      0.7571158 -8.968171e-01  0.5294021
##   [7676,]  1.0508889098 -0.3787226      0.7571158  1.199960e+00  0.5294021
##   [7677,] -0.7991130277  1.0100814      0.7571158  4.673257e-02  0.5294021
##   [7678,] -1.8055336714  1.0100814      0.7571158  8.340724e-01  0.5294021
##   [7679,] -0.2848835017 -0.3787226     -1.3207918 -4.643569e-01  0.5294021
##   [7680,] -0.0289930947 -0.6564834     -1.3207918  2.052286e-02  0.5294021
##   [7681,] -0.9986830580 -1.4897658      0.7571158 -4.512520e-01  0.5294021
##   [7682,] -1.1578493399  1.0100814      0.7571158 -9.361317e-01  0.5294021
##   [7683,]  2.1956617831 -1.4897658      0.7571158 -8.838695e-01  0.5294021
##   [7684,] -1.3549706581 -0.6564834      0.7571158  8.604715e-02 -1.8889088
##   [7685,] -0.1416338480  1.0100814     -1.3207918 -2.677840e-01  0.5294021
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##   [7687,] -0.4501715636 -1.2120050      0.7571158  8.604715e-02 -1.8889088
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##   [7689,] -0.0167495346 -1.4897658      0.7571158  2.236481e-01  0.5294021
##   [7690,] -0.5224085685 -1.4897658     -1.3207918  2.170957e-01 -1.8889088
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##   [7692,]  0.6346078650 -0.1009618      0.7571158 -3.437922e-01  0.5294021
##   [7693,]  1.0582350459  1.0100814      0.7571158 -3.113445e-01 -1.8889088
##   [7694,] -0.3767102028  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [7695,] -0.1367364240 -1.2120050      0.7571158 -1.760500e-01 -1.8889088
##   [7696,] -1.7834952631 -0.3787226      0.7571158  7.424767e+00  0.5294021
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##   [7698,]  0.0444682661 -0.1009618      0.7571158 -5.954054e-01 -1.8889088
##   [7699,]  0.4203455625  1.0100814     -1.3207918 -8.050831e-01  0.5294021
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##   [7701,] -0.6032160654  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [7702,] -0.5824020132  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [7703,]  0.7986715709  1.0100814      0.7571158 -2.874413e-01 -1.8889088
##   [7704,]  0.4276916986  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [7705,] -1.2117210045  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [7706,]  1.2688242804  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [7707,]  1.3092280288 -0.9342442      0.7571158 -5.560909e-01 -1.8889088
##   [7708,]  1.5969516922  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [7709,]  1.9752777006  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [7710,] -1.5141369400 -0.9342442      0.7571158  4.791929e-01  0.5294021
##   [7711,] -0.7048376146 -0.6564834     -1.3207918 -3.726229e-01 -1.8889088
##   [7712,] -0.1171467278 -0.9342442      0.7571158 -1.930863e-01  0.5294021
##   [7713,]  0.7203127860 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [7714,] -0.5848507252  0.4545598     -1.3207918  1.908860e-01  0.5294021
##   [7715,] -1.0635739268 -1.4897658      0.7571158  2.182824e+00 -1.8889088
##   [7716,] -0.6730043582 -1.4897658     -1.3207918  4.136686e-01  0.5294021
##   [7717,] -1.6635083737  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [7718,] -0.7611579912  1.0100814     -1.3207918 -1.067515e-01  0.5294021
##   [7719,]  0.6590949853 -1.2120050      0.7571158  4.673257e-02 -1.8889088
##   [7720,] -1.3586437262  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [7721,] -0.7011645465  1.0100814      0.7571158  2.957249e-01  0.5294021
##   [7722,] -1.1651954759  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [7723,] -1.8190015875 -0.6564834      0.7571158  5.840317e-01 -1.8889088
##   [7724,] -1.0550034347 -1.4897658      0.7571158  2.838067e+00  0.5294021
##   [7725,]  0.7056205138  1.0100814     -1.3207918 -5.550425e-01  0.5294021
##   [7726,] -0.4917996681  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [7727,]  0.8537675915 -1.2120050     -1.3207918 -3.857277e-01  0.5294021
##   [7728,]  0.8831521359  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [7729,] -1.8055336714 -1.2120050      0.7571158  8.723386e-01  0.5294021
##   [7730,] -0.2040760048  1.0100814      0.7571158  7.294229e-02  0.5294021
##   [7731,] -1.2962015695  0.4545598      0.7571158  2.826200e-01 -1.8889088
##   [7732,] -0.3999729670  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [7733,] -1.3268104698  1.0100814      0.7571158  1.134436e+00  0.5294021
##   [7734,]  0.6750116135  1.0100814      0.7571158 -3.333083e-01 -1.8889088
##   [7735,]  1.8112139947  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [7736,]  0.3762687460 -0.6564834      0.7571158  7.085279e-01 -1.8889088
##   [7737,] -0.2506015333  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [7738,]  2.4931802946 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [7739,] -0.2493771773 -0.6564834      0.7571158  5.447171e-01  0.5294021
##   [7740,]  0.3015830291 -0.9342442     -1.3207918  4.136686e-01  0.5294021
##   [7741,] -0.4697612599  1.0100814      0.7571158  1.396533e+00  0.5294021
##   [7742,] -0.3448769464 -1.4897658     -1.3207918 -2.022597e-01 -1.8889088
##   [7743,]  0.8378509634 -0.1009618     -1.3207918 -7.788734e-01  0.5294021
##   [7744,] -0.1367364240 -0.1009618     -1.3207918 -3.329800e-01  0.5294021
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##   [7745,]  0.7888767228  1.0100814     -1.3207918 -3.464131e-01 -1.8889088
##   [7746,]  0.6590949853  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [7747,]  0.4325891226 -0.6564834      0.7571158 -3.726229e-01  0.5294021
##   [7748,] -0.1183710838  0.7323206      0.7571158 -2.415743e-01 -1.8889088
##   [7749,] -0.8015617397 -0.9342442      0.7571158  7.412900e-01 -1.8889088
##   [7750,]  0.2905638250  1.0100814      0.7571158  9.116531e-01  0.5294021
##   [7751,]  0.0628336063 -0.3787226     -1.3207918 -5.167763e-01  0.5294021
##   [7752,]  0.7056205138 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [7753,] -1.1651954759  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7754,]  1.0827221662  0.1767990      0.7571158  1.207168e+00 -1.8889088
##   [7755,] -0.7464657191 -1.4897658      0.7571158 -3.333083e-01 -1.8889088
##   [7756,] -0.7244273108 -1.4897658     -1.3207918  8.723386e-01  0.5294021
##   [7757,]  0.3603521178 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [7758,]  0.7227614980  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [7759,] -0.6558633740  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [7760,]  1.6532720688 -1.2120050     -1.3207918 -5.298811e-01 -1.8889088
##   [7761,] -0.4550689877  1.0100814      0.7571158  3.219346e-01 -1.8889088
##   [7762,] -0.7893181796 -0.3787226      0.7571158  1.265484e+00  0.5294021
##   [7763,] -0.5052675843 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [7764,]  2.0328224333  1.0100814      0.7571158  1.701803e-01  0.5294021
##   [7765,]  0.8941713400  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [7766,]  0.2501600765  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [7767,]  1.4451315464 -0.9342442      0.7571158 -2.415743e-01  0.5294021
##   [7768,] -0.8848179487  1.0100814      0.7571158  5.958261e-01  0.5294021
##   [7769,]  0.7901010788  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [7770,]  0.7607165345  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [7771,] -1.5998418610  1.0100814     -1.3207918  1.186855e+00  0.5294021
##   [7772,]  1.0031390253 -1.4897658     -1.3207918 -5.823006e-01  0.5294021
##   [7773,]  1.3630996935 -0.9342442      0.7571158 -2.415743e-01 -1.8889088
##   [7774,] -1.3561950142 -0.9342442     -1.3207918 -4.119374e-01  0.5294021
##   [7775,]  0.0738528105 -1.2120050     -1.3207918 -2.809937e-01  0.5294021
##   [7776,]  0.5440055199 -0.1009618      0.7571158 -5.429860e-01  0.5294021
##   [7777,] -0.9484844614  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [7778,]  0.9811006170  1.0100814     -1.3207918 -7.264540e-01  0.5294021
##   [7779,] -1.5325022802 -1.4897658     -1.3207918  1.134331e+00  0.5294021
##   [7780,] -0.8860423047 -0.9342442     -1.3207918 -7.002443e-01 -1.8889088
##   [7781,]  1.0998631504 -0.3787226      0.7571158  1.122569e-01  0.5294021
##   [7782,]  0.0848720146  0.4545598      0.7571158 -1.760500e-01 -1.8889088
##   [7783,] -1.4933228878 -0.9342442      0.7571158 -3.070986e-01  0.5294021
##   [7784,] -0.3877294069  1.0100814     -1.3207918  4.660880e-01  0.5294021
##   [7785,]  0.7374537702  0.1767990      0.7571158 -5.954054e-01 -1.8889088
##   [7786,] -0.3436525904 -1.4897658      0.7571158 -2.987639e-01  0.5294021
##   [7787,] -0.0400122989  0.4545598     -1.3207918  7.418002e-03  0.5294021
##   [7788,]  1.2688242804 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [7789,]  0.5452298760  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [7790,]  1.6055221843  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7791,] -0.8395167762  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [7792,] -0.7525874991 -0.9342442      0.7571158  2.170957e-01 -1.8889088
##   [7793,]  1.2480102281  0.1767990     -1.3207918 -4.504657e-01  0.5294021
##   [7794,]  0.9480430046  0.7323206      0.7571158 -9.742085e-02  0.5294021
##   [7795,] -1.8336938597  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [7796,]  0.3909610182 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [7797,] -0.2457041092  1.0100814     -1.3207918  7.661165e-02  0.5294021
##   [7798,]  1.5014519231 -0.3787226     -1.3207918 -4.381471e-01  0.5294021
##   [7799,]  0.9345750885 -1.2120050      0.7571158 -6.085103e-01  0.5294021
##   [7800,]  0.0775258785 -1.4897658      0.7571158  3.743540e-01 -1.8889088
##   [7801,] -1.7271748865 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [7802,] -0.3497743705 -1.2120050     -1.3207918  8.604715e-02  0.5294021
##   [7803,] -1.0917341151 -0.9342442      0.7571158  1.658630e+00  0.5294021
##   [7804,]  0.9627352768  1.0100814      0.7571158  5.678734e-01 -1.8889088
##   [7805,] -1.0390868065 -0.3787226      0.7571158  5.565115e-01  0.5294021
##   [7806,]  0.4276916986 -0.9342442      0.7571158 -4.512520e-01 -1.8889088
##   [7807,] -0.0596019951 -0.9342442      0.7571158  8.068143e-01  0.5294021
##   [7808,] -1.1247917275 -0.9342442      0.7571158  8.604715e-02 -1.8889088
##   [7809,] -0.7219785988 -0.1009618     -1.3207918 -5.691957e-01  0.5294021
##   [7810,] -1.5557650445 -0.1009618     -1.3207918  1.226170e+00 -1.8889088
##   [7811,] -0.4403767155  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7812,]  0.0897694387  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [7813,] -2.0846868426 -0.1009618      0.7571158  1.122569e-01  0.5294021
##   [7814,]  0.0261029259  0.7323206      0.7571158 -1.207999e-01 -1.8889088
##   [7815,]  0.4925825673 -1.2120050      0.7571158  8.068143e-01  0.5294021
##   [7816,]  1.6863296812  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [7817,] -0.6154596255 -0.3787226      0.7571158 -1.248828e-02  0.5294021
##   [7818,]  1.7989704345  1.0100814      0.7571158  1.028345e-01  0.5294021
##   [7819,]  1.3839137457 -1.4897658      0.7571158  2.052286e-02 -1.8889088
##   [7820,] -0.1955055127  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [7821,] -1.4467973592  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [7822,]  0.5660439282 -0.9342442     -1.3207918 -2.415743e-01 -1.8889088
##   [7823,]  2.2997320444 -0.3787226      0.7571158  1.265484e+00 -1.8889088
##   [7824,] -0.8309462841  0.7323206      0.7571158 -1.144572e-01  0.5294021
##   [7825,] -0.0877621834  0.4545598      0.7571158  3.100164e+00 -1.8889088
##   [7826,] -0.7121837507  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [7827,] -1.7357453786 -0.9342442      0.7571158  1.843336e-01 -1.8889088
##   [7828,] -1.2570221770 -1.4897658     -1.3207918 -6.085103e-01  0.5294021
##   [7829,]  0.3407624216 -0.1009618      0.7571158 -4.905666e-01  0.5294021
##   [7830,] -0.7366708710 -0.1009618      0.7571158  5.447171e-01  0.5294021
##   [7831,] -1.0513303666  1.0100814     -1.3207918 -2.022597e-01  0.5294021
##   [7832,]  0.2966856051 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [7833,] -0.3301846742 -0.6564834     -1.3207918 -1.105257e-01 -1.8889088
##   [7834,]  0.8500945235  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [7835,] -1.1921313083  0.4545598     -1.3207918 -4.500143e-02  0.5294021
##   [7836,]  0.0150837218  1.0100814     -1.3207918 -5.686855e-03 -1.8889088
##   [7837,] -0.6007673534 -1.2120050     -1.3207918  4.136686e-01  0.5294021
##   [7838,]  0.7325563461 -1.2120050     -1.3207918 -1.367354e-01  0.5294021
##   [7839,]  1.3839137457 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [7840,] -0.7048376146  0.7323206     -1.3207918 -5.823006e-01  0.5294021
##   [7841,] -0.9999074140 -0.6564834      0.7571158  5.447171e-01  0.5294021
##   [7842,] -1.3757847104  1.0100814      0.7571158  2.261453e+00 -1.8889088
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##   [7843,] -0.7734015514 -1.2120050      0.7571158  1.122569e-01  0.5294021
##   [7844,]  0.0383464861  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [7845,] -0.2946783498 -0.6564834     -1.3207918 -5.167763e-01  0.5294021
##   [7846,] -0.1416338480 -0.9342442      0.7571158 -5.691957e-01 -1.8889088
##   [7847,]  1.8087652826 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [7848,]  1.1806706473  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [7849,]  2.1809695110 -0.1009618      0.7571158 -4.381471e-01  0.5294021
##   [7850,]  1.0312992136  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [7851,] -0.8946127968  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [7852,]  0.9039661881 -1.2120050     -1.3207918  8.068143e-01 -1.8889088
##   [7853,] -0.2738642976  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [7854,]  0.6150181688 -0.9342442      0.7571158 -1.105257e-01 -1.8889088
##   [7855,] -0.5493444008  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [7856,] -0.7464657191  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [7857,] -1.2900797894  0.7323206      0.7571158  6.888706e-01  0.5294021
##   [7858,] -1.1174455914  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [7859,] -1.3047720616 -0.6564834     -1.3207918 -4.381471e-01  0.5294021
##   [7860,]  0.1301731871  1.0100814     -1.3207918 -6.027441e-01  0.5294021
##   [7861,] -0.5040432282 -0.9342442     -1.3207918 -5.775828e-01  0.5294021
##   [7862,]  0.0848720146  1.0100814      0.7571158 -3.595180e-01 -1.8889088
##   [7863,]  1.8479446751 -1.2120050      0.7571158  4.164206e-01  0.5294021
##   [7864,] -0.1061275236  1.0100814      0.7571158 -3.242397e-01 -1.8889088
##   [7865,] -1.6280020493 -0.6564834      0.7571158  3.362772e-02  0.5294021
##   [7866,]  0.3811661700  0.1767990      0.7571158  5.447171e-01  0.5294021
##   [7867,]  1.6753104771  1.0100814      0.7571158 -3.720987e-01  0.5294021
##   [7868,]  0.2832176889  1.0100814      0.7571158  9.609071e-02  0.5294021
##   [7869,]  1.6581694929  1.0100814      0.7571158  1.134946e-02 -1.8889088
##   [7870,]  0.0163080778 -0.6564834      0.7571158  4.791929e-01  0.5294021
##   [7871,] -0.6974914785 -0.6564834      0.7571158 -7.288856e-02  0.5294021
##   [7872,]  1.4463559024 -0.6564834     -1.3207918 -4.905666e-01  0.5294021
##   [7873,] -1.1529519158 -0.6564834     -1.3207918 -1.760500e-01 -1.8889088
##   [7874,]  0.5182940436  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [7875,] -0.3901781189  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [7876,]  1.0729273181  1.0100814     -1.3207918 -3.070986e-01 -1.8889088
##   [7877,]  1.0643568260 -0.3787226      0.7571158 -6.216151e-01  0.5294021
##   [7878,] -0.5726071650  1.0100814      0.7571158  4.398783e-01  0.5294021
##   [7879,] -0.3289603182  1.0100814      0.7571158 -1.367354e-01 -1.8889088
##   [7880,]  0.8231586912 -0.1009618      0.7571158 -4.643569e-01  0.5294021
##   [7881,]  0.8133638431 -1.4897658      0.7571158 -2.808889e-01 -1.8889088
##   [7882,] -1.9010334405 -1.4897658     -1.3207918 -1.105257e-01 -1.8889088
##   [7883,]  1.2786191285 -0.9342442      0.7571158 -3.857277e-01  0.5294021
##   [7884,] -0.5860750812  0.1767990      0.7571158  8.604715e-02  0.5294021
##   [7885,] -0.6166839816 -1.4897658     -1.3207918 -2.546791e-01  0.5294021
##   [7886,] -0.0706211992  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7887,]  0.8611137276 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [7888,] -0.9901125659 -0.6564834     -1.3207918  2.707019e+00  0.5294021
##   [7889,] -0.8517603363  1.0100814      0.7571158 -1.432879e-01  0.5294021
##   [7890,]  1.4512533265  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [7891,] -0.4440497836 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [7892,] -0.7158568187  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7893,]  0.0469169782  1.0100814      0.7571158 -2.717155e-01 -1.8889088
##   [7894,] -0.5566905369  1.0100814      0.7571158 -1.236306e-01 -1.8889088
##   [7895,] -0.2297874811 -0.3787226     -1.3207918  1.253617e-01 -1.8889088
##   [7896,]  0.3787174580 -0.6564834      0.7571158  1.003387e+00  0.5294021
##   [7897,]  1.1182284906  1.0100814     -1.3207918 -6.347200e-01  0.5294021
##   [7898,] -1.4639383434 -0.6564834     -1.3207918  2.052286e-02 -1.8889088
##   [7899,] -0.1012300996 -1.2120050     -1.3207918  4.791929e-01 -1.8889088
##   [7900,]  0.2330190923  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [7901,] -0.0106277545 -0.6564834     -1.3207918 -5.482279e-01  0.5294021
##   [7902,] -0.3252872502 -1.2120050      0.7571158 -3.490341e-01  0.5294021
##   [7903,] -0.0179738906 -1.4897658      0.7571158 -4.643569e-01  0.5294021
##   [7904,] -0.0522558590 -0.3787226     -1.3207918  4.791929e-01  0.5294021
##   [7905,] -0.4905753121 -0.3787226      0.7571158  2.433054e-01 -1.8889088
##   [7906,]  1.0692542500  1.0100814      0.7571158  5.185074e-01  0.5294021
##   [7907,] -0.8517603363  1.0100814      0.7571158 -2.178676e-01  0.5294021
##   [7908,] -1.2668170251 -0.9342442      0.7571158 -6.347200e-01  0.5294021
##   [7909,]  0.2060832600  1.0100814      0.7571158 -4.239415e-01  0.5294021
##   [7910,] -0.2273387690  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [7911,]  0.1240514071  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [7912,]  0.5831849124  0.1767990      0.7571158 -3.595180e-01  0.5294021
##   [7913,]  0.4166724945 -1.4897658      0.7571158 -6.027441e-01  0.5294021
##   [7914,] -1.2092722925 -0.9342442      0.7571158  5.447171e-01 -1.8889088
##   [7915,] -1.3500732341 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [7916,] -0.4795561080  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [7917,] -1.1198943034 -1.4897658      0.7571158  7.294229e-02 -1.8889088
##   [7918,]  1.0582350459  1.0100814     -1.3207918 -1.629451e-01 -1.8889088
##   [7919,]  0.4166724945 -0.9342442      0.7571158  9.915200e-02  0.5294021
##   [7920,]  0.0958912187 -1.2120050     -1.3207918 -5.429860e-01  0.5294021
##   [7921,] -0.2824347897 -1.2120050      0.7571158  2.039909e-01  0.5294021
##   [7922,] -1.1345865756  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [7923,] -0.9448113934  1.0100814     -1.3207918 -9.742085e-02  0.5294021
##   [7924,]  0.6395052890  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [7925,]  0.6064476767 -0.1009618      0.7571158  2.170957e-01 -1.8889088
##   [7926,] -1.4014961867 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [7927,] -1.1602980519 -1.2120050      0.7571158  5.447171e-01  0.5294021
##   [7928,] -0.3803832708  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [7929,]  1.2541320082 -1.2120050     -1.3207918  6.102414e-01  0.5294021
##   [7930,] -0.6656582221  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [7931,]  0.9100879682  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [7932,] -1.7761491270 -1.4897658     -1.3207918  1.908860e-01 -1.8889088
##   [7933,] -0.2359092611 -0.1009618      0.7571158  1.515714e-01 -1.8889088
##   [7934,] -1.8153285195 -0.6564834      0.7571158  3.165689e+00  0.5294021
##   [7935,] -0.0069546865 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [7936,]  0.4852364313  1.0100814     -1.3207918 -6.845185e-01  0.5294021
##   [7937,] -1.8887898804 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [7938,]  1.0300748576  0.4545598     -1.3207918 -6.701031e-01  0.5294021
##   [7939,] -1.7749247710  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [7940,] -1.7345210226 -1.4897658      0.7571158 -5.036714e-01  0.5294021
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##   [7941,] -1.0807149110  1.0100814      0.7571158  2.510446e+00  0.5294021
##   [7942,]  0.1252757631 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [7943,]  0.2146537521 -0.1009618     -1.3207918  4.136686e-01 -1.8889088
##   [7944,] -0.4085434591 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [7945,]  0.4117750704  0.7323206      0.7571158  1.908860e-01  0.5294021
##   [7946,] -1.1896825962  1.0100814      0.7571158  2.695151e-01 -1.8889088
##   [7947,]  1.1378181868  1.0100814      0.7571158  1.043093e-01 -1.8889088
##   [7948,] -0.6228057616 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [7949,] -1.6757519339 -1.2120050     -1.3207918 -5.036714e-01 -1.8889088
##   [7950,] -1.1272404395 -1.4897658     -1.3207918 -7.121114e-02  0.5294021
##   [7951,] -1.2925285014 -0.6564834     -1.3207918 -7.002443e-01  0.5294021
##   [7952,] -0.5236329245 -0.1009618      0.7571158  1.003387e+00 -1.8889088
##   [7953,] -0.6166839816  1.0100814      0.7571158 -7.448735e-02 -1.8889088
##   [7954,]  1.9165086119  0.7323206      0.7571158 -5.954054e-01  0.5294021
##   [7955,] -1.4027205427 -0.9342442     -1.3207918 -2.153646e-01  0.5294021
##   [7956,]  0.3370893535  0.4545598     -1.3207918 -1.367354e-01  0.5294021
##   [7957,] -0.4856778880  1.0100814      0.7571158  8.068143e-01  0.5294021
##   [7958,] -0.3265116062 -0.6564834      0.7571158 -3.857277e-01  0.5294021
##   [7959,] -0.3081462660 -0.1009618      0.7571158 -1.105257e-01 -1.8889088
##   [7960,] -1.2655926691 -0.1009618     -1.3207918 -5.691957e-01  0.5294021
##   [7961,]  0.5684926402 -0.9342442     -1.3207918 -6.347200e-01  0.5294021
##   [7962,]  1.2724973484 -1.2120050      0.7571158 -4.381471e-01 -1.8889088
##   [7963,]  0.4913582113  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [7964,] -0.5285303485  1.0100814      0.7571158  9.247580e-01  0.5294021
##   [7965,] -0.0767429793  0.1767990      0.7571158 -4.381471e-01  0.5294021
##   [7966,] -0.9117537810  1.0100814     -1.3207918 -4.774617e-01  0.5294021
##   [7967,] -0.1648966123 -1.4897658      0.7571158 -2.808889e-01  0.5294021
##   [7968,] -0.0424610109 -1.4897658     -1.3207918 -6.085103e-01  0.5294021
##   [7969,]  0.9492673607  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [7970,]  1.2933114007 -1.2120050     -1.3207918 -8.234299e-01  0.5294021
##   [7971,] -0.0216469586  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [7972,] -0.7587092792 -1.4897658     -1.3207918 -3.595180e-01  0.5294021
##   [7973,] -2.2303852083  1.0100814      0.7571158  4.934844e+00  0.5294021
##   [7974,] -1.4333294431 -0.9342442      0.7571158 -1.367354e-01  0.5294021
##   [7975,]  0.1289488311 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [7976,] -0.9815420738  0.7323206      0.7571158  6.102414e-01 -1.8889088
##   [7977,] -1.4272076630 -1.4897658     -1.3207918 -5.692481e-01  0.5294021
##   [7978,] -0.4513959196 -1.2120050      0.7571158 -6.216151e-01 -1.8889088
##   [7979,]  0.8904982720  1.0100814      0.7571158 -2.411811e-01  0.5294021
##   [7980,]  0.2477113645 -0.9342442      0.7571158 -5.691957e-01 -1.8889088
##   [7981,] -0.2150952089  1.0100814      0.7571158  1.331009e+00  0.5294021
##   [7982,] -0.3999729670 -1.4897658      0.7571158 -5.193973e-01 -1.8889088
##   [7983,]  1.6165413884  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [7984,] -1.0366380944 -0.3787226      0.7571158  3.481443e-01  0.5294021
##   [7985,] -1.2496760409 -1.2120050     -1.3207918 -1.760500e-01  0.5294021
##   [7986,] -1.0219458223 -1.2120050      0.7571158  1.199960e+00  0.5294021
##   [7987,] -1.1260160835 -1.4897658      0.7571158  7.412900e-01  0.5294021
##   [7988,]  0.9504917167  1.0100814      0.7571158  2.695151e-01  0.5294021
##   [7989,] -0.4954727362  1.0100814      0.7571158 -1.367354e-01 -1.8889088
##   [7990,] -0.1906080886  1.0100814     -1.3207918  2.695151e-01 -1.8889088
##   [7991,]  0.5599221481  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [7992,] -0.1502043401  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [7993,] -1.0194971102 -0.9342442      0.7571158 -1.760500e-01 -1.8889088
##   [7994,] -1.0060291941  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [7995,]  0.1228270510 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [7996,]  0.6750116135 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [7997,] -1.2411055488  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [7998,] -0.0143008226  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [7999,] -0.0522558590  1.0100814     -1.3207918 -3.202034e-01  0.5294021
##   [8000,]  0.1179296270  0.7323206     -1.3207918 -5.954054e-01  0.5294021
##   [8001,]  1.4377854103 -0.6564834      0.7571158 -4.774617e-01  0.5294021
##   [8002,] -0.4183383073 -1.4897658      0.7571158 -4.578044e-01  0.5294021
##   [8003,] -0.1281659319 -1.4897658      0.7571158 -4.500143e-02 -1.8889088
##   [8004,]  0.1607820875  0.4545598     -1.3207918  8.604715e-02  0.5294021
##   [8005,] -0.7170811747  1.0100814      0.7571158 -2.358501e-01  0.5294021
##   [8006,]  0.4399352587  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [8007,] -0.8272732160  1.0100814      0.7571158  2.039909e-01 -1.8889088
##   [8008,] -1.0513303666 -0.9342442     -1.3207918  8.604715e-02  0.5294021
##   [8009,]  0.6774603255  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8010,]  0.5427811639 -1.4897658      0.7571158 -2.153646e-01  0.5294021
##   [8011,] -0.5628123169  1.0100814      0.7571158  3.088297e-01  0.5294021
##   [8012,]  1.5026762791  0.1767990      0.7571158 -8.181880e-01  0.5294021
##   [8013,]  0.0701797424  1.0100814      0.7571158  2.433054e-01  0.5294021
##   [8014,] -1.0329650264  1.0100814      0.7571158  1.265484e+00  0.5294021
##   [8015,] -1.3525219461  1.0100814      0.7571158  5.583322e-03 -1.8889088
##   [8016,] -0.9313434772 -0.3787226     -1.3207918 -4.500143e-02  0.5294021
##   [8017,]  1.6593938489 -0.1009618     -1.3207918 -7.654409e-01  0.5294021
##   [8018,] -0.2799860776 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [8019,] -0.4452741396  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [8020,] -1.0794905549  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [8021,]  1.0986387944  1.0100814      0.7571158 -7.395589e-01  0.5294021
##   [8022,] -1.4651626994 -1.2120050     -1.3207918 -1.498403e-01  0.5294021
##   [8023,]  0.6064476767 -0.9342442     -1.3207918 -4.774617e-01 -1.8889088
##   [8024,] -0.2457041092  0.7323206     -1.3207918  8.604715e-02  0.5294021
##   [8025,] -0.8762474566  1.0100814      0.7571158 -4.512520e-01  0.5294021
##   [8026,]  1.7095924455  1.0100814     -1.3207918 -8.749582e-01  0.5294021
##   [8027,] -0.4624151238  1.0100814      0.7571158 -7.121114e-02 -1.8889088
##   [8028,]  1.8467203191 -1.2120050      0.7571158 -5.036714e-01  0.5294021
##   [8029,]  2.2630013639 -1.2120050     -1.3207918 -5.429860e-01 -1.8889088
##   [8030,]  0.8537675915  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [8031,] -0.3840563389  1.0100814      0.7571158  2.433054e-01  0.5294021
##   [8032,]  2.1797451550  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [8033,] -1.2986502815  0.1767990      0.7571158  6.102414e-01 -1.8889088
##   [8034,] -2.1055008949 -0.6564834      0.7571158 -2.088121e-01 -1.8889088
##   [8035,]  0.8292804713  1.0100814      0.7571158 -2.756469e-01  0.5294021
##   [8036,] -1.3904769826  0.4545598      0.7571158  1.908860e-01 -1.8889088
##   [8037,] -1.0427598745 -0.6564834      0.7571158  2.826200e-01  0.5294021
##   [8038,] -1.0782661989 -1.4897658      0.7571158 -4.381471e-01  0.5294021
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##   [8039,]  0.5195183997 -1.4897658      0.7571158 -2.284694e-01 -1.8889088
##   [8040,] -1.1125481673  1.0100814      0.7571158  8.199191e-01  0.5294021
##   [8041,] -1.5227074321  0.4545598      0.7571158  4.005637e-01 -1.8889088
##   [8042,]  0.5036017715 -1.4897658     -1.3207918 -4.709093e-01  0.5294021
##   [8043,] -0.5358764846  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [8044,] -1.4884254637  0.4545598      0.7571158  4.136686e-01  0.5294021
##   [8045,] -0.1257172199  0.4545598      0.7571158 -2.415743e-01 -1.8889088
##   [8046,]  0.5660439282  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8047,] -0.7660554153 -1.4897658      0.7571158 -3.385502e-01  0.5294021
##   [8048,] -1.1811121041 -0.6564834      0.7571158 -2.022597e-01 -1.8889088
##   [8049,] -1.2962015695 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [8050,] -1.1725416120 -1.2120050      0.7571158  1.646763e-01  0.5294021
##   [8051,] -0.5787289451  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8052,]  1.1647540192  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [8053,]  0.3468842016 -0.6564834     -1.3207918 -2.808889e-01  0.5294021
##   [8054,] -0.6313762537 -1.2120050      0.7571158  6.102414e-01 -1.8889088
##   [8055,] -0.8713500325  1.0100814      0.7571158  4.660880e-01  0.5294021
##   [8056,]  0.8060177070  0.1767990      0.7571158 -5.691957e-01  0.5294021
##   [8057,]  1.4304392742  1.0100814     -1.3207918 -6.521495e-01  0.5294021
##   [8058,]  0.3603521178 -1.4897658      0.7571158  6.626609e-01  0.5294021
##   [8059,] -0.3154924021 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [8060,]  0.7937741468 -1.4897658     -1.3207918 -3.070986e-01 -1.8889088
##   [8061,]  0.6309347969  1.0100814      0.7571158  1.029597e+00  0.5294021
##   [8062,]  1.6177657444 -0.3787226     -1.3207918 -5.390545e-01  0.5294021
##   [8063,]  2.1748477309  1.0100814      0.7571158  1.384666e-01  0.5294021
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##   [8065,]  0.8745816438 -1.4897658      0.7571158  9.509677e-01  0.5294021
##   [8066,]  1.0374209937  0.4545598     -1.3207918 -5.823006e-01  0.5294021
##   [8067,] -1.2986502815  1.0100814      0.7571158  1.003387e+00  0.5294021
##   [8068,] -0.1367364240  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8069,] -0.5101650083  0.4545598      0.7571158 -4.512520e-01  0.5294021
##   [8070,] -1.0194971102 -0.9342442      0.7571158 -1.105257e-01  0.5294021
##   [8071,]  0.2562818566  1.0100814     -1.3207918 -8.417767e-01  0.5294021
##   [8072,] -2.1459046433  1.0100814      0.7571158  1.527581e+00 -1.8889088
##   [8073,]  1.5675671478  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [8074,] -0.0816404033 -0.9342442     -1.3207918  1.068911e+00 -1.8889088
##   [8075,]  2.0695531137  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [8076,] -0.0938839635  0.4545598      0.7571158  8.604715e-02  0.5294021
##   [8077,] -0.5481200448 -0.9342442     -1.3207918 -4.500143e-02  0.5294021
##   [8078,]  0.3860635941  0.4545598      0.7571158  8.723386e-01  0.5294021
##   [8079,]  0.4117750704  1.0100814      0.7571158 -2.156159e-01  0.5294021
##   [8080,] -0.1391851360  1.0100814      0.7571158  2.182824e+00 -1.8889088
##   [8081,]  0.0285516379 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [8082,] -0.3473256584 -0.9342442     -1.3207918 -1.105257e-01  0.5294021
##   [8083,] -0.4305818674 -1.4897658      0.7571158  7.412900e-01  0.5294021
##   [8084,]  1.4010547299  1.0100814      0.7571158  2.291522e-01  0.5294021
##   [8085,] -0.2885565697 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [8086,]  0.4840120752 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [8087,] -0.4011973231 -1.2120050     -1.3207918 -5.686855e-03  0.5294021
##   [8088,] -1.7320723105 -0.9342442     -1.3207918 -2.808889e-01  0.5294021
##   [8089,]  0.6982743777  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8090,] -0.8297219280 -1.2120050     -1.3207918 -5.560909e-01  0.5294021
##   [8091,]  0.2207755322 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [8092,] -1.4614896314  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [8093,] -0.2910052818  1.0100814     -1.3207918 -3.202034e-01  0.5294021
##   [8094,]  0.8562163036 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [8095,]  0.0138593658 -0.9342442      0.7571158  3.481443e-01  0.5294021
##   [8096,]  0.2562818566  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8097,] -0.7427926510 -1.2120050     -1.3207918  1.527581e+00 -1.8889088
##   [8098,] -1.1651954759  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [8099,] -0.6717800022 -0.6564834      0.7571158 -5.298811e-01  0.5294021
##   [8100,] -0.1820375965  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [8101,]  2.1381170505  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [8102,] -0.8199270799  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [8103,]  0.5525760120 -0.9342442      0.7571158  2.052286e-02  0.5294021
##   [8104,] -1.3023233495  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [8105,]  1.4206444261  1.0100814     -1.3207918 -2.415743e-01 -1.8889088
##   [8106,] -1.1835608162 -0.3787226      0.7571158 -4.119374e-01 -1.8889088
##   [8107,] -0.4207870193  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [8108,] -0.8750231006  1.0100814     -1.3207918 -2.415743e-01 -1.8889088
##   [8109,] -0.0167495346  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [8110,] -0.6497415939 -0.6564834     -1.3207918  2.564103e-01  0.5294021
##   [8111,] -0.2493771773  0.1767990      0.7571158  1.134436e+00  0.5294021
##   [8112,]  0.5856336244  1.0100814      0.7571158  7.459815e-01  0.5294021
##   [8113,] -1.1982530883 -0.9342442      0.7571158 -5.036714e-01  0.5294021
##   [8114,] -1.1933556643  1.0100814     -1.3207918 -5.036714e-01 -1.8889088
##   [8115,] -1.4112910348 -1.4897658      0.7571158  2.564103e-01 -1.8889088
##   [8116,]  0.6590949853  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8117,] -0.7354465149 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [8118,] -0.8848179487 -0.3787226     -1.3207918  2.433054e-01  0.5294021
##   [8119,]  0.6321591530  1.0100814      0.7571158 -4.905666e-01 -1.8889088
##   [8120,]  0.1142565589 -0.9342442      0.7571158 -4.500143e-02  0.5294021
##   [8121,]  1.8099896387 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [8122,] -1.0892854031  0.7323206     -1.3207918 -3.726229e-01  0.5294021
##   [8123,]  0.0714040984 -1.2120050     -1.3207918 -7.121114e-02  0.5294021
##   [8124,]  0.0848720146 -0.6564834     -1.3207918 -4.905666e-01  0.5294021
##   [8125,] -0.2150952089  0.7323206     -1.3207918 -3.333083e-01 -1.8889088
##   [8126,] -0.9803177178 -0.9342442      0.7571158  5.447171e-01  0.5294021
##   [8127,]  0.0346734180  1.0100814      0.7571158  5.840317e-01  0.5294021
##   [8128,]  2.1528093226  1.0100814     -1.3207918  4.673257e-02 -1.8889088
##   [8129,] -0.9790933618  1.0100814      0.7571158 -1.026628e-01 -1.8889088
##   [8130,] -0.8591064724  0.4545598     -1.3207918  1.003387e+00  0.5294021
##   [8131,] -0.3375308103  1.0100814      0.7571158  3.843268e-01 -1.8889088
##   [8132,]  0.1962884119  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [8133,] -0.0302174507 -1.4897658      0.7571158 -3.464131e-01 -1.8889088
##   [8134,]  2.0107840250 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [8135,] -1.2435542608 -0.3787226     -1.3207918  5.447171e-01 -1.8889088
##   [8136,]  1.9642584965 -1.2120050      0.7571158  4.136686e-01  0.5294021
```

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##   [8137,] -0.7746259074  1.0100814     -1.3207918 -1.594986e-01  0.5294021
##   [8138,] -1.5520919764 -1.4897658      0.7571158 -3.070986e-01 -1.8889088
##   [8139,]  2.4025779495 -1.4897658      0.7571158  2.263215e-01  0.5294021
##   [8140,]  1.2761704165  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [8141,] -0.2163195649 -0.9342442      0.7571158 -3.726229e-01  0.5294021
##   [8142,] -0.5517931128  0.1767990      0.7571158 -2.808889e-01  0.5294021
##   [8143,] -1.4272076630 -0.3787226     -1.3207918 -6.674821e-01  0.5294021
##   [8144,]  0.3272945054  1.0100814      0.7571158  1.062359e+00  0.5294021
##   [8145,] -1.5900470129 -0.9342442      0.7571158  1.777811e-01  0.5294021
##   [8146,] -1.4345537991  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8147,]  0.2048589040  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [8148,]  1.0006903132  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [8149,] -1.2582465330 -0.9342442      0.7571158  2.052286e-02  0.5294021
##   [8150,] -1.0807149110  1.0100814     -1.3207918  3.743540e-01  0.5294021
##   [8151,] -0.5150624324 -1.4897658     -1.3207918  4.136686e-01  0.5294021
##   [8152,] -0.8701256765  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [8153,] -0.4869022441  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [8154,] -0.9252216971  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [8155,] -0.6950427665 -0.6564834      0.7571158 -1.105257e-01  0.5294021
##   [8156,] -0.0436853669 -1.4897658     -1.3207918 -5.429860e-01  0.5294021
##   [8157,]  2.4246163578  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [8158,] -1.8471617759 -0.9342442     -1.3207918 -7.002443e-01  0.5294021
##   [8159,] -0.3473256584  0.1767990     -1.3207918  8.657861e-01 -1.8889088
##   [8160,]  0.7129666499  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [8161,] -0.4905753121  0.1767990      0.7571158  8.604715e-02  0.5294021
##   [8162,]  1.0863952342  1.0100814      0.7571158  1.101674e+00  0.5294021
##   [8163,] -1.0684713508  1.0100814      0.7571158  1.357218e+00  0.5294021
##   [8164,]  0.8354022513 -0.3787226      0.7571158 -3.857277e-01 -1.8889088
##   [8165,]  1.7279577857 -1.2120050      0.7571158  2.170957e-01 -1.8889088
##   [8166,] -0.7636067033  1.0100814     -1.3207918  3.362772e-02  0.5294021
##   [8167,]  0.2917881810  0.4545598      0.7571158 -5.429860e-01  0.5294021
##   [8168,] -0.5113893643 -0.1009618     -1.3207918 -1.105257e-01  0.5294021
##   [8169,]  0.2930125370 -1.4897658      0.7571158  9.378629e-01 -1.8889088
##   [8170,] -1.5410727723  1.0100814     -1.3207918  7.418002e-03  0.5294021
##   [8171,] -1.4676114115  1.0100814      0.7571158  2.433054e-01  0.5294021
##   [8172,] -0.4428254275 -0.3787226      0.7571158  1.581239e-01  0.5294021
##   [8173,] -0.4881266001  0.7323206      0.7571158 -1.498403e-01 -1.8889088
##   [8174,] -1.2178427846  1.0100814      0.7571158  4.880648e-01  0.5294021
##   [8175,] -0.8284975720  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [8176,] -1.1688685440  1.0100814      0.7571158  8.068143e-01 -1.8889088
##   [8177,] -0.7893181796  1.0100814      0.7571158  2.433054e-01  0.5294021
##   [8178,]  0.2024101920 -0.3787226      0.7571158 -3.595180e-01 -1.8889088
##   [8179,] -0.8529846923 -1.4897658     -1.3207918  4.005637e-01  0.5294021
##   [8180,] -1.0011317700  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [8181,] -0.7207542428 -0.1009618      0.7571158  9.706250e-01  0.5294021
##   [8182,] -0.5273059925 -0.3787226      0.7571158 -1.879171e-02  0.5294021
##   [8183,]  0.4607493110  1.0100814     -1.3207918  2.564103e-01  0.5294021
##   [8184,]  0.0591605383 -1.2120050     -1.3207918 -6.609297e-01  0.5294021
##   [8185,] -0.9913369219 -0.9342442      0.7571158  3.481443e-01  0.5294021
##   [8186,] -1.6855467820  1.0100814      0.7571158  1.134436e+00  0.5294021
##   [8187,] -1.5055664479  1.0100814      0.7571158  4.529831e-01  0.5294021
##   [8188,] -0.3118193340 -0.9342442      0.7571158 -8.431600e-02 -1.8889088
##   [8189,] -0.3632422866  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [8190,] -0.7256516668 -0.9342442      0.7571158 -1.498403e-01  0.5294021
##   [8191,] -1.1529519158 -0.6564834      0.7571158  4.791929e-01  0.5294021
##   [8192,] -1.4859767517 -1.4897658     -1.3207918 -8.312929e-01  0.5294021
##   [8193,] -0.0191982466  1.0100814     -1.3207918 -3.070986e-01 -1.8889088
##   [8194,] -1.1517275598 -0.3787226     -1.3207918  6.233463e-01  0.5294021
##   [8195,]  1.6165413884 -0.1009618      0.7571158 -6.467765e-01  0.5294021
##   [8196,]  2.2250463275 -0.3787226     -1.3207918 -5.036714e-01  0.5294021
##   [8197,]  0.6541975612  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [8198,] -0.4416010715 -1.2120050      0.7571158 -4.905666e-01  0.5294021
##   [8199,]  0.1350706112 -0.6564834      0.7571158 -4.800827e-01  0.5294021
##   [8200,]  0.9113123242  1.0100814     -1.3207918 -5.298811e-01 -1.8889088
##   [8201,]  0.9823249730 -1.2120050      0.7571158  3.874589e-01  0.5294021
##   [8202,]  0.0652823184  1.0100814     -1.3207918 -7.121114e-02 -1.8889088
##   [8203,] -0.4673125478 -0.6564834     -1.3207918 -2.415743e-01  0.5294021
##   [8204,] -0.1832619525  1.0100814      0.7571158 -1.590137e-01 -1.8889088
##   [8205,]  0.5966528285 -1.2120050      0.7571158  6.102414e-01  0.5294021
##   [8206,]  0.8439727434  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [8207,] -0.6950427665  1.0100814     -1.3207918 -1.064632e-01 -1.8889088
##   [8208,]  0.4987043474 -0.3787226      0.7571158 -6.740346e-01 -1.8889088
##   [8209,] -0.5346521286  0.1767990      0.7571158 -6.871394e-01  0.5294021
##   [8210,] -0.8064591638 -0.9342442     -1.3207918 -3.428617e-01  0.5294021
##   [8211,] -1.2606952450  1.0100814      0.7571158 -9.742085e-02  0.5294021
##   [8212,] -1.6892198500 -1.2120050     -1.3207918 -4.512520e-01  0.5294021
##   [8213,]  1.8712074394 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [8214,]  0.7019474458 -0.6564834     -1.3207918 -2.415743e-01  0.5294021
##   [8215,] -1.0868366910  1.0100814      0.7571158  1.003387e+00 -1.8889088
##   [8216,]  0.1191539830 -0.6564834      0.7571158 -4.589839e-01  0.5294021
##   [8217,] -0.3497743705 -0.6564834      0.7571158 -3.726229e-01  0.5294021
##   [8218,] -0.8199270799  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [8219,]  0.4619736670  1.0100814     -1.3207918 -5.954054e-01  0.5294021
##   [8220,] -0.7109593947  0.1767990      0.7571158 -1.105257e-01  0.5294021
##   [8221,] -0.6277031857 -0.9342442      0.7571158 -2.024170e-01  0.5294021
##   [8222,] -0.2028516487 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [8223,]  0.3579034058  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [8224,] -1.8630784041 -0.3787226      0.7571158  1.488267e+00  0.5294021
##   [8225,]  1.8161114187 -1.4897658     -1.3207918 -4.874476e-01  0.5294021
##   [8226,] -1.3549706581 -1.2120050      0.7571158  8.723386e-01 -1.8889088
##   [8227,]  0.2317947363 -1.4897658      0.7571158  3.481443e-01 -1.8889088
##   [8228,] -0.5481200448 -0.9342442     -1.3207918 -7.526637e-01  0.5294021
##   [8229,] -0.8823692366  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8230,] -0.1710183924  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [8231,] -0.6093378455  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [8232,]  1.0312992136  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [8233,]  0.2440382964  0.1767990      0.7571158  7.294229e-02 -1.8889088
##   [8234,] -0.6901453424 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
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##   [8235,] -0.3803832708  1.0100814      0.7571158 -5.155385e-02 -1.8889088
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##   [8237,] -0.3216141821  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [8238,]  0.1815961397 -0.3787226     -1.3207918 -5.691957e-01  0.5294021
##   [8239,] -0.0498071470 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [8240,] -1.6206559132 -0.3787226      0.7571158  5.459039e+00 -1.8889088
##   [8241,]  0.5978771846  1.0100814      0.7571158 -2.677840e-01  0.5294021
##   [8242,] -0.9595036655  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [8243,] -1.1394839996  1.0100814     -1.3207918 -7.002443e-01 -1.8889088
##   [8244,]  1.4745160908  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [8245,] -0.4171139512  1.0100814     -1.3207918  1.350666e+00 -1.8889088
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##   [8249,] -1.9157257127  1.0100814      0.7571158  3.612491e-01  0.5294021
##   [8250,]  0.6431783571  0.4545598     -1.3207918  8.604715e-02  0.5294021
##   [8251,]  0.6015502526  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [8252,]  1.2602537883 -0.6564834      0.7571158  6.667889e-01  0.5294021
##   [8253,]  0.5501273000  1.0100814      0.7571158  2.182824e+00  0.5294021
##   [8254,] -0.1710183924 -0.1009618     -1.3207918 -4.381471e-01  0.5294021
##   [8255,]  0.3762687460  1.0100814      0.7571158 -1.710046e-01  0.5294021
##   [8256,] -0.5664853850  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [8257,] -1.2986502815  1.0100814      0.7571158 -3.333083e-01  0.5294021
##   [8258,]  0.1044617108  0.1767990      0.7571158 -1.879171e-02  0.5294021
##   [8259,]  1.1194528466 -0.6564834     -1.3207918 -7.133491e-01  0.5294021
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##   [8263,] -1.3794577784 -1.2120050      0.7571158  7.412900e-01  0.5294021
##   [8264,] -0.6815748503 -1.2120050      0.7571158 -5.691957e-01  0.5294021
##   [8265,] -0.6632095101  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [8266,] -1.3904769826 -0.1009618     -1.3207918 -2.146176e-01  0.5294021
##   [8267,] -0.7942156036 -0.1009618     -1.3207918 -1.760500e-01  0.5294021
##   [8268,] -0.6007673534  0.1767990      0.7571158  1.226170e+00  0.5294021
##   [8269,] -0.3950755430 -0.9342442      0.7571158  1.515714e-01  0.5294021
##   [8270,]  0.9676327009  1.0100814      0.7571158 -2.546791e-01 -1.8889088
##   [8271,]  0.0983399308  1.0100814     -1.3207918  5.983743e-02 -1.8889088
##   [8272,] -0.5199598564  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8273,] -0.3448769464  1.0100814     -1.3207918 -2.022597e-01  0.5294021
##   [8274,]  1.5161441952 -1.2120050     -1.3207918 -1.105257e-01 -1.8889088
##   [8275,] -0.6742287142 -0.1009618      0.7571158 -1.105257e-01  0.5294021
##   [8276,] -0.5542418248  1.0100814     -1.3207918 -6.216151e-01 -1.8889088
##   [8277,]  1.3728945416 -0.9342442      0.7571158 -4.119374e-01  0.5294021
##   [8278,] -0.4440497836 -1.4897658     -1.3207918 -5.298811e-01  0.5294021
##   [8279,]  1.2663755683 -0.9342442      0.7571158 -3.639736e-01  0.5294021
##   [8280,]  0.0322247060 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [8281,] -1.5165856520  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [8282,]  0.2575062126  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [8283,]  1.0900683023  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8284,]  0.3309675735 -0.9342442     -1.3207918 -3.726229e-01  0.5294021
##   [8285,] -0.8566577604 -0.6564834     -1.3207918 -3.189657e-02  0.5294021
##   [8286,] -0.0755186233 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [8287,]  0.5293132478  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [8288,] -0.5860750812 -0.9342442      0.7571158 -5.691957e-01 -1.8889088
##   [8289,] -0.2028516487  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [8290,]  0.8611137276 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
##   [8291,] -0.7672797713 -0.1009618      0.7571158 -2.415743e-01  0.5294021
##   [8292,] -1.0562277907  1.0100814     -1.3207918 -5.167763e-01  0.5294021
##   [8293,]  0.6909282416 -0.1009618      0.7571158 -5.036714e-01  0.5294021
##   [8294,]  0.2415895844  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [8295,]  0.0640579624  1.0100814      0.7571158 -2.342749e-01  0.5294021
##   [8296,] -1.2349837687 -1.2120050      0.7571158  1.422743e+00  0.5294021
##   [8297,]  0.1313975431 -1.4897658     -1.3207918 -3.726229e-01 -1.8889088
##   [8298,]  0.2783202648  0.7323206      0.7571158 -2.022597e-01 -1.8889088
##   [8299,] -1.4516947833 -0.9342442     -1.3207918  1.515714e-01  0.5294021
##   [8300,] -0.8566577604  1.0100814      0.7571158  2.695151e-01  0.5294021
##   [8301,] -0.2138708529  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [8302,]  1.2125039037 -1.2120050     -1.3207918 -5.366957e-01 -1.8889088
##   [8303,] -1.1749903241  1.0100814      0.7571158  9.182056e-01  0.5294021
##   [8304,] -0.6742287142 -0.1009618      0.7571158 -7.121114e-02  0.5294021
##   [8305,]  1.3655484055  1.0100814      0.7571158  4.136686e-01 -1.8889088
##   [8306,] -0.4673125478 -0.3787226      0.7571158 -6.740346e-01  0.5294021
##   [8307,] -0.1379607800 -0.6564834      0.7571158 -1.498403e-01 -1.8889088
##   [8308,] -1.6010662170  1.0100814     -1.3207918  3.362772e-02  0.5294021
##   [8309,]  0.2636279927 -0.1009618      0.7571158 -1.367354e-01  0.5294021
##   [8310,] -0.0106277545 -0.6564834     -1.3207918  2.052286e-02  0.5294021
##   [8311,]  0.5525760120  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8312,]  1.2835165525  1.0100814      0.7571158  3.758480e-01  0.5294021
##   [8313,]  0.6713385454  0.7323206     -1.3207918 -1.098705e-01 -1.8889088
##   [8314,] -1.4896498197  1.0100814      0.7571158  3.388005e-01  0.5294021
##   [8315,]  0.6811333935 -1.2120050      0.7571158 -1.105257e-01  0.5294021
##   [8316,] -0.4513959196  0.1767990     -1.3207918  8.604715e-02 -1.8889088
##   [8317,]  0.3064804532  1.0100814      0.7571158 -2.668011e-01 -1.8889088
##   [8318,]  0.2379165164  1.0100814      0.7571158  5.840317e-01  0.5294021
##   [8319,]  1.6679643410  0.1767990     -1.3207918 -2.677840e-01 -1.8889088
##   [8320,]  0.7729600946  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [8321,] -1.2802849413 -0.9342442     -1.3207918  2.052286e-02  0.5294021
##   [8322,] -0.1391851360  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8323,]  1.9777264126 -0.1009618     -1.3207918 -5.429860e-01  0.5294021
##   [8324,] -1.4663870554 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [8325,]  1.9973161088  1.0100814      0.7571158 -6.583087e-01  0.5294021
##   [8326,]  0.7741844506  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [8327,] -0.7109593947  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [8328,]  0.4668710910 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [8329,]  2.1491362546  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [8330,] -0.4367036475 -0.6564834     -1.3207918 -3.660704e-01  0.5294021
##   [8331,]  0.7509216863  0.1767990     -1.3207918 -3.726229e-01 -1.8889088
##   [8332,] -0.1514286961 -1.4897658     -1.3207918 -6.281676e-01  0.5294021
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##   [8333,]  1.7499961940  1.0100814     -1.3207918 -8.771599e-01  0.5294021
##   [8334,]  0.8733572878  0.7323206      0.7571158  7.418002e-03 -1.8889088
##   [8335,] -1.0366380944 -0.6564834     -1.3207918 -3.726229e-01  0.5294021
##   [8336,] -0.1832619525 -0.3787226      0.7571158  7.418002e-03  0.5294021
##   [8337,]  0.3052560972  1.0100814      0.7571158 -3.018566e-01  0.5294021
##   [8338,] -1.4516947833 -1.4897658     -1.3207918 -1.498403e-01  0.5294021
##   [8339,]  1.7769320263 -1.4897658      0.7571158  2.340665e-01 -1.8889088
##   [8340,] -0.2775373656 -0.9342442      0.7571158 -4.119374e-01  0.5294021
##   [8341,] -0.4599664117 -1.4897658      0.7571158  7.937094e-01  0.5294021
##   [8342,] -0.5371008406 -0.3787226      0.7571158 -1.747395e-01  0.5294021
##   [8343,] -1.4896498197  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [8344,]  1.1904654955  1.0100814      0.7571158 -8.651761e-02  0.5294021
##   [8345,]  0.1020129988  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [8346,] -0.6607607981  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [8347,]  1.5614453678 -1.2120050     -1.3207918 -5.429860e-01  0.5294021
##   [8348,] -0.3167167581 -0.6564834     -1.3207918 -3.464131e-01  0.5294021
##   [8349,]  0.1705769356 -0.6564834      0.7571158 -4.643569e-01  0.5294021
##   [8350,] -1.0354137384  1.0100814     -1.3207918  5.185074e-01  0.5294021
##   [8351,] -0.1269415759 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [8352,] -0.1208197958  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [8353,] -1.0672469948 -0.3787226      0.7571158 -3.542761e-01 -1.8889088
##   [8354,] -1.7039121222  1.0100814      0.7571158  5.983743e-02  0.5294021
##   [8355,]  0.8856008479  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8356,]  0.6162425248  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [8357,]  0.5550247241 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [8358,]  1.8197844868  0.7323206      0.7571158 -6.071998e-01 -1.8889088
##   [8359,] -0.6485172379 -0.9342442      0.7571158 -9.742085e-02 -1.8889088
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##   [8361,]  0.1901666318 -1.4897658      0.7571158  2.170957e-01 -1.8889088
##   [8362,] -0.3228385381 -0.9342442     -1.3207918 -3.726229e-01  0.5294021
##   [8363,]  0.4044289343  1.0100814     -1.3207918 -7.264540e-01  0.5294021
##   [8364,] -0.4391523595  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [8365,] -0.7538118552 -0.3787226      0.7571158  3.481443e-01  0.5294021
##   [8366,] -0.3485500144  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8367,] -1.0109266181 -1.4897658      0.7571158  1.527581e+00  0.5294021
##   [8368,] -1.1505032038  1.0100814      0.7571158 -3.267559e-01  0.5294021
##   [8369,]  0.0689553864  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [8370,] -0.7085106826  0.7323206     -1.3207918 -6.347200e-01  0.5294021
##   [8371,]  0.0848720146  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8372,] -0.4746586839 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [8373,] -0.9827664298  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [8374,] -0.6938184105  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8375,] -0.8027860957  0.4545598     -1.3207918 -9.361317e-01  0.5294021
##   [8376,] -0.1122493037 -0.9342442     -1.3207918 -1.105257e-01 -1.8889088
##   [8377,]  1.7855025184  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [8378,] -1.8067580274 -0.9342442     -1.3207918  5.983743e-02  0.5294021
##   [8379,]  0.4191212065  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [8380,] -0.1416338480  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [8381,]  1.8148870627  1.0100814      0.7571158 -5.810628e-02  0.5294021
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##   [8383,] -1.0905097591  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [8384,]  0.1473141713 -0.3787226     -1.3207918 -3.726229e-01 -1.8889088
##   [8385,] -0.6374980338  1.0100814     -1.3207918 -5.429860e-01  0.5294021
##   [8386,] -0.1024544556 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [8387,] -2.1238662351  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [8388,] -0.9999074140 -0.3787226      0.7571158  6.888706e-01  0.5294021
##   [8389,]  1.9605854284  1.0100814     -1.3207918 -4.381471e-01 -1.8889088
##   [8390,]  0.4680954471  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [8391,]  0.0983399308  1.0100814     -1.3207918 -7.002443e-01  0.5294021
##   [8392,] -1.6084123531 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [8393,] -1.6463673895 -1.4897658     -1.3207918  6.757657e-01 -1.8889088
##   [8394,]  2.2874884842 -0.3787226     -1.3207918 -7.002443e-01  0.5294021
##   [8395,]  0.3530059817 -0.9342442      0.7571158 -2.913727e-01  0.5294021
##   [8396,] -0.8872666607  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [8397,] -1.3206886897 -1.2120050      0.7571158  2.052286e-02  0.5294021
##   [8398,]  0.6382809330  0.1767990      0.7571158 -5.408761e-01  0.5294021
##   [8399,]  0.3725956779  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [8400,] -0.8150296559 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [8401,] -2.2524236166 -0.3787226     -1.3207918 -5.766393e-01  0.5294021
##   [8402,]  1.4977788550 -1.2120050     -1.3207918  8.604715e-02  0.5294021
##   [8403,] -1.2876310774 -0.6564834     -1.3207918 -5.691957e-01  0.5294021
##   [8404,]  0.0285516379 -0.9342442      0.7571158  1.199960e+00  0.5294021
##   [8405,] -0.9888882099  0.1767990      0.7571158  6.631588e-01 -1.8889088
##   [8406,]  0.7901010788 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [8407,] -0.7672797713 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [8408,] -0.0571532831  1.0100814     -1.3207918 -5.429860e-01 -1.8889088
##   [8409,]  2.0940402340 -0.6564834     -1.3207918 -2.808889e-01 -1.8889088
##   [8410,]  0.1007886428  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [8411,] -1.5165856520  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8412,] -1.6316751174 -0.3787226      0.7571158 -1.760500e-01  0.5294021
##   [8413,] -0.0375635868  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [8414,] -1.6035149290 -1.4897658      0.7571158  3.874589e-01  0.5294021
##   [8415,] -1.7798221951 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [8416,] -0.8505359803  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [8417,] -1.7749247710 -0.3787226      0.7571158  1.527581e+00  0.5294021
##   [8418,] -1.1100994553 -0.6564834      0.7571158  1.096359e-01  0.5294021
##   [8419,] -0.9521575295  1.0100814      0.7571158  1.827119e+00  0.5294021
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##   [8421,]  0.8231586912  1.0100814      0.7571158  8.301992e-02  0.5294021
##   [8422,] -0.9472601054  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [8423,]  0.2354678043 -0.3787226      0.7571158  5.054026e-01  0.5294021
##   [8424,]  0.5623708602  0.7323206     -1.3207918 -4.643569e-01 -1.8889088
##   [8425,]  0.9100879682  1.0100814      0.7571158 -2.418364e-01  0.5294021
##   [8426,] -1.5178100080 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [8427,]  1.3545292014 -0.9342442      0.7571158 -1.498403e-01  0.5294021
##   [8428,]  0.3150509453  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [8429,]  2.0034378889  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [8430,] -0.1085762357 -1.4897658      0.7571158  2.052286e-02 -1.8889088
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##   [8431,] -1.3684385743  1.0100814      0.7571158  1.515714e-01  0.5294021
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##   [8433,] -1.4639383434  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [8434,] -1.2741631612 -0.9342442      0.7571158  1.658630e+00  0.5294021
##   [8435,]  1.8442716071  1.0100814      0.7571158 -4.500143e-02  0.5294021
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##   [8437,] -0.8799205246 -0.3787226      0.7571158  4.673257e-02  0.5294021
##   [8438,]  1.0386453497 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [8439,]  0.1007886428  1.0100814     -1.3207918 -2.415743e-01  0.5294021
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##   [8450,] -1.1260160835  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [8451,] -0.4783317520 -1.4897658      0.7571158 -5.810628e-02  0.5294021
##   [8452,]  0.8684598637 -1.4897658     -1.3207918 -4.774617e-01  0.5294021
##   [8453,] -0.6228057616 -1.2120050      0.7571158  2.510446e+00 -1.8889088
##   [8454,]  1.7524449060 -0.6564834     -1.3207918 -2.808889e-01  0.5294021
##   [8455,]  0.8194856231  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [8456,]  1.1451643229  1.0100814      0.7571158  1.319141e-01 -1.8889088
##   [8457,] -0.3779345588 -1.2120050     -1.3207918 -5.036714e-01  0.5294021
##   [8458,] -1.2851823653 -1.4897658      0.7571158 -3.726229e-01 -1.8889088
##   [8459,] -2.1667186956  0.1767990     -1.3207918 -2.022597e-01  0.5294021
##   [8460,]  1.4904327189 -1.2120050     -1.3207918 -3.726229e-01  0.5294021
##   [8461,] -1.2325350567 -0.9342442     -1.3207918 -6.478773e-01  0.5294021
##   [8462,]  0.1987371239  1.0100814     -1.3207918 -9.742085e-02  0.5294021
##   [8463,]  1.3741188976  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [8464,]  1.0741516741  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [8465,] -0.2677425175 -1.2120050      0.7571158 -4.119374e-01  0.5294021
##   [8466,] -1.5716816727 -1.4897658      0.7571158  1.986251e+00 -1.8889088
##   [8467,]  0.1742500036 -1.4897658      0.7571158 -6.609297e-01  0.5294021
##   [8468,]  0.8856008479  1.0100814      0.7571158 -2.806792e-01  0.5294021
##   [8469,] -0.8640038964 -1.4897658     -1.3207918 -6.085103e-01  0.5294021
##   [8470,]  1.3190228769  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [8471,]  0.7594921784 -0.3787226      0.7571158  4.662977e-01  0.5294021
##   [8472,]  0.0787502345 -0.6564834      0.7571158  2.826200e-01  0.5294021
##   [8473,]  1.0202800095  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [8474,] -1.9169500687  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [8475,] -0.3387551663  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8476,]  0.9076392562  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [8477,] -0.0032816184  1.0100814      0.7571158 -4.250423e-01  0.5294021
##   [8478,] -0.6105622015 -0.6564834      0.7571158 -4.500143e-02 -1.8889088
##   [8479,]  0.4950312794 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [8480,]  0.5917554045 -1.4897658     -1.3207918  3.152584e+00  0.5294021
##   [8481,]  0.6750116135 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [8482,] -0.1440825601 -1.2120050      0.7571158 -5.028327e-01 -1.8889088
##   [8483,] -0.8358437081  1.0100814     -1.3207918  2.826200e-01  0.5294021
##   [8484,]  0.4056532903 -1.4897658      0.7571158 -2.913727e-01  0.5294021
##   [8485,] -1.8312451477  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [8486,]  0.1583333755  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [8487,] -1.3194643337 -0.9342442      0.7571158 -4.643569e-01  0.5294021
##   [8488,]  0.0738528105  0.4545598     -1.3207918  7.418002e-03  0.5294021
##   [8489,]  0.3897366621 -0.6564834      0.7571158  1.777811e-01  0.5294021
##   [8490,]  0.4166724945 -1.2120050      0.7571158  8.723386e-01  0.5294021
##   [8491,]  1.9275278160 -0.9342442      0.7571158  2.052286e-02  0.5294021
##   [8492,] -0.6215814056 -1.4897658     -1.3207918  2.052286e-02 -1.8889088
##   [8493,] -0.7232029548 -0.3787226      0.7571158 -5.036714e-01  0.5294021
##   [8494,] -2.0504048742 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [8495,]  2.0377198573 -1.4897658      0.7571158  2.170957e-01  0.5294021
##   [8496,] -0.9411383253 -0.6564834      0.7571158 -1.694976e-01  0.5294021
##   [8497,]  0.0860963706 -1.2120050      0.7571158 -1.879171e-02  0.5294021
##   [8498,] -0.2481528213 -0.1009618      0.7571158 -4.119374e-01  0.5294021
##   [8499,] -2.0687702144  1.0100814      0.7571158  8.080010e+00 -1.8889088
##   [8500,] -0.2738642976 -0.3787226      0.7571158  6.102414e-01  0.5294021
##   [8501,] -0.8333949961  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [8502,]  1.4867596509 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [8503,] -0.4342549354 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [8504,] -0.0975570315 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [8505,]  2.3131999605  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [8506,] -0.7256516668 -1.2120050      0.7571158 -5.298811e-01 -1.8889088
##   [8507,] -1.3427270980  0.7323206      0.7571158 -4.381471e-01  0.5294021
##   [8508,] -0.7403439390  0.4545598      0.7571158 -4.500143e-02 -1.8889088
##   [8509,]  0.7827549427 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [8510,]  1.0925170143 -0.3787226     -1.3207918 -2.022597e-01  0.5294021
##   [8511,] -0.7219785988 -1.2120050      0.7571158 -4.053850e-01 -1.8889088
##   [8512,] -0.3889537629 -0.9342442     -1.3207918 -1.498403e-01  0.5294021
##   [8513,]  0.9064149002 -1.4897658      0.7571158 -7.002443e-01  0.5294021
##   [8514,] -1.5814765208  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [8515,] -0.6815748503 -0.9342442     -1.3207918 -2.350219e-01  0.5294021
##   [8516,]  1.1231259147  1.0100814      0.7571158  8.985483e-01 -1.8889088
##   [8517,] -1.5778034527  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [8518,] -1.4247589510 -0.9342442      0.7571158  1.199960e+00  0.5294021
##   [8519,]  2.0805723178 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [8520,]  0.9590622088 -1.2120050     -1.3207918 -5.560909e-01  0.5294021
##   [8521,]  1.0974144384  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8522,] -0.6521903060  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [8523,]  0.4178968505  1.0100814      0.7571158  2.616522e-01  0.5294021
##   [8524,] -1.1958043763 -1.4897658      0.7571158  2.826200e-01 -1.8889088
##   [8525,] -0.5897481492  1.0100814      0.7571158 -9.742085e-02 -1.8889088
##   [8526,] -1.8055336714  1.0100814      0.7571158  3.034640e+00  0.5294021
##   [8527,] -1.3476245221 -1.2120050      0.7571158  1.632420e+00 -1.8889088
##   [8528,] -0.3595692186 -0.9342442     -1.3207918 -7.407324e-02  0.5294021
```

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##   [8529,]  0.8354022513  1.0100814      0.7571158 -2.022597e-01  0.5294021
##   [8530,] -1.1786633921 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [8531,] -0.4685369038  1.0100814     -1.3207918 -1.105257e-01 -1.8889088
##   [8532,]  0.8978444081  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [8533,] -0.7599336352  1.0100814     -1.3207918 -3.726229e-01 -1.8889088
##   [8534,]  1.4781891588  0.1767990      0.7571158 -3.142669e-01 -1.8889088
##   [8535,] -0.2616207374  1.0100814      0.7571158  8.136943e-01 -1.8889088
##   [8536,] -0.1049031676  0.4545598      0.7571158  1.515714e-01  0.5294021
##   [8537,] -0.9325678332 -1.4897658     -1.3207918  3.245555e-01  0.5294021
##   [8538,] -0.0253200267  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [8539,] -1.5814765208 -1.2120050     -1.3207918  6.102414e-01  0.5294021
##   [8540,] -1.0415355185 -0.6564834      0.7571158 -3.843517e-01  0.5294021
##   [8541,]  0.3652495419 -0.6564834      0.7571158 -5.209698e-01  0.5294021
##   [8542,]  1.6128683204 -0.1009618      0.7571158 -5.810628e-02 -1.8889088
##   [8543,]  0.1154809150 -0.9342442      0.7571158 -5.691957e-01  0.5294021
##   [8544,]  1.1182284906  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [8545,] -1.6022905730 -1.2120050     -1.3207918  6.757657e-01 -1.8889088
##   [8546,] -0.4146652392 -0.9342442      0.7571158 -4.381471e-01  0.5294021
##   [8547,] -1.1186699474 -0.9342442      0.7571158  6.233463e-01 -1.8889088
##   [8548,]  2.1466875426 -1.2120050     -1.3207918 -4.800827e-01  0.5294021
##   [8549,] -1.3341566059 -0.9342442      0.7571158  2.510446e+00 -1.8889088
##   [8550,] -1.0917341151  1.0100814     -1.3207918  2.052286e-02 -1.8889088
##   [8551,] -0.4146652392  0.1767990      0.7571158 -3.595180e-01 -1.8889088
##   [8552,] -0.0632750631  1.0100814      0.7571158 -6.478249e-01  0.5294021
##   [8553,] -0.9558305975  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [8554,]  0.7031718018  1.0100814      0.7571158  7.019754e-01 -1.8889088
##   [8555,] -0.4342549354  1.0100814      0.7571158 -3.791753e-01  0.5294021
##   [8556,] -0.6962671225  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [8557,]  0.1191539830 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [8558,] -1.3696629303 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [8559,]  0.9982416012 -1.4897658     -1.3207918 -6.609297e-01  0.5294021
##   [8560,]  1.1525104590  0.1767990      0.7571158 -1.498403e-01  0.5294021
##   [8561,]  1.1255746267  1.0100814      0.7571158 -6.609297e-01 -1.8889088
##   [8562,] -0.3130436900 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [8563,] -0.9093050690  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [8564,]  0.5366593839 -0.6564834      0.7571158 -4.500143e-02  0.5294021
##   [8565,] -1.3941500506  0.1767990      0.7571158  1.593106e+00 -1.8889088
##   [8566,] -0.7121837507  0.1767990      0.7571158 -4.500143e-02  0.5294021
##   [8567,]  0.7545947544  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [8568,] -1.7210531064  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8569,] -1.1174455914  1.0100814      0.7571158  4.673257e-02 -1.8889088
##   [8570,]  0.9394725125  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [8571,]  0.9713057689 -1.4897658      0.7571158  3.481443e-01  0.5294021
##   [8572,] -0.8762474566 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [8573,] -1.2790605853 -1.2120050      0.7571158  1.527581e+00  0.5294021
##   [8574,] -0.9619523776 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [8575,]  2.4625713942 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [8576,] -1.5765790967  1.0100814      0.7571158 -7.121114e-02  0.5294021
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##   [8578,] -0.3742614907  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [8579,]  0.4485057508  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [8580,]  0.1289488311  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [8581,]  0.9798762610 -0.6564834     -1.3207918 -3.070986e-01 -1.8889088
##   [8582,]  0.0738528105  0.4545598      0.7571158 -4.500143e-02  0.5294021
##   [8583,]  0.4583005989  1.0100814     -1.3207918 -9.099220e-01  0.5294021
##   [8584,]  1.7340795658 -0.1009618      0.7571158 -2.310904e-01 -1.8889088
##   [8585,] -1.1896825962 -0.3787226      0.7571158 -2.808889e-01  0.5294021
##   [8586,]  0.4178968505 -0.6564834     -1.3207918 -2.939937e-01  0.5294021
##   [8587,] -0.3889537629  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8588,]  1.1916898515  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [8589,] -0.9790933618  1.0100814     -1.3207918 -5.298811e-01  0.5294021
##   [8590,]  0.4534031749 -1.4897658      0.7571158  4.136686e-01  0.5294021
##   [8591,] -1.3770090664  1.0100814      0.7571158  1.777811e-01  0.5294021
##   [8592,] -0.8897153727 -0.3787226      0.7571158  1.278589e+00  0.5294021
##   [8593,]  0.9541647847  1.0100814      0.7571158 -2.677840e-01 -1.8889088
##   [8594,] -0.3008001299  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [8595,] -1.1590736959  1.0100814     -1.3207918  2.695151e-01  0.5294021
##   [8596,]  0.3395380656  1.0100814     -1.3207918  8.985483e-01  0.5294021
##   [8597,]  1.6128683204 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [8598,] -1.0231701783  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [8599,] -0.9497088174 -0.6564834     -1.3207918 -1.105257e-01  0.5294021
##   [8600,]  2.0193545171  1.0100814      0.7571158 -5.298811e-01  0.5294021
##   [8601,] -0.8431898442 -0.1009618     -1.3207918 -5.731272e-01  0.5294021
##   [8602,]  0.2477113645  1.0100814      0.7571158 -2.022597e-01 -1.8889088
##   [8603,] -0.7611579912 -0.9342442      0.7571158 -6.085103e-01  0.5294021
##   [8604,] -0.9350165453 -1.4897658      0.7571158 -4.774617e-01  0.5294021
##   [8605,] -1.1896825962  0.1767990      0.7571158 -1.879171e-02  0.5294021
##   [8606,] -0.1061275236  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8607,] -1.4345537991  0.1767990      0.7571158 -4.500143e-02  0.5294021
##   [8608,] -0.2432553972  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [8609,]  0.6431783571 -0.9342442      0.7571158 -4.381471e-01  0.5294021
##   [8610,]  0.7129666499 -1.2120050      0.7571158 -1.236306e-01  0.5294021
##   [8611,]  0.2917881810  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [8612,] -1.1872338842 -0.1009618     -1.3207918 -3.070986e-01  0.5294021
##   [8613,]  0.3823905261 -0.3787226      0.7571158  8.604715e-02 -1.8889088
##   [8614,]  0.4668710910  1.0100814      0.7571158  1.908860e-01 -1.8889088
##   [8615,]  0.1424167473  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8616,] -0.2861078577  0.4545598      0.7571158 -1.105257e-01  0.5294021
##   [8617,] -0.4330305794  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [8618,] -0.3203898261 -1.2120050      0.7571158  1.253617e-01  0.5294021
##   [8619,] -0.2359092611  1.0100814     -1.3207918  1.908860e-01  0.5294021
##   [8620,] -1.2827336533 -1.2120050      0.7571158  1.225514e+00 -1.8889088
##   [8621,] -1.2594708890 -0.3787226     -1.3207918 -6.216151e-01  0.5294021
##   [8622,]  0.7129666499 -0.9342442      0.7571158 -3.202034e-01 -1.8889088
##   [8623,]  0.9762031930  1.0100814     -1.3207918 -6.347200e-01  0.5294021
##   [8624,] -0.3154924021 -0.6564834     -1.3207918 -5.298811e-01  0.5294021
##   [8625,] -0.8995102208 -1.2120050     -1.3207918  2.826200e-01  0.5294021
##   [8626,]  0.1730256476 -0.6564834      0.7571158  4.660880e-01  0.5294021
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##   [8627,]  0.5868579804 -0.3787226     -1.3207918 -1.367354e-01  0.5294021
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##   [8629,]  0.0714040984 -1.2120050      0.7571158 -4.119374e-01  0.5294021
##   [8630,]  0.3113778772  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [8631,]  0.6639924093  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [8632,] -1.0513303666  0.4545598      0.7571158  2.182824e+00  0.5294021
##   [8633,] -0.9962343460  1.0100814     -1.3207918  3.362772e-02  0.5294021
##   [8634,]  1.5810350640  1.0100814     -1.3207918 -8.810913e-01  0.5294021
##   [8635,] -1.8116554515 -1.2120050     -1.3207918 -5.167763e-01  0.5294021
##   [8636,] -1.1162212354 -1.2120050     -1.3207918 -4.905666e-01  0.5294021
##   [8637,] -0.5811776571 -0.6564834      0.7571158 -3.726229e-01 -1.8889088
##   [8638,] -1.2619196011 -1.2120050      0.7571158  2.998850e-02 -1.8889088
##   [8639,]  0.5991015406  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [8640,] -0.5775045891  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [8641,]  0.6382809330 -0.6564834     -1.3207918 -4.500143e-02  0.5294021
##   [8642,] -0.5273059925  1.0100814      0.7571158  5.054026e-01  0.5294021
##   [8643,] -1.5973931490 -0.3787226     -1.3207918  7.418002e-03 -1.8889088
##   [8644,] -0.6289275417 -1.2120050     -1.3207918 -1.760500e-01  0.5294021
##   [8645,] -0.0143008226 -1.2120050     -1.3207918 -3.070986e-01 -1.8889088
##   [8646,]  0.0016158056 -0.3787226      0.7571158 -5.691957e-01 -1.8889088
##   [8647,] -0.3742614907 -1.4897658      0.7571158 -4.905666e-01  0.5294021
##   [8648,] -1.6169828452 -0.3787226     -1.3207918  1.646763e-01 -1.8889088
##   [8649,] -1.4602652754  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [8650,] -0.4783317520  0.4545598     -1.3207918  2.838067e+00  0.5294021
##   [8651,] -0.1893837326 -1.2120050     -1.3207918 -4.250423e-01  0.5294021
##   [8652,]  0.1252757631 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [8653,] -1.2166184285 -0.9342442      0.7571158  8.723386e-01  0.5294021
##   [8654,]  1.3704458295 -1.2120050     -1.3207918 -8.260509e-01  0.5294021
##   [8655,]  0.0383464861  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [8656,]  0.4876851433  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [8657,]  0.7729600946  1.0100814      0.7571158 -3.065883e-03  0.5294021
##   [8658,] -0.5579148929  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [8659,]  0.4178968505  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [8660,]  0.8917226280 -1.4897658      0.7571158 -3.070986e-01 -1.8889088
##   [8661,]  1.3471830653  0.1767990     -1.3207918 -6.740346e-01  0.5294021
##   [8662,]  0.7607165345 -0.3787226     -1.3207918 -5.691957e-01  0.5294021
##   [8663,] -0.5970942853 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [8664,] -0.9741959377  1.0100814     -1.3207918 -1.498403e-01 -1.8889088
##   [8665,]  1.0117095174  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [8666,] -1.1162212354  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [8667,]  1.7365282778  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [8668,] -1.5704573167 -0.6564834      0.7571158  1.515714e-01  0.5294021
##   [8669,]  0.5391080959  1.0100814      0.7571158 -2.808889e-01 -1.8889088
##   [8670,] -1.3047720616  0.1767990      0.7571158 -1.498403e-01  0.5294021
##   [8671,]  1.2578050762  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [8672,]  1.2749460604 -1.4897658     -1.3207918 -6.572604e-01  0.5294021
##   [8673,]  1.4585994626 -0.3787226     -1.3207918 -6.347200e-01  0.5294021
##   [8674,] -1.2521247529 -1.4897658      0.7571158  7.418002e-03  0.5294021
##   [8675,]  1.2614781443  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8676,]  0.7962228589 -0.3787226     -1.3207918 -1.183886e-01 -1.8889088
##   [8677,] -0.9350165453  1.0100814      0.7571158 -3.070986e-01 -1.8889088
##   [8678,] -0.2579476694 -1.4897658      0.7571158  9.378629e-01  0.5294021
##   [8679,]  1.1941385635 -0.1009618      0.7571158  1.021734e+00  0.5294021
##   [8680,]  0.0554874703  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8681,] -1.6280020493  1.0100814     -1.3207918 -5.429860e-01 -1.8889088
##   [8682,]  0.7533703984  0.7323206      0.7571158 -2.415743e-01  0.5294021
##   [8683,] -0.1453069161  1.0100814      0.7571158  6.561084e-01  0.5294021
##   [8684,]  0.7521460424 -0.1009618      0.7571158  8.723386e-01  0.5294021
##   [8685,]  1.1463886789  1.0100814     -1.3207918 -9.742085e-02  0.5294021
##   [8686,] -0.4966970922 -0.3787226     -1.3207918 -5.810628e-02  0.5294021
##   [8687,]  1.5736889279  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [8688,] -0.0559289270  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [8689,]  0.0481413342  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [8690,] -0.1538774082  1.0100814      0.7571158  2.760676e-01  0.5294021
##   [8691,] -0.0865378274  0.7323206     -1.3207918  1.777811e-01  0.5294021
##   [8692,]  1.5381826035  1.0100814     -1.3207918 -8.219622e-01  0.5294021
##   [8693,] -0.9068563569 -1.2120050      0.7571158  2.170957e-01 -1.8889088
##   [8694,] -0.7672797713 -1.2120050      0.7571158  8.723386e-01 -1.8889088
##   [8695,]  1.0888439463 -0.9342442     -1.3207918 -5.888530e-01  0.5294021
##   [8696,] -0.0853134714 -1.2120050     -1.3207918 -2.351791e-01  0.5294021
##   [8697,] -1.0770418429  1.0100814      0.7571158  7.294229e-02 -1.8889088
##   [8698,]  1.2822921965  1.0100814     -1.3207918 -3.647599e-01  0.5294021
##   [8699,] -1.4333294431 -0.9342442      0.7571158 -1.367354e-01 -1.8889088
##   [8700,] -0.3999729670  1.0100814     -1.3207918  2.171219e-01 -1.8889088
##   [8701,] -0.8676769645 -0.1009618     -1.3207918 -6.085103e-01  0.5294021
##   [8702,] -0.5995429974 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
##   [8703,]  0.7154153619  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [8704,] -0.1269415759  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [8705,] -0.2053003608  1.0100814      0.7571158 -2.153646e-01  0.5294021
##   [8706,]  1.1488373910 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [8707,] -0.4538446317  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [8708,] -1.0599008587 -0.6564834     -1.3207918 -5.036714e-01 -1.8889088
##   [8709,] -0.9386896133  0.1767990      0.7571158 -3.031671e-01 -1.8889088
##   [8710,] -0.3558961505  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8711,] -0.1906080886  1.0100814      0.7571158 -5.231452e-01  0.5294021
##   [8712,]  0.1681282236  0.7323206      0.7571158 -3.726229e-01  0.5294021
##   [8713,] -0.5995429974  1.0100814      0.7571158 -5.686855e-03 -1.8889088
##   [8714,]  1.4365610543 -0.3787226     -1.3207918 -7.395589e-01  0.5294021
##   [8715,] -0.6448441699 -0.6564834     -1.3207918  5.447171e-01 -1.8889088
##   [8716,]  0.4019802223 -0.9342442      0.7571158 -6.089034e-01  0.5294021
##   [8717,] -1.1064263873  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8718,]  0.0750771665 -0.1009618     -1.3207918 -3.241349e-01 -1.8889088
##   [8719,] -0.0534802150  0.1767990      0.7571158 -1.760500e-01  0.5294021
##   [8720,] -0.6693312902 -1.4897658      0.7571158 -2.620179e-01  0.5294021
##   [8721,]  0.3101535212 -1.2120050      0.7571158 -5.560909e-01  0.5294021
##   [8722,]  1.0386453497  0.7323206      0.7571158 -5.298811e-01  0.5294021
##   [8723,]  2.1466875426  0.7323206      0.7571158 -3.595180e-01  0.5294021
##   [8724,] -0.1036788116  1.0100814     -1.3207918 -6.347200e-01  0.5294021
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##   [8725,] -0.3522230825 -0.3787226      0.7571158 -6.609297e-01  0.5294021
##   [8726,] -0.3265116062 -1.2120050      0.7571158 -2.415743e-01 -1.8889088
##   [8727,] -0.6081134895 -1.4897658      0.7571158 -2.677840e-01 -1.8889088
##   [8728,] -0.4966970922 -0.9342442      0.7571158 -2.415743e-01  0.5294021
##   [8729,] -0.7991130277 -0.3787226      0.7571158  8.723386e-01  0.5294021
##   [8730,]  1.0300748576 -1.2120050      0.7571158  1.581239e-01  0.5294021
##   [8731,] -0.7648310593  1.0100814      0.7571158  1.058428e+00 -1.8889088
##   [8732,] -1.3035477055  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8733,]  0.3750443900  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [8734,]  2.4503278341  0.1767990      0.7571158 -5.823006e-01  0.5294021
##   [8735,]  0.1583333755  0.7323206      0.7571158 -4.381471e-01  0.5294021
##   [8736,] -1.2643683131 -0.3787226      0.7571158  1.658630e+00 -1.8889088
##   [8737,]  0.7778575187  1.0100814      0.7571158 -3.857277e-01  0.5294021
##   [8738,] -1.4492460712 -0.9342442      0.7571158  2.170957e-01  0.5294021
##   [8739,] -1.8030849594  1.0100814      0.7571158  1.527581e+00 -1.8889088
##   [8740,] -1.2386568368 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [8741,] -1.1541762718  1.0100814      0.7571158 -1.734290e-01  0.5294021
##   [8742,] -0.7097350386 -0.6564834      0.7571158  1.122569e-01  0.5294021
##   [8743,] -0.6472928819  0.1767990      0.7571158  4.791929e-01 -1.8889088
##   [8744,] -1.3145669097  1.0100814     -1.3207918 -4.119374e-01  0.5294021
##   [8745,] -0.6411711018  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [8746,] -1.1345865756 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [8747,]  1.1292476947  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [8748,] -1.4088423228  1.0100814     -1.3207918 -1.105257e-01 -1.8889088
##   [8749,]  1.4451315464 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [8750,] -0.7501387871  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [8751,] -1.7075851902 -1.2120050     -1.3207918 -4.184899e-01  0.5294021
##   [8752,]  0.6860308176 -0.9342442     -1.3207918 -5.954054e-01  0.5294021
##   [8753,] -0.2334605491 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [8754,] -0.5322034166  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8755,]  0.9664083448  0.1767990      0.7571158 -5.036714e-01  0.5294021
##   [8756,] -0.6546390180  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [8757,] -0.1073518796  1.0100814      0.7571158  9.378629e-01 -1.8889088
##   [8758,] -0.2897809258  0.1767990      0.7571158  1.802783e+00  0.5294021
##   [8759,] -0.3240628942  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [8760,] -0.2261144130 -1.2120050      0.7571158 -5.036714e-01 -1.8889088
##   [8761,] -0.0853134714 -0.9342442     -1.3207918 -3.070986e-01  0.5294021
##   [8762,] -0.3473256584  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [8763,]  0.7215371420  1.0100814      0.7571158  7.294229e-02  0.5294021
##   [8764,]  0.4068776463 -0.6564834     -1.3207918 -5.036714e-01 -1.8889088
##   [8765,]  0.9162097483  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [8766,] -1.4149641028  1.0100814      0.7571158  1.581239e-01  0.5294021
##   [8767,]  0.3126022332 -0.1009618     -1.3207918 -1.105257e-01  0.5294021
##   [8768,] -1.4088423228  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [8769,]  0.6174668808  0.4545598      0.7571158 -3.070986e-01  0.5294021
##   [8770,] -1.6157584892 -0.1009618     -1.3207918 -3.726229e-01  0.5294021
##   [8771,]  0.7656139585  1.0100814     -1.3207918 -3.922801e-01  0.5294021
##   [8772,]  0.0958912187  1.0100814      0.7571158 -1.898101e-01  0.5294021
##   [8773,] -1.2313107007 -0.9342442     -1.3207918 -3.817700e-01  0.5294021
##   [8774,]  0.5917554045 -0.9342442     -1.3207918  2.170957e-01  0.5294021
##   [8775,]  0.7545947544 -1.4897658     -1.3207918 -6.243541e-01  0.5294021
##   [8776,]  1.4218687821  1.0100814      0.7571158 -5.560909e-01 -1.8889088
##   [8777,]  0.1522115954 -1.4897658     -1.3207918 -4.643569e-01  0.5294021
##   [8778,] -0.0669481312  1.0100814      0.7571158  1.658630e+00  0.5294021
##   [8779,] -1.0378624505  0.1767990      0.7571158  2.170957e-01 -1.8889088
##   [8780,]  0.0738528105  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [8781,] -1.0562277907  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [8782,]  0.5709413523 -0.9342442     -1.3207918 -5.954054e-01  0.5294021
##   [8783,] -0.9888882099 -1.4897658      0.7571158  8.461289e-01 -1.8889088
##   [8784,] -1.4137397468 -0.6564834     -1.3207918 -1.760500e-01  0.5294021
##   [8785,] -0.4477228516 -0.9342442      0.7571158  1.003387e+00  0.5294021
##   [8786,] -1.5104638720  0.7323206      0.7571158  1.973147e+00  0.5294021
##   [8787,] -1.6794250019  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [8788,] -1.1713172560 -0.3787226      0.7571158  1.253617e-01  0.5294021
##   [8789,] -0.8236001480  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [8790,]  0.5966528285  1.0100814      0.7571158 -2.939937e-01 -1.8889088
##   [8791,] -1.0696957068  0.1767990      0.7571158  3.362772e-02 -1.8889088
##   [8792,] -1.7124826143 -0.6564834      0.7571158  2.957249e-01  0.5294021
##   [8793,] -0.2714155855 -1.2120050     -1.3207918 -2.022597e-01  0.5294021
##   [8794,] -1.5141369400 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [8795,] -0.1881593766 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [8796,] -0.3926268310 -0.1009618      0.7571158  8.604715e-02 -1.8889088
##   [8797,] -0.7734015514 -1.2120050     -1.3207918  1.253617e-01  0.5294021
##   [8798,] -0.8995102208 -0.6564834     -1.3207918  2.182824e+00  0.5294021
##   [8799,]  0.3064804532  1.0100814     -1.3207918 -2.924735e-01 -1.8889088
##   [8800,] -1.1811121041 -0.3787226     -1.3207918  1.515714e-01  0.5294021
##   [8801,]  1.4953301430  1.0100814     -1.3207918 -3.755059e-01  0.5294021
##   [8802,] -1.1052020312 -1.4897658      0.7571158  7.412900e-01 -1.8889088
##   [8803,]  0.0481413342  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [8804,] -0.0461340789  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [8805,]  0.6321591530  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [8806,] -1.5239317881  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [8807,]  1.5969516922  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [8808,]  0.1216026950 -0.3787226     -1.3207918 -8.693697e-02  0.5294021
##   [8809,] -1.1321378636  0.4545598      0.7571158 -3.726229e-01 -1.8889088
##   [8810,] -0.9448113934  1.0100814     -1.3207918 -2.966147e-01  0.5294021
##   [8811,] -0.0804160473  1.0100814     -1.3207918 -1.105257e-01  0.5294021
##   [8812,] -0.1979542247 -1.4897658     -1.3207918  5.840317e-01  0.5294021
##   [8813,] -0.0008329064 -1.4897658      0.7571158  8.604715e-02 -1.8889088
##   [8814,]  0.1644551555 -0.9342442     -1.3207918 -3.070986e-01  0.5294021
##   [8815,] -0.3730371347  0.7323206      0.7571158 -2.153646e-01  0.5294021
##   [8816,] -1.2974259255 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [8817,] -1.5251561441  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [8818,] -0.6081134895 -0.3787226      0.7571158  2.826200e-01  0.5294021
##   [8819,]  0.9835493290 -0.1009618     -1.3207918 -6.347200e-01  0.5294021
##   [8820,] -0.6277031857 -1.4897658     -1.3207918  1.920727e+00  0.5294021
##   [8821,] -0.5273059925 -0.6564834     -1.3207918 -3.595180e-01  0.5294021
##   [8822,] -1.6977903421 -1.2120050     -1.3207918  2.170957e-01  0.5294021
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##   [8823,] -0.0755186233  0.7323206      0.7571158  2.946109e-01 -1.8889088
##   [8824,]  1.1035362184  1.0100814     -1.3207918  3.481443e-01  0.5294021
##   [8825,] -0.0657237752 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [8826,]  1.6373554407  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [8827,]  0.2575062126  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [8828,] -1.2680413811  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [8829,]  0.2232242442 -0.9342442     -1.3207918 -3.070986e-01  0.5294021
##   [8830,]  2.3450332169  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [8831,]  1.2174013278  1.0100814      0.7571158  6.631711e-03  0.5294021
##   [8832,] -0.2579476694  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [8833,]  0.5452298760 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [8834,]  0.0787502345  1.0100814      0.7571158  4.529831e-01 -1.8889088
##   [8835,] -1.1970287323 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [8836,] -0.6570877300 -0.1009618      0.7571158 -2.939937e-01 -1.8889088
##   [8837,]  0.8647867957  0.7323206      0.7571158 -2.153646e-01 -1.8889088
##   [8838,] -0.4501715636 -1.4897658     -1.3207918 -7.002443e-01  0.5294021
##   [8839,] -0.0338905188 -0.9342442      0.7571158  2.695151e-01  0.5294021
##   [8840,] -1.0550034347  1.0100814      0.7571158  2.182824e+00  0.5294021
##   [8841,] -1.8447130638  1.0100814      0.7571158  1.331009e+00  0.5294021
##   [8842,] -1.0341893824 -0.6564834      0.7571158  8.330240e-01 -1.8889088
##   [8843,] -0.8640038964  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [8844,] -0.1771401724  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [8845,] -1.0366380944 -1.4897658      0.7571158  2.302006e-01  0.5294021
##   [8846,]  0.6933769537  0.1767990      0.7571158 -2.415743e-01  0.5294021
##   [8847,]  2.0181301611  1.0100814     -1.3207918 -5.691957e-01 -1.8889088
##   [8848,] -1.0733687749 -1.4897658     -1.3207918 -5.954054e-01  0.5294021
##   [8849,] -0.9631767336 -0.1009618      0.7571158 -3.726229e-01  0.5294021
##   [8850,]  0.5758387763 -0.9342442     -1.3207918 -2.939937e-01  0.5294021
##   [8851,] -0.1244928638 -0.1009618     -1.3207918 -2.808889e-01  0.5294021
##   [8852,] -0.3069219100  1.0100814     -1.3207918 -1.879171e-02  0.5294021
##   [8853,]  0.1864935638  0.7323206     -1.3207918  3.481443e-01  0.5294021
##   [8854,] -0.0583776391  1.0100814      0.7571158  3.100164e+00 -1.8889088
##   [8855,]  2.0071109570  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [8856,]  0.7117422939 -1.2120050      0.7571158  5.983743e-02  0.5294021
##   [8857,]  0.0089619417  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [8858,]  0.1669038676 -0.9342442      0.7571158 -4.610544e-01  0.5294021
##   [8859,] -1.1921313083 -1.4897658      0.7571158  1.003387e+00  0.5294021
##   [8860,] -0.9999074140 -1.4897658      0.7571158 -5.954054e-01  0.5294021
##   [8861,]  0.0677310304  1.0100814     -1.3207918  2.052286e-02  0.5294021
##   [8862,] -0.7819720435  0.7323206      0.7571158 -4.500143e-02 -1.8889088
##   [8863,] -0.8003373837 -0.3787226      0.7571158  2.170957e-01  0.5294021
##   [8864,] -0.4893509561  1.0100814      0.7571158  1.843336e-01 -1.8889088
##   [8865,] -1.5814765208  1.0100814      0.7571158  1.199960e+00 -1.8889088
##   [8866,] -0.0326661628  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [8867,]  1.1855680714  1.0100814     -1.3207918 -3.857277e-01 -1.8889088
##   [8868,] -1.0696957068 -1.4897658     -1.3207918  6.102414e-01  0.5294021
##   [8869,] -0.7354465149 -1.4897658      0.7571158 -5.023609e-01  0.5294021
##   [8870,] -0.0400122989 -1.4897658      0.7571158  5.447171e-01 -1.8889088
##   [8871,]  0.3040317411  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [8872,] -0.3167167581  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [8873,] -0.5909725053  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [8874,] -1.0696957068 -1.4897658     -1.3207918  5.132655e-01 -1.8889088
##   [8875,] -1.0207214663 -1.2120050     -1.3207918 -6.609297e-01  0.5294021
##   [8876,] -0.1195954398 -0.6564834     -1.3207918 -3.857277e-01  0.5294021
##   [8877,] -1.7137069703 -1.4897658      0.7571158  1.527581e+00  0.5294021
##   [8878,] -0.7281003789 -1.2120050     -1.3207918  2.052286e-02 -1.8889088
##   [8879,] -1.6586109497 -1.2120050      0.7571158 -1.563927e-01  0.5294021
##   [8880,] -0.3852806949 -0.1009618      0.7571158  4.791929e-01  0.5294021
##   [8881,] -0.5958699293  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [8882,]  0.4178968505 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
##   [8883,]  0.3456598456  0.1767990      0.7571158  3.743540e-01 -1.8889088
##   [8884,]  0.8488701675  1.0100814     -1.3207918 -4.093165e-01  0.5294021
##   [8885,]  0.4044289343  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [8886,] -1.0305163144  1.0100814      0.7571158 -2.599211e-01  0.5294021
##   [8887,] -1.1566249838 -0.1009618     -1.3207918 -3.726229e-01  0.5294021
##   [8888,] -0.7183055307  1.0100814     -1.3207918  2.695151e-01  0.5294021
##   [8889,] -0.9582793095  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [8890,] -0.7195298868  0.1767990      0.7571158  8.604715e-02 -1.8889088
##   [8891,]  2.3646229131 -0.9342442      0.7571158  4.922977e-01  0.5294021
##   [8892,]  1.9875212607  1.0100814     -1.3207918 -5.298811e-01 -1.8889088
##   [8893,] -1.7381940906  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [8894,] -0.4954727362  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [8895,]  0.6590949853 -1.4897658      0.7571158  1.364222e-01 -1.8889088
##   [8896,] -0.6301518977  1.0100814      0.7571158 -4.905666e-01  0.5294021
##   [8897,]  0.9223315283 -1.2120050     -1.3207918 -6.085103e-01  0.5294021
##   [8898,] -1.0231701783 -1.2120050      0.7571158 -2.022597e-01  0.5294021
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##   [8900,]  0.2452626525  1.0100814      0.7571158  1.777811e-01  0.5294021
##   [8901,] -0.6166839816  1.0100814      0.7571158  8.199191e-01  0.5294021
##   [8902,] -0.3485500144  1.0100814      0.7571158 -5.686855e-03  0.5294021
##   [8903,] -0.5824020132 -1.2120050     -1.3207918 -5.954054e-01 -1.8889088
##   [8904,] -0.5860750812 -0.6564834      0.7571158  2.431817e+00  0.5294021
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##   [8906,] -0.8909397287  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [8907,] -0.7807476875 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [8908,] -0.1195954398 -0.1009618      0.7571158 -4.905666e-01  0.5294021
##   [8909,] -2.0516292302  1.0100814      0.7571158 -7.526637e-01  0.5294021
##   [8910,]  0.3370893535 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [8911,] -0.1134736597  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [8912,]  0.4460570388  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [8913,] -0.7134081067  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [8914,] -0.3742614907 -0.1009618      0.7571158 -1.498403e-01  0.5294021
##   [8915,]  0.8341778953 -1.4897658     -1.3207918  8.604715e-02  0.5294021
##   [8916,]  1.2431128041  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [8917,] -1.3402783860  1.0100814     -1.3207918 -3.333083e-01  0.5294021
##   [8918,] -0.6252544737  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [8919,] -1.7908413992  1.0100814      0.7571158  1.291694e+00  0.5294021
##   [8920,] -0.2567233134  1.0100814      0.7571158  4.791929e-01  0.5294021
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##   [8922,]  1.9397713762 -0.6564834      0.7571158 -5.392642e-01 -1.8889088
##   [8923,] -0.5701584530 -0.3787226      0.7571158 -1.879171e-02  0.5294021
##   [8924,] -0.9007345769 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [8925,]  0.7362294142  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [8926,] -0.3546717945  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [8927,] -0.2199926329 -1.2120050      0.7571158  2.170957e-01 -1.8889088
##   [8928,] -0.2199926329 -0.3787226     -1.3207918 -3.475664e-01  0.5294021
##   [8929,] -0.1049031676 -0.6564834     -1.3207918 -1.105257e-01  0.5294021
##   [8930,]  1.8944702036  1.0100814      0.7571158 -9.153736e-01  0.5294021
##   [8931,]  0.2256729562  1.0100814     -1.3207918  1.646763e-01  0.5294021
##   [8932,] -0.5689340970  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [8933,]  0.6603193413 -0.1009618     -1.3207918 -2.022597e-01  0.5294021
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##   [8935,] -1.9659243092 -1.4897658     -1.3207918  4.464307e-01  0.5294021
##   [8936,] -0.9656254456 -0.3787226      0.7571158 -2.415743e-01  0.5294021
##   [8937,] -1.2153940725  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [8938,] -2.1508020674  1.0100814      0.7571158 -4.686946e-01  0.5294021
##   [8939,] -0.6130109135  0.1767990      0.7571158 -4.500143e-02  0.5294021
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##   [8942,]  0.4227942745  0.1767990      0.7571158  2.170957e-01  0.5294021
##   [8943,] -0.7293247349 -1.4897658      0.7571158  7.412900e-01  0.5294021
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##   [8954,]  0.6125694567  1.0100814      0.7571158  6.326900e-01  0.5294021
##   [8955,] -0.7158568187  0.4545598     -1.3207918 -2.796511e-02  0.5294021
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##   [8973,]  0.3248457934 -0.6564834      0.7571158 -2.677840e-01 -1.8889088
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##   [8987,]  1.2651512123 -0.3787226      0.7571158 -1.879171e-02 -1.8889088
##   [8988,] -1.4308807310 -0.1009618     -1.3207918  3.362772e-02 -1.8889088
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##   [8991,]  0.5538003681  1.0100814      0.7571158 -1.957073e-01  0.5294021
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##   [8993,]  1.2602537883  1.0100814     -1.3207918 -4.119374e-01  0.5294021
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##   [8998,]  0.8488701675 -0.6564834     -1.3207918 -2.415743e-01  0.5294021
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##   [9013,]  0.7937741468  1.0100814      0.7571158 -7.002443e-01  0.5294021
##   [9014,] -0.7807476875 -1.2120050      0.7571158  1.619315e+00  0.5294021
##   [9015,] -1.6035149290 -0.9342442      0.7571158  4.673257e-02  0.5294021
##   [9016,] -0.4587420557  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [9017,] -0.6423954579 -0.6564834      0.7571158  3.362772e-02  0.5294021
##   [9018,] -1.4125153908  0.4545598      0.7571158  5.840317e-01  0.5294021
```

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##   [9019,] -0.5297547045 -1.2120050     -1.3207918 -4.604254e-01  0.5294021
##   [9020,] -0.6840235623 -1.4897658      0.7571158  1.593106e+00  0.5294021
##   [9021,] -1.3170156217  1.0100814      0.7571158  6.233463e-01  0.5294021
##   [9022,] -0.8223757920 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [9023,]  0.3872879501 -0.6564834     -1.3207918 -5.691957e-01 -1.8889088
##   [9024,] -0.6656582221  1.0100814     -1.3207918  1.199960e+00  0.5294021
##   [9025,]  0.6003258966 -0.6564834     -1.3207918 -4.500143e-02  0.5294021
##   [9026,] -0.8089078758 -0.1009618      0.7571158  2.826200e-01 -1.8889088
##   [9027,] -0.4232357313  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [9028,] -0.0277687387 -0.6564834      0.7571158 -6.347200e-01 -1.8889088
##   [9029,] -0.4673125478  1.0100814     -1.3207918 -6.740346e-01  0.5294021
##   [9030,]  0.5856336244  0.1767990      0.7571158 -5.547804e-01  0.5294021
##   [9031,] -0.8444142002  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [9032,] -0.3779345588 -0.6564834      0.7571158 -6.216151e-01  0.5294021
##   [9033,] -0.1526530522 -0.9342442     -1.3207918  1.777811e-01  0.5294021
##   [9034,] -1.5349509922  0.7323206      0.7571158  4.673257e-02  0.5294021
##   [9035,] -1.3378296739  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9036,] -0.9276704092 -1.4897658     -1.3207918 -5.691957e-01 -1.8889088
##   [9037,] -0.9692985137 -0.6564834     -1.3207918 -3.464131e-01  0.5294021
##   [9038,] -0.2579476694 -0.9342442     -1.3207918  1.527581e+00  0.5294021
##   [9039,]  0.6946013097  0.7323206     -1.3207918 -4.500143e-02  0.5294021
##   [9040,]  1.3043306048  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [9041,] -1.6965659861  1.0100814     -1.3207918  1.265484e+00 -1.8889088
##   [9042,]  0.0236542139 -0.3787226     -1.3207918 -4.381471e-01  0.5294021
##   [9043,]  0.4374865467 -0.1009618      0.7571158 -4.500143e-02  0.5294021
##   [9044,] -0.3914024749  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [9045,] -0.9595036655  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [9046,] -0.2616207374 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [9047,]  1.2027090556 -1.4897658      0.7571158  1.515714e-01  0.5294021
##   [9048,]  0.0261029259  1.0100814      0.7571158  1.682690e-01  0.5294021
##   [9049,]  0.1460898153  0.4545598     -1.3207918 -2.022597e-01 -1.8889088
##   [9050,] -0.0081790425 -0.3787226      0.7571158 -3.294555e-01 -1.8889088
##   [9051,] -1.7222774624  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [9052,] -0.3522230825 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [9053,]  0.8647867957 -1.4897658     -1.3207918 -6.609297e-01  0.5294021
##   [9054,]  0.0016158056 -0.6564834      0.7571158  1.396533e+00  0.5294021
##   [9055,] -1.8900142364 -0.1009618      0.7571158  2.170957e-01  0.5294021
##   [9056,]  1.2088308357 -0.3787226      0.7571158  8.604715e-02 -1.8889088
##   [9057,] -1.2594708890  0.1767990     -1.3207918 -1.236306e-01  0.5294021
##   [9058,]  0.0811989466 -0.1009618      0.7571158  1.003387e+00 -1.8889088
##   [9059,]  1.9520149363 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [9060,]  1.3398369292 -0.1009618      0.7571158 -1.498403e-01  0.5294021
##   [9061,] -0.2432553972  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [9062,] -0.1857106645  1.0100814      0.7571158  9.378629e-01  0.5294021
##   [9063,]  0.6309347969  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [9064,]  2.2630013639  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [9065,]  0.2734228408  1.0100814      0.7571158  2.039909e-01 -1.8889088
##   [9066,] -0.5126137203  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [9067,]  0.9455942926 -0.9342442      0.7571158  3.224448e-03 -1.8889088
##   [9068,] -0.9337921892 -1.2120050      0.7571158  6.364511e-01 -1.8889088
##   [9069,]  1.2443371601 -0.9342442     -1.3207918 -6.347200e-01  0.5294021
##   [9070,]  1.5871568441  1.0100814     -1.3207918 -8.818776e-01  0.5294021
##   [9071,] -0.2199926329  0.1767990      0.7571158 -6.740346e-01  0.5294021
##   [9072,] -0.3840563389 -0.6564834      0.7571158 -4.512520e-01  0.5294021
##   [9073,] -1.0856123350  1.0100814      0.7571158 -2.927560e-02  0.5294021
##   [9074,]  1.0325235696 -0.9342442     -1.3207918 -2.048807e-01  0.5294021
##   [9075,] -0.2787617216 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [9076,]  2.4001292375  1.0100814      0.7571158 -3.857277e-01  0.5294021
##   [9077,]  0.7423511942 -0.3787226     -1.3207918 -3.070986e-01 -1.8889088
##   [9078,]  0.4056532903 -0.3787226      0.7571158 -3.739071e-01  0.5294021
##   [9079,] -0.0596019951  1.0100814     -1.3207918  8.604715e-02 -1.8889088
##   [9080,] -2.0308151780 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [9081,] -1.3047720616  1.0100814     -1.3207918 -1.891549e-01  0.5294021
##   [9082,]  0.7619408905 -1.2120050     -1.3207918 -3.988326e-01  0.5294021
##   [9083,] -1.0599008587  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [9084,] -0.1465312721  0.1767990     -1.3207918  8.604715e-02  0.5294021
##   [9085,] -0.4342549354 -0.6564834     -1.3207918  1.908860e-01  0.5294021
##   [9086,] -0.0510315030  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [9087,] -0.4881266001  1.0100814     -1.3207918 -3.857277e-01 -1.8889088
##   [9088,] -1.2325350567  0.4545598      0.7571158 -1.760500e-01  0.5294021
##   [9089,] -0.3240628942  1.0100814     -1.3207918  2.564103e-01  0.5294021
##   [9090,] -1.1456057797 -0.9342442      0.7571158  1.462057e+00 -1.8889088
##   [9091,] -0.8884910167  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [9092,] -1.3623167942 -1.4897658      0.7571158 -4.500143e-02 -1.8889088
##   [9093,] -1.2864067213  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [9094,]  2.0707774697 -0.3787226     -1.3207918 -3.070986e-01  0.5294021
##   [9095,] -1.6524891696  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [9096,]  0.2354678043  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [9097,] -1.2215158526  0.7323206      0.7571158 -5.691957e-01  0.5294021
##   [9098,]  1.1059849305 -0.9342442     -1.3207918 -4.774617e-01  0.5294021
##   [9099,] -0.2175439209 -1.2120050      0.7571158 -4.381471e-01  0.5294021
##   [9100,]  1.2541320082  0.4545598      0.7571158 -1.486025e-02  0.5294021
##   [9101,]  1.0043633813  1.0100814      0.7571158  2.052286e-02 -1.8889088
##   [9102,]  1.6863296812 -0.3787226      0.7571158 -6.478249e-01  0.5294021
##   [9103,] -0.6068891334 -0.3787226      0.7571158 -4.643569e-01  0.5294021
##   [9104,]  1.0900683023  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [9105,] -1.9928601416  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [9106,] -1.2839580093  1.0100814     -1.3207918  1.122569e-01  0.5294021
##   [9107,]  2.1356683384  0.4545598      0.7571158 -5.691957e-01 -1.8889088
##   [9108,]  2.0413929253  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [9109,]  0.5574734361  0.7323206     -1.3207918 -2.415743e-01  0.5294021
##   [9110,] -0.6950427665 -1.2120050      0.7571158  3.612491e-01  0.5294021
##   [9111,] -0.8848179487  1.0100814     -1.3207918 -6.085103e-01  0.5294021
##   [9112,] -1.1039776752 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [9113,] -0.3240628942  1.0100814      0.7571158 -6.609297e-01  0.5294021
##   [9114,] -0.7831963995 -0.9342442      0.7571158  1.265484e+00  0.5294021
##   [9115,] -0.7207542428  1.0100814      0.7571158  5.983743e-02  0.5294021
##   [9116,] -1.1958043763 -1.4897658      0.7571158  1.122569e-01  0.5294021
```

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##   [9117,] -0.7782989754  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [9118,] -0.5077162963 -0.1009618     -1.3207918 -4.119374e-01  0.5294021
##   [9119,]  1.6055221843 -0.9342442      0.7571158 -3.726229e-01 -1.8889088
##   [9120,]  2.5176674149  1.0100814     -1.3207918 -2.808889e-01  0.5294021
##   [9121,]  1.3288177251  1.0100814     -1.3207918 -4.053850e-01 -1.8889088
##   [9122,]  0.2807689769 -1.4897658     -1.3207918  3.480394e-01 -1.8889088
##   [9123,]  1.4047277979 -0.6564834     -1.3207918 -3.540182e-01  0.5294021
##   [9124,]  0.1999614799 -0.1009618      0.7571158  2.826200e-01  0.5294021
##   [9125,]  1.3471830653  1.0100814      0.7571158 -1.319128e-01  0.5294021
##   [9126,] -0.0877621834 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [9127,]  0.1069104229 -1.4897658      0.7571158  2.695151e-01  0.5294021
##   [9128,] -0.0106277545 -1.2120050     -1.3207918 -2.677840e-01  0.5294021
##   [9129,] -1.0133753302  1.0100814     -1.3207918 -6.046575e-01  0.5294021
##   [9130,] -0.5040432282  1.0100814      0.7571158  2.182824e+00  0.5294021
##   [9131,]  2.5348083991  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [9132,] -0.7905425356 -0.1009618      0.7571158 -5.298811e-01  0.5294021
##   [9133,] -0.4673125478  0.1767990      0.7571158 -2.874413e-01 -1.8889088
##   [9134,]  0.5978771846  0.4545598      0.7571158 -5.560909e-01  0.5294021
##   [9135,] -0.7844207555 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [9136,]  0.1938396999  1.0100814      0.7571158 -3.202034e-01  0.5294021
##   [9137,] -0.1012300996  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [9138,] -1.2557978210  1.0100814     -1.3207918  7.412900e-01 -1.8889088
##   [9139,] -1.3843552025  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [9140,] -0.1673453243  1.0100814      0.7571158 -6.465871e-02  0.5294021
##   [9141,] -0.0081790425 -1.2120050      0.7571158  2.052286e-02  0.5294021
##   [9142,] -1.2766118732 -0.6564834      0.7571158  5.840317e-01  0.5294021
##   [9143,]  0.7313319901 -0.6564834     -1.3207918 -1.498403e-01  0.5294021
##   [9144,] -0.5824020132 -1.4897658     -1.3207918 -5.429860e-01  0.5294021
##   [9145,] -1.6684057978 -1.2120050     -1.3207918  1.515714e-01  0.5294021
##   [9146,] -1.6720788658 -0.1009618      0.7571158 -2.153646e-01 -1.8889088
##   [9147,] -1.4920985317  0.7323206      0.7571158  5.316123e-01 -1.8889088
##   [9148,]  1.0374209937  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [9149,]  0.5795118444 -0.3787226     -1.3207918 -3.333083e-01  0.5294021
##   [9150,] -2.0479561622 -1.4897658     -1.3207918  2.424570e+00  0.5294021
##   [9151,]  1.4108495780 -1.4897658      0.7571158 -2.808889e-01 -1.8889088
##   [9152,] -0.8884910167 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [9153,] -0.0730699112 -1.2120050      0.7571158 -3.070986e-01  0.5294021
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##   [9155,] -0.8346193521  1.0100814      0.7571158  1.055807e+00  0.5294021
##   [9156,] -1.0635739268 -0.1009618     -1.3207918 -2.415743e-01  0.5294021
##   [9157,] -1.6255533373 -0.3787226      0.7571158 -9.623414e-01  0.5294021
##   [9158,]  0.0750771665  1.0100814      0.7571158  3.350394e-01  0.5294021
##   [9159,] -0.3889537629  1.0100814     -1.3207918 -2.006504e-01 -1.8889088
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##   [9161,] -0.5113893643  1.0100814     -1.3207918 -4.372298e-01  0.5294021
##   [9162,] -0.7415682950 -0.9342442      0.7571158 -1.105257e-01 -1.8889088
##   [9163,]  1.8222331988 -1.2120050     -1.3207918 -5.036714e-01 -1.8889088
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##   [9165,] -0.9803177178 -1.4897658      0.7571158  2.117300e+00  0.5294021
##   [9166,] -0.2701912295  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [9167,]  0.8084664190  1.0100814     -1.3207918  7.418002e-03 -1.8889088
##   [9168,] -0.9313434772  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [9169,]  1.1145554226 -1.4897658      0.7571158  1.920727e+00  0.5294021
##   [9170,] -1.0084779061 -0.3787226      0.7571158  1.331009e+00  0.5294021
##   [9171,] -0.2885565697 -0.6564834      0.7571158 -3.595180e-01  0.5294021
##   [9172,] -0.5824020132 -0.3787226      0.7571158  2.302006e-01  0.5294021
##   [9173,]  0.2746471968 -0.9342442     -1.3207918  2.008719e-01 -1.8889088
##   [9174,]  0.5427811639  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [9175,] -0.1624479003 -0.9342442      0.7571158 -1.760500e-01  0.5294021
##   [9176,] -0.2040760048  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [9177,] -0.3730371347  1.0100814      0.7571158 -4.449119e-04 -1.8889088
##   [9178,] -0.5456713327 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
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##   [9181,] -0.8101322318 -0.1009618      0.7571158 -5.036714e-01 -1.8889088
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##   [9184,] -0.1391851360  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [9185,] -0.0559289270 -0.6564834      0.7571158  2.170957e-01 -1.8889088
##   [9186,] -0.0351148748 -1.4897658     -1.3207918  8.604715e-02  0.5294021
##   [9187,] -1.4957715998 -1.2120050     -1.3207918  4.005637e-01  0.5294021
##   [9188,] -0.1771401724  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [9189,]  0.8537675915 -1.4897658      0.7571158  3.481443e-01  0.5294021
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##   [9191,] -0.8064591638 -0.6564834      0.7571158  7.418002e-03  0.5294021
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##   [9193,] -0.3595692186  0.7323206      0.7571158  6.102414e-01  0.5294021
##   [9194,]  1.4181957141  0.4545598      0.7571158 -2.808889e-01  0.5294021
##   [9195,]  0.0126350098  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9196,]  0.8072420630  1.0100814      0.7571158  4.005637e-01  0.5294021
##   [9197,]  0.2636279927  0.4545598      0.7571158  2.564103e-01  0.5294021
##   [9198,]  0.6358322210  1.0100814      0.7571158 -4.119374e-01 -1.8889088
##   [9199,] -1.1468301357 -1.2120050      0.7571158  8.604715e-02  0.5294021
##   [9200,] -0.1624479003 -1.2120050      0.7571158  2.665928e-01 -1.8889088
##   [9201,] -1.0476572986 -0.6564834     -1.3207918 -4.643569e-01  0.5294021
##   [9202,]  0.2342434483 -0.9342442      0.7571158 -4.119374e-01  0.5294021
##   [9203,] -0.3975242550  1.0100814      0.7571158 -3.202034e-01  0.5294021
##   [9204,]  1.3912598818  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [9205,]  0.5464542320  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9206,] -0.1551017642  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [9207,] -0.4220113753 -0.6564834      0.7571158  6.364511e-01  0.5294021
##   [9208,] -0.4342549354 -1.4897658     -1.3207918  9.378629e-01 -1.8889088
##   [9209,] -0.5064919403  1.0100814      0.7571158  1.646763e-01 -1.8889088
##   [9210,] -0.0289930947 -0.1009618      0.7571158  3.244507e-01  0.5294021
##   [9211,]  1.5945029802  1.0100814      0.7571158  5.604430e-01  0.5294021
##   [9212,]  0.8060177070 -0.6564834      0.7571158 -4.500143e-02  0.5294021
##   [9213,]  1.7242847177  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [9214,] -0.0436853669 -0.9342442      0.7571158  2.170957e-01 -1.8889088
```

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##   [9215,] -0.7746259074 -1.2120050     -1.3207918  1.122569e-01  0.5294021
##   [9216,] -0.3607935746 -1.4897658      0.7571158  5.447171e-01  0.5294021
##   [9217,] -0.5921968613 -0.9342442      0.7571158 -7.002443e-01  0.5294021
##   [9218,] -0.4097678152 -1.2120050      0.7571158 -2.415743e-01  0.5294021
##   [9219,] -0.4305818674 -1.4897658     -1.3207918 -6.740346e-01  0.5294021
##   [9220,] -0.7587092792 -0.9342442     -1.3207918 -3.202034e-01  0.5294021
##   [9221,]  0.5464542320  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [9222,]  1.2786191285 -0.6564834      0.7571158  7.674997e-01 -1.8889088
##   [9223,] -0.5432226207 -1.4897658      0.7571158  7.412900e-01  0.5294021
##   [9224,]  0.1424167473 -0.9342442     -1.3207918  4.673257e-02 -1.8889088
##   [9225,] -1.3610924382  1.0100814      0.7571158  7.412900e-01  0.5294021
##   [9226,]  0.2599549246 -0.3787226     -1.3207918  5.447171e-01  0.5294021
##   [9227,] -0.7538118552  1.0100814      0.7571158 -3.988326e-01  0.5294021
##   [9228,] -1.3219130458  1.0100814      0.7571158  6.102414e-01 -1.8889088
##   [9229,]  0.2085319720 -0.6564834     -1.3207918 -7.133491e-01  0.5294021
##   [9230,]  0.4142237824  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [9231,] -1.2153940725 -1.2120050      0.7571158  8.604715e-02 -1.8889088
##   [9232,]  0.4142237824  0.7323206      0.7571158 -5.823006e-01  0.5294021
##   [9233,]  0.7092935819 -1.4897658      0.7571158 -1.498403e-01  0.5294021
##   [9234,] -0.7978886717  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9235,] -1.0452085865 -0.3787226      0.7571158 -5.691957e-01 -1.8889088
##   [9236,] -0.2554989574  1.0100814      0.7571158 -6.216151e-01  0.5294021
##   [9237,]  1.2039334116 -0.9342442      0.7571158 -3.333083e-01 -1.8889088
##   [9238,] -0.1636722563 -0.3787226      0.7571158 -5.176353e-02  0.5294021
##   [9239,] -0.7256516668 -0.9342442      0.7571158  8.723386e-01 -1.8889088
##   [9240,] -0.1648966123  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [9241,]  1.8308036909 -1.4897658     -1.3207918 -8.050831e-01  0.5294021
##   [9242,]  1.0215043655 -0.1009618     -1.3207918  4.136686e-01 -1.8889088
##   [9243,] -1.3010989935  1.0100814      0.7571158  4.922977e-01 -1.8889088
##   [9244,] -1.0868366910  1.0100814     -1.3207918  2.182824e+00 -1.8889088
##   [9245,] -1.1725416120  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [9246,] -1.1162212354 -0.6564834      0.7571158  1.515714e-01  0.5294021
##   [9247,] -0.4207870193 -0.3787226      0.7571158  2.052286e-02  0.5294021
##   [9248,]  0.5146209756  1.0100814      0.7571158  4.791929e-01 -1.8889088
##   [9249,] -1.2435542608 -1.4897658     -1.3207918 -3.065883e-03  0.5294021
##   [9250,] -1.1247917275 -0.6564834      0.7571158  1.068911e+00  0.5294021
##   [9251,] -0.4722099719  1.0100814      0.7571158 -2.853969e-01 -1.8889088
##   [9252,] -1.6916685621  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [9253,] -0.3852806949  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9254,] -0.9937856339 -0.6564834     -1.3207918  4.136686e-01  0.5294021
##   [9255,] -1.4994446678 -0.3787226      0.7571158 -5.980264e-01 -1.8889088
##   [9256,] -0.2016272927  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [9257,] -0.2028516487 -0.6564834     -1.3207918 -3.070986e-01  0.5294021
##   [9258,] -0.1453069161  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9259,]  0.3725956779  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [9260,] -0.0253200267 -1.4897658      0.7571158 -7.919783e-01  0.5294021
##   [9261,] -0.1061275236  1.0100814      0.7571158  3.383156e-01  0.5294021
##   [9262,] -0.1367364240 -0.6564834      0.7571158 -4.510626e-02 -1.8889088
##   [9263,] -0.0032816184 -0.1009618     -1.3207918 -4.858750e-01 -1.8889088
##   [9264,] -0.4758830399  0.7323206      0.7571158 -2.415743e-01  0.5294021
##   [9265,] -1.3500732341  1.0100814     -1.3207918 -1.692355e-01  0.5294021
##   [9266,] -0.3681397107 -1.4897658     -1.3207918 -7.788734e-01  0.5294021
##   [9267,]  1.3300420811 -1.4897658      0.7571158 -1.760500e-01  0.5294021
##   [9268,] -0.1367364240  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [9269,]  1.3275933690  1.0100814      0.7571158 -2.677840e-01 -1.8889088
##   [9270,]  1.2908626886  1.0100814     -1.3207918 -7.359419e-01  0.5294021
##   [9271,] -1.5716816727  0.7323206      0.7571158  2.170957e-01  0.5294021
##   [9272,]  0.1546603074  1.0100814      0.7571158 -1.498403e-01 -1.8889088
##   [9273,]  0.4472813948  1.0100814      0.7571158 -6.100000e-01  0.5294021
##   [9274,] -1.0390868065  1.0100814      0.7571158 -3.857277e-01  0.5294021
##   [9275,] -1.3917013386  0.4545598      0.7571158  8.723386e-01  0.5294021
##   [9276,]  0.9186584603 -0.6564834      0.7571158  7.412900e-01 -1.8889088
##   [9277,] -0.6044404214 -0.1009618     -1.3207918 -5.691957e-01  0.5294021
##   [9278,]  1.5014519231  1.0100814     -1.3207918 -3.070986e-01 -1.8889088
##   [9279,]  0.0738528105  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [9280,] -0.1171467278  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [9281,] -1.6745275779 -0.3787226      0.7571158  3.481443e-01  0.5294021
##   [9282,]  0.0383464861  1.0100814      0.7571158  1.429746e-01  0.5294021
##   [9283,] -0.0681724872  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [9284,]  0.4913582113  1.0100814      0.7571158 -1.891549e-01  0.5294021
##   [9285,] -1.5227074321  1.0100814      0.7571158  1.122569e-01 -1.8889088
##   [9286,] -0.5456713327  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [9287,] -0.8370680641 -1.4897658      0.7571158 -3.070986e-01 -1.8889088
##   [9288,] -1.8202259436  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [9289,]  1.0876195903  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [9290,] -1.3170156217  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [9291,] -1.4394512231  1.0100814      0.7571158 -2.284694e-01  0.5294021
##   [9292,] -1.0868366910 -1.2120050     -1.3207918  2.052286e-02 -1.8889088
##   [9293,] -0.5970942853  1.0100814      0.7571158  3.481443e-01 -1.8889088
##   [9294,] -0.8884910167  0.7323206     -1.3207918 -6.347200e-01 -1.8889088
##   [9295,] -0.6362736778 -0.1009618     -1.3207918 -1.498403e-01  0.5294021
##   [9296,] -0.3950755430  0.1767990      0.7571158  9.915200e-02 -1.8889088
##   [9297,] -0.7611579912  1.0100814     -1.3207918  1.253617e-01 -1.8889088
##   [9298,] -2.0442830942 -1.2120050      0.7571158  2.170957e-01  0.5294021
##   [9299,] -0.6068891334  1.0100814     -1.3207918 -3.070986e-01  0.5294021
##   [9300,] -0.1942811566 -1.2120050     -1.3207918 -1.891549e-01  0.5294021
##   [9301,] -0.3008001299 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##   [9302,]  0.0163080778  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [9303,] -1.3329322499  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [9304,]  0.4889094993 -0.1009618     -1.3207918 -2.546791e-01 -1.8889088
##   [9305,] -1.2729388052  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [9306,]  0.9064149002  1.0100814      0.7571158  7.418002e-03  0.5294021
##   [9307,] -1.4994446678  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9308,] -0.2199926329  1.0100814      0.7571158 -2.284694e-01 -1.8889088
##   [9309,] -0.1930568006 -1.4897658     -1.3207918  3.219346e-01  0.5294021
##   [9310,] -1.6169828452  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [9311,]  0.1240514071  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [9312,]  0.6358322210  0.4545598      0.7571158 -2.546791e-01 -1.8889088
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##   [9313,] -0.2114221408  0.4545598      0.7571158  3.481443e-01  0.5294021
##   [9314,] -0.6215814056  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9315,] -1.1725416120 -0.1009618      0.7571158  1.920727e+00 -1.8889088
##   [9316,] -1.1541762718 -0.6564834      0.7571158  2.838067e+00  0.5294021
##   [9317,] -1.3010989935 -1.4897658      0.7571158  6.376306e-01  0.5294021
##   [9318,] -0.0314418068  1.0100814      0.7571158 -7.405024e-01  0.5294021
##   [9319,] -0.3216141821 -0.9342442     -1.3207918 -5.429860e-01 -1.8889088
##   [9320,] -0.4379280035  0.1767990     -1.3207918 -2.022597e-01  0.5294021
##   [9321,]  0.1742500036  1.0100814     -1.3207918 -3.726229e-01 -1.8889088
##   [9322,] -0.7623823473 -0.9342442     -1.3207918  6.364511e-01  0.5294021
##   [9323,]  0.9431455806  0.7323206      0.7571158  7.412900e-01  0.5294021
##   [9324,] -0.9399139693 -0.6564834     -1.3207918  4.831243e-01  0.5294021
##   [9325,] -0.1391851360 -0.1009618      0.7571158  3.481443e-01 -1.8889088
##   [9326,] -0.5126137203  0.1767990      0.7571158  8.068143e-01 -1.8889088
##   [9327,] -0.6289275417  1.0100814      0.7571158 -3.857277e-01 -1.8889088
##   [9328,]  2.3915587454  1.0100814     -1.3207918 -6.121796e-01  0.5294021
##   [9329,] -0.7354465149  0.4545598      0.7571158 -1.105257e-01  0.5294021
##   [9330,]  0.4362621907  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [9331,] -1.9867383615  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [9332,]  0.5268645357  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9333,]  0.9223315283  0.1767990      0.7571158 -4.500143e-02  0.5294021
##   [9334,]  0.0811989466  1.0100814      0.7571158 -2.219170e-01 -1.8889088
##   [9335,] -0.3534474385 -0.3787226      0.7571158 -4.381471e-01  0.5294021
##   [9336,] -1.2055992244 -0.9342442      0.7571158 -3.857277e-01  0.5294021
##   [9337,]  0.5819605564 -1.2120050      0.7571158 -5.823006e-01 -1.8889088
##   [9338,] -1.1235673715 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [9339,]  0.0934425067 -0.9342442      0.7571158  5.447171e-01  0.5294021
##   [9340,]  1.2516832962  1.0100814     -1.3207918 -2.743364e-01  0.5294021
##   [9341,] -0.1746914604  1.0100814      0.7571158  3.362772e-02  0.5294021
##   [9342,] -1.0060291941  1.0100814      0.7571158  3.801857e-01  0.5294021
##   [9343,]  1.4169713581  1.0100814      0.7571158 -6.347200e-01 -1.8889088
##   [9344,] -0.6093378455  1.0100814      0.7571158  2.262691e-01 -1.8889088
##   [9345,]  1.8136627067  1.0100814     -1.3207918 -6.347200e-01 -1.8889088
##   [9346,]  0.9945685332 -1.2120050      0.7571158 -5.036714e-01  0.5294021
##   [9347,] -2.0565266543 -1.4897658     -1.3207918 -5.823006e-01  0.5294021
##   [9348,] -1.5165856520 -1.2120050     -1.3207918 -4.381471e-01  0.5294021
##   [9349,]  1.1378181868  1.0100814      0.7571158 -5.036714e-01 -1.8889088
##   [9350,] -0.7709528394  1.0100814      0.7571158  2.838067e+00  0.5294021
##   [9351,] -0.3681397107  1.0100814      0.7571158 -6.200426e-01  0.5294021
##   [9352,] -1.1162212354  1.0100814      0.7571158 -3.189657e-02  0.5294021
##   [9353,] -0.1599991882 -0.6564834      0.7571158  1.253617e-01  0.5294021
##   [9354,]  1.5075737031  1.0100814     -1.3207918 -7.121114e-02 -1.8889088
##   [9355,] -0.5909725053 -0.6564834      0.7571158 -2.153646e-01  0.5294021
##   [9356,] -1.6855467820 -0.6564834      0.7571158  3.481443e-01  0.5294021
##   [9357,]  1.5369582475 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [9358,]  1.8467203191 -0.9342442      0.7571158  1.384666e-01  0.5294021
##   [9359,] -0.7317734469 -0.9342442     -1.3207918 -1.760500e-01  0.5294021
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##   [9361,] -0.4060947471  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9362,] -2.1287636591  1.0100814      0.7571158  1.777811e-01  0.5294021
##   [9363,] -0.6791261383 -1.4897658     -1.3207918 -6.347200e-01  0.5294021
##   [9364,] -0.2004029367 -0.9342442     -1.3207918 -5.691957e-01 -1.8889088
##   [9365,]  0.2721984848 -1.4897658     -1.3207918 -4.586562e-01  0.5294021
##   [9366,] -1.3537463021  0.1767990     -1.3207918 -1.367354e-01  0.5294021
##   [9367,] -2.0699945705  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [9368,] -1.4296563750  0.1767990      0.7571158 -4.394576e-01 -1.8889088
##   [9369,]  0.0285516379  1.0100814      0.7571158 -2.043586e-01 -1.8889088
##   [9370,] -0.6228057616 -1.2120050     -1.3207918 -1.760500e-01 -1.8889088
##   [9371,]  0.3603521178  1.0100814      0.7571158  7.150803e-01  0.5294021
##   [9372,]  0.0554874703  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9373,]  0.4007558663 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [9374,] -0.4207870193  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9375,] -0.9509331734  1.0100814      0.7571158  8.985483e-01 -1.8889088
##   [9376,]  1.2675999244  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [9377,] -0.0106277545  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [9378,] -0.7599336352 -1.4897658      0.7571158  1.253617e-01  0.5294021
##   [9379,]  1.1512861030  1.0100814     -1.3207918 -1.613070e-01 -1.8889088
##   [9380,] -1.2349837687 -0.1009618      0.7571158  7.412900e-01  0.5294021
##   [9381,]  0.4007558663 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [9382,]  2.0695531137  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9383,] -0.2444797532  1.0100814      0.7571158  2.564103e-01  0.5294021
##   [9384,]  1.1084336425  1.0100814     -1.3207918 -5.954054e-01  0.5294021
##   [9385,] -0.7966643157  0.4545598      0.7571158  1.475162e+00  0.5294021
##   [9386,]  0.6615436973 -1.4897658     -1.3207918  5.447171e-01  0.5294021
##   [9387,] -0.7550362112  1.0100814      0.7571158 -1.393564e-01  0.5294021
##   [9388,]  0.9639596328  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9389,] -0.7819720435  1.0100814      0.7571158  1.331009e+00  0.5294021
##   [9390,]  0.1228270510 -0.1009618     -1.3207918  1.646763e-01  0.5294021
##   [9391,] -1.3108938416 -0.6564834      0.7571158 -5.823006e-01  0.5294021
##   [9392,] -1.7259505305  1.0100814      0.7571158  8.473666e-02 -1.8889088
##   [9393,]  0.4081020024 -0.3787226      0.7571158  8.854434e-01  0.5294021
##   [9394,] -0.7085106826 -0.6564834      0.7571158  1.515714e-01  0.5294021
##   [9395,] -0.8003373837  0.7323206      0.7571158 -1.760500e-01  0.5294021
##   [9396,]  0.0775258785 -1.2120050     -1.3207918 -2.756469e-01  0.5294021
##   [9397,]  0.6468514251  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9398,] -0.5248572805  1.0100814      0.7571158  1.908860e-01 -1.8889088
##   [9399,]  0.7962228589  1.0100814      0.7571158  5.983743e-02  0.5294021
##   [9400,] -0.6595364421 -0.6564834      0.7571158 -7.121114e-02  0.5294021
##   [9401,] -2.1006034708  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [9402,] -1.3255861138  1.0100814      0.7571158  3.981262e-01 -1.8889088
##   [9403,]  0.7447999063  1.0100814     -1.3207918 -2.153646e-01 -1.8889088
##   [9404,]  0.8084664190  1.0100814      0.7571158 -5.036714e-01  0.5294021
##   [9405,] -0.4452741396  1.0100814     -1.3207918 -1.760500e-01  0.5294021
##   [9406,] -1.6010662170  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [9407,]  2.2311681076 -0.6564834      0.7571158 -1.367354e-01  0.5294021
##   [9408,] -0.8480872683  1.0100814      0.7571158 -4.643569e-01 -1.8889088
##   [9409,]  0.5893066925 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [9410,]  0.7729600946 -0.1009618      0.7571158  2.170957e-01 -1.8889088
```

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##   [9411,] -0.4917996681 -0.9342442     -1.3207918 -4.381471e-01  0.5294021
##   [9412,] -0.8676769645 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [9413,] -1.5006690238  1.0100814      0.7571158  1.331009e+00  0.5294021
##   [9414,] -0.6681069342  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [9415,] -1.5729060287 -0.9342442      0.7571158 -4.774617e-01  0.5294021
##   [9416,] -0.4440497836  1.0100814      0.7571158 -6.347200e-01 -1.8889088
##   [9417,] -0.2457041092 -0.3787226     -1.3207918 -6.622402e-01 -1.8889088
##   [9418,]  0.8684598637  1.0100814      0.7571158  1.331009e+00 -1.8889088
##   [9419,] -0.7734015514 -1.4897658      0.7571158  2.170957e-01 -1.8889088
##   [9420,] -0.4403767155  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [9421,] -1.3868039145 -0.1009618     -1.3207918  4.791929e-01  0.5294021
##   [9422,]  1.5002275671  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9423,] -0.5493444008 -0.3787226      0.7571158  2.957249e-01  0.5294021
##   [9424,]  0.2893394690  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [9425,]  0.0701797424 -0.1009618      0.7571158 -1.879171e-02  0.5294021
##   [9426,]  0.1240514071  1.0100814     -1.3207918 -4.446996e-01  0.5294021
##   [9427,] -1.6684057978  1.0100814      0.7571158  1.384666e-01 -1.8889088
##   [9428,] -0.1685696803  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [9429,]  0.3077048092 -0.1009618      0.7571158  3.481443e-01  0.5294021
##   [9430,]  0.1754743597 -1.2120050     -1.3207918 -6.609297e-01  0.5294021
##   [9431,] -0.0326661628  1.0100814     -1.3207918  1.384666e-01  0.5294021
##   [9432,]  1.0472158418 -1.2120050      0.7571158 -5.036714e-01  0.5294021
##   [9433,]  1.8834509995 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [9434,]  0.3187240133  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [9435,] -1.2790605853  1.0100814      0.7571158  1.068911e+00  0.5294021
##   [9436,] -0.8762474566 -1.2120050      0.7571158  8.723386e-01  0.5294021
##   [9437,]  0.2954612490 -0.3787226      0.7571158 -5.691957e-01 -1.8889088
##   [9438,]  2.4993020747  1.0100814     -1.3207918 -8.431600e-02  0.5294021
##   [9439,] -0.9533818855  1.0100814     -1.3207918  1.855203e+00  0.5294021
##   [9440,] -0.2848835017  1.0100814     -1.3207918 -5.364336e-01 -1.8889088
##   [9441,]  0.6958256657 -1.2120050     -1.3207918  8.604715e-02  0.5294021
##   [9442,] -0.5701584530 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [9443,] -0.2873322137 -1.2120050      0.7571158  1.384666e-01  0.5294021
##   [9444,] -1.0586765027  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [9445,] -0.1648966123 -1.4897658      0.7571158  1.515714e-01  0.5294021
##   [9446,] -0.2346849051  1.0100814      0.7571158  6.757657e-01 -1.8889088
##   [9447,]  0.5366593839  0.1767990     -1.3207918 -1.760500e-01  0.5294021
##   [9448,]  0.6456270691 -0.1009618      0.7571158  4.529831e-01 -1.8889088
##   [9449,] -1.3219130458 -0.9342442     -1.3207918  8.723386e-01  0.5294021
##   [9450,]  0.4962556354 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
##   [9451,] -1.9377641209  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [9452,]  0.8672355077  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [9453,] -1.0635739268  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [9454,] -0.8015617397  0.7323206     -1.3207918 -4.512520e-01  0.5294021
##   [9455,]  1.5516505197 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [9456,] -1.5778034527 -0.9342442      0.7571158 -3.857277e-01  0.5294021
##   [9457,] -0.4709856159  1.0100814      0.7571158 -6.609297e-01  0.5294021
##   [9458,]  1.3533048453  1.0100814      0.7571158 -3.333083e-01  0.5294021
##   [9459,]  1.1084336425  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9460,] -0.1379607800 -1.4897658      0.7571158 -1.105257e-01 -1.8889088
##   [9461,]  0.7888767228  1.0100814      0.7571158 -7.788734e-01  0.5294021
##   [9462,]  1.2406640920 -0.9342442      0.7571158 -4.119374e-01  0.5294021
##   [9463,]  0.3921853742  1.0100814      0.7571158  3.612491e-01  0.5294021
##   [9464,] -0.7574849232 -0.3787226      0.7571158 -8.562648e-02 -1.8889088
##   [9465,]  0.4227942745 -1.2120050      0.7571158  1.908860e-01  0.5294021
##   [9466,] -2.0516292302  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [9467,] -1.2974259255  1.0100814     -1.3207918 -5.589477e-01  0.5294021
##   [9468,]  0.0003914496  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9469,] -0.1098005917  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [9470,] -0.0938839635  1.0100814      0.7571158  1.384666e-01 -1.8889088
##   [9471,] -0.0828647594  1.0100814     -1.3207918  3.509546e-02  0.5294021
##   [9472,] -0.2322361931 -0.1009618     -1.3207918 -7.264540e-01  0.5294021
##   [9473,]  0.3285188614  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [9474,] -1.2264132766 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [9475,]  0.7264345661  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [9476,]  2.2605526519  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [9477,]  0.5844092684  1.0100814     -1.3207918 -1.760500e-01 -1.8889088
##   [9478,] -0.3889537629  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9479,]  1.2565807202  1.0100814      0.7571158 -5.810628e-02 -1.8889088
##   [9480,]  0.3652495419  0.1767990      0.7571158  6.757657e-01 -1.8889088
##   [9481,] -0.4085434591 -1.4897658      0.7571158  2.170957e-01 -1.8889088
##   [9482,] -0.8223757920 -0.1009618     -1.3207918 -3.726229e-01  0.5294021
##   [9483,] -0.5309790606  0.1767990      0.7571158 -7.121114e-02  0.5294021
##   [9484,] -0.8848179487  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [9485,] -0.8786961686  1.0100814      0.7571158  3.612491e-01 -1.8889088
##   [9486,] -0.9019589329 -0.1009618     -1.3207918  6.036890e-01  0.5294021
##   [9487,]  0.5525760120 -1.4897658      0.7571158 -5.691957e-01  0.5294021
##   [9488,] -0.6142352695  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9489,] -0.5162867884  1.0100814      0.7571158  5.971366e-01  0.5294021
##   [9490,]  0.6162425248 -0.9342442     -1.3207918 -5.233287e-01  0.5294021
##   [9491,] -0.2261144130  0.7323206     -1.3207918 -1.498403e-01  0.5294021
##   [9492,]  0.2746471968 -0.6564834      0.7571158  3.507128e-01  0.5294021
##   [9493,] -0.6019917094 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [9494,] -1.7724760590 -0.6564834     -1.3207918  8.723386e-01  0.5294021
##   [9495,] -0.1306146439 -1.4897658     -1.3207918 -5.298811e-01  0.5294021
##   [9496,]  1.8454959631  0.4545598      0.7571158  4.398783e-01  0.5294021
##   [9497,] -0.0008329064 -0.6564834     -1.3207918 -3.791753e-01  0.5294021
##   [9498,]  0.6444027131  0.4545598      0.7571158 -3.726229e-01  0.5294021
##   [9499,] -1.2557978210  1.0100814     -1.3207918  3.940113e-01 -1.8889088
##   [9500,] -0.8236001480  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [9501,]  2.3315653007 -1.4897658     -1.3207918 -7.002443e-01 -1.8889088
##   [9502,]  0.6186912368  1.0100814      0.7571158 -6.347200e-01 -1.8889088
##   [9503,] -0.7880938236  1.0100814      0.7571158  1.253617e-01  0.5294021
##   [9504,]  0.2452626525 -0.9342442      0.7571158  2.052286e-02  0.5294021
##   [9505,]  1.0447671298 -1.2120050      0.7571158 -1.760500e-01  0.5294021
##   [9506,]  1.1953629195  1.0100814     -1.3207918 -1.432879e-01  0.5294021
##   [9507,] -1.1162212354  0.1767990     -1.3207918 -1.879171e-02  0.5294021
##   [9508,]  1.3324907931 -1.4897658      0.7571158 -6.216151e-01  0.5294021
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##   [9509,] -0.8848179487  1.0100814      0.7571158  8.604715e-02 -1.8889088
##   [9510,] -1.5398484163  1.0100814     -1.3207918 -2.546791e-01 -1.8889088
##   [9511,] -0.5652610290 -1.4897658      0.7571158 -3.070986e-01 -1.8889088
##   [9512,]  2.2899371962  1.0100814      0.7571158  5.558563e-01  0.5294021
##   [9513,] -0.4305818674 -1.4897658      0.7571158 -3.070986e-01 -1.8889088
##   [9514,]  1.2688242804  1.0100814      0.7571158 -4.381471e-01 -1.8889088
##   [9515,] -1.4370025111 -1.2120050     -1.3207918 -4.381471e-01 -1.8889088
##   [9516,] -0.6558633740  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [9517,]  0.6994987337 -0.3787226      0.7571158  3.362772e-02  0.5294021
##   [9518,]  0.8721329318  1.0100814      0.7571158 -8.431600e-02  0.5294021
##   [9519,]  0.5342106718  1.0100814     -1.3207918 -2.850431e-01  0.5294021
##   [9520,] -0.6717800022  0.1767990      0.7571158  1.658630e+00 -1.8889088
##   [9521,]  0.4056532903 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
##   [9522,]  2.2201489034  0.7323206      0.7571158  4.791929e-01  0.5294021
##   [9523,]  0.1338462552  0.4545598     -1.3207918 -7.133491e-01  0.5294021
##   [9524,]  0.5586977921  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [9525,]  0.7411268382 -1.2120050      0.7571158  1.515714e-01  0.5294021
##   [9526,]  0.7643896025 -0.3787226     -1.3207918 -6.268571e-01  0.5294021
##   [9527,]  0.2905638250 -1.2120050     -1.3207918 -4.643569e-01  0.5294021
##   [9528,] -0.7342221589  0.4545598      0.7571158  1.003387e+00  0.5294021
##   [9529,] -0.3730371347 -1.4897658     -1.3207918 -3.464131e-01 -1.8889088
##   [9530,]  0.5342106718 -1.4897658      0.7571158 -7.657686e-01  0.5294021
##   [9531,] -0.8921640848  1.0100814     -1.3207918 -6.085103e-01  0.5294021
##   [9532,] -0.2983514179  1.0100814      0.7571158 -2.939937e-01  0.5294021
##   [9533,] -0.0938839635 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [9534,] -1.2986502815  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [9535,] -0.2408066852 -0.9342442     -1.3207918 -4.119374e-01  0.5294021
##   [9536,] -0.7403439390  1.0100814      0.7571158 -2.546791e-01  0.5294021
##   [9537,] -0.5309790606  1.0100814     -1.3207918 -4.449224e-01  0.5294021
##   [9538,] -2.1961032399 -1.2120050     -1.3207918  8.723386e-01  0.5294021
##   [9539,]  0.2244486002 -0.3787226     -1.3207918 -5.403650e-01  0.5294021
##   [9540,]  1.3165741649 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [9541,] -1.7112582583 -1.4897658     -1.3207918  9.915200e-02 -1.8889088
##   [9542,] -0.0840891154 -0.3787226     -1.3207918 -1.236306e-01  0.5294021
##   [9543,]  1.5443043836  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [9544,]  1.6704130530  1.0100814      0.7571158  2.660351e-02  0.5294021
##   [9545,] -0.4232357313 -1.4897658      0.7571158 -6.085103e-01  0.5294021
##   [9546,]  0.5182940436  1.0100814     -1.3207918  1.527581e+00  0.5294021
##   [9547,]  0.6909282416 -0.9342442      0.7571158  3.149235e-01 -1.8889088
##   [9548,] -0.1955055127  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [9549,]  0.2183268202 -0.3787226      0.7571158 -1.236306e-01  0.5294021
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##   [9551,] -0.8358437081  1.0100814      0.7571158 -2.848203e-01  0.5294021
##   [9552,] -0.2910052818 -1.2120050     -1.3207918 -3.070986e-01  0.5294021
##   [9553,]  0.0738528105  1.0100814      0.7571158 -3.070986e-01  0.5294021
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##   [9555,]  2.2740205681  1.0100814     -1.3207918 -7.395589e-01  0.5294021
##   [9556,]  0.1546603074 -0.9342442      0.7571158 -5.686855e-03  0.5294021
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##   [9560,]  0.2905638250  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [9561,] -0.8652282524  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [9562,] -0.6570877300 -0.6564834      0.7571158  2.052286e-02 -1.8889088
##   [9563,] -0.0767429793 -0.9342442      0.7571158 -4.119374e-01 -1.8889088
##   [9564,] -1.5496432644 -0.6564834     -1.3207918 -1.760500e-01  0.5294021
##   [9565,] -0.1832619525  1.0100814      0.7571158  2.826200e-01 -1.8889088
##   [9566,] -0.3754858468 -0.1009618     -1.3207918  4.136686e-01  0.5294021
##   [9567,] -1.1345865756 -0.3787226      0.7571158  3.362772e-02 -1.8889088
##   [9568,] -1.1713172560  0.1767990      0.7571158  5.983743e-02  0.5294021
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##   [9571,] -0.6068891334 -0.1009618      0.7571158  1.068911e+00  0.5294021
##   [9572,]  1.0533376219 -1.4897658      0.7571158 -5.036714e-01  0.5294021
##   [9573,] -0.6913696984  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [9574,] -0.1428582040  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9575,]  0.6872551736 -0.9342442     -1.3207918 -6.478249e-01  0.5294021
##   [9576,]  0.5195183997 -0.3787226      0.7571158 -3.070986e-01  0.5294021
##   [9577,] -0.0791916913 -1.4897658     -1.3207918 -4.250423e-01  0.5294021
##   [9578,]  0.6174668808  1.0100814     -1.3207918 -7.002443e-01 -1.8889088
##   [9579,] -1.0194971102  1.0100814      0.7571158  1.331009e+00  0.5294021
##   [9580,] -0.4269087994  1.0100814      0.7571158  2.564103e-01 -1.8889088
##   [9581,] -0.4856778880 -0.9342442      0.7571158  4.791929e-01 -1.8889088
##   [9582,]  0.4583005989  1.0100814      0.7571158 -3.696802e-01  0.5294021
##   [9583,] -1.3464001660  1.0100814     -1.3207918  7.418002e-03 -1.8889088
##   [9584,]  0.0909937947  1.0100814      0.7571158  5.447171e-01 -1.8889088
##   [9585,] -0.6974914785 -0.9342442      0.7571158 -2.555703e-01  0.5294021
##   [9586,]  0.5256401797  0.7323206      0.7571158  3.481443e-01  0.5294021
##   [9587,]  1.8663100153 -1.4897658      0.7571158 -2.992357e-01  0.5294021
##   [9588,] -0.8799205246  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9589,] -0.1857106645 -0.6564834      0.7571158 -6.347200e-01  0.5294021
##   [9590,] -0.5995429974  1.0100814      0.7571158  7.412900e-01 -1.8889088
##   [9591,]  0.9113123242  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [9592,] -1.4394512231  1.0100814      0.7571158  9.303203e-02 -1.8889088
##   [9593,] -0.8542090483 -0.6564834      0.7571158  1.515714e-01  0.5294021
##   [9594,]  0.2844420449  1.0100814     -1.3207918  1.908860e-01  0.5294021
##   [9595,]  0.5305376038  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [9596,]  1.1047605745  1.0100814      0.7571158  1.265484e+00 -1.8889088
##   [9597,] -0.1526530522  1.0100814      0.7571158 -6.569983e-01  0.5294021
##   [9598,]  1.4745160908  1.0100814      0.7571158 -4.381471e-01  0.5294021
##   [9599,]  0.9211071723  1.0100814     -1.3207918 -3.595180e-01  0.5294021
##   [9600,]  1.1708757992  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [9601,] -0.9093050690 -0.9342442      0.7571158  1.396533e+00 -1.8889088
##   [9602,] -1.7149313263 -1.2120050      0.7571158  4.791929e-01  0.5294021
##   [9603,] -1.3745603544 -1.4897658     -1.3207918 -7.977444e-01  0.5294021
##   [9604,] -1.3096694856  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [9605,] -0.0718455552 -0.9342442      0.7571158 -6.216151e-01  0.5294021
##   [9606,]  0.4938069234  1.0100814      0.7571158 -4.381471e-01  0.5294021
```

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##   [9607,] -0.3705884227 -1.4897658      0.7571158 -4.381471e-01 -1.8889088
##   [9608,] -0.4293575114 -1.2120050      0.7571158 -1.760500e-01  0.5294021
##   [9609,]  1.5663427918 -0.9342442     -1.3207918  2.170957e-01 -1.8889088
##   [9610,]  1.0166069414  1.0100814      0.7571158  9.915200e-02 -1.8889088
##   [9611,]  0.0811989466  1.0100814     -1.3207918 -6.609297e-01  0.5294021
##   [9612,] -1.7357453786 -1.4897658      0.7571158  8.723386e-01  0.5294021
##   [9613,] -1.7320723105  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [9614,]  0.5280888918  1.0100814     -1.3207918 -7.121114e-02  0.5294021
##   [9615,] -0.9766446497 -1.2120050      0.7571158 -4.500143e-02 -1.8889088
##   [9616,] -1.2337594127 -1.4897658     -1.3207918 -6.740346e-01  0.5294021
##   [9617,] -0.6338249658  1.0100814      0.7571158  3.368014e-02  0.5294021
##   [9618,]  0.4166724945  1.0100814     -1.3207918  1.384666e-01 -1.8889088
##   [9619,] -1.4725088355  1.0100814     -1.3207918  1.003387e+00  0.5294021
##   [9620,] -1.9365397649 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [9621,]  1.2296448879  1.0100814     -1.3207918 -6.216151e-01  0.5294021
##   [9622,] -0.2824347897 -1.4897658      0.7571158  8.604715e-02 -1.8889088
##   [9623,] -0.6326006097 -1.4897658      0.7571158  2.052286e-02  0.5294021
##   [9624,] -0.1293902879 -1.2120050     -1.3207918  2.575766e-01  0.5294021
##   [9625,]  0.2183268202  1.0100814      0.7571158 -2.756469e-01  0.5294021
##   [9626,] -0.8982858648 -1.4897658      0.7571158 -3.070986e-01  0.5294021
##   [9627,]  0.5060504835 -1.2120050     -1.3207918 -8.312929e-01  0.5294021
##   [9628,]  0.4766659392  1.0100814     -1.3207918  1.122569e-01  0.5294021
##   [9629,]  0.2575062126  1.0100814      0.7571158 -1.367354e-01 -1.8889088
##   [9630,]  1.1463886789 -0.9342442     -1.3207918 -5.298811e-01  0.5294021
##   [9631,] -1.2141697165  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9632,]  0.4313647666  1.0100814     -1.3207918  8.604715e-02  0.5294021
##   [9633,]  0.1362949672 -1.2120050     -1.3207918 -5.122420e-01  0.5294021
##   [9634,] -1.2251889206  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9635,] -1.5851495888 -0.6564834      0.7571158 -1.493685e-01  0.5294021
##   [9636,]  0.3383137095  1.0100814      0.7571158 -1.427506e-01 -1.8889088
##   [9637,] -1.0464329426  1.0100814      0.7571158  1.908860e-01 -1.8889088
##   [9638,] -0.5664853850  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9639,] -0.5456713327 -0.9342442      0.7571158 -1.125308e-01  0.5294021
##   [9640,]  1.0814978102 -0.9342442     -1.3207918  5.328500e-02  0.5294021
##   [9641,]  1.2859652646  1.0100814      0.7571158 -2.808889e-01  0.5294021
##   [9642,] -0.9852151418 -1.4897658     -1.3207918 -4.381471e-01  0.5294021
##   [9643,] -0.0779673353  1.0100814      0.7571158  4.136686e-01  0.5294021
##   [9644,] -0.3546717945 -1.2120050     -1.3207918  2.170957e-01  0.5294021
##   [9645,] -1.0721444189  1.0100814     -1.3207918 -4.564939e-01  0.5294021
##   [9646,] -0.6191326936 -1.2120050      0.7571158  1.566896e+00  0.5294021
##   [9647,] -0.8370680641  0.1767990     -1.3207918 -2.415743e-01  0.5294021
##   [9648,] -0.3314090302  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [9649,] -1.2313107007  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [9650,] -0.9276704092 -0.6564834      0.7571158  8.854434e-01  0.5294021
##   [9651,] -0.2322361931 -1.4897658      0.7571158 -3.726229e-01  0.5294021
##   [9652,]  0.3309675735  1.0100814      0.7571158  7.543949e-01  0.5294021
##   [9653,]  0.5133966196  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [9654,] -0.1024544556  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9655,]  0.6162425248  1.0100814     -1.3207918 -2.415743e-01  0.5294021
##   [9656,] -0.1734671044 -0.1009618      0.7571158  1.694523e-02  0.5294021
##   [9657,] -1.9426615450 -0.9342442      0.7571158  1.986251e+00  0.5294021
##   [9658,] -1.3672142183  1.0100814      0.7571158  1.527581e+00  0.5294021
##   [9659,]  0.7007230898  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [9660,]  1.0251774335  1.0100814      0.7571158 -3.726229e-01  0.5294021
##   [9661,]  1.0802734542 -1.2120050     -1.3207918 -2.939937e-01  0.5294021
##   [9662,] -1.4296563750 -1.4897658     -1.3207918  8.723386e-01 -1.8889088
##   [9663,] -0.0522558590  1.0100814     -1.3207918 -7.886234e-01  0.5294021
##   [9664,] -0.9105294250 -1.4897658      0.7571158  2.433054e-01  0.5294021
##   [9665,] -1.4308807310  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [9666,] -0.7746259074  1.0100814      0.7571158  1.333892e+00  0.5294021
##   [9667,]  0.8819277799  1.0100814      0.7571158  1.920727e+00  0.5294021
##   [9668,] -0.0473584349 -0.3787226      0.7571158 -6.465871e-02 -1.8889088
##   [9669,]  0.6309347969  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [9670,]  0.8023446389 -1.4897658      0.7571158 -1.367354e-01  0.5294021
##   [9671,] -1.1027533192 -1.4897658     -1.3207918  2.170957e-01  0.5294021
##   [9672,]  0.9786519050  1.0100814     -1.3207918  1.646763e-01  0.5294021
##   [9673,]  1.3912598818 -1.4897658     -1.3207918 -7.002443e-01 -1.8889088
##   [9674,] -1.5790278088  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [9675,] -0.9301191212 -1.2120050     -1.3207918  1.974384e-01  0.5294021
##   [9676,]  1.3312664371  0.4545598      0.7571158 -4.381471e-01  0.5294021
##   [9677,] -1.1909069522 -0.6564834     -1.3207918 -3.726229e-01 -1.8889088
##   [9678,]  0.2403652284 -1.2120050     -1.3207918 -2.743364e-01 -1.8889088
##   [9679,] -0.6215814056 -0.3787226     -1.3207918 -2.088121e-01  0.5294021
##   [9680,] -1.2900797894 -0.3787226      0.7571158 -1.760500e-01 -1.8889088
##   [9681,]  1.3006575367  1.0100814      0.7571158 -6.609297e-01  0.5294021
##   [9682,]  1.0863952342 -0.1009618     -1.3207918 -1.105257e-01  0.5294021
##   [9683,] -0.1893837326  1.0100814      0.7571158 -1.879171e-02  0.5294021
##   [9684,]  1.2271961759  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [9685,] -1.0599008587 -1.4897658     -1.3207918 -6.708894e-01  0.5294021
##   [9686,]  0.9370238005  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9687,]  0.2024101920  1.0100814      0.7571158  5.054026e-01  0.5294021
##   [9688,] -1.2937528574  1.0100814      0.7571158  2.826200e-01  0.5294021
##   [9689,] -1.0415355185  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [9690,] -0.9950099900  1.0100814      0.7571158  1.855203e+00  0.5294021
##   [9691,] -0.0057303305  1.0100814      0.7571158  9.915200e-02  0.5294021
##   [9692,] -0.4734343279  1.0100814      0.7571158  1.646763e-01  0.5294021
##   [9693,]  0.3236214374  1.0100814      0.7571158  1.265484e+00 -1.8889088
##   [9694,]  0.3285188614  0.4545598     -1.3207918 -3.070986e-01  0.5294021
##   [9695,] -0.5468956887 -1.2120050      0.7571158  5.709269e-01  0.5294021
##   [9696,] -0.6656582221 -0.6564834      0.7571158  3.362772e-02  0.5294021
##   [9697,] -0.6938184105 -0.6564834      0.7571158 -4.512520e-01 -1.8889088
##   [9698,] -0.0828647594 -0.6564834      0.7571158  4.673257e-02  0.5294021
##   [9699,] -0.0791916913  1.0100814      0.7571158 -7.121114e-02  0.5294021
##   [9700,]  1.3202472330  1.0100814      0.7571158 -5.691957e-01  0.5294021
##   [9701,]  0.3187240133  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [9702,]  2.4674688183  0.7323206      0.7571158 -4.800827e-01  0.5294021
##   [9703,]  0.8182612671  1.0100814      0.7571158  5.447171e-01  0.5294021
##   [9704,] -0.8346193521  1.0100814     -1.3207918 -1.629451e-01  0.5294021
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##   [9705,] -1.4161884589 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [9706,] -1.0035804821  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [9707,] -0.4195626633  1.0100814      0.7571158  6.102414e-01  0.5294021
##   [9708,] -0.4758830399 -1.4897658     -1.3207918 -3.333083e-01  0.5294021
##   [9709,] -0.4930240241  1.0100814      0.7571158 -4.678165e-01  0.5294021
##   [9710,]  0.1681282236 -1.4897658     -1.3207918 -1.105257e-01 -1.8889088
##   [9711,] -0.9937856339  1.0100814      0.7571158  1.199960e+00  0.5294021
##   [9712,] -1.5227074321 -1.4897658     -1.3207918  2.564103e-01  0.5294021
##   [9713,] -1.0329650264  0.4545598     -1.3207918 -4.500143e-02 -1.8889088
##   [9714,]  0.0505900462 -1.2120050      0.7571158  3.481443e-01 -1.8889088
##   [9715,] -0.0449097229  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [9716,]  0.8941713400  1.0100814      0.7571158 -8.590751e-01  0.5294021
##   [9717,] -0.8603308284  0.7323206      0.7571158 -3.857277e-01  0.5294021
##   [9718,] -0.7672797713 -1.4897658      0.7571158  8.068143e-01 -1.8889088
##   [9719,] -1.4235345949 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [9720,] -0.3962998990 -0.1009618      0.7571158  2.826200e-01 -1.8889088
##   [9721,]  0.0297759940 -1.2120050      0.7571158 -3.726229e-01  0.5294021
##   [9722,] -0.9509331734  0.1767990      0.7571158  3.362772e-02  0.5294021
##   [9723,]  0.2060832600  0.4545598      0.7571158 -1.367354e-01 -1.8889088
##   [9724,]  1.3496317773  1.0100814      0.7571158 -7.395589e-01  0.5294021
##   [9725,]  0.2207755322 -0.1009618     -1.3207918 -5.036714e-01  0.5294021
##   [9726,] -0.6668825781  1.0100814     -1.3207918 -4.381471e-01  0.5294021
##   [9727,] -0.6999401905 -1.4897658      0.7571158 -4.250423e-01  0.5294021
##   [9728,]  0.1962884119 -0.9342442     -1.3207918 -7.002443e-01  0.5294021
##   [9729,]  1.2308692439  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [9730,]  0.4595249550 -0.1009618      0.7571158 -5.429860e-01  0.5294021
##   [9731,] -0.7391195830 -0.1009618     -1.3207918 -3.333083e-01  0.5294021
##   [9732,]  1.0937413703 -1.2120050      0.7571158 -3.700019e-01  0.5294021
##   [9733,]  0.5917554045  0.1767990      0.7571158  7.412900e-01  0.5294021
##   [9734,] -0.9239973411  1.0100814      0.7571158 -6.085103e-01  0.5294021
##   [9735,]  0.0542631142  1.0100814      0.7571158  2.433054e-01  0.5294021
##   [9736,] -0.7293247349 -0.3787226     -1.3207918  1.566896e+00 -1.8889088
##   [9737,] -1.3806821344  1.0100814      0.7571158 -3.209897e-01  0.5294021
##   [9738,] -0.7587092792 -0.3787226      0.7571158  6.102414e-01  0.5294021
##   [9739,]  0.8268317592 -1.4897658     -1.3207918  2.826200e-01  0.5294021
##   [9740,] -1.7798221951 -1.4897658      0.7571158 -1.105257e-01  0.5294021
##   [9741,]  0.0334490620  1.0100814      0.7571158  5.852184e+00  0.5294021
##   [9742,] -1.6071879971  0.1767990      0.7571158  1.253617e-01  0.5294021
##   [9743,] -0.9925612779  1.0100814      0.7571158 -4.119374e-01  0.5294021
##   [9744,] -0.6681069342  0.4545598      0.7571158 -1.105257e-01  0.5294021
##   [9745,] -0.4158895952  1.0100814      0.7571158  6.757657e-01  0.5294021
##   [9746,] -0.4697612599  0.7323206     -1.3207918 -1.921559e-01  0.5294021
##   [9747,]  0.9553891407 -1.4897658      0.7571158 -3.857277e-01  0.5294021
##   [9748,]  0.0909937947 -1.4897658     -1.3207918 -4.643569e-01  0.5294021
##   [9749,] -1.1125481673 -0.9342442     -1.3207918  1.068911e+00  0.5294021
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##   [9751,]  0.3554546937  1.0100814      0.7571158  2.629627e-01  0.5294021
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##   [9753,] -1.5165856520 -0.6564834      0.7571158 -5.823006e-01  0.5294021
##   [9754,] -0.4220113753  0.7323206     -1.3207918 -3.857277e-01  0.5294021
##   [9755,] -0.3314090302  0.7323206      0.7571158  7.978302e-02 -1.8889088
##   [9756,]  2.2385142436  1.0100814      0.7571158 -4.774617e-01  0.5294021
##   [9757,] -0.2652938055 -0.1009618     -1.3207918 -3.726229e-01  0.5294021
##   [9758,] -0.6925940544  1.0100814      0.7571158 -3.070986e-01  0.5294021
##   [9759,]  0.2721984848 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [9760,]  0.4668710910 -1.4897658     -1.3207918 -3.464131e-01 -1.8889088
##   [9761,] -1.4957715998 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [9762,]  0.8574406596  1.0100814     -1.3207918 -5.901635e-01  0.5294021
##   [9763,] -0.3975242550  1.0100814     -1.3207918  4.791929e-01  0.5294021
##   [9764,] -0.8529846923  1.0100814      0.7571158  2.379397e+00  0.5294021
##   [9765,] -0.3118193340  1.0100814      0.7571158  4.791929e-01  0.5294021
##   [9766,] -0.2603963814  1.0100814     -1.3207918 -4.643569e-01  0.5294021
##   [9767,]  0.0922181507  1.0100814      0.7571158 -3.595180e-01  0.5294021
##   [9768,] -0.5015945162 -1.2120050      0.7571158  3.481443e-01 -1.8889088
##   [9769,]  2.3633985571  1.0100814      0.7571158 -3.267559e-01 -1.8889088
##   [9770,] -0.1024544556  1.0100814      0.7571158 -3.464131e-01  0.5294021
##   [9771,] -0.6534146620  1.0100814     -1.3207918 -8.771599e-01 -1.8889088
##   [9772,] -1.3635411502 -1.4897658      0.7571158 -4.381471e-01  0.5294021
##   [9773,] -1.2239645646 -1.4897658      0.7571158 -2.808889e-01  0.5294021
##   [9774,] -0.4134408832  1.0100814      0.7571158  1.515714e-01  0.5294021
##   [9775,]  0.6860308176  0.1767990     -1.3207918 -7.002443e-01  0.5294021
##   [9776,]  1.7487718379 -0.3787226     -1.3207918 -6.347200e-01  0.5294021
##   [9777,]  0.0395708421  1.0100814      0.7571158  1.160645e+00  0.5294021
##   [9778,]  0.9455942926 -0.6564834      0.7571158 -3.070986e-01  0.5294021
##   [9779,]  0.8598893716 -1.2120050      0.7571158  7.543949e-01  0.5294021
##   [9780,] -1.0011317700 -1.2120050      0.7571158 -3.070986e-01  0.5294021
##   [9781,] -0.6681069342 -0.9342442     -1.3207918  5.447171e-01  0.5294021
##   [9782,] -0.2971270618  0.1767990      0.7571158  4.791929e-01 -1.8889088
##   [9783,] -0.4538446317  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [9784,] -0.5934212173 -0.9342442     -1.3207918  1.068911e+00  0.5294021
##   [9785,] -1.5165856520  1.0100814      0.7571158  2.170957e-01  0.5294021
##   [9786,]  0.1583333755  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [9787,] -0.5909725053  1.0100814     -1.3207918 -7.776357e-02  0.5294021
##   [9788,]  0.2538331446  1.0100814      0.7571158 -1.105257e-01 -1.8889088
##   [9789,] -0.8774718126 -0.9342442     -1.3207918 -2.415743e-01  0.5294021
##   [9790,]  0.7301076341 -1.4897658     -1.3207918 -5.036714e-01  0.5294021
##   [9791,]  1.5149198392 -1.4897658     -1.3207918 -5.691957e-01  0.5294021
##   [9792,]  0.3689226099 -1.4897658      0.7571158  8.604715e-02  0.5294021
##   [9793,] -0.8297219280  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [9794,]  0.2550575006 -0.3787226      0.7571158  8.068143e-01 -1.8889088
##   [9795,]  1.0080364493  1.0100814      0.7571158 -1.976730e-01  0.5294021
##   [9796,]  1.9446688002 -1.4897658      0.7571158 -2.415743e-01  0.5294021
##   [9797,] -0.4122165272 -0.6564834     -1.3207918 -4.250423e-01  0.5294021
##   [9798,]  0.9247802404 -0.9342442      0.7571158 -5.429860e-01  0.5294021
##   [9799,]  0.3689226099 -0.9342442      0.7571158 -5.429860e-01  0.5294021
##   [9800,] -0.9239973411 -0.9342442      0.7571158 -2.022597e-01  0.5294021
##   [9801,] -0.4109921712  1.0100814      0.7571158  1.040794e-01  0.5294021
##   [9802,]  1.1157797786 -1.4897658     -1.3207918 -6.216151e-01  0.5294021
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##   [9803,]  0.1411923913 -1.2120050     -1.3207918 -5.691957e-01  0.5294021
##   [9804,] -0.5052675843 -1.4897658      0.7571158 -5.429860e-01  0.5294021
##   [9805,] -0.1085762357 -1.2120050     -1.3207918 -3.857277e-01 -1.8889088
##   [9806,]  0.3174996573 -0.9342442      0.7571158 -5.560909e-01 -1.8889088
##   [9807,]  0.3995315103 -1.4897658     -1.3207918 -3.726229e-01  0.5294021
##   [9808,] -2.2389557004  1.0100814      0.7571158  4.018015e-02  0.5294021
##   [9809,] -0.8248245040  1.0100814      0.7571158  5.316123e-01  0.5294021
##   [9810,] -0.0057303305  1.0100814     -1.3207918 -3.988326e-01  0.5294021
##   [9811,] -0.2848835017 -0.9342442     -1.3207918 -6.465871e-02  0.5294021
##   [9812,] -0.8640038964  0.4545598      0.7571158  4.398783e-01  0.5294021
##   [9813,] -0.5530174688 -1.2120050     -1.3207918 -2.546791e-01  0.5294021
##   [9814,]  0.2293460243  1.0100814      0.7571158 -4.643569e-01  0.5294021
##   [9815,]  0.8207099792  1.0100814      0.7571158 -5.167763e-01  0.5294021
##   [9816,] -1.1407083557 -0.9342442      0.7571158  1.527581e+00  0.5294021
##   [9817,]  1.0092608053  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [9818,] -0.1146980157  1.0100814     -1.3207918 -5.036714e-01  0.5294021
##   [9819,] -1.9279692728  1.0100814      0.7571158  8.604204e+00 -1.8889088
##   [9820,] -1.7883926872  1.0100814      0.7571158  2.313873e+00 -1.8889088
##   [9821,] -0.9142024930 -1.2120050     -1.3207918  1.515714e-01  0.5294021
##   [9822,] -1.3782334224 -1.2120050      0.7571158 -1.301830e-01  0.5294021
##   [9823,] -0.7660554153 -1.2120050     -1.3207918 -3.202034e-01 -1.8889088
##   [9824,] -1.3965987626 -0.3787226      0.7571158 -4.512520e-01  0.5294021
##   [9825,] -1.6267776933  1.0100814      0.7571158  3.481443e-01  0.5294021
##   [9826,]  0.7227614980 -1.4897658      0.7571158 -4.119374e-01  0.5294021
##   [9827,] -0.5799533011  0.7323206     -1.3207918 -1.760500e-01  0.5294021
##   [9828,] -0.3301846742 -1.2120050     -1.3207918 -4.119374e-01  0.5294021
##   [9829,]  1.4977788550  0.7323206      0.7571158 -3.333083e-01 -1.8889088
##   [9830,]  0.6395052890  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [9831,]  2.1050594381 -1.4897658     -1.3207918  8.068143e-01  0.5294021
##   [9832,]  2.0291493652  1.0100814      0.7571158 -6.347200e-01  0.5294021
##   [9833,] -0.3962998990 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [9834,] -1.5018933799  1.0100814      0.7571158 -4.500143e-02  0.5294021
##   [9835,] -1.7320723105 -1.4897658     -1.3207918 -1.498403e-01  0.5294021
##   [9836,]  0.4460570388 -0.9342442      0.7571158 -1.760500e-01 -1.8889088
##   [9837,]  0.8856008479 -0.6564834     -1.3207918  8.604715e-02  0.5294021
##   [9838,] -1.2447786169 -1.4897658      0.7571158  4.791929e-01  0.5294021
##   [9839,]  0.1803717837  1.0100814     -1.3207918 -4.905666e-01  0.5294021
##   [9840,] -1.0733687749 -0.3787226     -1.3207918  2.052286e-02  0.5294021
##   [9841,] -0.2089734288  1.0100814     -1.3207918 -5.686855e-03 -1.8889088
##   [9842,]  0.8868252039 -1.4897658      0.7571158 -4.500143e-02  0.5294021
##   [9843,] -1.2092722925 -0.9342442      0.7571158  1.357218e+00  0.5294021
##   [9844,]  1.1182284906 -1.4897658      0.7571158  3.678016e-01  0.5294021
##   [9845,]  1.7108168015  1.0100814      0.7571158  8.604715e-02  0.5294021
##   [9846,]  0.5991015406 -0.9342442     -1.3207918 -5.036714e-01  0.5294021
##   [9847,]  0.1448654593  1.0100814      0.7571158 -5.429860e-01  0.5294021
##   [9848,] -0.5040432282 -0.6564834     -1.3207918 -5.036714e-01  0.5294021
##   [9849,]  0.4362621907  1.0100814      0.7571158  5.512696e-01  0.5294021
##   [9850,]  0.8231586912  1.0100814      0.7571158 -1.367354e-01  0.5294021
##   [9851,]  0.0199811458  1.0100814      0.7571158 -1.236306e-01 -1.8889088
##   [9852,]  0.0212055019  1.0100814     -1.3207918 -7.264540e-01  0.5294021
##   [9853,] -0.1967298687 -1.4897658      0.7571158  1.122569e-01 -1.8889088
##   [9854,]  1.8026435026 -0.9342442      0.7571158 -2.677840e-01 -1.8889088
##   [9855,]  0.8084664190 -1.2120050     -1.3207918 -2.415743e-01 -1.8889088
##   [9856,]  0.9982416012  1.0100814      0.7571158 -5.810628e-02  0.5294021
##   [9857,] -0.2273387690  1.0100814      0.7571158 -4.500143e-02 -1.8889088
##   [9858,] -0.6546390180  0.4545598      0.7571158 -3.058608e-02 -1.8889088
##   [9859,]  1.1794462913 -1.2120050     -1.3207918  1.908860e-01  0.5294021
##   [9860,]  0.3346406415  1.0100814      0.7571158  5.054026e-01 -1.8889088
##   [9861,]  1.9507905803  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [9862,] -1.1284647955  1.0100814     -1.3207918  8.068143e-01  0.5294021
##   [9863,]  0.2232242442  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [9864,] -0.2775373656  1.0100814      0.7571158  1.658630e+00  0.5294021
##   [9865,] -0.9509331734 -1.4897658     -1.3207918 -2.415743e-01  0.5294021
##   [9866,] -1.3647655063 -0.1009618     -1.3207918 -3.726229e-01  0.5294021
##   [9867,] -0.8211514359  1.0100814      0.7571158  1.160645e+00  0.5294021
##   [9868,]  0.8598893716  1.0100814      0.7571158  8.723386e-01  0.5294021
##   [9869,]  0.0787502345 -1.4897658     -1.3207918 -3.070986e-01  0.5294021
##   [9870,] -0.2248900570  1.0100814      0.7571158 -2.415743e-01 -1.8889088
##   [9871,] -0.6521903060  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9872,]  0.1069104229  1.0100814      0.7571158 -1.498403e-01  0.5294021
##   [9873,] -0.6485172379  0.1767990      0.7571158 -1.105257e-01 -1.8889088
##   [9874,] -1.8875655243 -1.4897658      0.7571158  1.777811e-01 -1.8889088
##   [9875,]  1.9875212607  1.0100814      0.7571158 -3.464131e-01  0.5294021
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##   [9877,]  0.3566790498  0.1767990      0.7571158  8.604715e-02 -1.8889088
##   [9878,] -0.2799860776 -1.4897658      0.7571158 -6.216151e-01  0.5294021
##   [9879,] -0.3509987265  1.0100814      0.7571158 -2.415743e-01  0.5294021
##   [9880,]  0.8243830472  1.0100814     -1.3207918 -4.500143e-02  0.5294021
##   [9881,] -0.2971270618  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [9882,] -1.3623167942  1.0100814     -1.3207918  2.170957e-01  0.5294021
##   [9883,] -0.7415682950  1.0100814      0.7571158  1.428305e-01  0.5294021
##   [9884,]  0.8745816438 -1.2120050     -1.3207918 -7.002443e-01  0.5294021
##   [9885,] -0.4917996681 -0.3787226     -1.3207918 -2.415743e-01  0.5294021
##   [9886,] -0.9435870374 -0.9342442     -1.3207918  2.809164e-01  0.5294021
##   [9887,] -0.1208197958 -1.4897658     -1.3207918 -4.500143e-02  0.5294021
##   [9888,] -1.1921313083  0.1767990     -1.3207918  4.315567e-01  0.5294021
##   [9889,] -1.2619196011 -0.6564834      0.7571158 -1.760500e-01  0.5294021
##   [9890,] -1.8165528755 -0.9342442     -1.3207918 -3.070986e-01  0.5294021
##   [9891,]  0.0640579624  0.4545598      0.7571158  7.019754e-01 -1.8889088
##   [9892,]  1.3275933690  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [9893,]  0.2403652284 -1.4897658     -1.3207918 -1.760500e-01  0.5294021
##   [9894,]  0.8611137276  1.0100814      0.7571158 -4.119374e-01 -1.8889088
##   [9895,]  0.2721984848  1.0100814     -1.3207918 -7.121114e-02  0.5294021
##   [9896,] -0.6117865575  1.0100814      0.7571158  2.302006e-01  0.5294021
##   [9897,] -1.3647655063 -0.9342442     -1.3207918  2.170957e-01  0.5294021
##   [9898,] -0.6228057616  1.0100814      0.7571158 -1.236306e-01  0.5294021
##   [9899,]  0.6382809330  1.0100814      0.7571158 -5.823006e-01  0.5294021
##   [9900,]  0.7460242623 -0.6564834      0.7571158 -3.988326e-01  0.5294021
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##   [9901,]  1.2614781443  0.7323206      0.7571158  4.791929e-01  0.5294021
##   [9902,] -0.0253200267  0.7323206     -1.3207918 -2.651630e-01  0.5294021
##   [9903,]  0.8807034239  1.0100814      0.7571158  3.874589e-01  0.5294021
##   [9904,] -2.0014306337 -0.9342442      0.7571158  1.148727e+01  0.5294021
##   [9905,]  0.9896711091  0.4545598      0.7571158  2.052286e-02  0.5294021
##   [9906,]  1.4769648028  1.0100814      0.7571158 -1.760500e-01  0.5294021
##   [9907,] -1.3782334224  1.0100814      0.7571158  3.153821e-01  0.5294021
##   [9908,] -0.2163195649 -0.6564834     -1.3207918 -3.136510e-01  0.5294021
##   [9909,] -0.0718455552 -1.2120050      0.7571158 -5.954054e-01  0.5294021
##   [9910,] -0.6717800022  1.0100814      0.7571158  3.571939e+00  0.5294021
##   [9911,] -0.6852479184  1.0100814      0.7571158  2.170957e-01 -1.8889088
##   [9912,]  0.4815633632  0.7323206      0.7571158 -1.760500e-01  0.5294021
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##   [9916,] -1.9512320371  1.0100814      0.7571158  9.914690e+00  0.5294021
##   [9917,]  1.0766003861 -0.6564834      0.7571158 -4.119374e-01 -1.8889088
##   [9918,] -0.7440170070  1.0100814      0.7571158 -3.726229e-01  0.5294021
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##   [9920,] -0.6313762537 -1.2120050      0.7571158  5.347435e-03 -1.8889088
##   [9921,] -0.1012300996  1.0100814      0.7571158 -2.939937e-01 -1.8889088
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##   [9923,] -1.1247917275  1.0100814      0.7571158  8.723386e-01 -1.8889088
##   [9924,]  0.3028073851 -0.6564834     -1.3207918 -6.085103e-01  0.5294021
##   [9925,]  0.1411923913 -0.9342442      0.7571158 -1.879171e-02 -1.8889088
##   [9926,] -0.1636722563 -1.4897658      0.7571158 -4.119374e-01  0.5294021
##   [9927,]  0.0836476586  1.0100814     -1.3207918 -5.036714e-01  0.5294021
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##   [9932,] -1.1333622196  1.0100814     -1.3207918  8.068143e-01  0.5294021
##   [9933,]  0.2207755322 -0.3787226      0.7571158 -4.500143e-02  0.5294021
##   [9934,] -0.4905753121  1.0100814      0.7571158 -1.105257e-01  0.5294021
##   [9935,] -0.8701256765 -1.4897658      0.7571158 -3.988326e-01  0.5294021
##   [9936,] -0.8786961686 -0.6564834     -1.3207918 -1.839129e-01  0.5294021
##   [9937,] -0.3338577423  1.0100814     -1.3207918 -4.388024e-01 -1.8889088
##   [9938,] -0.6215814056  1.0100814     -1.3207918 -2.153646e-01  0.5294021
##   [9939,] -1.1100994553 -0.9342442      0.7571158  4.791929e-01  0.5294021
##   [9940,]  1.5381826035  1.0100814      0.7571158  1.068911e+00  0.5294021
##   [9941,] -0.8089078758 -1.2120050      0.7571158 -5.233287e-01  0.5294021
##   [9942,] -1.0599008587 -1.2120050     -1.3207918 -1.105257e-01  0.5294021
##   [9943,] -0.3718127787  1.0100814      0.7571158  4.660880e-01 -1.8889088
##   [9944,]  0.1815961397 -0.3787226      0.7571158  7.418002e-03  0.5294021
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##   [9948,]  0.0469169782 -0.3787226      0.7571158 -3.070986e-01 -1.8889088
##   [9949,]  0.0665066744  1.0100814     -1.3207918 -3.726229e-01  0.5294021
##   [9950,] -1.3500732341  1.0100814     -1.3207918  2.510446e+00  0.5294021
##   [9951,]  0.3872879501 -1.2120050     -1.3207918  1.199960e+00  0.5294021
##   [9952,] -0.5824020132  1.0100814      0.7571158 -1.760500e-01 -1.8889088
##   [9953,] -0.1685696803  1.0100814      0.7571158 -1.629451e-01  0.5294021
##   [9954,]  0.4876851433 -0.3787226     -1.3207918 -8.667487e-02  0.5294021
##   [9955,]  0.0126350098 -0.9342442      0.7571158 -7.121114e-02  0.5294021
##   [9956,] -0.1820375965 -0.9342442     -1.3207918 -7.133491e-01  0.5294021
##   [9957,] -1.4051692547 -0.1009618      0.7571158 -1.879171e-02  0.5294021
##   [9958,] -0.3718127787  1.0100814      0.7571158  1.016492e+00 -1.8889088
##   [9959,] -0.5750558771 -0.1009618     -1.3207918  7.418002e-03  0.5294021
##   [9960,] -1.0990802512 -0.3787226      0.7571158  1.199960e+00  0.5294021
##   [9961,]  0.5966528285 -1.4897658      0.7571158 -3.228244e-01  0.5294021
##   [9962,] -1.3145669097 -1.2120050     -1.3207918 -2.415743e-01  0.5294021
##   [9963,]  1.0349722816 -1.4897658      0.7571158 -5.167763e-01  0.5294021
##   [9964,]  0.5844092684  1.0100814     -1.3207918 -4.486310e-01  0.5294021
##   [9965,] -0.7587092792  1.0100814      0.7571158  1.908860e-01  0.5294021
##   [9966,] -0.8786961686 -1.2120050     -1.3207918  1.068911e+00  0.5294021
##   [9967,]  0.7692870266  1.0100814     -1.3207918 -3.857277e-01  0.5294021
##   [9968,] -0.5921968613 -0.9342442      0.7571158 -4.905666e-01  0.5294021
##   [9969,]  0.7031718018  1.0100814     -1.3207918 -5.691957e-01  0.5294021
##   [9970,] -0.8603308284  1.0100814      0.7571158 -3.726229e-01 -1.8889088
##   [9971,]  1.1476130350 -0.1009618     -1.3207918 -5.954054e-01  0.5294021
##   [9972,]  0.6884795296 -0.3787226      0.7571158  1.304799e+00  0.5294021
##   [9973,] -1.5312779242  0.4545598     -1.3207918 -1.761024e-01 -1.8889088
##   [9974,]  1.1598565951  0.1767990      0.7571158 -7.121114e-02 -1.8889088
##   [9975,] -0.1648966123 -0.3787226     -1.3207918 -2.750048e-01  0.5294021
##   [9976,] -0.7183055307 -1.2120050     -1.3207918 -6.696575e-01  0.5294021
##   [9977,]  0.0322247060 -0.1009618      0.7571158  5.054803e-03  0.5294021
##   [9978,] -0.5260816365 -0.9342442     -1.3207918  3.362772e-02  0.5294021
##   [9979,]  0.0799745905  1.0100814      0.7571158 -3.185129e-01 -1.8889088
##   [9980,] -0.4085434591 -1.4897658     -1.3207918 -4.381471e-01 -1.8889088
##   [9981,] -1.3659898623  1.0100814      0.7571158  2.695151e-01  0.5294021
##   [9982,] -1.4051692547  0.4545598      0.7571158 -4.500143e-02 -1.8889088
##   [9983,]  0.4423839708 -1.4897658      0.7571158 -1.734290e-01  0.5294021
##   [9984,]  0.6407296451 -0.6564834      0.7571158 -4.381471e-01  0.5294021
##   [9985,] -1.2117210045  1.0100814     -1.3207918  4.136686e-01  0.5294021
##   [9986,] -0.8578821164  0.1767990      0.7571158 -2.088121e-01 -1.8889088
##   [9987,] -0.1000057436  1.0100814      0.7571158  8.592337e-01  0.5294021
##   [9988,] -1.3243617578 -0.9342442     -1.3207918  4.909145e-02  0.5294021
##   [9989,] -0.4146652392 -0.3787226      0.7571158  1.199960e+00  0.5294021
##   [9990,] -2.1483533554  1.0100814      0.7571158  2.379397e+00  0.5294021
##   [9991,] -1.1823364601 -1.2120050     -1.3207918  4.922977e-01  0.5294021
##   [9992,]  0.8929469840 -0.9342442      0.7571158  1.331009e+00  0.5294021
##   [9993,]  1.1353694748  1.0100814      0.7571158  5.185074e-01 -1.8889088
##   [9994,] -0.9533818855 -0.9342442     -1.3207918 -3.726229e-01  0.5294021
##   [9995,] -0.7513631431  1.0100814      0.7571158  2.052286e-02  0.5294021
##   [9996,]  0.6382809330 -0.9342442      0.7571158  4.660880e-01 -1.8889088
##   [9997,] -1.5214830761  0.1767990      0.7571158 -3.595180e-01 -1.8889088
##   [9998,]  0.0836476586  0.4545598      0.7571158 -2.808889e-01 -1.8889088
```

```
##   [9999,] -2.1863083918 -0.9342442      0.7571158  9.914690e+00  0.5294021
##  [ reached getOption("max.print") -- omitted 120719 rows ]
## attr(,"scaled:center")
##      loan_amnt       int_rate        issue_d          grade        purpose
##   1.428259e+04   1.357049e+01   2.016158e+03   5.165838e+00   2.310393e-01
##            dti     emp_length home_ownership     annual_inc           term
##   1.915680e+01   6.363485e+00   6.356355e-01   8.343395e+04   7.810860e-01
## attr(,"scaled:scale")
##      loan_amnt       int_rate        issue_d          grade        purpose
##   8.831276e+03   5.001338e+00   6.811594e-01   1.249399e+00   4.214991e-01
##            dti     emp_length home_ownership     annual_inc           term
##   8.167559e+00   3.600220e+00   4.812533e-01   7.630759e+04   4.135118e-01
```

```
as.matrix(scale.emp)%*%fact.load.emp%*%solve(t(fact.load.emp)%*%fact.load.emp)
```

```
## Error in as.matrix(scale.emp) %*% fact.load.emp: non-conformable arguments
```

```
library(psych)
#install.packages("psych", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
library(psych)
fit.pc <- principal(ABC, nfactors=4, rotate="varimax")
fit.pc
```

```
## Principal Components Analysis
## Call: principal(r = ABC, nfactors = 4, rotate = "varimax")
## Standardized loadings (pattern matrix) based upon correlation matrix
##                  RC1   RC2   RC3   RC4   h2    u2 com
## loan_amnt      -0.36  0.65  0.16 -0.32 0.67 0.327 2.2
## int_rate       -0.94 -0.12 -0.06  0.10 0.92 0.082 1.1
## issue_d        -0.06  0.11  0.03  0.49 0.26 0.744 1.1
## grade           0.94  0.13  0.06 -0.07 0.91 0.093 1.1
## purpose         0.00 -0.10  0.07  0.80 0.65 0.345 1.0
## dti            -0.28 -0.55  0.22 -0.37 0.57 0.427 2.7
## emp_length     -0.01 -0.08  0.76  0.01 0.58 0.416 1.0
## home_ownership  0.04  0.16  0.74  0.07 0.58 0.420 1.1
## annual_inc      0.05  0.73  0.07  0.09 0.56 0.444 1.1
## term            0.65 -0.33 -0.08  0.10 0.54 0.457 1.6
##
##                        RC1  RC2  RC3  RC4
## SS loadings           2.41 1.46 1.22 1.16
## Proportion Var        0.24 0.15 0.12 0.12
## Cumulative Var        0.24 0.39 0.51 0.62
## Proportion Explained  0.39 0.23 0.20 0.19
## Cumulative Proportion 0.39 0.62 0.81 1.00
##
## Mean item complexity =  1.4
## Test of the hypothesis that 4 components are sufficient.
##
## The root mean square of the residuals (RMSR) is  0.11
##  with the empirical chi square  149767.4  with prob <  0
##
## Fit based upon off diagonal values = 0.69
```

```
round(fit.pc$values, 3)
```

```
##  [1] 2.418 1.514 1.169 1.143 0.964 0.818 0.761 0.653 0.524 0.036
```

```
fit.pc$loadings
```

```
##
## Loadings:
##                RC1    RC2    RC3    RC4
## loan_amnt      -0.358  0.648  0.158 -0.316
## int_rate       -0.944 -0.115         0.103
## issue_d                0.106         0.490
## grade           0.939  0.128
## purpose               -0.103         0.800
## dti            -0.283 -0.552  0.218 -0.374
## emp_length                    0.761
## home_ownership         0.162  0.739
## annual_inc             0.734
## term            0.648 -0.328         0.102
##
##                  RC1   RC2   RC3   RC4
## SS loadings    2.409 1.455 1.221 1.159
## Proportion Var 0.241 0.146 0.122 0.116
## Cumulative Var 0.241 0.386 0.508 0.624
```

```
# Loadings with more digits
for (i in c(1,3,2,4)) { print(fit.pc$loadings[[1,i]])}
```

```
## [1] -0.3581828
## [1] 0.1575363
## [1] 0.648158
## [1] -0.3161529
```

```
# Communalities
fit.pc$communality #we will look at the communalities to decide which
```

```
##      loan_amnt       int_rate        issue_d          grade        purpose
##      0.6731740      0.9181056      0.2556240      0.9069966      0.6546425
##            dti     emp_length home_ownership     annual_inc           term
##      0.5728275      0.5843221      0.5795162      0.5560354      0.5431152
```

```
#the total variance of TC= 0.87.....Its the 87% of the total variance of this variable is captured and RC1 is not able to capture the remaining 13%


# Rotated factor scores, Notice the columns ordering: RC1, RC3, RC2 and RC4
fit.pc$scores
```

```
##                     RC1           RC2           RC3           RC4
##      [1,]  7.826662e-01 -3.916096e-02 -5.783896e-01  1.409075e+00
##      [2,]  1.121446e-01 -7.617088e-01 -1.086933e+00  2.825222e+00
##      [3,] -5.791947e-01 -7.878610e-01  2.021743e-01  2.972404e+00
##      [4,] -1.279876e+00 -1.053028e+00 -1.642040e+00  1.408859e+00
##      [5,]  1.318353e+00  2.827209e-01  1.368123e-01  1.023629e+00
##      [6,] -1.942241e-01  7.171779e-01 -4.309285e-01  2.614549e+00
##      [7,]  2.220583e-01  6.641941e-01 -2.101902e-02  1.718976e+00
##      [8,]  1.546502e-02 -1.158995e+00 -1.565579e+00  2.505150e+00
##      [9,]  5.967510e-01  6.137394e-01 -1.961620e+00  1.058201e+00
##     [10,]  1.118470e+00 -4.015611e-02  8.349689e-01  6.763834e-01
##     [11,]  1.184130e+00  2.236035e-01 -1.170601e+00  8.425761e-01
##     [12,]  1.072753e-01  2.454283e-01 -5.197900e-01  1.334275e+00
##     [13,]  1.060891e+00 -3.230342e-01  1.329316e+00  2.357961e+00
##     [14,]  7.071135e-01 -1.655242e-01  1.128590e+00  9.611129e-01
##     [15,] -7.631125e-01 -9.261615e-01 -1.814634e+00  1.049554e+00
##     [16,] -1.497971e+00 -8.637922e-01 -1.488817e+00  3.620639e+00
##     [17,]  6.417989e-01  3.737506e-01  1.064423e+00  9.638799e-01
##     [18,]  4.999975e-01  5.098459e-01  9.690405e-01  1.132397e+00
##     [19,]  1.287853e+00  4.504044e-01 -4.427829e-01  1.268148e+00
##     [20,] -2.191181e+00  4.924281e-01  4.407738e-01  1.430467e+00
##     [21,] -1.352052e+00  1.703476e-01 -4.616372e-01  1.425213e+00
##     [22,]  6.588597e-01  5.723955e-01  6.835290e-01  1.549696e+00
##     [23,] -7.378060e-01 -1.553461e+00  1.357675e+00  6.813998e-01
##     [24,]  7.516096e-01  2.755705e+00 -1.634608e-01  2.068820e+00
##     [25,]  1.252310e-01  1.901221e-01  8.242775e-01  3.330746e+00
##     [26,] -1.174788e+00  2.096613e+00 -6.007181e-01  2.018023e+00
##     [27,]  1.310894e+00 -1.385052e-01  1.132182e+00  7.687048e-01
##     [28,]  7.191427e-01 -2.448684e-01 -1.393114e+00  1.046000e+00
##     [29,]  5.229990e-01 -4.080987e-01  9.894878e-01  1.104014e+00
##     [30,]  2.780363e-02 -7.453947e-01 -1.507110e+00  9.818008e-01
##     [31,] -6.066120e-01  6.803239e-01  1.359341e-02  2.801667e+00
##     [32,]  1.333717e+00 -2.667156e-01  1.084310e+00  2.872218e+00
##     [33,]  7.861319e-01  2.198456e+00 -8.173537e-02 -1.017021e-02
##     [34,] -2.223299e-01  3.995336e-02 -8.628740e-01  5.533154e-01
##     [35,]  4.528553e-01 -3.570062e-01 -1.292663e+00  2.198436e+00
##     [36,]  5.559225e-01 -5.296933e-02 -1.598235e+00  1.147673e+00
##     [37,] -2.381362e-01 -1.725274e+00  1.877084e-01  3.620598e-01
##     [38,]  2.038368e-01 -9.486026e-01  9.449900e-01  1.245171e+00
##     [39,] -2.165235e+00  3.227721e-01  9.840916e-01  1.239653e+00
##     [40,]  1.430335e+00 -2.494912e-01 -7.575436e-01  1.140390e+00
##     [41,]  1.732092e-01 -1.759402e-01 -1.823564e+00  1.190175e+00
##     [42,] -1.916930e-01 -6.776009e-01 -3.170665e-01  2.639787e+00
##     [43,] -5.419056e-01  1.435200e-01  6.345558e-01  1.792254e+00
##     [44,]  1.286810e+00  2.361348e-01 -6.241577e-01  9.561267e-01
##     [45,] -1.281000e+00 -7.737324e-01  6.307608e-01  3.785512e+00
##     [46,] -9.249942e-01 -6.125504e-01  6.354148e-02  3.511620e-01
##     [47,]  4.178626e-01  8.036022e-01 -1.743563e+00  5.557425e-01
##     [48,]  2.188425e-01  2.498675e+00 -5.477091e-01  2.504250e+00
##     [49,] -1.464721e-01  5.960767e+00  1.181218e+00  2.916901e+00
##     [50,] -4.692741e-01  1.541433e+00  1.334208e+00  2.645986e-01
##     [51,] -1.063154e+00  6.439717e-01 -1.605029e+00  2.178193e+00
##     [52,]  1.150545e+00  1.322191e-01  1.198329e+00  6.463120e-01
##     [53,] -1.075573e+00 -5.872998e-01 -1.580452e+00  5.505326e-01
##     [54,] -4.557646e-01 -6.544915e-01  1.692122e+00  1.860971e+00
##     [55,] -6.255629e-01  5.731678e-01 -1.281623e-01  1.414757e+00
##     [56,] -2.744437e-01  2.751361e-01 -1.490623e+00  2.745856e+00
##     [57,] -5.693157e-01 -5.634062e-01 -5.371024e-02  1.417047e+00
##     [58,]  7.856668e-01  1.351635e-01  8.354311e-01  3.269893e+00
##     [59,] -1.527975e+00 -1.265822e+00  2.335450e-01  7.984332e-01
##     [60,] -1.220438e+00  1.758037e+00  1.341694e+00  5.364146e-02
##     [61,] -5.217592e-01 -1.144447e-01 -1.594373e+00  1.532452e+00
##     [62,]  8.322210e-01  1.121882e+00 -9.308638e-01  3.191647e+00
##     [63,]  7.522004e-01  7.366694e-01 -4.751755e-01  3.063877e+00
##     [64,]  3.350623e-01  7.244053e-01  2.609480e-03  1.716790e-01
##     [65,] -1.352819e+00  9.526987e-01  6.574314e-01  1.513568e+00
##     [66,] -6.754481e-01 -5.637300e-01 -1.517307e+00  1.345718e+00
##     [67,] -2.802194e-01 -5.234097e-01 -5.410395e-02  8.023868e-01
##     [68,]  3.704135e-01 -1.456039e+00  1.489539e+00  3.413800e-01
##     [69,] -1.766814e-02 -6.453282e-01  4.814818e-01  3.107916e+00
##     [70,] -1.513080e+00 -1.600285e+00  1.206961e+00  2.893322e+00
##     [71,]  5.727801e-01  5.735462e-01 -1.703268e+00  2.839037e+00
##     [72,]  6.818594e-01 -4.263670e-02  1.000658e+00  1.034921e+00
##     [73,] -2.991427e-01  1.315595e+00  1.493698e-02  2.218367e+00
##     [74,]  5.279128e-01 -8.443775e-02 -1.512384e+00  8.490535e-01
##     [75,]  1.028074e+00 -7.365905e-01 -1.452186e-01  2.286450e+00
##     [76,] -2.329807e+00  4.078754e-01 -6.235710e-01  3.080250e+00
##     [77,] -6.618825e-01  2.999240e-01 -5.112496e-01  3.339789e+00
##     [78,] -1.255621e-01 -4.797870e-01  1.208280e+00  7.996873e-01
##     [79,] -1.291867e+00  7.264072e-01  8.811324e-01  1.189864e+00
##     [80,] -1.335538e+00  1.958513e-02  1.574289e-01 -3.507052e-01
##     [81,]  1.230787e+00  2.610708e-01  6.724007e-01  2.554036e+00
##     [82,]  6.745096e-01 -3.252037e-01  1.139982e+00  2.735671e+00
```

```
##     [83,]  1.764903e-01  1.224869e+00 -4.990926e-01  1.534206e+00
##     [84,] -2.591607e+00  1.209025e+00  2.146754e-01  7.436309e-01
##     [85,]  6.229748e-01 -4.213005e-01  1.248815e+00  2.658901e+00
##     [86,] -9.396253e-01  1.993120e+00 -2.488391e-01  4.429849e-01
##     [87,]  8.023626e-01  4.067338e-01 -6.254014e-02  1.446923e+00
##     [88,]  5.154039e-01  7.808133e-01 -1.252883e+00  6.701160e-01
##     [89,] -7.115483e-01  6.849819e-01 -1.096876e+00 -2.820846e-01
##     [90,] -5.826233e-01 -3.102333e-01  8.663564e-01  1.422659e+00
##     [91,]  2.725710e-01  3.879803e-01 -8.341294e-01  5.556308e-01
##     [92,] -1.473697e+00  2.309547e+00  1.022444e+00  7.235602e-01
##     [93,]  1.089781e+00  7.627707e-01  1.215434e+00  5.663866e-01
##     [94,] -2.402063e+00 -1.258561e+00  6.013537e-01  3.916407e+00
##     [95,]  3.009398e-01 -1.750911e+00 -4.433214e-01  1.895547e+00
##     [96,] -1.601974e+00  7.991122e-01 -4.760007e-01  8.494781e-01
##     [97,]  6.007340e-01 -1.470167e-02 -1.849831e+00  2.835630e+00
##     [98,] -1.747879e+00  7.414992e-01  4.672013e-01  2.778324e-01
##     [99,]  1.344923e+00  2.175467e+00 -4.953097e-01  1.523849e+00
##    [100,]  1.571865e-02  1.415597e+00 -5.553965e-02  9.936853e-01
##    [101,]  1.195533e+00 -9.898093e-02  2.317097e-01  2.798900e+00
##    [102,] -9.224511e-01  2.239733e+00 -5.537594e-01  7.347196e-01
##    [103,]  4.197424e-01  1.235770e+00  5.971911e-01  2.877256e+00
##    [104,]  1.247871e+00  3.641276e-01  1.164827e+00  2.720717e+00
##    [105,]  5.678484e-01 -7.643410e-01  2.091023e-01  2.592382e+00
##    [106,] -1.413016e+00  1.005550e+00  1.121722e+00  2.568042e+00
##    [107,] -2.764934e-01 -6.019960e-01  1.372709e+00  1.077148e-01
##    [108,]  1.260264e+00  4.179839e-01  4.922995e-01  1.041585e+00
##    [109,] -2.471358e+00  5.404335e-01  1.864643e-01  9.417803e-01
##    [110,]  1.103235e+00  7.914417e-01 -3.290554e-01  3.347740e-01
##    [111,] -3.776796e-01 -3.351818e-01 -1.100479e-01  6.305899e-01
##    [112,] -6.300787e-01 -3.195110e-01  1.441204e-01  1.488296e+00
##    [113,]  1.197872e+00  2.971305e-01  9.831275e-01  1.050481e+00
##    [114,] -3.430281e-01  1.464333e+00  1.281421e+00  2.272279e-01
##    [115,]  2.040864e-01 -1.081547e-01  8.272159e-01  1.347820e+00
##    [116,]  8.415068e-01  3.864625e-01 -6.510248e-02  1.590592e+00
##    [117,] -2.688166e-01  1.562494e+00 -4.449375e-01  6.795733e-01
##    [118,]  5.730210e-01  1.024414e+00 -1.355585e+00  2.884687e+00
##    [119,] -1.658157e-01 -9.627134e-01 -1.052952e+00  2.280059e+00
##    [120,]  5.888249e-01  3.346357e-02 -3.615233e-01  1.044444e+00
##    [121,]  1.217534e+00 -2.274327e-01 -2.198459e-01  2.843586e+00
##    [122,]  1.422860e+00  9.387173e-01 -1.986614e+00  1.172204e+00
##    [123,] -7.759056e-01  4.550238e-01 -1.847109e+00  8.636799e-01
##    [124,] -1.454244e+00 -8.548996e-01 -3.744450e-01  2.839151e+00
##    [125,]  1.057463e+00 -5.423422e-03 -1.660242e+00  4.795209e-01
##    [126,]  6.147361e-01  7.140383e-02 -1.306994e+00  3.159041e+00
##    [127,] -1.718783e+00 -1.276699e+00 -1.848376e-02  2.804940e+00
##    [128,]  6.366937e-01 -3.649341e-01  8.584121e-01  3.231166e+00
##    [129,] -2.566076e-01 -8.773089e-01 -4.897152e-02  2.608532e+00
##    [130,] -5.787877e-01  5.038186e-01 -1.256401e+00  7.881440e-01
##    [131,]  1.400798e+00  2.018412e-02  1.051038e+00  9.856025e-01
##    [132,] -6.646227e-02  1.134463e-01 -6.628271e-01  1.210481e+00
##    [133,] -8.187927e-01  4.764309e-01 -2.866226e-01  2.426002e-01
##    [134,] -9.338347e-01  1.348996e+00  1.463419e+00  8.388834e-02
##    [135,]  3.265861e-02 -8.634647e-01  1.018669e+00  1.051385e+00
##    [136,] -1.227245e+00  1.770431e+00  1.360458e+00  3.456244e-02
##    [137,]  9.585138e-02 -4.971971e-01  1.718287e-01  1.328760e+00
##    [138,]  1.464860e+00  1.333675e+00 -5.966746e-01  1.246844e+00
##    [139,]  6.362840e-01  2.143334e-02 -6.464012e-01  1.115662e+00
##    [140,] -1.088547e+00  3.409737e-01 -2.544071e-01  2.621129e-01
##    [141,] -1.545184e+00 -1.507543e-01  8.654162e-01  4.316482e-01
##    [142,]  1.161245e+00  3.290776e-01 -4.232587e-01  2.612296e+00
##    [143,]  1.268601e+00  3.931123e-02  7.163829e-01  6.425059e-01
##    [144,] -1.878437e-01 -5.892039e-01 -2.630927e-01  8.477463e-01
##    [145,]  5.547366e-01  7.255431e-02  1.087481e+00  8.681705e-01
##    [146,] -6.321951e-01  1.734081e+00 -1.980534e-01  8.175286e-01
##    [147,]  3.402026e-01 -5.480891e-01 -7.054571e-02  6.220731e-01
##    [148,]  3.529492e-01 -1.562109e-01  1.475403e+00  2.128870e-01
##    [149,]  1.317180e+00  1.166605e+00 -9.159061e-01  1.409201e+00
##    [150,] -3.483770e-01  2.895937e+00  3.916206e-02  7.186429e-01
##    [151,]  1.399974e+00  6.818724e-01 -6.333459e-01  1.117766e+00
##    [152,] -8.279833e-01 -5.624235e-01 -2.224674e-01  3.022707e+00
##    [153,]  1.153189e+00  1.984386e-01  2.847822e-01  9.313904e-01
##    [154,]  4.539876e-01  1.259421e+00 -7.794014e-01  1.104247e+00
##    [155,]  1.207073e+00 -6.935859e-01  1.239289e+00  6.834038e-01
##    [156,] -2.172779e+00  1.882372e+00  7.110100e-01  3.633083e+00
##    [157,] -9.731718e-02 -3.806104e-01 -1.674884e+00  1.257294e+00
##    [158,] -5.992105e-01  2.449378e+00 -1.492044e+00 -2.303939e-02
##    [159,]  2.628579e-01  3.903134e-01 -1.251835e+00  1.476021e+00
##    [160,] -1.358797e+00 -5.123757e-01 -1.225795e+00  1.521900e+00
##    [161,]  5.818376e-01 -2.164565e-01  8.427461e-01  1.006836e+00
##    [162,] -4.165343e-01  2.072812e-01 -2.119902e+00  3.426251e+00
##    [163,] -2.813555e-01  6.018824e-01  1.841647e-01  9.325288e-01
##    [164,]  1.069134e+00 -4.138725e-01  1.407123e+00  3.733281e-01
##    [165,] -1.100776e+00 -9.283460e-01 -1.541804e+00  4.626734e-01
##    [166,]  1.398170e-01  1.975830e-03  9.027068e-01  1.202833e+00
##    [167,] -1.501679e+00  7.312146e-01 -5.576804e-01  1.025702e+00
##    [168,] -7.732757e-01  1.597728e+00  5.634711e-01  2.318905e+00
##    [169,]  2.030831e-01 -1.060179e+00  2.113005e-01  2.162938e-01
##    [170,] -1.837943e+00 -6.429710e-01 -1.430623e+00  2.332994e+00
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##    [175,] -1.729027e+00  8.768274e-01  2.057659e-01  8.511343e-01
##    [176,]  3.557466e-01 -6.649326e-01 -5.256723e-02  6.379042e-01
##    [177,]  1.388766e+00  3.857626e+00 -1.610511e+00  1.528412e+00
##    [178,] -6.382216e-01 -4.342923e-01 -5.408403e-01  1.489258e+00
##    [179,]  1.148681e+00  4.328124e-01 -2.933092e-01  9.273409e-01
##    [180,]  1.212148e+00  6.772349e-01  1.003452e+00  8.753497e-01
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##    [181,] -1.721599e+00  1.476890e-01  1.307665e+00  5.014623e-01
##    [182,]  7.098768e-01 -4.316401e-01  3.590687e-01  1.278424e+00
##    [183,] -2.842451e-01  8.187388e-01  1.264641e+00  2.455127e+00
##    [184,]  2.472372e-01 -5.119832e-01 -4.342712e-01  3.216413e+00
##    [185,] -8.399417e-01  1.077425e+00  1.103726e+00  6.363154e-01
##    [186,] -1.828999e+00  2.101167e+00 -1.891773e+00  7.259299e-01
##    [187,] -7.381850e-01  1.153499e+00 -9.578493e-01  7.140027e-01
##    [188,] -1.297900e-01  4.394550e+00 -3.953646e-01  9.077838e-01
##    [189,] -7.726396e-01 -1.059975e+00 -1.490415e+00  2.653618e+00
##    [190,] -8.962630e-01 -1.872995e+00  5.186038e-01  2.265147e+00
##    [191,]  1.316748e+00  7.437202e-01 -2.878087e-01  9.584943e-01
##    [192,] -7.397366e-01  9.737828e-01 -7.103158e-01  1.154326e+00
##    [193,]  9.253300e-01 -3.116447e-01  1.450953e+00  3.059545e-01
##    [194,]  4.396864e-01  3.755396e+00  1.843279e-01  9.767514e-01
##    [195,]  1.323973e+00  7.046946e-01  4.333846e-02  8.340259e-01
##    [196,] -1.233973e+00  1.405733e-01  7.920783e-01  1.058398e-01
##    [197,] -2.252382e-01  1.224718e+00 -1.343859e-01  5.420949e-01
##    [198,] -7.152035e-02  7.626890e-01  8.789095e-01  1.150690e+00
##    [199,] -2.181789e+00  9.534521e-01  8.378999e-01  1.063257e+00
##    [200,] -8.892260e-02  3.396373e-01  1.150258e+00  2.805791e+00
##    [201,]  5.929442e-01 -6.281027e-01 -6.525023e-02  2.561855e+00
##    [202,]  1.638598e-02  7.262791e-02 -3.165723e-01  1.183234e+00
##    [203,]  6.651116e-01  1.267466e+00  7.740966e-01  1.730908e+00
##    [204,] -8.263429e-02  1.906907e+00  6.115472e-01  2.484010e+00
##    [205,] -1.690032e+00  2.736231e+00 -1.401104e+00  5.731107e-01
##    [206,]  4.684382e-01 -3.813985e-01  1.264962e+00  6.908830e-01
##    [207,]  1.532455e-01  5.578593e-01  5.966776e-01  3.096707e+00
##    [208,]  6.296530e-01 -8.580902e-01  1.227667e+00  7.935268e-01
##    [209,] -1.782950e+00 -1.260029e-01  1.654417e+00 -1.095398e-01
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##    [211,] -1.166970e-01  1.001519e+00  1.173196e+00  2.619095e+00
##    [212,] -6.989901e-01  1.338047e-01  7.053106e-01  3.485392e+00
##    [213,]  5.839838e-01  4.163869e-02 -1.717764e+00  8.856814e-01
##    [214,] -6.376937e-01 -1.336556e-01 -1.643956e+00  1.253050e+00
##    [215,] -4.417533e-02  5.644332e-01  2.318653e-01  2.393976e+00
##    [216,] -8.597978e-02  5.764147e-01 -1.186209e+00  8.754855e-01
##    [217,] -1.374601e+00 -3.679028e-01 -3.750680e-01  5.965854e-01
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##    [222,] -8.301448e-01  2.640752e-01  2.843916e-02  5.032408e-01
##    [223,]  4.499949e-01 -7.390019e-02 -2.054591e-01  3.245237e-01
##    [224,] -1.479345e-01  1.035478e+00  3.175823e-01  1.176410e+00
##    [225,] -2.511362e-01 -1.955264e-02 -1.301733e+00  7.793163e-01
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##    [227,] -8.482613e-01 -1.689134e-01 -4.083722e-01  9.946333e-01
##    [228,]  5.862589e-01 -2.999010e-01 -1.660235e+00  2.526800e+00
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##    [230,] -1.347271e+00  4.241074e-01 -6.686230e-01  3.900482e+00
##    [231,]  5.618611e-01  2.591139e-01 -3.227056e-01  2.794416e+00
##    [232,]  1.188385e+00 -3.106147e-02  1.188011e+00  2.679591e+00
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##    [234,] -1.994258e-01 -6.206697e-01 -1.796616e+00  2.801499e+00
##    [235,]  8.106545e-01  1.810872e+00 -7.430262e-01  1.617330e+00
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##    [237,]  4.290951e-01  2.524593e-01  1.343825e+00  3.687128e-01
##    [238,] -2.466511e-01  1.173817e+00  1.259146e+00  4.913620e-01
##    [239,]  5.005359e-01 -4.031581e-01 -7.493219e-01  5.129713e-01
##    [240,]  4.154263e-01 -3.850063e-01 -1.243936e-01  2.235159e+00
##    [241,] -9.211895e-01  1.897387e+00 -1.543555e+00  4.426015e-01
##    [242,] -2.041497e+00  2.295240e+00  7.984310e-01  1.517617e+00
##    [243,] -2.292734e+00  9.836687e-01 -1.788515e-01  2.467840e+00
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##    [247,]  1.302307e+00 -2.615324e-02 -1.630123e+00  1.083781e+00
##    [248,] -5.786525e-01  1.163796e+00 -2.996995e-01  1.080048e+00
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##    [250,]  7.551455e-01  1.461772e+00 -7.009137e-01  1.277250e+00
##    [251,]  1.293523e+00  1.245287e-01 -4.607619e-01  1.083890e+00
##    [252,]  7.645941e-02  1.161891e+00 -2.866218e-01  1.338671e+00
##    [253,]  5.035301e-01  1.128535e+00 -2.595506e-01  6.571337e-01
##    [254,] -1.056697e+00  2.337563e+00 -4.008584e-01  2.235903e-01
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##    [259,]  3.425223e-01  3.518639e-01  1.284544e+00  4.016202e-01
##    [260,] -3.229914e-01  3.003240e-01  3.954435e-01  6.841057e-01
##    [261,] -1.149886e+00 -3.663769e-01 -1.520447e+00  1.806224e+00
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##    [270,] -1.818054e+00 -8.676922e-01 -5.181845e-01  8.256385e-01
##    [271,] -1.269744e+00 -1.040186e+00 -1.644863e+00  3.285015e+00
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##    [273,]  1.388811e+00  1.949192e+00 -1.489301e+00  1.105450e+00
##    [274,] -5.513994e-01 -3.293343e-01  7.670529e-01  1.517541e+00
##    [275,] -5.674672e-02  2.468778e-01 -5.782848e-01  3.063930e+00
##    [276,] -7.491206e-02 -6.929575e-01 -1.436892e+00  2.644312e+00
##    [277,] -1.426180e-03  4.745023e-02  9.611505e-01  1.168839e+00
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##    [282,]  4.420939e-01  4.643882e-01  1.154707e+00  2.505563e+00
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##    [284,] -1.191625e-01 -5.736139e-01 -3.974215e-01  7.635743e-01
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##    [287,]  1.325368e+00  9.147478e-01  3.158636e-02  1.232813e+00
##    [288,] -1.022003e+00  1.988499e+00 -1.387570e+00  2.050385e+00
##    [289,]  1.196236e+00  6.110467e-01 -3.583295e-01  2.469509e+00
##    [290,] -3.642183e-01 -1.311315e+00 -1.318852e-01  4.728577e-01
##    [291,]  9.338367e-01 -1.190191e+00  1.618750e+00  2.054541e+00
##    [292,]  5.725637e-01 -4.974143e-01 -1.894298e-01  9.136636e-01
##    [293,] -2.012826e-01  1.474920e+00  5.460891e-02  5.543329e-01
##    [294,] -1.417138e+00 -5.809340e-01 -5.270415e-01  1.185211e+00
##    [295,]  1.218013e+00  2.734022e-01  9.864148e-01  9.763297e-01
##    [296,]  1.278453e+00  5.536274e-01  8.834594e-01  1.151680e+00
##    [297,]  1.400392e-01  3.490286e+00  7.072067e-01  9.952689e-03
##    [298,] -1.158287e+00  6.585676e-01  1.459910e+00  5.490004e-02
##    [299,]  2.783089e-02 -3.016094e-01  8.798312e-01  1.430027e+00
##    [300,]  1.208797e+00  9.713235e-02  3.686425e-01  2.858408e+00
##    [301,]  4.418263e-01 -5.896432e-01  1.259127e+00  6.254623e-01
##    [302,] -2.226584e-01 -1.327975e+00 -2.295766e-01  2.692809e+00
##    [303,]  3.898168e-01 -1.144276e+00 -1.347395e-01  3.667533e-01
##    [304,] -1.403640e+00 -1.895112e+00 -1.636861e-01  1.056420e+00
##    [305,] -7.257874e-01 -5.307617e-01 -4.978494e-01  1.468387e+00
##    [306,] -3.909569e-01 -9.994895e-01 -1.360471e+00  2.244191e+00
##    [307,] -1.196945e-01 -7.151114e-01  5.304483e-01  3.022638e+00
##    [308,] -2.738158e-02 -3.286385e-01  8.586629e-01  3.318867e+00
##    [309,]  8.485434e-01  6.429835e-01 -5.008136e-02  3.229527e+00
##    [310,]  1.257965e+00  8.638474e-01 -1.889915e+00  9.049300e-01
##    [311,] -2.330474e+00  5.848384e-01 -1.652759e+00  8.365470e-01
##    [312,] -1.530979e-01 -7.354639e-01  2.380838e-01  2.923507e+00
##    [313,]  6.868296e-01 -1.029522e-02 -5.195330e-01  1.147911e+00
##    [314,]  4.193611e-01  8.978838e-01  1.101693e+00  6.565060e-01
##    [315,]  4.981093e-01  2.102707e-01  1.154868e+00  6.375063e-01
##    [316,]  1.149265e+00  1.525684e+00  3.198794e-01  1.074696e+00
##    [317,] -7.529274e-01 -1.709633e+00  1.541328e+00  2.430245e+00
##    [318,] -1.525173e+00  1.144515e+00  8.534345e-01  1.119511e+00
##    [319,]  1.336361e+00 -7.187172e-02 -1.223886e-01  1.169764e+00
##    [320,] -1.707057e+00  1.581852e+00 -1.889243e+00  6.662400e-01
##    [321,] -1.466952e+00 -1.776196e+00 -9.044047e-01  8.640862e-01
##    [322,]  6.316676e-01 -4.193034e-01 -6.638442e-01  2.661437e+00
##    [323,] -1.642210e+00  1.220784e+00 -9.526467e-01  1.103803e+00
##    [324,] -1.562191e+00  2.703124e-01  1.323600e+00  2.499277e+00
##    [325,] -2.060166e+00  6.365468e-01  1.310508e-01  2.939436e+00
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##    [327,] -9.733887e-01 -6.612198e-02  4.309849e-01  1.232298e+00
##    [328,] -7.202549e-01  1.101030e+00  1.149435e+00  2.711882e+00
##    [329,] -2.235309e+00  1.733856e-01 -5.336500e-01  1.484636e+00
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##    [331,]  6.329696e-01  3.020993e-01  8.886832e-01  1.196133e+00
##    [332,] -1.170241e+00 -8.114815e-01  6.499668e-01  1.792674e+00
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##    [334,]  9.569637e-01  3.075810e+00  9.166930e-01  2.460259e-01
##    [335,]  2.011228e-02  7.085286e-01 -6.983012e-01  7.207201e-01
##    [336,] -4.955041e-01 -6.873541e-01 -1.273617e+00  1.323853e+00
##    [337,]  1.003685e+00  2.259987e-01  1.212816e+00  5.825958e-01
##    [338,] -2.354259e+00  1.031522e+00 -2.120092e+00  1.263996e+00
##    [339,] -1.499182e-01 -4.682962e-01  1.159883e+00  2.824216e+00
##    [340,] -1.161450e+00 -1.006543e+00 -4.291981e-01  2.466260e+00
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##    [342,] -1.829383e+00  1.162272e+00  1.043862e+00  7.164731e-01
##    [343,] -1.476534e+00  1.842988e-01  1.075157e+00  8.944363e-01
##    [344,]  6.694139e-01  1.489921e+00  7.726360e-01  1.605700e+00
##    [345,] -1.556461e-01 -1.656650e+00  3.492696e-01  2.065853e+00
##    [346,] -2.065192e-01 -5.893790e-01 -6.549687e-02  2.800962e+00
##    [347,]  1.450842e+00 -1.738460e-02  8.859776e-01  1.239430e+00
##    [348,]  1.226123e+00  1.218916e-01  1.090801e+00  9.447303e-01
##    [349,] -1.330632e+00  2.881302e-02 -9.812029e-01  7.227470e-01
##    [350,]  2.566952e-01 -6.397996e-01 -1.605578e-01  3.614317e-01
##    [351,] -7.152970e-01  5.300518e-02 -1.768014e+00  1.090113e+00
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##    [353,]  1.112793e+00  7.096591e-01  1.127331e+00  7.514282e-01
##    [354,] -6.310159e-01  3.363868e-01 -3.595440e-01  1.023218e+00
##    [355,] -1.620774e+00 -4.125355e-01  9.248112e-01  6.591498e-01
##    [356,]  6.349894e-01  1.134153e+00 -1.433933e+00  2.887215e+00
##    [357,] -1.915345e+00 -9.203754e-01  2.678158e-01  1.985187e+00
##    [358,]  6.744247e-01 -3.073576e-01 -1.586592e-01  2.778210e+00
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##    [360,] -1.268786e-01  4.357285e-02 -4.446516e-01  7.112448e-01
##    [361,] -4.510578e-01  2.808540e+00 -3.018006e-01  2.376436e+00
##    [362,] -1.602263e-01  1.700117e+00 -1.202594e+00  4.127611e-01
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##    [364,]  3.259164e-01 -9.832012e-01  1.776460e-01  2.118620e+00
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##    [370,]  9.208026e-01  2.386537e+00 -4.804149e-01  5.647200e-01
##    [371,]  4.756149e-01  1.730236e+00 -7.746397e-01  1.179252e+00
##    [372,]  4.611874e-01  8.240061e-01 -5.046071e-01  6.917802e-01
##    [373,]  1.281975e+00 -6.151870e-02 -1.281378e+00  2.501310e+00
##    [374,] -1.660461e+00  6.254640e-02  1.476709e+00  2.075063e-01
##    [375,] -7.798462e-01  1.232176e+00 -3.385485e-01  2.259700e+00
##    [376,] -1.607769e+00  7.070527e-01  4.647948e-01  1.358968e-01
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##    [377,]  1.370559e-01  1.759352e-01  9.513654e-02  1.157102e+00
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##    [379,]  1.141548e+00 -6.757397e-01  1.296097e-01  1.477190e-01
##    [380,]  4.542166e-01  5.266768e+00  1.266329e+00  2.618101e+00
##    [381,]  1.399689e+00  7.047541e-01  9.566257e-01  1.066099e+00
##    [382,] -2.327191e+00  7.936024e-01  8.346309e-01  1.352659e+00
##    [383,]  8.966366e-03  8.941896e-01  8.413322e-01  1.194224e+00
##    [384,] -1.539657e+00 -1.303050e+00 -3.376150e-01  3.267469e+00
##    [385,]  8.660231e-01  6.374564e-02  1.104781e+00  2.033627e-01
##    [386,]  2.072849e-01  2.211061e+00  1.390667e+00  7.886244e-02
##    [387,]  1.281524e+00  5.555607e-01  1.028795e+00  9.942110e-01
##    [388,] -6.030663e-01  1.364875e+00  8.654679e-01  1.206900e+00
##    [389,] -5.855770e-01  1.348547e-01 -1.045086e-01  1.453423e+00
##    [390,]  8.715283e-01  7.103545e-01 -8.767768e-01  1.471401e+00
##    [391,] -8.307366e-01  2.131534e+00  3.393742e-02  9.029911e-01
##    [392,] -1.722007e+00  1.527140e+00  6.222442e-01  2.231792e-01
##    [393,] -1.228274e+00  8.761348e-01 -4.404164e-01  1.132006e+00
##    [394,]  6.217973e-01 -8.924851e-01  8.364876e-01  2.495628e+00
##    [395,]  1.130957e+00 -3.205960e-02  9.649630e-01  8.341021e-01
##    [396,]  1.108431e+00  3.673891e-02 -8.662101e-01  6.405408e-01
##    [397,]  7.350391e-01 -3.565422e-01 -9.275653e-01  2.824923e+00
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##    [399,]  2.753380e-02 -3.964202e-01  8.537766e-01  3.286000e+00
##    [400,] -5.152233e-01 -5.071167e-01  1.506838e-03  2.041419e+00
##    [401,] -2.622623e+00  1.839093e-01  1.495442e+00  2.004359e+00
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##    [403,] -1.397253e+00 -8.709901e-01  3.617702e-01  1.414514e+00
##    [404,]  6.483249e-01  4.594857e-01 -3.321117e-01  1.182111e+00
##    [405,]  7.927299e-01  1.151245e+00  3.901082e-01  1.237556e+00
##    [406,]  7.192014e-01 -4.002454e-01 -1.423317e+00  9.084810e-01
##    [407,] -1.918336e-01 -1.617665e-01 -1.630690e+00  5.006879e-01
##    [408,]  1.149986e+00 -8.764177e-01  1.340362e+00  2.489374e+00
##    [409,] -7.081060e-01 -4.316184e-02  8.149495e-01  1.388363e+00
##    [410,] -1.176993e-01 -7.639661e-01  1.267141e+00  6.755464e-01
##    [411,]  2.930343e-01  2.356944e+00 -1.056696e-01  6.212453e-01
##    [412,]  6.223009e-01 -1.051065e+00  1.303147e+00  6.688457e-01
##    [413,] -6.335273e-01 -8.055960e-02 -1.815958e+00  1.500718e+00
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##    [416,]  2.682262e-01  2.628677e+00 -3.652299e-01  2.142570e+00
##    [417,] -5.241307e-01  8.246945e-01 -6.762707e-01  3.236729e+00
##    [418,]  5.889362e-01  3.255004e-01  5.736511e-01  1.298310e+00
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##    [420,] -9.684156e-01 -6.459208e-02 -4.396578e-01  9.369909e-01
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##    [422,]  3.325689e-01  5.485238e-01  1.246821e+00  4.971626e-01
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##    [424,] -1.492321e+00  9.603289e-01  3.061788e-01  9.203394e-01
##    [425,] -8.034016e-01  3.413045e+00  1.045016e+00  3.224795e+00
##    [426,] -1.124708e+00  9.318171e-01 -1.435651e+00  2.261040e+00
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##    [436,] -2.409043e+00  1.066111e+00 -1.943529e-01  1.168802e+00
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##    [470,] -8.389486e-01  1.409774e+00  1.242898e+00  2.369455e+00
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##    [480,] -4.199515e-01 -1.516445e+00 -1.373597e+00  2.999812e-01
##    [481,]  1.024644e+00  5.147619e-01 -1.289258e-01  2.302009e+00
##    [482,] -1.320347e+00  5.637810e-01 -5.042655e-01  2.857188e+00
##    [483,] -1.397602e+00 -5.479681e-01  9.409055e-01  1.262263e+00
##    [484,]  1.235489e+00  2.974950e+00 -5.312370e-01  3.036241e+00
##    [485,]  6.693617e-01 -3.233889e-01 -3.819633e-01  1.096617e+00
##    [486,]  1.564891e+00  1.278551e+00  7.961252e-01  1.426473e+00
##    [487,]  5.038217e-01 -1.243813e-01 -1.302381e+00  5.927395e-01
##    [488,]  1.185480e+00  9.589749e-01  9.751309e-01  9.659070e-01
##    [489,] -9.233994e-01 -5.679630e-01  3.842210e-01  7.415966e-01
##    [490,] -6.490626e-01 -2.643302e-01 -4.094726e-01  1.031320e+00
##    [491,]  4.182082e-01 -6.069002e-01 -4.432830e-01  7.228914e-01
##    [492,]  6.812033e-01  2.515442e-01 -6.719760e-01  1.142044e+00
##    [493,] -4.247419e-02 -6.415861e-01 -1.469782e+00  2.625008e+00
##    [494,]  1.135989e-01 -1.499550e-01 -1.738145e+00  1.373186e+00
##    [495,] -5.071517e-02  6.018302e-01  1.220980e+00  6.110237e-01
##    [496,]  7.260253e-01  2.632228e-01 -4.201065e-01  1.113725e+00
##    [497,] -8.525114e-01  4.961447e-01  4.842245e-01  3.522513e-01
##    [498,] -1.554413e+00  3.325533e+00  7.891015e-01  7.592274e-01
##    [499,]  8.116000e-01 -9.821110e-01  1.363238e+00 -1.327266e-01
##    [500,]  1.072265e+00  5.637299e-01  1.235498e+00  4.478396e-01
##    [501,]  2.703939e-02 -5.555801e-01 -1.727725e+00  1.004181e+00
##    [502,]  8.292809e-01  1.327977e+00  1.325473e+00  2.170244e-01
##    [503,] -1.104334e+00  4.122584e-02  1.307930e+00  2.296065e+00
##    [504,]  7.333778e-02  6.927934e-01 -5.854369e-01  1.038902e+00
##    [505,]  3.966184e-01 -8.199396e-01  1.426470e+00  3.287470e-01
##    [506,] -7.189124e-01 -6.921112e-02 -1.117111e+00  8.740277e-01
##    [507,]  1.594820e+00  1.680068e+01  1.377633e+00  4.360401e+00
##    [508,] -1.569363e-03  1.147726e+00 -2.521638e-01  7.801035e-01
##    [509,] -9.630738e-01  2.032425e+00 -8.230418e-02  1.340805e-01
##    [510,] -1.361593e+00  5.434086e-01  9.740406e-01  1.182134e+00
##    [511,]  1.046152e+00  2.030066e+00  1.147672e+00  2.387730e+00
##    [512,] -7.546852e-01 -1.189635e+00  1.143923e+00  2.952622e+00
##    [513,] -6.354344e-01 -1.785593e-01 -1.363930e+00  1.290476e+00
##    [514,] -4.668046e-01  1.335597e+00 -2.890336e-01  3.799801e-01
##    [515,]  3.953806e-01  3.159002e-01  3.525597e-02  2.373366e-01
##    [516,] -6.193593e-01 -5.258517e-01 -1.966815e+00  3.093804e+00
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##    [521,] -1.235163e+00 -1.017356e-01  5.286788e-01  1.932353e+00
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##    [526,] -1.622222e+00  2.094607e+00 -2.435287e-01  2.108946e+00
##    [527,]  7.032359e-01  3.497512e-01 -4.236032e-01  1.076361e+00
##    [528,] -1.026968e+00  1.790019e+00 -7.537597e-02  1.955540e-01
##    [529,] -1.468425e+00  1.144963e+00  9.958938e-01  1.007764e+00
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##    [531,] -1.188934e+00 -5.946318e-02  1.379834e+00  2.427534e-01
##    [532,]  5.552731e-01  4.624410e-01 -2.903791e-01  1.150929e+00
##    [533,]  1.002514e+00  9.835322e-01  1.513891e+00  4.657371e-02
##    [534,]  4.045508e-01 -1.478900e-01  3.726502e-01  5.141210e-01
##    [535,] -1.585698e+00  7.598657e-01 -1.374126e+00  6.258622e-01
##    [536,] -1.642849e+00 -1.962627e+00 -2.614089e-01  8.408487e-01
##    [537,]  9.389808e-01  8.335569e-01 -5.196160e-03  3.932070e-01
##    [538,]  6.717028e-01  7.165384e-02  1.213236e+00  2.688489e+00
##    [539,]  1.005158e+00 -8.420881e-03  1.381604e+00  3.358106e-01
##    [540,] -1.391000e+00 -1.047590e+00  9.322394e-01  3.269943e+00
##    [541,] -3.702387e-01 -8.897645e-01 -1.418426e+00  5.261301e-01
##    [542,] -7.794779e-01 -3.493600e-01 -1.807732e+00  3.151730e+00
##    [543,] -4.501730e-01 -1.090494e-01 -7.289709e-01  3.333139e+00
##    [544,] -1.926807e-01  1.056687e+00  4.333194e-01  1.049305e+00
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##    [546,]  1.041686e-01  2.047898e+00 -1.681840e-01  2.821723e+00
##    [547,] -7.466097e-01  1.004197e+00  1.270835e+00  4.949372e-01
##    [548,] -1.258914e+00 -2.435419e-02  1.022709e-01 -1.837314e-01
##    [549,]  6.552709e-02 -3.349011e-01 -1.312619e+00  1.250401e+00
##    [550,] -9.230304e-01  3.840018e-02 -2.136831e-01  1.034975e+00
##    [551,] -2.969329e-01  6.206544e-01  1.368480e+00  2.692717e-01
##    [552,]  1.470497e-01  3.381974e-01 -6.509170e-01  1.509660e+00
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##    [558,]  6.504398e-01 -2.234564e-01 -1.608873e+00  7.390594e-01
##    [559,] -1.666973e+00  4.563174e-01  3.806587e-01  2.042356e-01
##    [560,] -1.631358e+00 -2.194085e+00  1.560981e+00  2.319869e+00
##    [561,] -8.590375e-01  1.393104e+00  1.203799e+00  4.881170e-01
##    [562,]  2.319250e-01  6.749915e-02 -1.459082e+00  2.907783e-01
##    [563,]  3.793302e-01  2.192932e-01  8.101063e-01  4.721271e-01
##    [564,] -8.447048e-01 -8.332512e-01 -3.360879e-01  1.101722e+00
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##    [567,]  3.680600e-01  5.769727e-01  2.977228e-01 -1.956386e-01
##    [568,]  7.338899e-01  7.771965e-01  6.433270e-01  1.142857e+00
##    [569,] -1.784230e-01  1.237433e-01  1.330327e+00  4.799193e-01
##    [570,]  3.298301e-01 -6.291861e-01  7.982684e-01  5.284996e-01
##    [571,] -2.149931e+00  2.715768e-01  9.389643e-01  1.281884e+00
##    [572,] -5.683074e-01 -2.957427e-01  8.351701e-01  3.317111e+00
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##    [574,]  8.807748e-01  7.316401e-01  1.378836e+00 -3.434787e-02
##    [575,]  6.773147e-01 -4.377991e-01 -7.565468e-04  1.006037e+00
##    [576,]  1.084097e+00 -5.852113e-01  1.340184e+00  5.748525e-01
##    [577,] -1.496363e-01  3.896671e-01 -1.267024e-01  5.829971e-01
##    [578,]  1.200870e+00  6.323786e-01  1.099207e+00  7.537203e-01
##    [579,]  1.226313e+00  2.513007e-01  2.534489e-03  2.724449e+00
##    [580,]  1.081058e+00  2.568903e+00  1.358758e+00  2.421482e+00
##    [581,]  3.436100e-01 -1.921043e-01 -9.213485e-02  2.417712e+00
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##    [583,] -1.678821e+00 -1.420640e+00 -5.591245e-01  1.258954e+00
##    [584,]  1.417837e+00 -3.085266e-01 -2.884250e-01  9.186592e-01
##    [585,]  1.091260e+00  2.415489e-01  2.366508e-01  4.088455e-01
##    [586,] -1.242839e+00  1.661822e+00  1.386156e+00 -1.300633e-02
##    [587,]  6.901955e-01  8.981227e-01  1.198798e+00  2.789815e+00
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##    [591,] -8.849209e-02  2.206916e-01 -1.920353e+00  3.124169e+00
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##    [594,] -3.189469e+00  5.099274e-01 -1.201735e+00  3.433143e-01
##    [595,]  4.465733e-01  9.014261e-01  1.018330e+00  9.936001e-01
##    [596,] -2.457488e+00  7.114200e-01  4.529179e-02  9.637587e-01
##    [597,]  1.191052e+00  4.905831e-01 -1.170306e-01  7.927992e-01
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##    [604,]  5.441728e-01 -2.457723e-01 -2.417378e-01  1.073935e+00
##    [605,] -7.853667e-01  1.992755e-01  1.330283e-01  3.251939e+00
##    [606,]  3.476824e-01  4.139630e-01 -1.483705e+00  4.084289e-01
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##    [610,]  1.308602e+00  5.656697e-01 -2.620982e-01  7.577415e-01
##    [611,]  1.246819e+00  5.426106e-01  8.913467e-01  1.134158e+00
##    [612,]  9.590425e-01  4.010766e+00 -7.832146e-01  3.809783e+00
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##    [616,] -3.823744e-02  6.298269e-01 -3.817550e-01  8.105214e-01
##    [617,]  9.806419e-01  2.921324e-01 -1.062566e+00  2.793294e-01
##    [618,] -3.479676e-01 -2.946080e-03  1.522602e+00  2.507365e-02
##    [619,] -1.430452e+00 -7.714629e-01 -1.941523e+00  1.517738e+00
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##    [622,] -1.345484e+00  2.078372e+00 -1.443492e+00 -1.435652e-01
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##    [631,]  7.239448e-01 -1.767396e-01 -5.345568e-01  9.269239e-01
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##    [634,] -1.754385e+00  1.342432e-01 -3.204392e-01  3.886892e-01
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##    [648,]  5.095649e-01  1.151055e+00  9.550216e-01  3.012154e+00
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##    [651,]  8.006670e-01  1.373863e+00  1.533174e+00 -3.292173e-01
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##    [671,]  1.162697e+00  1.444854e+00  4.405695e-01  5.027225e-01
##    [672,] -8.948746e-01  1.071740e+00 -1.249451e+00  2.684541e+00
##    [673,]  5.597343e-01  1.116214e+00  8.685521e-01  1.073279e+00
##    [674,]  1.147367e-01  2.765887e-01  2.660426e-01  1.357749e+00
##    [675,]  5.912278e-01 -3.856374e-01 -3.880971e-01  9.162122e-01
##    [676,] -2.300058e+00  9.139633e-02  9.146187e-01  3.181457e+00
##    [677,] -6.181426e-01 -1.200085e+00  1.019772e+00  3.088809e+00
##    [678,] -2.818968e+00 -2.542186e-01 -2.998305e-02  1.157265e+00
##    [679,]  5.431295e-01  5.210430e-01 -3.388848e-01  2.948578e+00
##    [680,]  4.979808e-02  1.761626e-01 -4.667992e-01  1.714490e+00
##    [681,] -6.963957e-01  6.983644e-01  9.751044e-01  1.233658e+00
##    [682,] -9.535336e-01 -7.133200e-01  1.002725e+00  8.972731e-01
##    [683,] -2.400247e+00 -1.342975e-01  1.010137e+00  1.080130e+00
##    [684,]  5.899061e-01  4.120816e-01  1.093627e+00  2.663842e+00
##    [685,]  1.440744e-01  1.818151e-02  8.939942e-01  1.215441e+00
##    [686,] -1.481497e+00 -1.202020e+00  8.236324e-01  3.465783e+00
##    [687,] -7.805302e-01  2.916445e-01 -1.558425e+00  1.717198e+00
##    [688,]  5.794542e-01  8.427367e-01  5.212010e-01  9.247944e-01
##    [689,] -9.871605e-01 -6.844943e-01 -8.140999e-01  1.113265e+00
##    [690,] -9.802647e-01  1.085051e+00  9.970005e-01  8.705742e-01
##    [691,] -8.696708e-02 -1.054646e-01 -1.745515e+00  1.322353e+00
##    [692,] -1.706220e+00 -1.363807e+00 -1.441872e+00  7.568962e-01
##    [693,] -7.989611e-01 -1.060397e+00  1.196506e+00  2.856402e+00
##    [694,] -1.079039e-02  8.873828e-02 -6.026795e-01  9.984070e-01
##    [695,] -9.259835e-01  1.389763e+00 -1.290487e-01  3.841459e-01
##    [696,]  1.218606e+00  1.132480e+00  5.749139e-03  9.848778e-01
##    [697,]  1.411569e+00  7.172969e-01  1.050034e+00  1.095224e+00
##    [698,]  1.167373e+00  1.639225e-01  8.693322e-01  6.000446e-01
##    [699,] -1.198353e+00  3.246099e-01  4.244936e-01 -3.691565e-01
##    [700,] -7.774715e-01 -6.672971e-01 -1.570261e+00  2.459802e+00
##    [701,] -1.535441e+00 -2.207722e-01  1.150790e+00  8.961813e-01
##    [702,] -2.836258e-01 -3.740110e-01 -1.120694e+00  8.311886e-01
##    [703,]  4.416135e-01 -6.444155e-01 -1.371551e+00  7.556510e-01
##    [704,] -1.718121e+00  2.282329e-01  1.330197e+00  2.360537e+00
##    [705,]  6.309507e-01  8.485166e-01 -1.674923e+00  1.131689e+00
##    [706,]  8.688229e-02 -6.951922e-01  1.775506e-01  2.983459e+00
##    [707,]  5.275993e-01 -5.925309e-01 -1.609369e+00  2.520810e+00
##    [708,]  1.971225e-01 -4.131700e-01 -2.005622e+00  1.216682e+00
##    [709,] -2.706966e-01  9.861226e-01  9.593740e-01  1.950275e+00
##    [710,] -2.505883e+00 -1.043362e+00 -1.826806e+00  3.624844e+00
##    [711,] -1.700827e+00  2.147490e+00 -2.645139e-01  2.314290e+00
##    [712,]  1.159234e-01 -1.578809e-01  9.429082e-01  1.130132e+00
##    [713,] -1.217438e+00  6.770628e-01  1.038525e+00  7.943849e-01
##    [714,] -2.042231e-01 -1.032635e+00 -8.247167e-01  7.654605e-01
##    [715,]  3.931480e-01 -4.155469e-01 -9.857767e-01  3.100245e-01
##    [716,] -1.925065e+00 -6.974552e-02  1.708431e+00 -2.287939e-01
##    [717,]  7.709860e-01  8.961016e-01 -6.620392e-01  1.141912e+00
##    [718,] -2.695261e-01 -2.101502e-01 -1.754444e+00  8.241796e-01
##    [719,] -1.538631e+00  1.560723e+00  7.561488e-01  1.894561e+00
##    [720,] -9.722807e-01  3.663565e+00  7.658332e-01  1.516131e-01
##    [721,] -1.854663e-01 -6.545769e-01  1.104245e+00  9.059598e-01
##    [722,] -3.151978e-01  2.613588e+00  1.307472e+00  2.253355e+00
##    [723,] -1.751370e-01  6.227439e-01 -1.681883e+00  6.083223e-01
##    [724,]  7.856151e-01  2.549061e+00  1.229895e+00  2.530247e-01
##    [725,]  1.450600e+00  1.922551e-01  8.851628e-01  1.191806e+00
##    [726,] -3.459598e-01  2.806150e-01  1.383604e+00  3.539548e-01
##    [727,] -1.549504e+00  1.233011e-01  5.766460e-01  8.930904e-01
##    [728,] -1.920884e-01  1.399021e+00 -3.536542e-01  8.092272e-01
##    [729,]  1.868526e-01 -2.830400e-01  8.765211e-01  2.447159e-01
##    [730,] -1.260978e-01  4.457824e-02  1.078014e+00  2.936948e+00
##    [731,] -9.882140e-01 -1.105268e+00  3.550698e-01  2.874367e+00
##    [732,] -1.447235e+00  5.169340e-01 -1.123640e+00  1.168129e+00
##    [733,]  1.091709e+00  1.409374e-01  1.361753e+00  5.239492e-01
##    [734,]  9.902516e-01  3.471048e+00  1.202102e+00  4.120933e-01
##    [735,] -1.355504e+00  1.677388e+00  8.444436e-01  1.540131e+00
##    [736,] -6.501855e-01 -1.193828e+00 -6.005231e-01  2.976188e+00
##    [737,]  9.097553e-01 -2.864029e-01  1.452241e+00  1.890233e+00
##    [738,]  1.232184e+00 -3.497113e-01 -1.373631e+00  2.347572e+00
##    [739,] -1.184468e-01 -9.500854e-01 -1.966837e-01  2.843205e+00
##    [740,] -2.856634e-01 -1.383651e+00  1.284992e+00  7.303375e-01
##    [741,] -1.378991e-01  3.432418e-01  1.097902e+00  7.753055e-01
##    [742,] -8.294598e-01 -2.918863e-01 -1.659348e+00  1.151211e+00
##    [743,] -1.190889e+00  1.547370e+00 -1.068026e+00  1.922372e-01
##    [744,] -7.876856e-01  4.455252e-01  7.896981e-01  1.275972e+00
##    [745,] -2.882504e+00  1.131669e-01  4.844165e-01  1.080089e+00
##    [746,] -7.414910e-01 -5.722344e-01  3.408682e-01  1.750869e+00
##    [747,]  4.075247e-01  2.569779e+00  1.064958e+00  2.740117e-01
##    [748,] -1.795664e+00  1.031057e+00 -1.878545e-01  2.193423e+00
##    [749,] -1.349411e-02  1.618391e+00 -4.617181e-01  1.220071e+00
##    [750,] -6.129090e-01  3.749694e-01  4.969147e-01  9.450270e-01
##    [751,]  5.969765e-01  5.320063e-01  1.042994e+00  7.801244e-01
##    [752,] -1.689201e+00 -2.004996e-01  1.160283e+00  8.528816e-01
##    [753,]  7.336656e-01  5.906337e-01 -5.491468e-01  1.404138e+00
##    [754,]  8.881455e-01  1.429963e+00  1.189608e+00  3.878987e-01
##    [755,] -2.005127e-01 -6.375892e-01 -4.188859e-01  8.067200e-01
##    [756,] -1.393309e+00  8.060808e-01 -6.919605e-01  1.117953e+00
##    [757,]  4.452457e-01  1.706051e+00  1.112652e+00  2.689781e-01
##    [758,] -1.399058e+00 -1.202331e+00  9.659152e-01  1.376778e+00
##    [759,]  2.624389e-01 -3.331076e-01  8.025854e-01  1.455016e+00
##    [760,] -1.199754e+00  2.487280e+00  5.516963e-02  2.523316e-01
##    [761,] -1.320342e-01 -5.517751e-01 -1.252684e+00  2.812300e+00
##    [762,] -2.136586e+00  2.470822e+00  3.045656e-02  1.102845e+00
##    [763,]  1.013893e+00 -5.880374e-01 -1.540753e-01  3.554884e-01
##    [764,] -5.375038e-01  1.958943e+00  1.298183e+00  1.284399e-01
##    [765,]  6.812051e-01  8.142877e-01 -4.438062e-01  9.499648e-01
##    [766,] -3.934865e-01  2.694749e-01 -2.488254e-01  4.329778e-01
##    [767,] -4.146553e-01 -1.114707e+00  2.073673e-01  4.032937e-01
##    [768,]  1.203690e+00 -4.604486e-01 -3.758735e-01  7.051316e-01
```

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##    [769,]  6.362919e-01  6.017054e-01  1.153600e+00  2.678085e+00
##    [770,] -1.070967e+00  2.796321e+00 -1.170668e-02  2.281390e+00
##    [771,] -1.625168e-01 -2.271645e-01 -1.880951e+00  9.401568e-01
##    [772,] -1.387163e-01  2.509320e+00 -7.365784e-01  1.067274e+00
##    [773,]  4.282506e-01 -7.097373e-01  1.453604e+00  2.243775e+00
##    [774,]  9.648807e-02  7.196692e-02 -1.577197e-01  2.878258e+00
##    [775,]  1.252306e+00  3.384391e-01  1.148146e+00  8.165193e-01
##    [776,] -2.053470e+00  1.421570e-01  1.432980e+00  2.395488e+00
##    [777,]  4.359541e-01  8.990098e-01 -1.919477e-01  7.020733e-01
##    [778,] -7.485441e-01  5.689333e-01  1.211205e+00  6.433116e-01
##    [779,] -1.766655e-01  2.142766e+00 -1.993636e-01  6.508993e-01
##    [780,]  7.553450e-01  1.415503e+00 -2.107004e+00  1.347007e+00
##    [781,]  8.694009e-01  4.414702e-01 -7.941760e-01  3.273077e+00
##    [782,] -2.961650e+00 -4.027700e-01 -5.160575e-01  8.212511e-01
##    [783,] -1.157107e-01 -8.888864e-01  1.332918e+00  2.600052e+00
##    [784,]  1.266753e+00  2.317678e+00  1.014577e+00  8.383365e-01
##    [785,]  1.315919e+00  3.177026e-01 -3.251961e-01  2.953313e+00
##    [786,] -3.037565e-01  1.994537e-01 -9.875181e-02  3.203311e-01
##    [787,] -1.948807e+00  5.121766e-01  2.598621e-02  2.535584e-01
##    [788,] -1.350886e+00  1.424198e-01 -5.693446e-01  4.077111e+00
##    [789,] -7.146640e-01  7.029205e-01 -8.041646e-01  3.420124e+00
##    [790,] -8.915537e-01  1.887867e-01 -7.618204e-01  1.426780e+00
##    [791,]  6.533023e-01 -3.667672e-01 -2.330516e-01  8.593845e-01
##    [792,] -2.228612e+00  1.544658e-01  9.789951e-01  1.104500e+00
##    [793,]  8.711387e-01  9.957924e-01  1.306966e+00  1.709144e-01
##    [794,]  8.198411e-01 -4.714063e-01  8.659918e-01  1.277932e+00
##    [795,] -9.466529e-01 -8.520521e-01 -1.076789e+00  2.248374e+00
##    [796,] -1.078605e+00  8.988669e-01  1.468238e+00  2.584769e-02
##    [797,]  6.892661e-01 -2.141019e-01 -4.217467e-01  2.740486e+00
##    [798,] -1.374127e-01 -1.188981e+00 -1.280659e-01  9.102261e-01
##    [799,]  9.520442e-02  2.019169e-01 -5.742464e-02  1.292889e+00
##    [800,]  7.545478e-01  1.365591e-02  7.411730e-01  1.421522e+00
##    [801,] -2.467201e+00  1.636225e+00 -2.291637e-01  1.040635e+00
##    [802,] -1.278565e+00  2.126596e+00 -1.166467e-01  1.012318e-02
##    [803,]  3.857028e-01  5.362297e-01  6.584239e-01  1.811142e+00
##    [804,]  1.283253e+00  6.055781e-02  1.210062e+00  6.388014e-01
##    [805,]  5.103355e-01  1.161777e+00 -3.017189e-01  7.127647e-01
##    [806,] -6.875257e-01 -3.744574e-01  5.044425e-01  1.379328e+00
##    [807,]  1.209531e+00  5.351937e-01  9.486305e-01  1.040146e+00
##    [808,] -2.456113e+00 -4.947851e-01 -1.492177e+00  2.415406e+00
##    [809,] -3.061959e-03 -7.671897e-01 -5.531326e-01  1.491976e+00
##    [810,]  7.434245e-01 -1.569344e-02  9.185844e-01  1.142093e+00
##    [811,]  1.353805e+00  9.993052e-01 -6.557079e-01  9.951013e-01
##    [812,] -1.611709e+00  1.854189e-01  1.163340e-01  2.159936e+00
##    [813,] -1.006684e+00  1.353591e+00 -3.234680e-01  6.289678e-01
##    [814,] -7.213653e-01  2.257602e-01 -3.332840e-02  6.246248e-01
##    [815,]  6.539670e-01 -5.321653e-01  1.151702e+00  7.771154e-01
##    [816,]  1.452862e+00  9.469535e-01 -3.605374e-01  1.117020e+00
##    [817,] -3.883244e-01 -7.621734e-01 -5.977638e-01  7.555695e-02
##    [818,]  3.817097e-01 -1.968852e-01  1.766347e-01  6.782428e-01
##    [819,]  7.243659e-01  7.611180e-01  1.939689e-01  1.146065e+00
##    [820,]  1.246375e+00  3.637650e-01  1.260506e+00  5.704937e-01
##    [821,] -1.570860e+00  4.061497e-01  1.078198e+00  8.973195e-01
##    [822,] -7.347599e-01  2.988320e-01 -8.099379e-02  2.572954e+00
##    [823,]  6.501257e-01 -5.112995e-01  9.295409e-01  2.638622e+00
##    [824,] -1.010719e-01  3.755378e-01  1.122209e-01  2.185114e+00
##    [825,] -1.676067e+00  1.131993e+00 -9.358203e-01  6.964290e-01
##    [826,] -7.239208e-02  7.523826e-01 -1.633732e+00  9.374538e-01
##    [827,] -6.871555e-01  3.668903e-01  9.099312e-01  1.250678e+00
##    [828,] -6.106391e-02 -8.083078e-01  2.898379e-01  5.604062e-01
##    [829,] -1.021638e+00  1.944936e+00 -2.619059e-01  2.475082e+00
##    [830,] -7.642724e-02 -8.293481e-01 -3.591757e-01  1.137321e+00
##    [831,] -1.612960e+00  5.933695e-01 -1.470826e+00  1.095982e+00
##    [832,]  3.976859e-02  7.005779e-01  2.043147e-01  8.166704e-01
##    [833,] -5.857064e-01 -3.305190e-02 -1.471219e+00  1.436502e+00
##    [834,]  1.227508e+00  1.633258e-01 -1.077095e-01  4.608775e-01
##    [835,] -4.820072e-01  1.993697e+00  9.242860e-01 -4.144242e-02
##    [836,]  6.341922e-01  7.889061e-01  9.211978e-01  1.090010e+00
##    [837,] -2.476980e-01 -7.159244e-01  9.835026e-01  2.541255e+00
##    [838,] -2.347196e-01  2.501230e+00 -4.738692e-01  2.639933e+00
##    [839,] -5.664832e-01  1.573972e+00 -6.541742e-01  1.289167e+00
##    [840,] -3.696000e-01  1.312100e+00 -1.062431e+00  2.599380e-01
##    [841,] -9.576395e-01 -1.308081e+00  9.556601e-02  3.988442e-01
##    [842,]  8.078187e-01  1.010149e+00  8.045788e-01  1.313334e+00
##    [843,]  1.287326e-01 -5.572662e-01 -1.651304e+00  1.014631e+00
##    [844,]  6.513395e-01 -4.334658e-01 -3.283199e-01  1.077307e+00
##    [845,] -1.718117e+00 -8.365581e-01  1.429052e+00  4.393785e-01
##    [846,] -1.582679e+00  2.961734e+00  8.782251e-02  6.542752e-01
##    [847,] -2.918263e-01  2.891951e+00  8.650597e-01  2.229128e-01
##    [848,]  5.231913e-01 -7.814474e-01  1.207419e+00  7.451190e-01
##    [849,]  1.736380e-01  2.645298e+00  4.577333e-01  8.343630e-02
##    [850,] -2.561373e-01 -1.809758e+00  1.482194e+00  2.405000e+00
##    [851,] -1.564887e-02  1.177324e+00  1.154071e+00  8.507426e-01
##    [852,]  3.961208e-01 -7.506560e-01 -1.290974e+00  2.641936e-01
##    [853,]  5.311865e-02 -5.350660e-01 -5.368830e-01  1.055955e+00
##    [854,] -2.233547e-01 -7.813854e-01 -1.618727e-01  7.824359e-01
##    [855,] -3.939234e-01 -1.399284e-01  7.770478e-01  8.006092e-02
##    [856,]  1.198673e+00  6.535081e-01 -2.670855e-01  8.589926e-01
##    [857,] -3.619450e-01  3.628947e+00  1.053973e+00  1.418414e-01
##    [858,]  8.821340e-01  2.722699e-01  5.954254e-01  1.742473e+00
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##    [861,]  6.255965e-01  1.099745e+00 -1.791512e+00  6.735190e-01
##    [862,] -1.418279e-01 -7.027015e-01  1.122236e+00  2.974119e+00
##    [863,] -8.069685e-01 -2.511108e-01 -2.111655e-01  8.794886e-01
##    [864,] -1.370311e+00  5.804917e-01  1.435502e-01  1.408433e+00
##    [865,]  6.725921e-04  5.970113e-01 -1.913359e+00  1.033645e+00
##    [866,] -8.989036e-01  2.666111e+00 -2.818213e-01  4.850463e-01
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##    [867,]  1.192361e+00 -1.269861e-02  7.214762e-01  9.119004e-01
##    [868,]  6.215054e-01 -2.132768e-02 -1.893821e+00  9.924330e-01
##    [869,] -2.030710e-02  8.275064e-01 -1.976470e+00  3.322005e+00
##    [870,] -1.572683e-01 -1.347172e+00  1.494682e+00  2.329956e+00
##    [871,] -7.807315e-01 -1.246563e+00 -2.757958e-01  1.003027e+00
##    [872,] -7.105953e-01  1.157575e+00 -1.609847e+00  7.283688e-01
##    [873,] -8.720473e-01  1.846361e+00  1.190064e+00  3.373449e-01
##    [874,]  9.690588e-01  1.295486e-02 -6.655759e-01  5.163797e-02
##    [875,] -2.331608e-01 -4.928215e-01 -3.901237e-01  7.428622e-01
##    [876,] -6.215337e-01  6.338697e+00  7.127350e-02  1.596869e+00
##    [877,]  1.294917e+00  3.782708e-02 -3.497759e-01  1.156949e+00
##    [878,]  8.005072e-01  9.036264e-01 -3.528495e-01  1.556765e+00
##    [879,]  1.044783e+00 -7.224714e-01  2.722599e-01  2.245796e+00
##    [880,] -4.739057e-02 -7.970147e-01  8.829610e-01  1.382746e+00
##    [881,]  5.583581e-01 -1.937560e-01 -1.806421e+00  8.250137e-01
##    [882,]  1.105703e+00  7.835962e-01 -1.670977e-01  5.376577e-01
##    [883,]  1.484843e+00  5.336357e-03  5.522956e-02  1.100417e+00
##    [884,] -1.177380e+00  1.533352e+00  7.870180e-01  2.527259e-01
##    [885,]  9.873252e-02 -3.646954e-01 -8.227023e-01  1.015055e+00
##    [886,]  1.153011e+00 -1.998858e-01 -1.520879e+00  2.283619e+00
##    [887,]  1.142532e+00  1.765298e-01 -2.160174e-01  6.960379e-01
##    [888,]  1.229614e+00  5.055109e-02  5.071868e-01  2.852019e+00
##    [889,] -1.882531e+00  4.930652e-01 -1.308692e-01 -7.754560e-02
##    [890,]  6.714260e-01  1.181968e-01  3.618045e-01  9.364644e-01
##    [891,] -1.372859e-01 -1.165484e+00 -1.938189e-01  9.352241e-01
##    [892,]  4.476787e-01 -6.026003e-01 -5.671432e-02  4.273292e-01
##    [893,] -7.272742e-02 -1.163957e+00  1.261600e+00  2.689730e+00
##    [894,] -1.719462e+00 -3.188696e-01 -3.170798e-02  2.530528e+00
##    [895,]  2.029576e-01 -4.134157e-01 -4.215476e-01  3.131935e+00
##    [896,] -6.323202e-02 -1.016264e+00  9.502772e-01  7.411623e-01
##    [897,] -1.123007e+00  6.188909e-01  1.367333e+00  2.916803e-01
##    [898,]  4.146872e-01  2.939963e-01  1.262182e+00  5.025839e-01
##    [899,] -1.341204e-01  1.261149e-03  7.823955e-01  2.185381e-01
##    [900,] -1.832265e-01  1.339763e+00  3.167983e-01  8.616870e-01
##    [901,]  1.250967e+00  6.230744e-01  2.165266e-02  8.261971e-01
##    [902,] -1.885181e-01  9.636282e-01  8.888886e-01  3.084706e+00
##    [903,]  2.898572e-01  4.887256e-01  5.197989e-01  2.415501e+00
##    [904,]  8.409671e-01  8.350415e-01 -1.589722e+00  1.318424e+00
##    [905,] -3.044210e-02  2.555384e-01  1.813267e+00 -5.695263e-01
##    [906,] -7.554132e-01 -1.096075e+00  1.092771e+00  2.975895e+00
##    [907,]  4.184176e-02 -4.593753e-01 -1.563398e+00  8.198790e-01
##    [908,]  2.099217e-02  1.963688e+00  4.145488e-01  9.318990e-01
##    [909,] -2.970025e-01 -7.378698e-01  9.417332e-01  7.407273e-01
##    [910,]  2.627833e-01 -6.637425e-02  5.744758e-01  1.487778e+00
##    [911,]  6.259650e-01  1.145423e+00 -4.305386e-01  2.784637e+00
##    [912,] -1.424697e-01  6.634346e-01 -6.322136e-01  2.944273e+00
##    [913,] -1.532358e-01 -6.190417e-01  3.055479e-01  2.770260e+00
##    [914,]  1.313239e+00  3.891032e-01 -3.661634e-03  2.794987e+00
##    [915,] -7.550288e-01 -1.421278e-01  1.050176e+00  3.060680e+00
##    [916,]  4.316450e-01  5.037715e-02  1.811821e-02  2.954910e-01
##    [917,] -9.078809e-01 -7.426551e-01  9.591878e-01  1.328671e+00
##    [918,] -3.541607e-01 -4.021403e-01  1.221926e+00  6.887113e-01
##    [919,]  1.557778e-01  3.878252e-01 -4.347853e-01  1.247455e+00
##    [920,] -2.001605e+00  2.450165e-01  8.349209e-01  1.434840e+00
##    [921,] -1.373164e+00  7.610774e-01  1.185014e+00  7.522999e-01
##    [922,] -5.536034e-01  3.574516e-01 -1.321361e+00  1.542644e+00
##    [923,] -8.626076e-01  2.353701e-02  1.388003e+00  4.157231e-01
##    [924,] -1.151311e+00  6.342524e-01  8.244438e-01  1.306177e+00
##    [925,]  1.622513e-01  1.869325e+00 -1.414499e+00  2.257199e+00
##    [926,] -3.201378e-01 -8.379173e-01  9.288585e-02  2.981635e-01
##    [927,] -5.557045e-01 -5.062598e-01 -1.736141e+00  1.419755e+00
##    [928,]  8.688270e-01  3.521089e-01 -2.088212e+00  1.381206e+00
##    [929,]  1.058462e+00  7.521784e-01  1.162901e+00  5.724797e-01
##    [930,]  5.653149e-01  8.482056e-01  9.947177e-01  9.329623e-01
##    [931,] -6.504400e-01  2.574800e-01 -1.856566e+00  1.506147e+00
##    [932,]  1.341708e+00  4.402479e-01  9.710960e-01  1.061925e+00
##    [933,] -1.622442e+00 -4.441254e-01 -5.377424e-01  1.328600e+00
##    [934,] -2.579423e-01 -5.502829e-01 -7.187675e-01  4.571446e-01
##    [935,] -2.552661e-01  7.626422e-01  1.215269e+00  6.263888e-01
##    [936,] -9.153181e-02  1.937953e+00 -2.036213e-01  5.194906e-01
##    [937,]  4.347556e-01 -8.035706e-01  1.054538e+00  7.669556e-01
##    [938,] -1.605497e+00  1.622685e+00 -3.762585e-01  2.797804e+00
##    [939,] -1.329851e+00 -1.195589e+00  8.814554e-01  3.397384e+00
##    [940,]  4.529905e-01  4.542424e-01  7.346455e-01  4.673585e-01
##    [941,] -2.436921e+00 -1.084460e-01 -1.117794e-01  7.477572e-01
##    [942,] -1.995197e-01  1.887573e+00  3.095693e-01  8.662890e-01
##    [943,]  1.029270e-01 -1.334280e-01 -1.343341e+00  1.616951e+00
##    [944,]  3.256317e-01 -2.484456e-01  5.616494e-02  5.259574e-01
##    [945,] -1.690050e+00  2.318993e-01 -1.631050e+00  8.398368e-01
##    [946,] -1.694491e+00 -1.463411e+00 -3.048408e-02  8.155974e-01
##    [947,] -3.714631e-01  1.995292e+00  1.051879e+00  5.505587e-03
##    [948,]  5.921190e-01 -1.765382e-01 -1.490193e-01  2.683132e+00
##    [949,] -6.574227e-01 -9.036574e-01 -1.822248e-01  2.970728e+00
##    [950,] -2.530885e+00 -8.448147e-01 -5.092999e-02  6.059069e-01
##    [951,] -8.267993e-01 -1.866026e-01 -1.889176e-01  8.373295e-01
##    [952,] -1.205190e+00  3.441465e-01  1.302024e-01  1.788198e+00
##    [953,] -1.555684e+00  9.571659e-01 -5.674422e-02  4.785010e-01
##    [954,] -2.596967e+00  6.089917e-01 -1.049350e+00  6.491227e-01
##    [955,] -6.272306e-01  4.733824e-01  1.892213e-01 -9.868697e-02
##    [956,] -2.070294e-01  9.083930e-01 -2.759329e-01  9.901518e-01
##    [957,]  1.307190e+00 -2.050360e-01  5.345309e-01  1.011401e+00
##    [958,] -8.094416e-01  6.645044e-01  1.030780e+00  1.030152e+00
##    [959,] -7.158391e-01  1.077309e+00  4.436866e-01  1.110740e+00
##    [960,] -3.803427e-01  1.197242e+00  5.565135e-01  2.228101e+00
##    [961,] -1.291631e+00 -1.141980e+00 -7.485606e-02  3.234998e+00
##    [962,]  9.535309e-01  1.624125e+00  1.048897e+00  5.799832e-01
##    [963,] -1.645810e-01 -7.444607e-01  1.023705e+00  1.106550e+00
##    [964,] -4.436854e-01 -3.406844e-01  9.844905e-01  4.657882e-01
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##    [965,] -1.787054e+00  2.574943e-01  5.217118e-01  6.057412e-01
##    [966,]  9.800205e-01  3.889052e-01  1.330086e+00  4.440938e-01
##    [967,] -3.776527e-01  1.944052e+00  1.017776e+00  7.462104e-01
##    [968,]  1.178527e+00  7.083861e-01  1.169759e+00  5.939057e-01
##    [969,] -1.443331e+00  2.344432e-01 -1.307984e+00  6.695136e-01
##    [970,] -2.533846e-01  3.333472e+00 -1.829921e-01  5.240826e-01
##    [971,] -1.542414e-01 -8.585698e-01 -2.157568e-01  5.118107e-01
##    [972,]  3.049489e-02  1.302002e+00  1.005392e+00  8.273781e-01
##    [973,] -9.852621e-01  4.626351e-01 -2.988763e-01  2.344104e+00
##    [974,]  3.009308e-02  2.426755e-02 -3.292794e-01  1.099559e+00
##    [975,] -5.089999e-01  1.854666e+00 -7.164886e-02  1.735828e-01
##    [976,] -7.855429e-01  3.674972e-01 -1.415885e+00  2.599141e+00
##    [977,] -2.446712e+00  1.362381e+00  9.564055e-01  1.115917e+00
##    [978,]  1.250968e+00 -4.955871e-01  5.422405e-01  2.551375e+00
##    [979,]  4.211548e-01 -7.190873e-01  1.521276e+00  2.099853e+00
##    [980,] -1.284604e-01 -5.690790e-01  1.136147e+00  2.867471e+00
##    [981,] -3.688435e-01  5.725903e-01  1.359471e+00  3.385196e-01
##    [982,]  5.978704e-01 -3.511308e-01 -3.054121e-01  2.770302e+00
##    [983,] -6.816539e-01  6.441032e-01  1.069676e+00  8.300256e-01
##    [984,]  1.193740e+00  2.342546e+00 -6.262658e-01  8.636299e-01
##    [985,]  3.953244e-01 -4.134466e-01  5.425151e-02  2.295031e+00
##    [986,]  9.058794e-01 -1.162533e+00 -6.972263e-01 -1.012500e-01
##    [987,] -1.084598e+00  8.024637e-01  7.059027e-01  1.491224e+00
##    [988,] -8.322125e-01 -2.534240e-01 -1.385462e+00  3.369656e+00
##    [989,] -9.142978e-01  1.693251e+00 -3.002744e-01  4.891452e-01
##    [990,] -1.824206e+00  2.121875e+00  9.718719e-01  8.214049e-01
##    [991,]  5.796479e-01 -6.883048e-02 -6.152890e-01  3.007421e+00
##    [992,] -8.401143e-01 -6.106921e-01 -1.739103e+00  2.748657e+00
##    [993,]  3.679290e-01 -6.014413e-01  7.429549e-01  2.411991e+00
##    [994,]  1.335610e+00  7.447321e-01 -5.487041e-01  2.757636e+00
##    [995,] -2.377020e+00 -1.684459e-01 -2.963708e-01  2.058103e+00
##    [996,]  5.473002e-01 -1.301328e-01  1.370584e-01  4.815810e-01
##    [997,]  7.827903e-01  1.261932e+00 -2.992767e-02  3.268478e+00
##    [998,]  1.158749e+00  5.828984e-01 -1.059550e-01  5.094901e-01
##    [999,] -1.232952e-01 -9.253393e-01 -2.789648e-01  1.010001e+00
##   [1000,]  2.077231e-01  3.104865e-01  1.511743e-01  1.681897e+00
##   [1001,]  8.434379e-01  1.682166e-01 -2.058983e-01  7.971276e-02
##   [1002,]  2.842113e-02  2.538150e-01  1.563882e+00 -6.759475e-02
##   [1003,]  5.593807e-01  5.774230e-01 -7.196837e-01  1.196638e+00
##   [1004,] -5.383139e-01 -8.891358e-01  9.914381e-01  1.250556e+00
##   [1005,] -1.775265e+00 -9.976060e-01  4.088439e-01  1.096439e+00
##   [1006,] -2.272364e+00  9.741925e-01 -1.878079e-01  1.016390e+00
##   [1007,] -2.467912e+00  1.192524e+00 -1.048108e+00  1.012171e+00
##   [1008,]  2.216817e-01 -3.977978e-01  1.321288e+00 -1.880837e-01
##   [1009,]  6.794664e-01  1.320291e-01 -8.641159e-01  9.666326e-01
##   [1010,]  3.067150e-01 -1.409499e-01  1.304540e+00  2.396782e+00
##   [1011,] -2.588560e-02 -8.812761e-02  8.820735e-01  1.476735e+00
##   [1012,] -6.312493e-01 -3.203535e-01  1.085195e+00  2.930258e+00
##   [1013,]  6.264200e-01 -4.111343e-01  1.092328e+00  8.222468e-01
##   [1014,]  5.516470e-01 -5.262783e-01 -1.516437e-01  7.247620e-01
##   [1015,] -3.040302e+00  6.401594e-01 -1.944602e-01  2.617935e+00
##   [1016,] -1.640990e-01  6.576570e-01 -1.960141e+00  2.883184e+00
##   [1017,]  5.338608e-01 -4.934893e-01  3.475667e-01  2.346283e+00
##   [1018,]  1.173228e+00  1.294055e+00  1.121728e+00  5.425424e-01
##   [1019,]  1.179347e+00 -1.161294e-01  7.427588e-01  2.658436e+00
##   [1020,] -1.386395e+00  1.111267e+00 -1.810894e+00  9.541754e-01
##   [1021,] -1.138818e-01  6.251212e-02 -1.748345e+00  8.100100e-01
##   [1022,] -4.160451e-01  4.093864e+00  5.199887e-01  2.724133e+00
##   [1023,]  1.131181e+00  6.621240e-01  1.099050e+00  6.187580e-01
##   [1024,]  3.861760e-01  2.891098e+00  4.637110e-01  2.520459e+00
##   [1025,] -1.983405e+00  1.619586e+00  3.885126e-02  3.283554e-01
##   [1026,]  1.041948e+00  9.420171e-01  5.229409e-01  2.363564e+00
##   [1027,]  8.148891e-01 -2.490888e-01  9.698095e-01  1.178124e+00
##   [1028,]  7.980323e-03  9.319973e-01 -1.173690e+00 -3.985491e-01
##   [1029,]  4.964082e-01 -1.051762e+00  1.418226e+00  2.365558e+00
##   [1030,] -2.493854e+00  2.093597e-01  1.110023e+00  8.857630e-01
##   [1031,] -9.350471e-01 -3.187749e-01 -6.777353e-02  6.132004e-01
##   [1032,] -1.361833e+00  4.871878e+00 -2.149050e-01  4.273912e+00
##   [1033,]  7.469284e-01 -3.296277e-01  6.147169e-01  1.098376e+00
##   [1034,] -5.677193e-01  4.524774e-01 -1.870407e+00  1.271877e+00
##   [1035,] -9.482133e-01 -4.452372e-01 -8.989540e-03  7.050840e-01
##   [1036,] -1.249066e+00 -2.246743e-01 -2.155600e+00  3.429422e+00
##   [1037,] -8.369607e-01  8.260663e-01 -2.653579e-01  7.439286e-01
##   [1038,] -2.641116e-01  3.038111e-01  1.189247e+00  5.904046e-01
##   [1039,]  1.355850e+00  2.903505e-02 -9.866697e-01  8.972627e-01
##   [1040,] -6.898769e-02 -1.208949e+00 -1.278391e-01  2.314907e+00
##   [1041,]  1.101754e+00  1.226895e+00 -1.816904e+00  7.591806e-01
##   [1042,] -5.185529e-02 -6.914711e-01  1.782872e-01  2.741599e+00
##   [1043,] -5.175688e-01  2.245783e-01  1.605848e+00 -6.578719e-02
##   [1044,]  5.677185e-01 -4.389532e-01 -2.329215e-01  8.788768e-01
##   [1045,]  1.344705e+00  2.490387e-01 -1.020747e+00  9.032068e-01
##   [1046,] -1.519626e-01 -5.843206e-01 -5.584633e-01  1.092826e+00
##   [1047,]  1.212163e+00  2.358502e-01  1.207831e+00  7.091535e-01
##   [1048,] -1.449550e+00  4.515520e-01 -7.888199e-02  5.389839e-01
##   [1049,] -6.517171e-01 -4.637129e-01  8.713960e-01  1.449109e+00
##   [1050,] -1.389814e-01  1.081193e+00 -1.838229e+00  2.621789e+00
##   [1051,] -2.489985e-01  1.456670e-01  1.267901e+00  5.811291e-01
##   [1052,]  6.637480e-03  4.623489e-01 -2.212580e+00  1.577055e+00
##   [1053,] -1.644081e+00  2.331247e+00 -1.751716e+00  6.227335e-01
##   [1054,] -2.336737e+00  1.006051e+00 -1.727781e+00  8.810254e-01
##   [1055,]  1.340358e+00 -2.200273e-01  1.179648e+00  2.696022e+00
##   [1056,]  9.854643e-02 -2.201915e-03 -9.143569e-01  1.615059e+00
##   [1057,]  3.111982e-01 -7.498950e-01  3.202152e-01 -3.566732e-02
##   [1058,] -1.826043e+00  1.228811e+00  1.115818e+00  7.026459e-01
##   [1059,]  8.456456e-01 -3.625779e-01  8.325226e-01  1.348338e+00
##   [1060,] -1.477767e-02  5.595302e-01 -2.777981e-01  1.045170e+00
##   [1061,]  1.343796e+00  1.016132e-01 -2.295350e-01  1.282827e+00
##   [1062,]  1.073784e+00 -1.673029e-01 -1.612990e+00  4.207400e-01
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##   [1063,] -3.306727e-02 -8.671910e-01 -1.361475e+00  8.021183e-01
##   [1064,] -1.041476e+00  1.773591e-01 -8.607423e-01  3.816343e-01
##   [1065,]  6.930250e-01  4.701275e-01 -7.229764e-01  1.154294e+00
##   [1066,]  1.383322e+00  8.982459e-01  6.245691e-03  1.179240e+00
##   [1067,]  2.423108e-01 -1.722519e-01 -7.435502e-01  1.364258e+00
##   [1068,]  5.836543e-01  1.534871e+00 -1.982116e+00  9.739329e-01
##   [1069,] -1.006839e+00  1.131390e+00  1.451989e+00  1.945537e+00
##   [1070,]  1.156969e+00 -1.282106e-02  1.048290e+00  8.620592e-01
##   [1071,] -2.884221e+00 -7.246407e-01  1.100930e+00  1.001505e+00
##   [1072,] -1.637924e+00  2.198472e+00 -6.402640e-01  8.927498e-01
##   [1073,] -5.718372e-01  1.049747e+00 -2.322698e+00  1.920797e+00
##   [1074,]  6.061675e-01 -4.173658e-01  1.184945e+00  2.709320e+00
##   [1075,] -1.066347e+00 -1.498693e-01  1.562309e+00  2.133475e+00
##   [1076,]  8.100460e-01  1.376913e+00  7.256380e-02 -4.033029e-01
##   [1077,] -1.413768e-01  1.322805e-01  8.237123e-01  1.285829e+00
##   [1078,]  1.106672e+00  3.525189e-01  2.791148e-02  2.420200e+00
##   [1079,] -2.180675e+00 -1.601264e+00 -1.024840e+00  3.250120e+00
##   [1080,]  9.853368e-01  1.506195e+00  1.154820e+00  4.859941e-01
##   [1081,] -1.676472e-01  1.179893e-01 -3.495675e-01  1.160784e+00
##   [1082,] -3.281697e-01  1.805285e+00 -1.854564e+00  5.516848e-01
##   [1083,] -1.121637e+00  5.893149e-02 -2.305656e-01  3.435281e-01
##   [1084,]  1.126077e+00 -8.769381e-01  1.326472e+00  5.302327e-01
##   [1085,]  1.369781e+00  4.220353e-01  9.383708e-01  1.030721e+00
##   [1086,]  1.230475e+00 -4.952873e-02  1.131093e+00  8.641387e-01
##   [1087,] -2.356988e-01 -5.845379e-02 -1.450619e+00  2.783934e+00
##   [1088,] -2.352525e-01  2.080859e-01  2.657692e-02  3.030439e-01
##   [1089,] -2.476528e+00  3.224677e+00 -1.894405e+00  1.103088e+00
##   [1090,] -1.334487e-02 -6.533579e-01  4.802174e-01  7.332100e-01
##   [1091,]  6.108893e-01  2.821935e-01  1.120313e+00  7.623138e-01
##   [1092,]  7.821125e-01  1.891062e+00  2.997220e-01 -4.334718e-01
##   [1093,]  1.030034e-01  1.903566e+00 -1.707570e+00  2.111399e+00
##   [1094,]  5.157082e-01 -2.949472e-01 -1.231017e+00  4.732096e-01
##   [1095,] -1.071685e+00  8.140820e-01  1.080588e+00  4.401524e-01
##   [1096,]  1.398423e+00  7.830958e-01  7.385342e-01  1.015914e+00
##   [1097,]  7.153012e-01 -3.477390e-01  1.057798e+00  9.441149e-01
##   [1098,] -1.142320e+00  5.879313e-01  6.853097e-01  1.871051e+00
##   [1099,]  5.792193e-01 -6.350495e-01 -9.435609e-01  2.394316e+00
##   [1100,] -1.273181e-01 -3.466430e-01 -4.591200e-01  9.859692e-01
##   [1101,] -6.831284e-01  2.281136e-01  6.559757e-01  1.686443e+00
##   [1102,] -2.132894e-01  1.116537e+00 -8.988834e-02  4.434676e-01
##   [1103,]  1.207327e+00  1.647819e+00 -5.343670e-01  2.774848e+00
##   [1104,]  7.991433e-02  7.691201e-02  1.941812e-01  2.857032e+00
##   [1105,] -1.597413e+00  6.335868e-02  1.286126e+00  5.737999e-01
##   [1106,] -1.997872e-01  1.427647e+00 -1.436509e+00  3.933681e-01
##   [1107,] -1.230398e-01  1.118856e+00  2.327877e-01  2.233852e+00
##   [1108,] -2.591005e-01  4.471735e+00  8.215478e-01  4.102302e+00
##   [1109,] -9.178599e-01  8.616876e-01  1.023615e+00  8.335417e-01
##   [1110,]  5.519662e-01 -1.921545e-01 -1.378583e+00  7.093038e-01
##   [1111,]  1.228487e+00  4.171639e-01  1.727669e-01  2.681075e+00
##   [1112,] -2.916907e-01  3.912966e-01 -1.852940e+00  8.586409e-01
##   [1113,]  5.134311e-01  5.955442e-01 -1.755033e+00  5.127418e-01
##   [1114,] -2.433878e-01  1.660109e+00 -8.753926e-02  4.899641e-01
##   [1115,]  1.356016e+00  2.228984e-01  9.894222e-01  9.713083e-01
##   [1116,] -1.683806e+00  1.339303e+00  8.783630e-01  1.073849e+00
##   [1117,] -1.511940e-01 -8.816159e-01  1.132996e+00  9.468970e-01
##   [1118,]  1.128964e-02 -5.424326e-01 -3.832651e-01  1.138822e+00
##   [1119,] -1.648425e-01 -6.550291e-01  1.306575e+00  2.529516e+00
##   [1120,] -5.047259e-01  9.057552e-01  9.923861e-01  2.915807e+00
##   [1121,]  9.890962e-02  1.604976e+00  4.002832e-01  2.409137e-01
##   [1122,]  1.283796e+00  4.473546e-01 -6.698419e-01  2.996820e+00
##   [1123,] -1.969946e+00  5.410025e-01  4.678102e-02  2.607353e-01
##   [1124,] -3.831126e-01 -5.064916e-01  1.389908e+00  5.652876e-01
##   [1125,] -1.267426e+00 -1.148079e+00 -1.867191e+00  1.438207e+00
##   [1126,]  8.356250e-02  1.651950e-02 -2.058642e+00  1.304076e+00
##   [1127,]  1.413264e+00  1.220324e+00 -5.963588e-01  1.174537e+00
##   [1128,]  7.329636e-01  3.659674e-03 -1.177734e+00  2.892470e+00
##   [1129,] -1.402524e+00  8.199507e-02  1.431098e+00  2.493715e-01
##   [1130,] -9.590182e-01  1.901622e-01 -8.698209e-02  6.096148e-01
##   [1131,]  1.177809e+00  2.517076e-01 -1.626437e+00  8.386770e-01
##   [1132,]  1.265052e+00  1.650010e-01 -5.284938e-01  9.247103e-01
##   [1133,] -1.966926e-01 -1.078363e+00 -1.628856e+00  2.577163e+00
##   [1134,]  3.157287e-02 -4.728953e-01 -5.500288e-01  2.975351e+00
##   [1135,] -8.282993e-01  4.664031e+00  1.257532e+00  1.065502e+00
##   [1136,] -8.207639e-01  1.392511e-02 -1.513493e+00  3.277159e-01
##   [1137,] -3.877803e-01  6.453162e-01 -9.999914e-02  2.133462e-01
##   [1138,] -1.113442e-01 -3.293937e-01 -6.457305e-01  3.062919e+00
##   [1139,] -7.045477e-01 -7.353671e-01 -1.992808e-01  1.471119e+00
##   [1140,] -6.474013e-01 -6.110811e-01  7.403235e-01  2.863903e+00
##   [1141,]  5.872551e-01 -3.840735e-03  1.017672e+00  9.940515e-01
##   [1142,] -7.771379e-01 -5.506491e-01 -1.660502e+00  1.303049e+00
##   [1143,]  4.456404e-01  2.063865e+00 -4.920897e-02  5.056891e-01
##   [1144,]  4.594477e-01 -6.739018e-01 -1.253690e+00  5.361921e-01
##   [1145,] -1.416755e+00 -5.091385e-02  3.552648e-01  2.590393e+00
##   [1146,] -1.857590e+00  9.676413e-01 -3.257005e-01  1.119431e+00
##   [1147,]  1.269378e+00  1.299339e-01  8.525673e-01  1.095071e+00
##   [1148,] -2.297553e+00  3.614154e-01 -4.392347e-01  3.142952e+00
##   [1149,] -8.896370e-01  1.866004e-01 -3.669644e-01  9.244299e-01
##   [1150,]  1.388607e+00  5.103350e-02  9.114808e-01  1.146940e+00
##   [1151,] -1.757980e+00  6.372591e-01  1.375465e+00  2.680036e-01
##   [1152,]  1.033589e+00  4.694355e+00 -8.996135e-02  4.011627e-01
##   [1153,]  1.235900e+00  3.898178e-01 -6.084222e-01  8.984250e-01
##   [1154,] -7.761223e-01 -1.103601e+00  9.678624e-01  6.408148e-01
##   [1155,] -4.086916e-01 -4.288014e-01 -2.750346e-01  3.434093e+00
##   [1156,] -2.436850e+00 -3.037462e-01 -8.946125e-01  2.579014e-01
##   [1157,] -6.348336e-01  7.976577e-01  1.178339e+00  7.324105e-01
##   [1158,] -2.615931e-01  4.017406e-02  1.385700e+00  4.090068e-01
##   [1159,] -2.495882e+00  1.300588e+00 -1.322793e+00  5.143483e-01
##   [1160,] -8.850607e-01  2.896676e-01  1.442318e+00  3.717676e-01
```

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##   [1161,] -1.659471e+00  5.837243e-01  1.263800e+00  4.971650e-01
##   [1162,] -6.276510e-01 -3.060750e-02  1.626213e-01  1.332182e+00
##   [1163,] -2.186792e-01  7.383560e-02  2.709778e-01  2.337776e+00
##   [1164,]  8.967124e-01  2.822164e-01 -4.777853e-01  1.414717e+00
##   [1165,] -5.842797e-01 -1.376773e-02  7.639552e-01  1.476765e+00
##   [1166,]  7.659441e-01  8.090632e-02 -6.534210e-01  1.139694e+00
##   [1167,] -7.943635e-01 -5.839100e-01 -3.944538e-01  8.232597e-01
##   [1168,]  1.541619e+00  5.345593e-01 -2.865082e-02  1.279908e+00
##   [1169,] -9.776628e-02 -1.240496e-02  9.684118e-01  3.164765e+00
##   [1170,] -9.619671e-01 -1.372768e+00  9.602756e-01  2.634887e+00
##   [1171,]  5.294997e-02  4.778723e-01 -9.269218e-03  3.165522e+00
##   [1172,] -5.841903e-02  1.773002e+00  1.055222e+00  9.320178e-01
##   [1173,] -3.091051e-01 -3.904133e-01 -4.177309e-01  7.482344e-01
##   [1174,]  6.574085e-01  3.707126e-01 -1.512369e+00  1.159372e+00
##   [1175,]  1.147967e+00  5.727949e-01  5.278331e-01  8.676104e-01
##   [1176,] -8.183464e-01 -9.935238e-03  1.151828e+00  3.504172e-01
##   [1177,]  1.910931e-01  1.798860e-01 -1.513001e+00  3.063781e+00
##   [1178,] -1.351335e-01  9.504086e-01  1.337428e+00  2.283586e+00
##   [1179,] -9.647201e-01 -1.024900e-01  3.469766e-01  9.477691e-01
##   [1180,]  5.893958e-01  7.818031e-01  1.033957e-01  9.520095e-01
##   [1181,] -3.968672e-01  1.046427e+00  1.488669e-01  4.734646e-02
##   [1182,] -8.382125e-01  9.711215e-01 -5.312346e-01  2.565074e+00
##   [1183,] -1.558666e-01  9.350965e-01  1.166918e+00  6.403635e-01
##   [1184,] -1.425006e-01  6.327169e-01 -1.222876e+00  8.795649e-01
##   [1185,] -6.954692e-01  1.082170e-01 -1.671627e+00  1.341881e+00
##   [1186,]  1.138818e+00 -5.652691e-01  1.168438e+00  7.442028e-01
##   [1187,]  1.166332e+00  6.269647e-01  1.054536e+00  8.137183e-01
##   [1188,]  1.324297e+00  9.918216e-01 -5.887039e-01  2.976614e+00
##   [1189,] -7.458945e-01  1.924986e-01 -7.320616e-01  3.296407e+00
##   [1190,]  1.898871e-01 -5.285465e-01  9.823993e-01  3.089321e+00
##   [1191,] -3.200878e-01 -4.461951e-01  1.398041e+00  3.527148e-01
##   [1192,]  6.741704e-01  4.856540e-02 -1.930385e+00  1.026307e+00
##   [1193,]  3.937180e-02  6.292436e-02 -1.098041e+00  1.121314e+00
##   [1194,] -1.065316e+00  1.334967e-01 -8.165611e-01  2.098135e+00
##   [1195,]  3.274433e-01  2.179398e+00 -3.035508e-01  4.115055e-01
##   [1196,]  5.299132e-01 -7.829748e-01  1.280239e+00  7.327162e-01
##   [1197,]  9.068149e-01  5.684367e-01  1.342891e+00  1.975900e-01
##   [1198,]  7.155907e-01  3.861202e-02 -7.445395e-01  3.103768e+00
##   [1199,] -2.642828e-01  1.025331e+00 -4.919718e-01  5.284853e-01
##   [1200,] -1.097569e+00 -3.755405e-01  1.142811e+00  9.175315e-01
##   [1201,] -1.665789e+00  1.142461e+00 -3.578546e-01  1.044813e+00
##   [1202,] -1.903010e-01 -1.020838e+00  1.418173e+00  4.610977e-01
##   [1203,]  1.209699e+00  1.449975e+00 -3.848901e-01  2.403276e+00
##   [1204,] -8.598276e-01  1.151474e-01 -4.265768e-02  6.461242e-01
##   [1205,]  7.966167e-02  1.399354e-01 -3.979227e-01  1.327967e+00
##   [1206,] -6.877120e-01 -3.341898e-01 -6.787412e-02  2.925482e+00
##   [1207,] -2.272917e+00 -4.814325e-01 -9.799826e-02  2.719474e+00
##   [1208,] -2.712255e+00  6.794565e-01  1.361192e+00  4.018912e-01
##   [1209,] -1.099071e+00  9.897629e-01 -1.038698e-01 -6.154037e-02
##   [1210,] -1.074748e+00 -1.414244e+00  1.407227e+00  2.648826e+00
##   [1211,]  1.170520e+00 -2.324455e-01  1.380422e+00  2.290452e+00
##   [1212,]  1.173494e+00  1.458161e+00  9.613289e-01  9.206917e-01
##   [1213,]  4.592784e-01 -2.821359e-02 -1.710664e-01  2.893236e-01
##   [1214,]  7.941743e-01 -1.168052e-01  1.002843e+00  1.135354e+00
##   [1215,] -5.873468e-01 -2.512307e-01 -2.020249e+00  3.195437e+00
##   [1216,]  9.662901e-01 -6.126248e-02 -1.308297e+00  1.772303e-01
##   [1217,]  1.196934e+00  7.357900e-01  1.041768e+00  9.972378e-01
##   [1218,] -9.923080e-01 -1.241788e+00 -1.578758e+00  2.849120e+00
##   [1219,] -1.720857e+00  1.438298e-01  4.759237e-01  7.866206e-01
##   [1220,]  6.045859e-02 -6.974005e-01 -3.439043e-01  3.064875e+00
##   [1221,]  1.548741e+00  7.638459e-01 -1.703827e-01  1.460403e+00
##   [1222,]  1.441389e+00  1.974809e-01 -3.673020e-01  1.239324e+00
##   [1223,] -1.679928e-02  9.864238e-01  8.942313e-01  2.985940e+00
##   [1224,]  1.074139e+00 -2.378647e-01  1.358350e+00  4.631193e-01
##   [1225,] -2.256217e-01  7.466837e-01  8.621105e-01  1.151052e+00
##   [1226,] -9.561529e-01  5.789433e-01  1.413049e+00  1.646442e-01
##   [1227,]  1.210637e-01 -4.349736e-02  8.555604e-01  1.341962e+00
##   [1228,]  5.676482e-01  1.041512e+00 -1.469466e+00  2.803347e+00
##   [1229,]  5.984491e-01  9.364415e-01  1.075463e+00  2.655231e+00
##   [1230,] -1.482233e+00  1.870158e-01  1.316170e+00  4.500603e-01
##   [1231,]  7.303975e-01  1.626478e+00  9.354267e-01  2.946827e+00
##   [1232,] -5.280163e-01 -4.983764e-01 -1.147917e+00  1.296679e+00
##   [1233,] -2.298363e+00  3.150055e-01 -7.418989e-01  3.163685e+00
##   [1234,] -1.419947e-01 -9.066950e-01  1.231931e+00  7.281288e-01
##   [1235,] -3.655470e-01  4.260436e-01 -4.543437e-01  2.139322e+00
##   [1236,] -1.454087e+00  2.662800e-02 -1.397894e-02  2.504363e+00
##   [1237,] -2.113004e+00  1.231854e+00  8.809288e-01  1.270923e+00
##   [1238,] -2.836707e+00 -3.967744e-01  8.698038e-01  2.986890e+00
##   [1239,]  2.453473e-01 -1.251864e-01  1.632544e+00 -1.662458e-01
##   [1240,] -1.033255e+00  6.659476e-01 -1.200137e+00  7.928781e-01
##   [1241,]  2.327976e-01  1.545888e-01 -4.695741e-01  1.340369e+00
##   [1242,] -1.601041e-01  1.116400e-01 -8.170112e-02  7.563439e-01
##   [1243,] -4.539201e-01  7.927641e-01  9.005973e-01  1.185505e+00
##   [1244,]  1.059900e+00 -2.506695e-03 -1.373903e-01  6.037865e-01
##   [1245,]  4.942802e-01 -1.394835e+00  1.452753e+00  4.701245e-01
##   [1246,]  8.025566e-01  2.726135e-01  9.347061e-01  3.128012e+00
##   [1247,] -6.461046e-01  1.164046e+00  8.978656e-01  9.978808e-01
##   [1248,] -7.178154e-01 -8.290990e-01  9.013668e-01  3.309871e+00
##   [1249,] -2.747436e-01 -1.634956e-01  1.180527e+00  2.731122e+00
##   [1250,] -4.514481e-01  5.067840e-01  1.478804e+00  3.647205e-02
##   [1251,] -2.363464e+00  3.944242e-01 -2.737435e-01  1.157296e+00
##   [1252,]  1.300972e+00  4.391174e-01 -4.309068e-01  7.717391e-01
##   [1253,] -1.827249e+00  5.782826e-01  5.287872e-02  5.553792e-01
##   [1254,] -1.438438e+00  2.432554e+00  9.267788e-01  1.008948e+00
##   [1255,] -9.887471e-01  7.523015e-01 -7.020231e-01  6.058181e-01
##   [1256,]  1.157169e+00  4.664801e-01 -1.064563e-01  7.206532e-01
##   [1257,] -7.099928e-01 -4.472681e-01  4.112553e-01  2.907071e+00
##   [1258,] -1.236084e+00  2.049128e+00  7.270940e-01  1.449466e+00
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##   [1259,]  4.964053e-01 -2.820578e-01  5.154117e-01  6.146892e-01
##   [1260,] -1.166287e-02  6.521685e-01 -8.773081e-01  1.432543e+00
##   [1261,]  1.278583e+00  1.585000e+00 -1.996629e-01  7.638103e-01
##   [1262,] -1.388876e+00  8.611670e-01 -5.366100e-01  1.316956e+00
##   [1263,] -3.672265e-01  1.834973e-01 -6.313959e-01  1.763485e+00
##   [1264,] -1.407759e+00 -7.329015e-02  1.048872e+00  1.020364e+00
##   [1265,] -2.810809e-01 -1.079578e+00  1.077019e-01  3.523431e-01
##   [1266,]  1.020700e+00 -2.276751e-01 -1.194706e-01  2.126228e+00
##   [1267,]  8.629009e-01  6.582369e-01 -4.621574e-01  1.439700e+00
##   [1268,] -6.332561e-01  1.384081e-01  1.203199e+00  1.837796e+00
##   [1269,] -2.538254e+00  1.819893e-02 -1.527247e+00  4.488820e-01
##   [1270,]  7.542698e-01 -3.320557e-01 -4.403344e-01  1.079305e+00
##   [1271,]  7.291570e-01 -1.725092e-01 -6.227426e-02  1.148859e+00
##   [1272,]  1.102791e+00 -4.873091e-01  3.083908e-02  2.283511e+00
##   [1273,]  4.914653e-01  7.238646e-01 -3.841576e-01  1.077138e+00
##   [1274,]  1.949772e-01 -4.880236e-01  8.814972e-01  1.283348e+00
##   [1275,] -4.369808e-01  2.446816e-01  1.501058e+00  1.310234e-01
##   [1276,] -8.661464e-01  1.424471e+00 -6.584762e-01  2.774276e+00
##   [1277,] -2.373431e+00  3.150842e-01  2.752214e-02  3.339458e-01
##   [1278,]  1.121048e+00  1.653613e+00  1.298942e+00  4.037650e-01
##   [1279,] -4.692471e-01  8.470961e-01  3.685286e-01  1.209881e-02
##   [1280,] -1.206463e+00  2.710422e+00  9.027372e-01  3.073715e-01
##   [1281,]  1.299010e+00  3.712860e-01 -3.545113e-01  8.999884e-01
##   [1282,]  7.524542e-01 -1.586387e-01 -2.049116e-01  1.003191e+00
##   [1283,] -1.683010e+00  6.716284e-01 -1.015775e+00  5.430587e-01
##   [1284,]  1.263477e+00 -2.221870e-01  7.273198e-01  9.237335e-01
##   [1285,]  1.132747e+00 -7.366300e-01  1.327323e+00  5.532269e-01
##   [1286,] -1.058271e+00 -1.009542e+00 -6.308004e-01  2.411393e+00
##   [1287,] -2.270872e-03 -4.591340e-01 -2.143084e-01  7.977327e-01
##   [1288,] -7.471498e-01  4.168696e-01  7.705788e-02  1.441060e+00
##   [1289,]  1.045900e+00 -4.316125e-01 -9.376348e-01  2.165860e+00
##   [1290,] -7.005887e-01  7.821806e-01  1.162537e+00  6.073990e-01
##   [1291,] -6.523503e-02 -8.347715e-01 -1.355055e+00  2.363191e+00
##   [1292,]  6.399464e-01 -4.243361e-01 -2.263685e-01  8.265830e-01
##   [1293,] -1.326396e-01 -2.142839e-01 -1.700319e+00  2.590498e+00
##   [1294,]  1.856511e-01  2.508293e-02 -1.908833e+00  1.259113e+00
##   [1295,] -1.635098e-01 -9.717378e-01  7.623111e-02  6.026061e-01
##   [1296,] -1.315529e+00  7.860538e-01  1.974722e-01  1.293805e+00
##   [1297,] -1.077973e-01  3.548431e-01  9.873087e-01  8.741596e-01
##   [1298,] -1.339587e+00  2.198112e-01 -5.638537e-02  4.210622e-01
##   [1299,] -2.194343e+00  1.637909e+00  9.283949e-01  1.297142e+00
##   [1300,] -3.300857e-01 -9.818860e-01 -7.791448e-02  6.661641e-01
##   [1301,] -3.045571e-01 -1.718643e+00  1.433783e+00  4.789688e-01
##   [1302,] -8.779838e-01  1.388238e+00 -1.477523e+00  1.141694e+00
##   [1303,] -1.621367e+00  6.518336e-01 -2.278298e-01  7.899270e-01
##   [1304,]  3.733191e-01 -9.183288e-01  1.523849e+00  1.360693e-01
##   [1305,] -9.805878e-01 -1.365800e+00 -1.317298e-01  2.893545e+00
##   [1306,] -2.414318e-01  1.667532e+00  1.176209e+00  4.771855e-01
##   [1307,] -1.686011e+00  9.579264e-01 -4.886908e-01  2.258383e-01
##   [1308,] -2.403428e+00 -8.398822e-02  2.451802e-01  2.863973e+00
##   [1309,]  6.041303e-01 -7.107734e-01 -1.290912e+00  6.381276e-01
##   [1310,] -1.658637e-01 -1.368270e+00  1.455682e+00  4.708855e-01
##   [1311,] -6.494321e-01  9.119357e-02 -1.781137e+00  3.497486e+00
##   [1312,] -2.027967e-01  1.423765e+00  1.276975e+00  3.515851e-01
##   [1313,] -1.926259e-01 -2.838049e-01 -4.661701e-01  8.644435e-01
##   [1314,]  1.208309e+00 -3.690702e-01  8.264613e-02  4.851843e-01
##   [1315,] -8.365620e-01 -1.549042e+00 -7.235411e-02  8.539031e-01
##   [1316,] -2.365561e+00 -1.857910e-01  1.041993e+00  1.133509e+00
##   [1317,]  1.346477e+00  2.582558e-01  7.298606e-01  8.114980e-01
##   [1318,]  1.211018e+00 -8.704520e-01 -9.125487e-01  2.864779e-01
##   [1319,]  1.393290e+00 -2.964287e-01  1.160132e+00  2.701327e+00
##   [1320,] -3.390696e-01 -8.596131e-01  1.306064e+00  6.557883e-01
##   [1321,]  4.213139e-01 -8.136086e-01 -5.308570e-01  2.060037e-01
##   [1322,] -1.522771e+00  7.874021e-01  4.164074e-01  1.682705e+00
##   [1323,]  1.105966e+00  1.404552e+00  1.097607e+00  2.477702e+00
##   [1324,] -8.642314e-01 -8.650819e-01 -1.252062e+00  2.887167e+00
##   [1325,] -1.379619e+00 -6.706333e-01 -1.438937e+00  1.891247e+00
##   [1326,]  4.736287e-01 -9.138106e-01 -1.411496e+00  5.348479e-01
##   [1327,] -7.546904e-01 -4.533305e-01  1.157070e+00  9.717112e-01
##   [1328,] -2.444929e-01  6.712910e-01 -1.889573e-01  5.027772e-01
##   [1329,] -1.063578e+00 -1.971382e-01 -3.501624e-01  3.916011e+00
##   [1330,]  1.101083e+00  1.270447e+00  3.938093e-01  6.947198e-01
##   [1331,] -1.652243e-01 -3.224091e-01 -1.139881e+00  2.724047e+00
##   [1332,]  8.862296e-02  2.261397e-04 -6.346459e-01  1.198880e+00
##   [1333,] -9.314191e-02 -9.815893e-01  1.357625e+00  6.764056e-01
##   [1334,]  1.199058e+00 -5.208899e-01  4.962011e-01  7.219236e-01
##   [1335,] -1.652028e+00  1.981876e-01  1.210249e+00  6.762039e-01
##   [1336,] -5.167165e-01  1.223193e+00  1.567856e+00 -1.895751e-01
##   [1337,]  1.314957e+00  3.886022e-01  9.940712e-01  2.964483e+00
##   [1338,]  1.453370e+00  8.746997e-01 -6.911394e-01  1.094283e+00
##   [1339,]  4.685776e-01 -3.271392e-01  1.306832e+00  5.480170e-01
##   [1340,] -2.838420e+00  1.312483e+00  8.462649e-01  1.328477e+00
##   [1341,] -1.331607e+00  3.308282e+00  4.594004e-01  3.099200e+00
##   [1342,]  5.696163e-01  3.239224e-01  1.031600e+00  9.781919e-01
##   [1343,]  1.087454e+00  8.829212e-01 -2.161940e-01  4.721533e-01
##   [1344,] -1.029654e-01 -9.834877e-01  4.235626e-01  2.272662e+00
##   [1345,]  1.362372e+00  3.234798e-01  8.808912e-01  1.238473e+00
##   [1346,] -1.600878e-01  4.713237e-01  1.055542e+00  8.541573e-01
##   [1347,] -7.198244e-01 -6.945614e-01 -6.347148e-01  1.032971e+00
##   [1348,] -1.011937e+00 -1.935275e-01 -2.002593e-01  8.252662e-01
##   [1349,]  1.217798e+00  7.402202e-01  1.202891e-01  9.147278e-01
##   [1350,] -1.954622e+00  8.442541e-01  1.320180e+00  3.500727e-01
##   [1351,] -1.469102e+00  2.961504e+00  7.297003e-01  7.480558e-01
##   [1352,]  1.665198e-01 -5.665864e-01  1.649757e+00 -9.641034e-02
##   [1353,] -5.232541e-01 -4.557628e-01 -5.355182e-01  1.309268e+00
##   [1354,] -9.670462e-01 -5.102569e-01  1.459191e+00  3.469166e-01
##   [1355,]  6.552796e-01  5.681954e-01  8.400664e-01  1.143967e+00
##   [1356,] -1.280273e+00  1.658337e-01 -3.847530e-01  1.132237e+00
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##   [1357,] -2.468006e-01  1.911503e-01  1.207098e+00  2.664736e+00
##   [1358,]  1.023549e-01 -5.610370e-01  1.113515e+00  1.014425e+00
##   [1359,]  3.291867e-01 -1.531107e-01 -1.532903e+00  1.598540e+00
##   [1360,] -8.340199e-01 -4.397217e-01  9.889669e-01  1.224348e+00
##   [1361,] -3.093376e-01  1.321321e+00 -2.949858e-02  5.263853e-01
##   [1362,]  8.443215e-01  2.501705e+00 -7.010630e-02 -2.043560e-01
##   [1363,] -1.393236e+00  8.075434e-01 -9.030497e-01  6.957274e-01
##   [1364,] -1.569101e+00  9.472803e-01 -1.974088e+00  1.182770e+00
##   [1365,] -9.100344e-02  1.140685e+00 -4.619266e-01  1.081420e+00
##   [1366,] -1.366304e+00 -1.006546e+00 -1.857233e+00  3.037444e+00
##   [1367,]  9.420566e-01  1.259981e+00 -4.973134e-01  4.550519e-01
##   [1368,] -8.288664e-01  4.155729e-01 -7.352717e-01  2.356739e+00
##   [1369,]  2.837542e-01  2.939787e+00  1.218326e+00  2.799522e-01
##   [1370,]  9.990906e-01  1.653087e-01  1.367700e-01  7.990260e-02
##   [1371,]  1.128579e+00  2.094168e+00 -1.657114e+00  6.623455e-01
##   [1372,]  3.101947e-01  1.490659e+00  1.172500e+00  6.030559e-01
##   [1373,]  1.297733e+00  2.710210e-01  9.888574e-01  9.568834e-01
##   [1374,]  7.227078e-01  5.689771e-02  8.450794e-01  1.325563e+00
##   [1375,] -6.447127e-01  9.094368e-01  9.918170e-01  9.492480e-01
##   [1376,] -1.301353e-01 -5.939183e-01  8.443923e-01  1.043153e+00
##   [1377,]  7.391189e-01  2.146559e+00  1.446918e+00  1.799649e+00
##   [1378,] -7.262827e-01 -8.698012e-01  1.125895e+00  2.862679e+00
##   [1379,] -4.466256e-01  3.613041e+00 -1.524164e+00  1.971297e+00
##   [1380,] -2.461456e+00 -2.054015e-01  1.119823e+00  9.160549e-01
##   [1381,] -1.255976e-01 -1.339992e+00  1.358410e+00  5.862857e-01
##   [1382,]  1.735337e-01 -5.010711e-02  7.047590e-01  1.596020e+00
##   [1383,]  5.938568e-01 -2.977672e-01  1.267140e+00  2.664942e+00
##   [1384,] -8.475430e-02  1.265757e-01 -1.846866e+00  8.081133e-01
##   [1385,] -9.846653e-01 -3.627239e-01  1.095389e+00  2.750395e+00
##   [1386,]  1.035664e+00 -1.150944e+00  7.431063e-01  8.822473e-02
##   [1387,]  5.621578e-01  1.635336e+00  1.286688e+00  3.999793e-01
##   [1388,]  4.296207e-01 -6.446734e-01  8.241259e-02  2.335919e+00
##   [1389,] -7.746549e-01  4.075836e-01  1.666595e+00 -2.361709e-01
##   [1390,]  1.198505e+00  3.425657e-01  1.181116e+00  6.027516e-01
##   [1391,]  3.515468e-02 -3.337040e-01 -3.386396e-01  1.086873e+00
##   [1392,] -5.657702e-01 -3.966375e-01 -1.948181e+00  1.174277e+00
##   [1393,] -7.712098e-02  1.275656e+00  1.141890e+00  2.489870e+00
##   [1394,] -6.288349e-01 -6.739071e-01 -5.729631e-01  1.205126e+00
##   [1395,]  1.228620e+00  8.808438e-02  2.793837e-01  4.563199e-01
##   [1396,]  4.264881e-01  2.064154e+00  5.350615e-01  5.345712e-01
##   [1397,]  2.235762e-01  8.227058e-01  4.757181e-01  2.257490e+00
##   [1398,]  5.187611e-01 -4.136814e-01 -1.494169e+00  9.671949e-01
##   [1399,]  7.135894e-01  1.701549e-01  1.026675e+00  9.891679e-01
##   [1400,]  1.938580e-01  8.624037e-01  9.371319e-01  1.522275e+00
##   [1401,] -9.192261e-01 -7.125962e-01 -1.433795e+00  2.129667e+00
##   [1402,] -1.350188e+00 -1.190283e+00  8.619552e-01  1.510280e+00
##   [1403,] -1.337410e+00 -9.560414e-01  8.520248e-01  1.555881e+00
##   [1404,] -6.583514e-01 -1.358554e-02 -4.925298e-01  1.476381e+00
##   [1405,] -6.687581e-01 -3.642264e-01 -6.871260e-01  3.218616e+00
##   [1406,] -3.702031e-01  7.446503e-02 -9.110337e-01  1.713361e+00
##   [1407,] -1.898710e+00  6.804584e-01  6.298780e-01  1.740782e+00
##   [1408,] -2.283756e+00  9.260804e-01 -1.929832e+00  1.223880e+00
##   [1409,] -3.058741e-01 -7.106808e-01 -4.361974e-01  3.193289e-01
##   [1410,]  7.709730e-01  1.323240e+00  1.472203e+00  5.048221e-02
##   [1411,] -7.874200e-01 -8.376798e-01 -1.588719e+00  2.607893e+00
##   [1412,] -3.593172e-01 -3.484559e-01  1.205730e+00  6.881268e-01
##   [1413,] -2.915535e-01 -2.693176e-01  1.045453e+00  3.124924e-01
##   [1414,]  5.632359e-01 -1.217309e-01 -1.620104e+00  1.120025e+00
##   [1415,] -8.357811e-01 -1.681968e-01  1.217948e+00  8.114122e-01
##   [1416,]  7.012490e-01  1.817503e+00  1.350756e+00 -8.389554e-03
##   [1417,] -1.647694e-01  8.892016e-01 -1.461645e+00  8.036190e-01
##   [1418,] -1.688306e-01 -9.230917e-01  3.358278e-01  8.526343e-01
##   [1419,]  1.187019e-01 -4.080924e-01 -1.042335e+00  1.061009e+00
##   [1420,]  1.202875e+00  4.799130e-01 -1.907916e+00  2.790307e+00
##   [1421,] -7.176990e-01  1.044661e+00  6.051299e-02  8.370637e-01
##   [1422,] -2.259086e-01  8.908482e-01  1.388267e+00  2.276001e+00
##   [1423,] -4.636698e-01  5.892669e-01  3.002884e-01  1.545248e+00
##   [1424,] -1.387454e+00 -1.170065e+00 -3.691834e-01  1.386371e+00
##   [1425,] -2.509944e-01  9.598456e-01  9.488272e-01  2.206711e+00
##   [1426,]  7.892164e-01 -8.002889e-03  9.330046e-01  3.082023e+00
##   [1427,] -8.185770e-01 -1.287738e+00  3.251032e-01  5.004377e-01
##   [1428,]  6.576766e-01  1.277594e-01 -1.770638e+00  2.692321e+00
##   [1429,]  6.333667e-01 -9.796810e-02 -3.567475e-01  2.616087e+00
##   [1430,] -1.919311e+00  4.956672e-01 -1.033078e+00  3.324682e-01
##   [1431,]  7.008739e-02  1.369576e-01  7.595598e-01  3.441418e+00
##   [1432,]  2.721721e-01  2.501809e+00  6.489009e-01  4.830401e-01
##   [1433,] -8.323131e-01  1.518245e+00 -1.175924e-01  3.665868e-01
##   [1434,] -2.183722e-01  2.097540e+00 -1.579246e+00  8.213137e-01
##   [1435,] -7.604291e-01  1.346003e+00  1.096891e+00  5.534618e-01
##   [1436,] -1.416755e+00 -5.523226e-01 -5.049345e-01  1.367037e+00
##   [1437,] -1.003566e+00 -9.175320e-01 -3.868080e-02  5.591225e-01
##   [1438,]  1.313758e+00  1.042642e+00 -2.051839e+00  1.245477e+00
##   [1439,] -1.184652e+00 -5.507350e-01 -2.036961e+00  1.703907e+00
##   [1440,] -1.207511e+00 -8.964913e-01 -1.965676e+00  3.463175e+00
##   [1441,] -9.341598e-03 -4.465958e-01 -4.803861e-01  1.339578e+00
##   [1442,] -1.019745e-01  2.357354e-01 -4.286493e-01  1.326298e+00
##   [1443,]  5.236869e-01  1.127613e-01 -2.101366e-01  2.889594e+00
##   [1444,] -9.792031e-02  2.490266e-01 -7.185730e-02  1.357769e+00
##   [1445,]  1.214734e+00  3.903372e-01 -7.939264e-02  9.970770e-01
##   [1446,]  6.905814e-01 -4.158064e-02 -1.822251e+00  8.388449e-01
##   [1447,] -6.656770e-02  6.867988e-01  1.400909e+00  2.377203e+00
##   [1448,] -2.884934e-01  3.093363e-02 -8.933088e-01  1.492477e-01
##   [1449,] -4.713170e-01  4.081313e-01  1.441779e+00  2.156271e+00
##   [1450,]  1.129572e+00 -1.936195e-01 -2.508949e-01  7.128798e-01
##   [1451,]  1.144884e+00 -4.223248e-01 -4.089481e-01  2.555749e+00
##   [1452,]  1.029715e+00  2.228047e+00  6.479330e-01  4.890119e-01
##   [1453,]  1.106832e+00 -7.458852e-01 -4.738531e-02  6.107712e-01
##   [1454,]  7.823287e-01  6.985336e-01 -6.244521e-01  1.520930e+00
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##   [1455,] -9.225998e-01  8.366692e-01  1.282201e+00  3.936206e-01
##   [1456,]  6.331045e-01  5.935805e-01  1.022220e+00  9.327539e-01
##   [1457,]  6.328052e-01  2.282092e-02  2.812349e-01  9.873345e-01
##   [1458,]  1.266979e+00  3.525192e-01  1.255180e+00  2.466395e+00
##   [1459,]  1.229573e+00  1.109053e+00 -1.894311e+00  8.057269e-01
##   [1460,] -6.740126e-01 -8.152345e-01 -1.749543e+00  2.715567e+00
##   [1461,]  1.221961e+00  4.740133e-01  1.227082e+00  2.593237e+00
##   [1462,] -2.930598e-01 -1.103713e+00  1.480774e+00  3.292899e-01
##   [1463,]  4.648367e-01  1.583319e-01  1.008014e+00  9.793383e-01
##   [1464,] -5.600990e-01  1.270975e+00 -4.122523e-01  1.163781e+00
##   [1465,] -1.040229e+00  2.292165e+00  2.114867e-01  1.412584e-01
##   [1466,] -5.471468e-02 -1.050127e+00 -2.085548e-01  9.108919e-01
##   [1467,] -4.460891e-01  2.064639e+00 -2.038566e-01  3.049755e-01
##   [1468,] -8.937852e-01  1.784801e+00 -2.861583e-01  7.855728e-01
##   [1469,]  2.100588e-01  5.768961e-02  8.762503e-01  1.354402e+00
##   [1470,] -1.373031e+00  8.833869e-01 -5.517448e-01  1.181512e+00
##   [1471,]  1.263970e+00  6.847820e-01  1.058886e+00  7.992390e-01
##   [1472,] -8.680472e-01 -2.429081e-01 -7.285340e-01  3.284404e+00
##   [1473,]  6.615251e-01  8.665000e-01  1.195252e+00  2.732334e+00
##   [1474,]  7.532929e-01  3.304690e-01  8.594743e-01  3.254829e+00
##   [1475,]  1.172928e+00 -2.566818e-01 -1.478349e+00  2.527042e-01
##   [1476,] -1.272684e-01 -1.210321e+00 -1.426958e+00  3.176039e-01
##   [1477,] -6.188657e-01 -5.830252e-01 -1.387414e+00  1.477357e+00
##   [1478,] -2.411649e+00  7.961337e-01  4.631187e-01  2.557045e+00
##   [1479,] -2.034045e+00  1.218554e+00 -2.471942e-01  1.655064e-01
##   [1480,] -9.260517e-01  1.232186e-01 -1.067286e-01  6.765763e-01
##   [1481,]  1.255180e+00 -1.342450e-01 -3.810414e-01  1.064023e+00
##   [1482,]  5.835583e-02  1.046248e+00  1.112619e+00  2.750178e+00
##   [1483,] -1.675993e-01  1.262511e+00  1.248947e+00  3.492335e-01
##   [1484,] -1.292704e-01 -5.788228e-01 -1.081261e+00  1.173547e+00
##   [1485,] -8.533666e-01  4.393130e-01  9.358283e-02  7.149649e-01
##   [1486,]  1.639680e-01 -2.029640e-01 -5.643171e-01  2.999299e+00
##   [1487,] -1.682512e+00  1.275830e+00 -2.896234e-01  7.962586e-02
##   [1488,] -1.053192e-01  1.637216e+00 -6.030892e-01  1.428386e+00
##   [1489,] -2.282622e+00  1.494489e+00 -1.717413e-01  1.440748e+00
##   [1490,]  1.109986e+00 -1.219904e+00  1.584260e+00  2.124941e+00
##   [1491,]  1.248617e+00  5.402940e-01  1.087681e+00  9.577878e-01
##   [1492,] -7.900803e-01  1.140442e+00  1.244274e+00  5.913609e-01
##   [1493,] -1.587315e+00  6.276834e-01 -1.568417e+00  6.140125e-01
##   [1494,] -1.943323e+00  2.035183e-01 -2.054950e-01  8.531971e-01
##   [1495,] -1.254366e+00  1.501524e+00 -8.397199e-01  5.114084e-02
##   [1496,]  1.065476e+00  6.478710e-01  4.200440e-01  6.812676e-01
##   [1497,]  1.790863e-02  1.360242e-01  7.773307e-01  3.064844e+00
##   [1498,]  4.953127e-01 -6.531995e-01 -1.269701e+00  6.138984e-01
##   [1499,] -7.477635e-01 -7.660537e-01 -1.157259e+00  2.984007e+00
##   [1500,]  2.461096e-01 -1.278061e+00  2.565852e-01  2.024909e+00
##   [1501,]  1.205658e+00 -3.740172e-01  1.284108e+00  6.254393e-01
##   [1502,]  3.918668e-01 -3.550222e-01  1.314956e+00  4.798233e-01
##   [1503,] -7.406392e-01 -1.798675e+00 -4.889593e-02  2.695367e+00
##   [1504,]  8.381474e-01  1.748735e+00  1.054443e-01  1.113179e-01
##   [1505,] -1.258241e-01  4.108789e-01 -3.629993e-01  1.144471e+00
##   [1506,] -1.720539e+00  9.319408e-01 -4.677250e-01  1.486444e-01
##   [1507,]  3.508796e-01  3.116838e-01  1.027133e-01  6.803062e-01
##   [1508,] -1.835140e+00 -9.026750e-01  1.538983e+00  2.236318e+00
##   [1509,] -5.842952e-01 -6.438403e-01  4.869308e-01  2.940179e+00
##   [1510,] -8.348673e-01 -9.252486e-01 -1.821348e+00  2.938572e+00
##   [1511,] -9.544192e-02  1.924536e+00  1.140905e+00  6.468628e-01
##   [1512,] -1.664631e+00  2.827385e-01 -2.892694e-01  9.607798e-01
##   [1513,] -1.089520e+00  1.165439e+00  1.315686e+00  4.152864e-01
##   [1514,] -3.479267e-02 -1.151793e+00  1.239282e+00  2.773102e+00
##   [1515,]  7.381882e-01 -1.625798e-02 -7.924286e-01  1.219098e+00
##   [1516,]  4.247387e-01  4.384924e-01  1.176695e+00  3.202741e-01
##   [1517,] -7.795579e-01 -1.126751e-01  8.777818e-01  3.248501e+00
##   [1518,] -9.652376e-01  2.462310e+00  1.088813e-01  4.355563e-01
##   [1519,] -6.618624e-01 -1.164758e+00 -1.490158e-01  9.035990e-01
##   [1520,] -1.447824e+00 -2.628220e-01 -4.304918e-01  4.123051e-01
##   [1521,]  6.445292e-01 -3.094006e-01 -3.013672e-01  9.757742e-01
##   [1522,]  8.855762e-01  2.460424e-01 -8.476463e-01  1.916550e-01
##   [1523,] -7.464986e-01 -2.859005e-01 -5.497893e-01  9.935060e-01
##   [1524,] -1.362223e+00  8.579075e-01  8.353246e-01  1.252293e+00
##   [1525,] -3.384944e-01  2.069810e-01 -6.134251e-01  2.056177e+00
##   [1526,]  1.561869e-01 -2.089932e-01 -7.595965e-01  3.313204e+00
##   [1527,] -1.370610e+00 -7.575111e-01 -1.320231e+00  3.060358e+00
##   [1528,] -1.149520e+00  1.656396e+00 -1.397772e+00  1.249962e-01
##   [1529,]  7.631408e-01  1.822975e-01  7.407401e-01  1.450803e+00
##   [1530,] -8.645511e-01 -5.162019e-01 -7.178542e-01  3.267746e+00
##   [1531,] -7.117190e-01 -8.033011e-01  3.123281e-01  8.175297e-01
##   [1532,] -3.676173e-01  8.529797e-01 -1.619905e+00  2.177103e+00
##   [1533,]  7.042664e-01  3.987647e-01  9.559694e-01  3.129453e+00
##   [1534,]  1.316214e+00  4.306044e+00  9.878302e-01  1.189286e+00
##   [1535,]  1.378117e+00  4.808977e-01  1.032733e+00  1.018318e+00
##   [1536,]  1.595420e-01  4.251594e-01  6.248671e-02  1.559261e+00
##   [1537,] -4.924949e-01 -2.717183e-01  8.635761e-01  1.430283e+00
##   [1538,] -5.615820e-01  4.846466e-02  1.615186e-02  1.278559e+00
##   [1539,]  6.897717e-01  1.105347e+00  8.071682e-01  1.019774e+00
##   [1540,] -5.581612e-01  3.511040e-01  7.831572e-01  3.402167e+00
##   [1541,] -1.623336e+00  1.306899e+00  7.068311e-01  4.389885e-01
##   [1542,]  9.838440e-01 -4.170531e-01  1.314565e-01  2.019205e+00
##   [1543,] -2.959841e+00  1.853672e+00  8.032689e-01  1.317294e+00
##   [1544,] -2.605494e-01  7.103344e-01  9.622031e-01  9.068239e-01
##   [1545,]  3.079462e-01  2.240375e+00 -1.206183e+00  2.266246e+00
##   [1546,] -9.373872e-01 -6.579901e-02 -2.935813e-01  3.142678e+00
##   [1547,] -2.722126e+00  6.230136e-01 -1.011174e+00  1.813186e+00
##   [1548,] -1.989538e+00  1.997702e-01 -1.616932e+00  1.187278e+00
##   [1549,] -5.012513e-02  4.647217e-01  9.034789e-01  8.395730e-01
##   [1550,]  5.596229e-01 -3.517332e-01 -1.365144e+00  2.928372e+00
##   [1551,]  1.152986e+00  6.822471e-01 -1.508534e-01  5.210785e-01
##   [1552,]  5.771465e-01 -3.635071e-01  1.099917e+00  8.316077e-01
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##   [1553,]  6.072363e-01  1.548213e+00 -1.751945e+00  2.689377e+00
##   [1554,] -1.492918e+00  2.346828e+00 -1.382425e+00  8.182021e-01
##   [1555,] -1.001980e-01 -4.420228e-01 -1.864374e+00  2.895741e+00
##   [1556,]  1.619108e-02  8.370257e-01 -2.658380e-01  2.963124e+00
##   [1557,]  7.036349e-02 -8.239105e-01  1.175135e+00  2.765108e+00
##   [1558,] -1.176086e+00  2.493819e-01  8.000241e-01  9.051913e-02
##   [1559,]  1.294403e+00  2.540026e-01  1.007866e+00  1.055148e+00
##   [1560,] -1.401973e-01 -1.211755e+00 -1.351963e+00  4.957663e-01
##   [1561,]  1.242082e+00  5.154658e-01 -1.609856e+00  1.045673e+00
##   [1562,]  5.245546e-01  2.924434e-01  2.408476e-01  1.106730e+00
##   [1563,] -2.724041e-01  8.866510e-01  1.238221e+00  5.935931e-01
##   [1564,]  1.037135e-01 -6.573359e-01 -4.087098e-01  1.222938e+00
##   [1565,] -1.427912e-01 -6.155937e-01  1.249076e+00  7.416378e-01
##   [1566,] -7.607363e-01 -1.061531e+00  1.372847e+00  2.520873e+00
##   [1567,] -5.711372e-01 -4.010327e-01  8.618758e-01  1.440261e+00
##   [1568,]  1.416363e+00  1.152566e+00  1.114000e+00  2.968062e+00
##   [1569,]  4.105337e-01  9.853697e-01 -1.676611e-01  2.504073e+00
##   [1570,]  7.441396e-01  3.001227e-01  9.658828e-01  1.080023e+00
##   [1571,]  4.331114e-01 -1.292706e-01  1.065629e+00  5.975585e-01
##   [1572,] -2.256314e-01  5.031110e-01 -1.090550e-01  2.500854e+00
##   [1573,]  6.184795e-01  6.973953e-01 -1.299083e+00  1.098843e+00
##   [1574,] -7.466857e-01  1.607908e-01  9.263452e-01  1.112820e+00
##   [1575,] -6.859244e-01 -7.524218e-01 -9.123929e-01  3.155269e+00
##   [1576,]  1.455701e-01 -1.762764e-01 -1.725661e+00  1.331433e+00
##   [1577,]  1.255142e+00  1.043515e+00  2.818987e-01  1.020749e+00
##   [1578,]  7.422653e-01  2.989087e-01  9.344668e-01  1.087257e+00
##   [1579,]  4.683498e-01 -8.338127e-02  1.083392e+00  2.796617e+00
##   [1580,]  1.072792e+00  1.458492e+00  1.216256e+00  3.236292e-01
##   [1581,]  6.276492e-01  2.496558e+00 -1.802052e+00  9.589338e-01
##   [1582,] -6.038874e-01  7.732477e-01 -1.306125e+00 -2.580071e-01
##   [1583,] -8.810232e-01  1.365173e+00 -1.579968e-01  6.586187e-01
##   [1584,]  1.184897e+00 -5.670331e-01  1.274110e+00  2.541105e+00
##   [1585,]  1.110324e+00 -1.173353e+00  1.502757e-01  2.937617e-01
##   [1586,]  7.019983e-01 -4.014822e-01  1.087974e+00  9.732365e-01
##   [1587,] -9.190254e-02 -3.387493e-01 -4.688544e-01  2.913956e+00
##   [1588,]  1.338660e+00 -3.058635e-01 -4.189837e-01  2.642071e+00
##   [1589,] -1.267540e+00  6.478307e-01  9.758407e-01  1.025316e+00
##   [1590,]  1.237824e+00  5.302599e-01  9.125169e-01  1.108138e+00
##   [1591,] -2.618286e-01  3.585987e-02  1.043896e+00  9.645792e-01
##   [1592,] -4.434599e-01  9.399426e-01  4.967859e-01  9.181834e-02
##   [1593,] -8.772251e-01 -4.068232e-01  6.061345e-01  2.938717e-01
##   [1594,] -1.278156e+00  1.018826e+00 -4.770499e-01  3.030848e+00
##   [1595,] -1.405366e+00 -1.065988e+00 -4.307973e-01  1.139514e+00
##   [1596,] -8.954638e-01 -1.317476e+00 -1.323718e+00  4.804850e-01
##   [1597,]  7.755859e-01  8.819091e-01 -7.159260e-01  1.411349e+00
##   [1598,]  8.388689e-01  1.162711e+00  8.722738e-02 -1.032308e-01
##   [1599,] -1.506866e+00  9.298379e-01 -3.811025e-01  4.323589e-01
##   [1600,] -1.349088e+00 -1.070437e+00  9.674533e-01  3.338441e+00
##   [1601,] -6.018872e-02  1.273756e+00  9.966983e-01  9.128838e-01
##   [1602,] -1.799295e+00 -1.712684e+00  7.297818e-01  2.806337e+00
##   [1603,] -3.746314e-01 -4.379413e-01  5.423370e-01  6.152600e-01
##   [1604,] -6.164769e-02 -1.035639e+00 -6.725575e-02  2.703062e+00
##   [1605,] -3.108328e-01  1.951567e-01 -5.547690e-01  3.183408e-01
##   [1606,]  3.954874e-02 -7.662945e-02 -1.938829e+00  1.436273e+00
##   [1607,] -1.616865e+00  4.391512e-01 -1.796447e-01  7.664940e-01
##   [1608,]  1.085396e-01  7.926267e-02 -1.722081e+00  3.228493e+00
##   [1609,]  8.154416e-01  6.344601e-01  8.279099e-01  1.292948e+00
##   [1610,] -3.778627e-01  6.261681e-01  1.327822e+00  3.357404e-01
##   [1611,]  9.659425e-01  1.812046e-01  1.281380e+00  1.275790e-01
##   [1612,]  1.211499e+00 -4.006799e-02  1.087061e+00  9.538320e-01
##   [1613,] -6.358040e-01 -1.534553e-01 -4.384935e-01  3.519528e+00
##   [1614,] -1.258330e-01 -5.795728e-01 -6.103798e-02  4.380882e-01
##   [1615,]  7.745948e-01 -2.046258e-01 -3.766143e-01  1.090418e+00
##   [1616,] -9.441862e-02  1.063693e+00 -5.989326e-01  1.001507e+00
##   [1617,]  6.515148e-01  9.780503e-02 -5.930745e-01  1.000088e+00
##   [1618,] -2.941926e+00 -7.251776e-01 -3.526245e-01  7.926422e-01
##   [1619,] -3.836850e-02  1.275808e+00 -5.674709e-01  8.995122e-01
##   [1620,] -1.095414e+00 -1.689014e+00  1.352775e+00  2.607331e+00
##   [1621,] -1.040484e+00 -1.019121e+00  1.285439e+00  6.720726e-01
##   [1622,] -7.778695e-01  2.646502e+00  9.505581e-01  3.051085e+00
##   [1623,]  7.904340e-01  3.008086e+00 -1.139247e+00  2.093761e+00
##   [1624,]  7.223185e-01 -1.410532e-01  9.051725e-01  1.201728e+00
##   [1625,]  1.172114e-01 -1.437649e-01 -9.116042e-02  1.092990e+00
##   [1626,] -1.418267e+00  3.035424e-01 -1.676469e+00  9.611515e-01
##   [1627,]  5.321328e-01  1.902767e-01  5.722060e-01  1.132485e+00
##   [1628,] -3.752943e-03 -1.236384e-01  1.069624e+00  8.526343e-01
##   [1629,]  1.276516e+00  1.305401e+00 -7.227290e-01  1.208887e+00
##   [1630,] -9.634753e-01  4.574349e-02 -1.535448e+00  2.788361e-01
##   [1631,] -6.782232e-01 -1.354481e+00 -1.063857e+00  2.629456e+00
##   [1632,] -1.386977e+00  1.709418e-01 -1.111607e+00  3.983425e+00
##   [1633,] -5.710427e-01 -2.943801e-01  9.295893e-01  1.250894e+00
##   [1634,] -6.186504e-01 -3.426461e-01  8.273015e-01  1.363086e+00
##   [1635,] -2.848155e-01 -1.887391e+00  1.345162e+00  2.323768e+00
##   [1636,]  4.141270e-01 -7.232362e-02  1.266483e+00  5.611063e-01
##   [1637,] -4.332052e-01  1.128234e+00 -1.543090e+00  2.308589e+00
##   [1638,] -7.318096e-01 -7.344935e-01 -4.063592e-01  2.793945e+00
##   [1639,] -2.561106e-01  7.532558e-01  1.354063e+00  3.642825e-01
##   [1640,]  1.829522e-01  5.951380e+00 -4.655947e-01  1.975953e+00
##   [1641,] -7.958605e-02 -5.417365e-01  3.041518e-01  1.134215e+00
##   [1642,] -2.290868e-01  2.038865e-01 -6.803289e-01  2.938859e-01
##   [1643,]  5.564816e-02 -2.416418e-01 -7.849676e-02  2.910197e+00
##   [1644,]  3.783602e-01 -1.025834e+00  1.314688e+00  6.158576e-01
##   [1645,] -2.309846e-01 -7.579335e-01  4.829728e-02  9.136087e-01
##   [1646,]  1.029372e-02 -3.543820e-01  9.168327e-01  1.178335e+00
##   [1647,]  7.269423e-02  2.381791e-01  1.936171e-01  1.000407e+00
##   [1648,]  1.254210e+00  9.734558e-01 -3.986480e-01  6.069017e-01
##   [1649,]  7.989881e-01 -9.529749e-02  9.573950e-01  1.162317e+00
##   [1650,] -1.732221e+00  7.183963e-01  7.408538e-01  1.957213e+00
```

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##   [1651,]  1.173380e+00  1.894741e+00 -9.295061e-01  5.530155e-01
##   [1652,]  5.984717e-01 -6.715748e-01  1.367231e+00  2.506309e+00
##   [1653,] -1.657073e+00  5.170494e-01  8.304084e-02  6.813154e-01
##   [1654,] -6.213850e-01  7.437250e-01 -1.550653e+00  1.209647e+00
##   [1655,]  8.148938e-01 -1.380478e-02 -3.752579e-01  1.266067e+00
##   [1656,] -2.415599e-01  2.005686e-01  1.013466e+00  1.027072e+00
##   [1657,]  1.136819e+00  1.953366e-01  3.694022e-01  5.158341e-01
##   [1658,]  1.393954e+00  6.164416e-01 -1.825622e+00  1.040107e+00
##   [1659,] -3.912468e-02  4.764981e-02  5.441968e-02  7.481059e-01
##   [1660,] -5.833152e-01  1.110608e+00 -2.557079e-01  3.144174e-01
##   [1661,] -9.371343e-01  1.650689e+00 -1.226467e+00  8.219224e-01
##   [1662,] -7.621756e-02 -1.328672e+00  1.282476e+00  8.093194e-01
##   [1663,] -2.227318e+00 -7.438431e-01  1.301617e+00  2.609645e+00
##   [1664,] -1.180860e-02  1.311486e+00 -5.400816e-01  9.447758e-01
##   [1665,] -9.419846e-01 -2.916700e-01  1.290721e+00  5.679162e-01
##   [1666,] -1.172941e-01  1.814851e+00  1.032326e+00  3.236284e+00
##   [1667,] -3.222884e+00  1.980861e-01  1.238986e+00  6.986498e-01
##   [1668,]  1.346684e+00  4.333378e-01  1.096828e+00  8.303458e-01
##   [1669,] -1.290901e+00 -3.933937e-01 -6.963465e-01  1.506614e+00
##   [1670,]  5.455044e-01  1.739337e-01  1.125812e+00  6.936202e-01
##   [1671,]  1.328677e+00 -1.521292e-01 -4.004216e-01  2.903569e+00
##   [1672,] -9.415686e-01 -1.188219e+00  1.272959e+00  6.853528e-01
##   [1673,]  1.314554e+00 -2.968136e-01 -1.087143e+00  7.604013e-01
##   [1674,] -1.709417e-01  4.685479e-01  4.704073e-01  6.705192e-01
##   [1675,]  6.655493e-01 -3.731636e-01 -2.634608e-01  2.941204e+00
##   [1676,] -7.206481e-01 -5.080202e-01 -1.923167e+00  1.201467e+00
##   [1677,] -1.123389e+00 -1.719210e+00  1.500646e+00  2.498250e+00
##   [1678,] -2.587560e-01  1.596300e+00  1.249393e-01  4.478086e-01
##   [1679,]  7.968044e-01 -2.763980e-01  4.437648e-01  3.047426e+00
##   [1680,] -2.419810e-03  2.985292e-01  2.341028e-01 -1.425091e-01
##   [1681,]  8.966824e-02 -5.748551e-01 -3.774005e-01  2.990599e+00
##   [1682,] -6.188010e-01  2.964666e-01  1.813419e-01 -3.816187e-02
##   [1683,] -5.067871e-02 -4.114546e-01  9.383470e-01  1.247027e+00
##   [1684,] -5.605987e-01 -2.662864e-01 -1.653399e+00  1.224958e+00
##   [1685,] -8.425973e-01  1.751008e+00  1.283614e+00  3.556167e-01
##   [1686,]  4.293561e-01  2.594534e+00 -5.657465e-01  6.285170e-01
##   [1687,]  1.320151e+00 -1.761296e-01  6.623473e-01  2.639172e+00
##   [1688,] -7.083016e-01 -1.117402e+00 -1.382366e-01  2.839680e+00
##   [1689,]  4.457996e-02 -5.505792e-01 -2.960570e-01  3.027485e+00
##   [1690,] -1.385239e+00 -8.554298e-01 -4.250765e-01  1.433112e+00
##   [1691,]  6.336302e-01 -7.350758e-03 -5.173361e-01  7.421831e-01
##   [1692,]  7.612806e-01  6.551271e-01  8.861146e-01  1.237212e+00
##   [1693,] -2.875565e+00  2.609427e-01 -3.518654e-01  1.061617e+00
##   [1694,]  1.365941e+00  1.062249e+00  3.181766e-02  2.838435e+00
##   [1695,] -4.753153e-02 -3.991871e-01 -2.345650e-01  9.812985e-01
##   [1696,]  4.472907e-02  1.277189e-01  6.933145e-01  1.559762e+00
##   [1697,] -1.215431e+00 -1.107819e+00 -1.364747e+00  1.619344e-01
##   [1698,] -5.635003e-02 -3.388567e-01 -2.740561e-01  1.195738e+00
##   [1699,]  4.589256e-01 -1.230884e+00 -4.698605e-01  4.888473e-01
##   [1700,] -1.926042e+00  7.553586e-02  1.080543e+00  9.107197e-01
##   [1701,] -7.805591e-01  6.034809e-01  1.160352e+00  3.706208e-01
##   [1702,]  7.204839e-01 -8.569598e-01  1.143545e+00  2.811445e+00
##   [1703,] -2.090910e-01  1.763348e+00  8.494100e-01  4.848333e-01
##   [1704,]  1.276029e+00  3.551706e-01 -9.058276e-01  7.354367e-01
##   [1705,] -3.027903e-01  3.839500e-01 -4.779441e-01  7.000975e-01
##   [1706,] -8.751244e-01 -6.170639e-01 -1.782438e+00  2.868018e+00
##   [1707,]  1.080810e+00  1.462563e+00 -3.866905e-01  7.844612e-01
##   [1708,]  1.412303e+00  4.735900e-01 -7.303657e-01  1.194947e+00
##   [1709,]  1.189098e+00  3.843224e-01 -4.889010e-01  7.772175e-01
##   [1710,]  7.228337e-01  2.121760e-01 -6.417827e-01  3.107785e+00
##   [1711,]  5.721202e-01 -3.856169e-01  1.154893e+00  2.742803e+00
##   [1712,] -1.381082e-02  2.294154e-01  9.616142e-01  3.212155e+00
##   [1713,] -1.426799e+00  1.215376e+00  1.124930e+00  2.728531e+00
##   [1714,]  3.404326e-01 -2.738478e-01  4.827666e-01  3.401945e-01
##   [1715,]  3.106522e-01 -1.284176e+00 -1.217119e+00  2.184506e+00
##   [1716,] -7.403851e-01 -1.850614e-01  5.169763e-03  3.290263e+00
##   [1717,]  2.250457e-01  8.173591e-01  1.354456e-01  1.429820e+00
##   [1718,]  2.311874e-01 -6.172683e-01  5.182944e-01  1.338183e+00
##   [1719,] -7.638557e-01  7.241568e-02 -1.777438e+00  1.415311e+00
##   [1720,]  1.285816e+00  9.813129e-01  1.093752e+00  2.802404e+00
##   [1721,] -1.554486e+00  9.081389e-01 -1.250078e-01  1.245705e+00
##   [1722,]  1.196475e+00  1.312438e+00  6.870244e-01  7.372294e-01
##   [1723,] -7.774094e-02 -9.622668e-01 -2.614746e-01  2.945155e+00
##   [1724,] -2.864054e-01 -1.880489e-01  1.527827e+00  1.755639e-01
##   [1725,]  7.376521e-01 -7.660517e-02  8.084730e-01  1.358139e+00
##   [1726,] -1.921722e-01 -4.099055e-01  9.916403e-01  1.087714e+00
##   [1727,] -3.558693e-01  4.642412e-01 -1.539804e+00  2.897001e-01
##   [1728,] -2.132928e-02  2.682922e-01 -1.578436e+00  1.081919e+00
##   [1729,] -5.301614e-01 -3.837181e-01  2.128006e-02  3.161596e+00
##   [1730,]  4.034833e-01  2.216521e+00  1.895907e-01  3.079464e-01
##   [1731,]  1.038958e+00  1.544023e+00  1.240540e+00  2.547164e-01
##   [1732,]  6.038954e-01 -1.744192e-01  1.062099e+00  9.988778e-01
##   [1733,] -7.077049e-02  1.080188e+00 -5.282831e-01  8.078286e-01
##   [1734,] -1.536124e+00 -7.030531e-01 -1.917230e+00  3.505773e+00
##   [1735,]  8.579844e-01 -1.663933e-01  9.645086e-01  3.125091e+00
##   [1736,] -9.980646e-01 -8.355970e-01  1.067333e+00  1.106521e+00
##   [1737,] -1.667394e+00 -1.632782e+00  5.738859e-01  2.713902e+00
##   [1738,] -1.974149e-01  4.219161e-02 -4.348563e-01  1.072608e+00
##   [1739,]  9.936384e-01  3.410647e+00  1.120894e+00  2.754667e-01
##   [1740,] -2.287439e+00 -7.042206e-02 -1.031482e+00  1.098339e+00
##   [1741,] -5.438357e-01 -4.303969e-01  9.723384e-01  3.307449e+00
##   [1742,]  1.507248e+00  8.827272e-01 -5.617631e-01  1.222758e+00
##   [1743,]  5.561892e-01 -4.071061e-01 -1.496753e+00  5.707164e-01
##   [1744,]  8.413614e-01 -6.203539e-02 -1.045675e+00  1.334878e+00
##   [1745,]  1.383842e+00  5.141401e-01 -2.282741e-01  2.857939e+00
##   [1746,] -2.316774e+00  1.553710e+00 -5.588667e-01  7.930840e-01
##   [1747,]  7.128753e-01  4.712756e-01  6.670788e-01  1.001232e+00
##   [1748,]  1.225898e+00  2.685236e-02 -1.828846e+00  8.098747e-01
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##   [1749,] -2.986160e-01  1.657088e+00  2.424532e-01  2.372304e+00
##   [1750,]  1.015619e+00 -3.905235e-01  1.378939e+00  2.294875e+00
##   [1751,]  7.821484e-01  9.991317e-01  1.403070e+00  7.323357e-02
##   [1752,]  1.145463e+00 -3.679378e-01  3.184510e-01  7.335465e-01
##   [1753,] -2.808165e-01 -1.544155e-01 -1.135088e+00  7.904797e-01
##   [1754,] -5.754906e-01 -8.498773e-01  4.696330e-01  1.161546e+00
##   [1755,] -1.680733e+00  4.412946e-01  1.081276e+00  9.437286e-01
##   [1756,]  8.505923e-01  8.677269e-01 -6.791017e-01  1.759418e-01
##   [1757,]  4.661564e-01  1.004933e+00  6.394705e-01  5.665217e-01
##   [1758,]  3.006427e-01  4.589900e-01  1.278280e+00  3.720808e-01
##   [1759,] -8.655969e-01 -5.440453e-01 -8.713565e-01  1.121574e+00
##   [1760,] -7.709466e-01  9.540445e-01 -2.748633e-02  5.909418e-01
##   [1761,] -9.087468e-01 -1.205604e-01  8.058806e-01  1.425762e+00
##   [1762,]  5.343077e-01 -5.331763e-01  1.111970e+00  2.883848e+00
##   [1763,] -1.210065e+00  9.691253e-01 -1.804677e+00  1.355969e+00
##   [1764,] -1.743624e+00  5.805758e-02  9.886077e-01  4.290667e-01
##   [1765,] -5.259448e-01  8.586331e-01  1.551323e+00 -1.723485e-02
##   [1766,]  1.325120e+00  9.917132e-01  1.072260e+00  2.791441e+00
##   [1767,]  7.962140e-01  8.235691e-01 -1.633571e+00  1.353016e+00
##   [1768,] -5.676005e-01  1.246020e-01  6.241557e-01  3.771790e+00
##   [1769,] -2.023447e+00  1.959779e-02  8.616647e-01  1.366146e+00
##   [1770,] -2.754383e-01  1.733991e-01  3.751517e-02  4.920144e-01
##   [1771,] -1.785934e+00  1.122399e+00  1.348004e-01  1.878399e+00
##   [1772,]  1.511629e-01 -1.807657e-02 -1.998117e+00  1.480608e+00
##   [1773,]  5.334626e-01 -6.747174e-02 -7.152965e-01  7.181926e-01
##   [1774,] -6.456232e-01 -5.119140e-01 -4.628224e-01  3.242028e+00
##   [1775,]  7.462646e-01 -2.019359e-01  8.729839e-01  1.255734e+00
##   [1776,]  6.918898e-01 -3.525768e-02 -4.491174e-01  3.028614e+00
##   [1777,] -1.700708e+00 -1.078972e+00 -9.325466e-02  3.066007e+00
##   [1778,]  4.085735e-01  1.801538e-01  1.312373e+00  5.523789e-01
##   [1779,]  3.647531e-01 -9.514705e-01  7.870548e-02  2.790347e-01
##   [1780,]  6.726247e-01  1.519293e+00 -5.944135e-01  1.106707e+00
##   [1781,] -1.500815e+00  1.446788e-01 -1.695161e-01  3.264404e-01
##   [1782,]  6.657635e-01  1.572659e-01  6.007948e-01  8.417968e-01
##   [1783,] -1.112450e+00 -3.624348e-01 -1.266926e+00  1.026545e-01
##   [1784,]  1.427595e+00  4.602294e-01 -7.439906e-01  3.195861e+00
##   [1785,] -6.844341e-01  5.011470e-01  8.238188e-01  1.471277e+00
##   [1786,]  4.074032e-02 -4.464171e-01 -1.712570e+00  1.033745e+00
##   [1787,] -1.013318e+00 -8.161472e-01  1.036330e+00  1.088773e+00
##   [1788,] -2.245279e-01  1.536795e+00 -4.773195e-01  2.591344e+00
##   [1789,] -1.333799e+00 -1.384597e+00 -1.344773e+00  3.095993e+00
##   [1790,]  6.025272e-01  8.703748e-01  1.236816e+00  2.601918e+00
##   [1791,]  1.181838e-01 -7.489681e-02  9.476678e-01  1.138925e+00
##   [1792,] -1.370223e+00 -2.873609e-01  7.875211e-01  1.735883e+00
##   [1793,]  2.641097e-02 -2.625058e-01  9.628568e-01  3.054875e+00
##   [1794,]  1.271184e+00 -1.363133e-01 -2.925687e-01  9.534391e-01
##   [1795,] -2.887118e-02 -9.382342e-01  1.257857e+00  2.695315e+00
##   [1796,]  2.854917e-01  1.989227e+00 -1.466628e+00  2.248428e+00
##   [1797,]  1.290187e+00  7.629235e-01 -2.266770e-01  7.233669e-01
##   [1798,] -1.414957e+00 -2.206876e-01  1.387168e-01  3.051317e+00
##   [1799,] -9.646015e-01 -3.170389e-02  7.718813e-01  5.634871e-01
##   [1800,] -6.522597e-01 -7.930485e-01  9.993853e-01  1.203991e+00
##   [1801,] -8.357371e-01 -6.157960e-01  1.158336e+00  2.829598e+00
##   [1802,] -2.692490e-01 -7.581542e-01 -1.356745e+00  4.628017e-02
##   [1803,]  1.041644e+00 -5.622614e-01 -1.566793e+00  4.236016e-01
##   [1804,] -8.213203e-01  6.674134e-01  7.262617e-02  4.359371e-01
##   [1805,] -2.235305e+00 -1.867724e+00  9.813188e-01  3.105236e+00
##   [1806,] -4.715599e-02 -5.525795e-01  1.115571e+00  8.828373e-01
##   [1807,] -5.642960e-01  1.189969e+00 -1.365733e-01  1.120216e+00
##   [1808,]  1.287508e+00 -1.904524e-01  1.288117e+00  2.556119e+00
##   [1809,]  5.411591e-01 -4.466491e-01 -4.051700e-01  1.043545e+00
##   [1810,] -6.182113e-01  9.044865e-02  1.104087e+00  2.979057e+00
##   [1811,]  1.323838e+00  1.201480e+00  2.275823e-01  1.364563e+00
##   [1812,] -5.899401e-02  1.686524e-01  1.257669e-01  1.288728e+00
##   [1813,]  2.666622e-01 -1.065580e+00 -1.215394e+00 -1.945127e-02
##   [1814,] -1.693540e+00  2.208316e+00 -1.640552e+00  5.447019e-01
##   [1815,] -5.545955e-01  7.987914e-01 -1.897401e+00  8.802293e-01
##   [1816,]  6.403645e-01  1.303891e+00 -1.442986e+00  8.389085e-01
##   [1817,] -1.055188e+00  9.988514e-01  4.832937e-01  2.208690e+00
##   [1818,]  1.095753e+00 -1.333878e+00  1.530689e+00  2.531520e-01
##   [1819,]  1.043985e-01 -7.999707e-01  1.071002e+00  1.016041e+00
##   [1820,]  5.691950e-01 -4.770532e-01 -3.509479e-01  2.985801e+00
##   [1821,] -7.928178e-01 -7.658556e-01  9.508048e-01  1.295200e+00
##   [1822,] -1.437040e+00  2.216803e-01 -3.878633e-01  1.177681e+00
##   [1823,]  4.733174e-01  6.059284e-01  9.653766e-01  4.348992e-01
##   [1824,]  1.248720e+00  2.803292e-01 -1.580188e-01  7.927325e-01
##   [1825,]  7.200332e-01  2.712195e-01 -5.626206e-01  1.204033e+00
##   [1826,]  7.695877e-01  4.827066e-01  8.526237e-01  1.183037e+00
##   [1827,] -1.503746e+00  2.162333e+00  1.079794e+00  6.336483e-01
##   [1828,]  6.363695e-01 -1.125933e-01  8.140039e-01  1.365351e+00
##   [1829,]  5.129842e-01 -1.848762e-01 -5.334888e-01  2.839127e+00
##   [1830,]  6.706782e-01 -1.993685e-01 -6.370843e-01  1.119375e+00
##   [1831,] -1.061115e+00  1.377214e+00 -9.478550e-02  3.596091e-01
##   [1832,] -1.938860e-02  1.715029e-01 -5.207471e-01  1.324735e+00
##   [1833,]  1.101957e+00  3.808327e-01 -1.380782e+00  6.798145e-01
##   [1834,]  8.139020e-01  1.581956e+00  9.208794e-02  1.671209e-01
##   [1835,]  1.174348e+00  2.313881e-03  2.408917e-02  8.532057e-01
##   [1836,] -8.570795e-01  1.777125e+00 -1.418424e+00  5.834125e-01
##   [1837,]  6.769895e-02  4.330490e-02  9.005545e-01  1.227438e+00
##   [1838,]  8.001389e-01  1.402191e-01 -1.563864e-01  1.168881e+00
##   [1839,]  7.304445e-01  2.020333e-04  6.751324e-01  1.607368e+00
##   [1840,]  8.758386e-01 -6.216077e-01  1.702965e+00  1.889429e+00
##   [1841,] -1.083837e+00  9.889666e-01  1.449837e+00  2.083200e+00
##   [1842,]  6.026232e-01  6.543985e-01 -5.643767e-01  8.285522e-01
##   [1843,]  1.510694e+00  9.602719e-01  7.669092e-01  1.306980e+00
##   [1844,]  4.473400e-02  7.426271e-01 -9.168236e-01  1.701717e+00
##   [1845,]  2.754981e-01  1.937175e+00  1.150346e+00  4.745011e-01
##   [1846,]  1.183564e+00  1.106970e-01  1.089848e+00  7.978639e-01
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##   [1847,] -7.520928e-01  6.682191e-01  1.278294e+00  4.571936e-01
##   [1848,] -1.105254e+00 -4.512540e-01 -1.080069e+00  8.565525e-01
##   [1849,]  7.409280e-01 -2.838775e-01 -1.626418e+00  1.161469e+00
##   [1850,]  6.549927e-01 -5.259142e-01  1.069922e+00  9.835852e-01
##   [1851,]  2.445128e-02  3.314976e-01  9.381976e-01  1.149993e+00
##   [1852,] -2.767153e-01 -1.329062e-01 -7.392825e-01  2.650053e+00
##   [1853,] -8.835425e-01  2.756213e-01  3.144463e-01  7.712513e-01
##   [1854,]  1.321979e-01 -4.668269e-01 -4.566434e-01  1.309606e+00
##   [1855,] -3.037425e-01  1.293542e+00  1.286461e+00  2.888033e-01
##   [1856,] -1.206174e-01  1.412909e+00 -2.056361e-01  4.946903e-01
##   [1857,]  1.462778e+00  3.332988e-01 -7.676077e-01  1.297191e+00
##   [1858,] -8.192436e-01 -6.592577e-01 -1.931215e+00  1.172808e+00
##   [1859,]  5.311087e-02 -3.422534e-01 -2.674969e-01  9.338522e-01
##   [1860,]  1.533979e-01  2.415180e-02  8.827509e-01  3.255269e+00
##   [1861,] -3.604819e-01  1.258904e+00 -3.856598e-01  6.847626e-01
##   [1862,]  5.965971e-01 -2.601408e-01  3.327837e-01  1.243474e+00
##   [1863,]  1.339318e+00  8.894916e-01 -5.702897e-01  8.285031e-01
##   [1864,]  1.194693e+00 -1.947258e-01 -2.246045e-01  4.983091e-01
##   [1865,]  1.243827e-01  8.592481e-01  8.176979e-01  1.525558e+00
##   [1866,]  1.167056e+00  6.448174e-01 -8.567803e-02  6.330352e-01
##   [1867,] -1.251159e+00  6.126678e-01  7.235011e-01  6.321909e-01
##   [1868,] -2.268906e-01 -6.594171e-01  4.650796e-01  9.171014e-01
##   [1869,] -4.021111e-01 -1.974566e-01  3.488181e-03  4.149193e-01
##   [1870,]  1.167601e+00  2.198273e-02  1.325397e+00  2.419034e+00
##   [1871,] -1.341865e+00 -1.205585e+00 -1.846902e+00  3.067510e+00
##   [1872,] -1.476991e+00  1.058841e+00 -1.712204e+00  4.967282e-01
##   [1873,] -3.345181e-01 -3.338569e-01  1.180911e+00  7.466968e-01
##   [1874,] -1.919625e-01  4.506848e-01  1.044130e+00  9.943035e-01
##   [1875,] -1.016665e+00 -1.239121e+00  5.867970e-01  6.791337e-01
##   [1876,]  1.133723e+00  6.221279e-01 -1.065495e+00  8.508813e-01
##   [1877,]  7.081720e-01 -2.745726e-01 -1.435503e+00  8.554175e-01
##   [1878,] -1.031974e+00  6.805534e-01  9.544955e-01  4.856502e-01
##   [1879,] -1.019367e+00  9.075017e-01  8.179641e-02  1.454864e-01
##   [1880,] -1.699477e+00  6.346920e-01 -1.609825e+00  3.410695e-01
##   [1881,]  1.954115e-03 -1.834209e-01  1.059222e+00  2.880286e+00
##   [1882,] -1.325657e+00 -1.125635e+00 -4.040281e-01  1.349895e+00
##   [1883,] -4.352692e-01 -9.220106e-01 -2.399854e-01  3.858891e-01
##   [1884,]  8.862395e-01 -8.235788e-01 -8.229721e-01  1.715821e+00
##   [1885,]  1.101846e+00 -3.732454e-01  1.003118e+00  3.852634e-01
##   [1886,] -1.608340e+00  1.177335e+00 -1.481624e-01  4.768316e-01
##   [1887,] -9.711042e-02  1.080781e+00  1.101638e+00  7.894496e-01
##   [1888,]  9.190039e-01  9.738750e-01 -9.182291e-01  1.528690e+00
##   [1889,]  3.147936e-01 -1.160701e+00 -1.050069e-01  3.738592e-01
##   [1890,] -1.443837e+00  7.384616e-01  1.086645e+00  8.195758e-01
##   [1891,] -5.959164e-01 -6.004710e-01  8.813211e-01  1.370225e+00
##   [1892,] -1.994282e-01 -5.962453e-01 -1.370063e+00  7.960819e-01
##   [1893,] -1.225586e+00 -6.475136e-01  4.057025e-01  1.646847e+00
##   [1894,]  1.355237e+00  5.512121e-01  8.052602e-01  1.267432e+00
##   [1895,] -8.606071e-01  1.655093e+00  1.317017e+00  3.015119e-01
##   [1896,]  1.146635e+00  4.783506e-01 -8.790978e-01  6.896261e-01
##   [1897,]  1.339435e+00 -8.917183e-02  9.820339e-01  1.015268e+00
##   [1898,] -1.502321e+00 -4.562802e-01 -2.007502e+00  3.621825e+00
##   [1899,]  9.191773e-02  5.344844e-01  1.662216e+00 -3.610891e-01
##   [1900,]  1.178851e+00 -1.876880e-01 -4.843619e-01  8.249474e-01
##   [1901,]  1.244697e+00  4.159275e-01  1.081892e+00  9.430930e-01
##   [1902,] -2.894450e-02  2.015227e+00 -1.861561e+00  6.786641e-01
##   [1903,] -6.086456e-01  1.231737e+00 -5.223462e-01  8.067789e-01
##   [1904,] -1.233369e+00  4.160855e-01  4.803137e-01  2.902194e+00
##   [1905,] -1.603671e-01 -1.101565e+00 -6.667841e-02  2.704152e+00
##   [1906,] -1.528954e+00 -5.953875e-01 -6.650525e-02  3.325166e+00
##   [1907,] -2.695085e-01 -9.780143e-01 -1.446929e+00  2.582293e+00
##   [1908,] -3.383331e-01 -6.297105e-01 -1.263373e+00  2.474905e+00
##   [1909,] -8.994182e-01 -1.321854e+00  1.196920e+00  2.329870e+00
##   [1910,] -2.463362e-01  4.459789e-01 -1.232887e+00  4.323806e-01
##   [1911,] -3.723066e-01  2.582921e+00  1.311562e+00  8.977194e-02
##   [1912,] -1.370165e+00  6.506538e-01 -3.124392e-01  9.650715e-01
##   [1913,] -2.881105e-01 -3.869498e-01 -2.886425e-01  8.117546e-01
##   [1914,] -8.134344e-01  4.657083e-01  7.110265e-01  1.689083e+00
##   [1915,] -1.240526e+00  1.186508e-01  1.056804e+00  1.011780e+00
##   [1916,]  1.332174e+00  1.405634e+00  6.833087e-01  1.146766e+00
##   [1917,] -8.066956e-01 -1.110464e+00 -2.554111e-01  3.036458e+00
##   [1918,] -8.385996e-01  1.259836e+00  1.034006e+00  8.769889e-01
##   [1919,] -2.669934e-01 -6.539393e-01  1.137049e-01  8.273384e-01
##   [1920,]  6.928453e-01 -1.906208e-01 -1.685133e+00  9.214115e-01
##   [1921,] -8.442449e-02  5.126590e-05  1.099476e+00  8.551512e-01
##   [1922,] -8.748881e-01  7.630804e-01  1.082588e+00  8.903125e-01
##   [1923,]  1.330474e+00  1.784393e+00  1.059429e+00  2.763705e+00
##   [1924,] -1.836542e+00 -7.974845e-02  1.230327e+00  1.589689e+00
##   [1925,] -6.316525e-01 -2.592749e-01 -1.908377e+00  1.040596e+00
##   [1926,]  9.088202e-02 -4.995611e-01  9.174728e-01  1.227818e+00
##   [1927,]  1.587204e-01 -4.174003e-01 -1.394698e+00  8.899547e-02
##   [1928,] -2.472109e+00 -4.373235e-02  1.153891e-01  4.300145e-01
##   [1929,] -1.719255e+00 -7.468063e-02 -4.137920e-01  7.498405e-01
##   [1930,]  4.978075e-01 -2.608121e-01 -1.043089e+00  7.021843e-01
##   [1931,]  1.267766e+00 -3.287885e-02 -8.619170e-01  6.756734e-01
##   [1932,] -1.465533e+00 -1.948802e+00 -3.563156e-01  2.718134e+00
##   [1933,] -4.127605e-03  4.802485e-01  4.470058e-01  3.295374e+00
##   [1934,]  6.867860e-01 -6.904297e-01  9.639405e-01  1.159063e+00
##   [1935,]  5.063721e-01 -6.425217e-01  1.126002e+00  9.617295e-01
##   [1936,] -2.284331e-01 -1.027827e+00  5.320303e-02  4.788229e-01
##   [1937,]  7.271267e-01  7.778204e-01 -8.221511e-01  1.159704e+00
##   [1938,]  4.603464e-01  1.078466e+00  8.885246e-01  2.866134e+00
##   [1939,]  1.310569e+00  1.490041e+00  6.532939e-01  1.233589e+00
##   [1940,] -9.376276e-01 -6.120344e-01 -6.312680e-01  3.011026e-01
##   [1941,] -8.213793e-01  1.705423e+00  7.792588e-01  5.992857e-01
##   [1942,] -5.358383e-01 -6.693760e-01 -1.514067e+00  3.290689e+00
##   [1943,] -1.645315e+00  5.718298e-01  1.258433e+00  6.995938e-01
##   [1944,] -2.231707e+00 -1.748651e-01  1.110412e+00  2.882784e+00
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##   [1945,] -8.837737e-01  3.717476e-01 -6.319390e-01  3.264116e+00
##   [1946,] -1.403089e-01 -7.616724e-01  1.125357e+00  2.971744e+00
##   [1947,] -6.573150e-01  1.140881e-01 -7.848383e-01  1.455743e+00
##   [1948,] -1.258596e+00  8.223811e-01 -2.063969e+00  1.206316e+00
##   [1949,]  6.024149e-01  3.008166e-01 -6.464253e-01  8.180842e-01
##   [1950,] -8.550441e-01 -2.012012e-01  5.482460e-01  3.007437e+00
##   [1951,] -9.563671e-01 -1.377695e+00 -1.962295e-01  2.962965e+00
##   [1952,]  1.262164e+00 -4.429614e-02  1.289273e+00  2.416225e+00
##   [1953,]  1.247654e+00  3.874337e-01  3.260118e-01  2.908244e+00
##   [1954,] -1.284788e+00 -5.788901e-01 -2.095194e+00  1.457986e+00
##   [1955,]  7.216494e-01  3.932623e-01  9.624644e-01  1.043699e+00
##   [1956,] -4.624629e-02 -4.054899e-01 -1.799544e+00  1.194758e+00
##   [1957,] -3.467818e-01 -5.120251e-01  6.426143e-01  6.295644e-01
##   [1958,]  1.370159e-01  2.390444e-01  7.791559e-01  3.044899e+00
##   [1959,] -3.431325e-01 -1.024900e+00  1.295474e+00  6.395304e-01
##   [1960,]  3.538914e-02 -7.345154e-01 -3.963976e-01  1.176948e+00
##   [1961,] -1.087129e+00  1.847180e-01  1.025132e+00  1.019910e+00
##   [1962,] -1.667128e-01  8.933454e-01  8.921918e-01  1.129322e+00
##   [1963,]  5.795283e-01 -8.081597e-03 -1.246374e+00  6.921817e-01
##   [1964,] -8.554473e-01 -3.778421e-01  1.463259e+00  3.743658e-01
##   [1965,] -1.750638e+00  1.994223e+00 -1.774461e-01  3.875230e-01
##   [1966,] -1.696022e+00  9.532647e-01 -4.134396e-01  2.462987e+00
##   [1967,] -2.457601e-01 -9.554859e-01  3.796549e-01  2.675558e+00
##   [1968,] -2.979738e+00  1.428967e+00 -2.486929e-01  2.826495e+00
##   [1969,] -1.305888e+00  8.319921e-01  9.519796e-01  9.715360e-01
##   [1970,]  1.336301e+00  4.481922e-01  7.829343e-01  1.341448e+00
##   [1971,]  1.515674e-01  1.158091e-02  8.382300e-01  1.249257e+00
##   [1972,] -8.963055e-01 -1.662081e-01 -6.130674e-02  2.457574e+00
##   [1973,] -8.193312e-01  1.733894e-01  4.814230e-01  7.611385e-01
##   [1974,]  1.183709e+00  4.486843e-01 -5.963339e-01  9.198532e-01
##   [1975,] -5.694277e-01 -9.400995e-02 -4.103974e-01  3.282555e+00
##   [1976,] -3.160544e-01 -3.122622e-01  1.558493e+00  2.070008e+00
##   [1977,] -1.582342e+00  6.801601e-01 -3.730837e-01  1.194121e+00
##   [1978,] -8.431175e-02  1.282665e+00 -1.527107e+00  7.522206e-01
##   [1979,]  5.303320e-01 -5.443423e-01 -3.619967e-01  7.217180e-01
##   [1980,]  4.296366e-01 -2.634236e-01 -1.234567e+00  5.005440e-01
##   [1981,]  1.134210e+00  6.251214e-01 -1.591976e+00  6.569022e-01
##   [1982,]  4.334039e-01 -1.511929e+00  1.439420e+00  1.737415e-01
##   [1983,] -2.427130e+00  5.826345e-01  1.213791e+00  2.516758e+00
##   [1984,] -1.128087e+00 -1.799971e-01 -2.005404e+00  1.898230e+00
##   [1985,] -2.296187e-01 -1.121609e+00 -1.551117e+00  2.481974e+00
##   [1986,]  2.949591e-01  2.707004e-02  6.578675e-01  1.595841e+00
##   [1987,]  6.762954e-01  1.665248e+00  1.415239e-01  1.135319e+00
##   [1988,] -9.873499e-01  1.338678e+00  7.123070e-01  8.404043e-01
##   [1989,]  1.010522e-01  3.500736e-02  1.004823e+00  1.093132e+00
##   [1990,]  7.785314e-01 -1.283016e-01 -3.589310e-01  1.097497e+00
##   [1991,] -1.492069e+00 -1.177310e-01  1.280472e+00  5.946835e-01
##   [1992,]  7.043862e-02 -6.560225e-01  1.250128e+00  2.751132e+00
##   [1993,]  8.964573e-01  5.479487e-01  1.400658e+00  2.120690e+00
##   [1994,] -1.510998e+00 -1.841672e+00  1.177232e+00  2.649620e+00
##   [1995,]  1.040069e+00 -5.625098e-01 -1.369908e+00  3.122114e-02
##   [1996,] -1.440060e+00 -1.177035e+00 -1.087542e+00  1.024608e+00
##   [1997,]  1.300514e+00  5.167486e-01  2.839410e-01  2.925476e+00
##   [1998,]  4.322838e-02 -6.404945e-01  1.034663e+00  3.035430e+00
##   [1999,]  6.547527e-01  1.301525e-01  1.017041e+00  9.436117e-01
##   [2000,]  3.714666e-01  1.291854e+00 -1.794720e+00  5.606553e-01
##   [2001,] -6.845741e-01  1.850870e+00  2.273302e-02  7.126925e-01
##   [2002,] -6.270765e-01 -6.192635e-01  6.154417e-01  3.120633e+00
##   [2003,]  1.163126e+00  1.925466e-01 -1.469100e+00  8.175337e-01
##   [2004,] -5.214102e-01 -4.950734e-01  1.087215e-01  3.380842e+00
##   [2005,] -1.448070e-01 -5.730442e-01 -4.856271e-01  4.024478e-01
##   [2006,] -2.302652e+00 -6.108448e-01 -1.695642e+00  7.525408e-01
##   [2007,]  5.583216e-01  5.802356e-01  1.050573e+00  8.802093e-01
##   [2008,]  7.275126e-01 -3.321672e-01  9.939288e-01  1.166999e+00
##   [2009,] -1.595809e+00 -1.364099e-01 -3.188104e-02  7.144566e-01
##   [2010,] -1.789238e+00  4.794089e-01 -3.110440e-01  6.162123e-01
##   [2011,] -1.214117e+00  2.093051e+00  2.778010e-01  6.010403e-02
##   [2012,]  1.123504e+00  2.647508e-01  1.167870e+00  7.743824e-01
##   [2013,]  5.278390e-01  1.973773e+00 -1.238903e+00  9.041256e-01
##   [2014,] -1.126965e+00  2.115325e+00  1.383939e+00  4.831942e-02
##   [2015,] -1.863501e-01 -1.373880e+00  1.346461e+00  2.621513e+00
##   [2016,]  1.180802e+00 -1.652002e-01 -1.758407e-01  7.325309e-01
##   [2017,] -1.405298e+00  1.219816e+00 -2.737493e-01  7.500391e-01
##   [2018,]  1.032513e+00  1.240065e+00  1.131192e+00  2.422149e+00
##   [2019,] -1.757871e+00  1.319730e+00  6.996356e-01  8.549104e-01
##   [2020,]  8.466650e-02  1.044900e+00  7.365409e-02 -3.863103e-01
##   [2021,]  1.075066e+00  4.935743e-01 -1.581578e+00  3.474097e-01
##   [2022,]  1.201445e+00  7.443167e-01 -2.942379e-01  4.498478e-01
##   [2023,]  1.429992e+00  9.059677e-02 -2.795811e-02  2.814887e+00
##   [2024,]  4.472803e-01 -9.260763e-01  1.326978e+00  5.433182e-01
##   [2025,]  7.000909e-01 -4.083065e-01 -1.547758e+00  2.726048e+00
##   [2026,]  1.164382e+00  4.353618e-01 -3.610083e-01  6.287089e-01
##   [2027,]  9.416528e-01  2.935478e+00  1.395146e+00  1.964080e+00
##   [2028,] -1.056296e-01  8.819874e-01  8.977616e-01  1.046398e+00
##   [2029,]  8.450872e-01  8.564757e-02  8.637474e-01  1.298986e+00
##   [2030,]  1.278361e+00  1.668627e-01  6.612637e-01  8.916497e-01
##   [2031,]  1.595255e-02 -7.724210e-01  9.937806e-01  1.132222e+00
##   [2032,] -9.996198e-01  3.430218e-01  1.344747e+00  5.224835e-01
##   [2033,]  6.032681e-01  3.409801e-01  7.748808e-01  1.346763e+00
##   [2034,] -1.413360e+00  5.278741e-01  2.515436e-01  2.850689e+00
##   [2035,]  7.967445e-01  5.484194e-01 -8.320726e-01  1.402360e+00
##   [2036,] -2.368237e+00  1.286222e+00 -4.173451e-01  1.262831e+00
##   [2037,]  4.224137e-01 -4.734469e-01  1.294235e+00  2.604044e+00
##   [2038,] -1.382348e+00 -9.615714e-01  9.000754e-01  1.450185e+00
##   [2039,]  7.444372e-01  7.836783e-01 -5.052211e-02  1.311269e+00
##   [2040,] -4.524526e-01 -4.749042e-01 -6.088327e-01  1.472940e+00
##   [2041,] -1.743412e+00  1.011593e+00 -1.260221e+00  1.905505e+00
##   [2042,]  7.355780e-02  2.155407e-02 -1.291451e+00  9.562063e-01
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##   [2043,] -9.294068e-01  2.213321e+00  9.877766e-01  7.835183e-01
##   [2044,] -4.387657e-01  8.987361e-01  8.756780e-01  1.231745e+00
##   [2045,] -7.489435e-01  9.686857e-01  1.118660e+00  7.039185e-01
##   [2046,] -1.530430e+00 -2.314306e-01  1.157942e+00  2.757057e+00
##   [2047,] -1.028750e+00 -1.510222e+00  1.460241e-01  5.886292e-01
##   [2048,] -9.321835e-01  1.910925e+00  1.100631e+00  7.165933e-01
##   [2049,]  1.132678e+00 -2.969872e-01  5.346543e-02  2.526310e+00
##   [2050,]  7.436079e-01 -1.014501e-01 -2.473408e-01  1.004792e+00
##   [2051,]  1.556384e-01  9.210823e-01  9.291147e-01  1.072847e+00
##   [2052,] -4.543840e-02 -1.126687e-01  1.176336e+00  7.339750e-01
##   [2053,] -2.744469e-01 -1.225733e-01 -2.540640e-01  8.996657e-01
##   [2054,]  1.999044e-01 -1.113915e+00  2.857935e-01  1.989599e+00
##   [2055,] -1.032958e+00  9.310655e-01  4.284855e-01  2.701363e-01
##   [2056,]  5.007751e-01 -7.687821e-01  1.364669e+00  4.535721e-01
##   [2057,]  8.292111e-01  8.095333e-01  7.648108e-01  1.354849e+00
##   [2058,] -6.839526e-02 -1.012808e+00  1.255160e+00  7.587685e-01
##   [2059,] -9.170789e-01 -1.129183e+00 -1.730846e-01  3.063391e+00
##   [2060,]  6.452065e-02 -6.290980e-01  1.036300e+00  3.077592e+00
##   [2061,] -4.564078e-01 -6.049697e-01  7.239580e-01 -2.679590e-02
##   [2062,]  3.651428e-01  5.710643e-01 -3.438474e-01  4.710018e-01
##   [2063,] -8.138147e-01  1.609964e-01 -2.071322e-01  7.976630e-01
##   [2064,]  1.028655e+00 -7.769030e-01  1.498415e+00  2.139744e+00
##   [2065,]  4.566609e-01 -1.163389e-01 -2.582397e-01  9.036363e-01
##   [2066,]  2.394299e-01  2.963726e-01  1.536280e-02  1.462484e+00
##   [2067,]  1.199629e+00 -1.363965e-01  1.162073e+00  7.862719e-01
##   [2068,]  1.084456e+00  3.119042e-01 -3.058905e-01  5.558406e-01
##   [2069,]  2.760386e-01 -5.624147e-01 -9.271806e-01  2.201413e+00
##   [2070,]  3.855373e-02 -1.172689e-01  1.019342e+00  1.215206e+00
##   [2071,] -4.700756e-01 -3.414151e-01  1.342479e+00  4.226953e-01
##   [2072,]  1.831998e-02 -1.127746e+00 -1.662004e+00  6.925373e-01
##   [2073,] -3.573756e-01  1.284435e+00  1.316969e+00  2.164354e-01
##   [2074,] -6.624400e-01  3.635128e-01 -2.877074e-01  1.731783e+00
##   [2075,]  1.604806e-01  2.141893e+00 -1.552016e+00 -1.377308e-01
##   [2076,]  1.323894e+00  9.568768e-01  9.288665e-01  1.302725e+00
##   [2077,] -1.105545e+00 -1.248211e+00 -2.944491e-01  7.376663e-01
##   [2078,] -2.683392e-02  2.817662e-01  8.389227e-01  1.178641e+00
##   [2079,] -1.944261e+00  5.109364e-01  1.600440e-01  2.826190e-01
##   [2080,] -2.719476e+00 -1.437722e-01  8.871133e-01  3.297091e+00
##   [2081,] -2.104022e-01  4.179489e-01  1.230768e+00  2.538589e+00
##   [2082,] -1.998767e+00  1.318214e+00 -3.431663e-02  2.887268e-01
##   [2083,] -1.562398e+00  8.950979e-01 -1.655729e+00  8.865773e-01
##   [2084,]  1.217034e+00  1.738825e-01  4.537095e-01  7.098114e-01
##   [2085,]  8.852164e-01  1.611983e+00  1.241133e+00  2.231551e+00
##   [2086,]  6.624852e-01 -3.192900e-01 -4.569060e-01  8.381835e-01
##   [2087,]  1.145871e+00 -1.322390e-01 -1.554169e-01  6.590026e-01
##   [2088,]  3.496448e-01 -9.799123e-01  9.497881e-01  2.778725e-01
##   [2089,]  5.669071e-01  4.025868e-01 -1.205973e+00  9.433408e-01
##   [2090,]  4.763336e-01 -6.653209e-01  1.134861e+00  5.318728e-01
##   [2091,] -7.730870e-01  2.924193e-01 -1.813192e+00  3.279901e+00
##   [2092,] -6.574619e-01 -2.419951e-01 -4.437818e-01  1.255962e+00
##   [2093,]  6.820343e-01 -7.893060e-02  9.607998e-01  1.107437e+00
##   [2094,] -1.469386e+00  9.999068e-01  1.206286e+00  5.727443e-01
##   [2095,]  4.716817e-01  2.882008e-01 -5.277900e-02  3.623876e-01
##   [2096,]  3.640501e-02 -6.413198e-01 -4.900602e-01  9.989490e-01
##   [2097,] -2.934904e-01 -1.702662e+00  1.372391e+00  2.310530e+00
##   [2098,] -3.067859e+00 -4.728797e-01 -1.142197e-03  5.610191e-01
##   [2099,] -7.945052e-01 -1.135004e+00 -8.103185e-03  5.952772e-01
##   [2100,] -8.522366e-01  1.012599e+00 -6.475126e-01  1.590968e+00
##   [2101,]  1.225492e+00 -1.287328e-01 -1.774276e-01  4.469860e-01
##   [2102,]  6.440714e-01  6.814301e-02 -1.790250e+00  1.074220e+00
##   [2103,] -1.406486e+00 -5.814882e-01  9.010300e-01  1.429868e+00
##   [2104,] -7.359279e-01 -1.897543e-01 -1.540494e+00  1.261889e+00
##   [2105,]  5.365141e-01 -4.892532e-01  1.072781e+00  1.050816e+00
##   [2106,] -3.856344e-01  5.799563e-01 -1.604902e+00  2.521938e+00
##   [2107,] -1.558661e-01 -1.510886e+00  1.034742e-01  4.706475e-01
##   [2108,]  4.146397e-01 -5.057469e-01 -1.572649e+00  4.375896e-01
##   [2109,]  1.022196e+00  1.003932e+00  9.101615e-01  3.608225e-01
##   [2110,] -3.563558e-01 -5.101490e-01 -1.185245e+00  6.267760e-02
##   [2111,]  5.981716e-01  1.791171e-01 -1.540103e+00  2.565302e+00
##   [2112,] -4.676444e-02 -1.333196e+00  1.180486e+00  9.027130e-01
##   [2113,]  4.258664e-01  1.113508e+00  1.314724e+00  3.902001e-01
##   [2114,] -3.403088e-01  1.767916e+00  1.262855e+00  3.040169e-01
##   [2115,]  1.244257e-02 -6.278704e-01 -4.170172e-01  9.271552e-01
##   [2116,]  6.717920e-01 -1.198979e-02 -1.386920e+00  1.028325e+00
##   [2117,]  1.309059e+00 -4.548565e-01  1.257899e+00  2.589979e+00
##   [2118,]  1.149513e+00 -3.121002e-02 -2.450454e-01  8.158315e-01
##   [2119,] -8.821801e-01  8.769757e-01  1.129176e+00  6.533600e-01
##   [2120,]  1.232744e+00  1.945302e-01 -1.877528e-01  2.843427e+00
##   [2121,]  6.507613e-01  4.576539e-01  1.090337e-01  1.047342e+00
##   [2122,] -1.114560e+00 -1.642457e+00  9.717434e-02  2.529570e+00
##   [2123,] -9.677676e-01  2.590562e+00  9.957014e-01  2.220878e+00
##   [2124,]  7.732647e-01  6.806826e-02  9.350084e-01  1.131364e+00
##   [2125,]  7.212088e-01 -1.514612e-01 -2.957547e-01  2.830928e+00
##   [2126,] -1.523447e+00 -1.199604e+00 -5.248665e-01  3.077779e+00
##   [2127,] -2.203523e-01 -7.008306e-01 -1.650590e+00  7.112648e-01
##   [2128,]  1.189995e+00 -1.144186e-01  1.246344e+00  2.593656e+00
##   [2129,] -1.427936e+00 -2.707845e-01 -1.026845e+00  4.583261e-01
##   [2130,] -5.277695e-01  1.866989e-01 -1.695739e+00  3.124332e+00
##   [2131,] -2.479123e+00 -1.177860e-01  1.196674e+00  2.714983e+00
##   [2132,]  1.121490e+00 -4.348681e-01  5.018788e-01  6.844104e-01
##   [2133,] -5.722139e-04  5.392798e-01  1.001240e+00  9.308824e-01
##   [2134,] -1.976322e-01  5.025232e-01  1.492828e+00  2.073657e+00
##   [2135,] -1.180437e-01 -1.430500e-01 -1.821365e+00  8.125214e-01
##   [2136,] -6.925672e-01 -1.572274e-01 -1.421992e+00  3.403087e+00
##   [2137,] -5.073932e-01  6.473655e-01 -2.889946e-01  1.468367e+00
##   [2138,] -8.494282e-03 -4.219069e-02 -1.902288e+00  2.918115e+00
##   [2139,] -2.245805e+00  5.459256e-02  8.237315e-01  1.463145e+00
##   [2140,]  1.262497e+00  9.046356e-01 -1.527393e+00  7.648887e-01
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##   [2141,] -2.486503e+00  2.354903e-01  1.294754e+00  6.656199e-01
##   [2142,] -9.724780e-01 -2.270547e-01 -5.886619e-01  3.030971e+00
##   [2143,]  8.436804e-01  3.336332e-01 -3.301006e-01  1.262293e+00
##   [2144,] -1.874808e-02 -4.917079e-01 -6.077556e-01  1.241262e+00
##   [2145,] -4.297558e-01 -3.574714e-01 -1.474146e+00  2.621137e-01
##   [2146,] -2.006755e+00  5.742381e-01  6.725433e-01  3.533301e+00
##   [2147,]  1.296862e+00  8.515900e-01  8.610649e-01  1.154728e+00
##   [2148,]  7.125268e-02  6.139116e-01 -5.131540e-01  3.119254e+00
##   [2149,] -1.264676e+00 -4.829058e-01 -3.464537e-02  5.099921e-01
##   [2150,] -3.770606e-01 -2.287925e-01  3.570473e-01  2.272722e+00
##   [2151,]  6.090231e-01 -3.961426e-01 -9.974826e-01  9.624978e-01
##   [2152,] -2.220001e-01 -5.604255e-01  1.866402e-01  7.593482e-01
##   [2153,] -7.279271e-01 -6.252895e-01 -1.489488e-01  2.840452e+00
##   [2154,]  5.079568e-01  3.686054e-02 -7.473872e-01  6.196034e-01
##   [2155,]  2.455314e-01 -1.667075e-01  6.767133e-01  1.640718e+00
##   [2156,]  1.150659e+00  3.703009e-01  1.061752e+00  7.617465e-01
##   [2157,] -1.740119e+00  2.733550e-01 -1.371608e+00  7.205419e-01
##   [2158,]  1.185895e+00  1.215684e+00  1.874261e-01  1.040957e+00
##   [2159,]  1.836170e-01 -1.228449e-01  1.006236e+00  3.098011e+00
##   [2160,]  6.945132e-01 -3.479690e-01  9.192307e-01  1.214749e+00
##   [2161,] -6.523090e-01  1.001694e+00 -8.297382e-01  1.599614e+00
##   [2162,]  1.096460e+00  8.624799e-01 -2.415298e-01  4.972804e-01
##   [2163,]  4.517056e-01  9.737307e-01 -1.923456e+00  9.517891e-01
##   [2164,]  3.131442e-01  1.414506e+00  2.802246e-01  2.266872e+00
##   [2165,] -7.411286e-01 -4.416473e-01 -1.873843e+00  1.148674e+00
##   [2166,] -2.875156e+00  2.027073e-01 -3.957493e-01  3.241288e+00
##   [2167,] -1.012153e-01 -2.485293e-01  1.218532e+00  7.623660e-01
##   [2168,]  1.317118e+00  6.060172e-01 -1.147755e-01  1.293819e+00
##   [2169,]  7.735686e-01 -6.646202e-03  1.017967e+00  2.951766e+00
##   [2170,] -8.045158e-01 -1.668440e+00  1.540080e+00  2.332123e+00
##   [2171,] -1.210169e+00  4.900079e-01  9.189636e-01  1.146745e+00
##   [2172,] -2.731702e-01  3.589100e-01  1.498161e+00  2.105925e+00
##   [2173,]  1.392023e+00  6.317696e-01  8.681296e-01  1.210925e+00
##   [2174,]  9.527405e-01 -4.908019e-01  2.681107e-01  2.285665e-01
##   [2175,]  7.247002e-01  4.233584e-01 -5.689960e-01  1.037936e+00
##   [2176,]  1.092793e-01  4.010318e-01  9.582228e-01  1.152172e+00
##   [2177,] -2.075252e-01 -9.039987e-01  1.169238e+00  2.813749e+00
##   [2178,]  6.195036e-02 -2.395554e-03 -2.221762e+00  1.517722e+00
##   [2179,] -7.789084e-01 -1.141568e+00  9.701114e-01  6.317923e-01
##   [2180,] -1.954367e+00 -2.482513e-01  1.541670e+00  1.938061e-01
##   [2181,]  8.936629e-01 -1.344270e-01  1.726562e-01  1.043619e-01
##   [2182,] -8.844296e-01  1.428736e+00 -5.064705e-01  7.342396e-01
##   [2183,] -1.536512e+00  7.872962e-01  1.122798e+00  8.033593e-01
##   [2184,] -1.988299e-01 -8.327715e-01  1.484611e+00  2.288939e+00
##   [2185,] -8.402777e-01 -1.952622e-01 -1.851422e+00  9.635027e-01
##   [2186,]  4.393964e-01 -7.086784e-01  8.503898e-01  2.363314e+00
##   [2187,]  7.663797e-01 -6.247453e-02  9.824758e-01  1.161495e+00
##   [2188,] -1.096852e+00 -1.572401e+00  3.745255e-01  2.552683e+00
##   [2189,] -1.766226e+00  6.445906e-01 -8.936969e-01  7.301072e-01
##   [2190,]  9.096056e-02  2.326790e-01 -2.229402e+00  1.594529e+00
##   [2191,] -1.451722e+00 -1.774297e+00  1.218102e+00  9.697485e-01
##   [2192,]  9.085111e-01  2.673983e+00 -2.092924e-01  3.599639e-01
##   [2193,]  1.299696e+00  1.576215e-01 -4.878089e-01  2.832401e+00
##   [2194,] -1.035818e+00  9.145913e-01  1.362112e+00  1.484029e-01
##   [2195,]  1.203355e+00 -3.428001e-01  1.180594e+00  2.737382e+00
##   [2196,] -8.680866e-01 -5.821328e-01 -3.126048e-01  3.235148e+00
##   [2197,]  1.347034e+00  1.015999e+00 -4.953023e-01  1.090565e+00
##   [2198,] -1.713787e+00  9.372810e-01  1.104540e+00  2.760733e+00
##   [2199,] -6.339164e-01 -1.410246e-02 -8.389784e-01  3.365782e+00
##   [2200,]  5.160549e-01 -9.026877e-01 -1.534414e-01  6.617504e-01
##   [2201,] -2.708118e+00  8.706496e-02  8.303880e-01  1.501757e+00
##   [2202,]  1.373502e+00  3.119291e-01 -4.350270e-01  1.070537e+00
##   [2203,]  1.274426e+00  4.753676e-01  3.251863e-02  6.610616e-01
##   [2204,]  6.891699e-01  1.528218e+00 -1.871577e+00  1.142399e+00
##   [2205,]  3.913142e-01  3.156362e-02  4.287391e-01  4.814063e-01
##   [2206,]  7.819739e-01 -3.889725e-02 -1.973639e+00  1.071993e+00
##   [2207,]  4.948902e-01 -2.491587e-01  1.256096e+00  7.109078e-01
##   [2208,]  3.739689e-02  4.328531e-01 -1.414656e+00  1.286407e+00
##   [2209,] -3.324901e-01  2.881424e+00  3.401281e-01  1.943038e-01
##   [2210,]  3.716334e-01 -1.312586e+00 -8.873910e-01 -4.533688e-03
##   [2211,]  1.216914e+00  8.854411e-01  5.781364e-01  2.374994e+00
##   [2212,] -9.561136e-01 -4.162018e-01 -2.614116e-01  9.404513e-01
##   [2213,] -1.951829e-01  7.746128e-01 -3.365112e-01  6.590381e-01
##   [2214,] -4.263290e-02 -5.597091e-02 -4.013725e-01  1.020282e+00
##   [2215,]  4.370301e-03  1.052774e-01  9.576097e-01  3.240353e+00
##   [2216,]  1.047922e+00 -3.458577e-01  1.281797e+00  5.414496e-01
##   [2217,] -1.294855e+00  1.050959e+00  7.254624e-01  1.437388e+00
##   [2218,]  5.857853e-02 -5.713735e-01 -4.710485e-01  1.206589e+00
##   [2219,]  4.444865e-01 -5.067596e-01 -1.710882e+00  2.610125e+00
##   [2220,] -9.316359e-02 -5.687684e-01 -2.858073e-01  1.097537e+00
##   [2221,] -8.668000e-01 -3.845078e-01 -1.131015e+00  6.713230e-01
##   [2222,] -1.608567e-01  7.753036e-01  5.139302e-01  2.488869e-01
##   [2223,]  1.349189e+00  2.963897e-02  1.047534e+00  2.874408e+00
##   [2224,] -1.445223e-01 -5.096711e-01  1.019076e+00  1.026900e+00
##   [2225,] -1.679478e+00 -1.522498e+00 -1.840112e+00  3.070025e+00
##   [2226,] -7.512538e-01 -1.215586e+00 -1.698544e+00  8.359073e-01
##   [2227,] -1.596604e+00  1.617009e+00 -3.622521e-01  7.281656e-01
##   [2228,] -5.300211e-02 -7.645240e-01  1.175597e+00  8.349389e-01
##   [2229,]  7.506921e-01  7.577117e-02 -1.064335e-01  1.119152e+00
##   [2230,] -6.095517e-01  3.029214e-01 -5.920005e-01  1.563036e+00
##   [2231,] -3.431755e+00 -2.267837e-01  1.181742e-01  9.606591e-01
##   [2232,] -2.001194e-02 -1.133176e+00 -1.056737e+00  6.061179e-01
##   [2233,]  7.598275e-02 -6.224089e-01 -1.852833e+00  9.095278e-01
##   [2234,] -5.962359e-01 -2.360264e-01  9.574103e-01  1.195781e+00
##   [2235,]  5.126520e-01  1.409183e+00 -1.012147e+00  2.365627e+00
##   [2236,]  6.656522e-01 -4.316264e-01 -3.127508e-01  2.812795e+00
##   [2237,]  1.284170e+00  2.662770e-01  1.143706e+00  6.787656e-01
##   [2238,]  1.816502e-01 -2.182323e-01 -4.686345e-01  1.266345e+00
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##   [2239,] -1.083193e+00  1.200694e+00  1.307748e+00  4.330753e-01
##   [2240,]  1.423927e+00  2.094671e-01  8.494268e-01  1.249689e+00
##   [2241,] -5.919550e-01 -3.196650e-01 -1.750020e+00  3.396408e+00
##   [2242,]  1.042963e+00  1.989058e+00  1.250120e+00  2.566214e+00
##   [2243,]  1.239781e+00  9.101027e-01  1.148437e+00  7.365600e-01
##   [2244,] -1.738579e+00  3.227646e-01 -5.613223e-01 -2.061092e-01
##   [2245,]  1.290757e+00 -3.975506e-02  1.422495e-01  6.174319e-01
##   [2246,] -5.104263e-01  1.833524e-01  1.539400e+00 -3.142441e-02
##   [2247,]  1.238781e+00 -1.817354e-01  1.093406e+00  2.849339e+00
##   [2248,] -3.329002e-01 -1.469582e+00 -8.609625e-01  2.213145e+00
##   [2249,] -1.154268e+00 -7.995519e-01 -2.801674e-01  1.806848e+00
##   [2250,]  7.770741e-02  3.027469e-02  7.056880e-01  1.613279e+00
##   [2251,] -9.745150e-01  2.544194e-01  1.273944e-01  2.376124e+00
##   [2252,] -1.736626e+00  1.074732e+00  1.188739e+00  1.778207e+00
##   [2253,] -8.511658e-01  1.389171e+00  9.216556e-01  1.038764e+00
##   [2254,] -1.250252e-01  3.213557e-01  1.427468e-01  6.124446e-01
##   [2255,]  6.378174e-01  1.042419e+00 -4.226429e-01  9.434456e-01
##   [2256,]  5.312879e-01  6.621773e-02  7.865285e-01  8.355987e-01
##   [2257,]  6.292551e-01  2.895931e-01 -3.972748e-01  1.110381e+00
##   [2258,]  2.414734e-01  1.050529e+00 -1.524857e+00  4.710234e-01
##   [2259,] -5.392769e-01  3.482460e-02 -1.559578e+00  1.323043e+00
##   [2260,] -5.223179e-01 -5.744807e-01  9.367262e-01  1.324011e+00
##   [2261,]  1.408073e+00  4.845213e-01 -3.523531e-01  1.079482e+00
##   [2262,]  3.313477e-02 -4.008987e-01 -4.381093e-02  2.679379e+00
##   [2263,] -1.240837e+00 -5.194584e-01  2.709045e-01  1.846896e+00
##   [2264,] -5.855019e-01 -4.269084e-01 -1.792442e+00  1.145849e+00
##   [2265,]  6.754354e-01 -1.236620e-01 -1.258607e+00  1.137291e+00
##   [2266,] -3.587456e-01  1.328594e+00 -2.179418e-01  8.261916e-01
##   [2267,] -8.196761e-02 -6.908617e-01 -4.879890e-01  2.914712e+00
##   [2268,] -5.051227e-01 -2.070413e-02 -1.910675e+00  1.615663e+00
##   [2269,] -7.843402e-01  1.107670e+00 -7.462091e-02  4.162123e-01
##   [2270,]  7.123985e-02  1.385862e+00 -6.677070e-01  3.229316e+00
##   [2271,] -4.961522e-01  1.103796e+00  1.206237e-02  1.100388e+00
##   [2272,] -8.231452e-01  1.550552e+00  8.712187e-01  1.123286e+00
##   [2273,]  5.943690e-01  3.252751e-02  1.085298e+00  7.937599e-01
##   [2274,] -3.207021e-01 -5.946784e-01 -6.046622e-01 -2.538627e-01
##   [2275,]  2.038416e-01  3.812927e-01  7.577688e-01  3.522638e+00
##   [2276,]  1.063677e+00  1.494463e+00  3.336253e-01  2.145154e-01
##   [2277,]  1.171009e+00  2.304891e-01 -1.138833e+00  8.544208e-01
##   [2278,]  8.571919e-01  2.471355e+00  3.431275e-01  1.829995e+00
##   [2279,]  6.856803e-01  5.959146e-01  9.378111e-01  3.113514e+00
##   [2280,] -1.755160e+00 -6.179087e-01  1.275171e-01  3.049224e+00
##   [2281,] -1.328064e-03 -1.105050e-01 -1.520619e+00  2.927877e+00
##   [2282,] -2.572746e-01 -5.297211e-01  1.318787e+00  4.980812e-01
##   [2283,] -5.233865e-01  1.498518e+00  7.382627e-01  1.837471e+00
##   [2284,] -6.239381e-01  1.164946e+00 -8.262861e-02  9.820997e-01
##   [2285,]  1.238805e+00  1.557854e+00 -1.500546e-01  9.301528e-01
##   [2286,]  7.952104e-01  1.784403e-01 -8.680713e-01  1.472825e+00
##   [2287,] -1.887118e+00  1.084988e+00 -1.365754e+00  4.879365e-01
##   [2288,] -1.947050e+00  5.883678e-01  1.636429e+00 -1.991603e-01
##   [2289,] -8.893767e-02 -3.080956e-01 -4.010579e-01  3.157188e+00
##   [2290,]  4.847439e-01  6.023634e-01  2.646927e-01  7.641529e-01
##   [2291,] -7.690283e-01 -6.860953e-01  1.045709e+00  2.995288e+00
##   [2292,]  6.281832e-01  2.194160e+00 -4.987306e-01  2.994429e+00
##   [2293,]  1.913743e-01  3.293775e-01  4.449633e-01  1.615302e+00
##   [2294,]  7.314374e-01 -2.540766e-01  9.542669e-01  1.194283e+00
##   [2295,]  6.652160e-01  8.020438e-02 -1.558369e+00  1.014963e+00
##   [2296,]  6.152096e-01 -7.897845e-01 -1.400523e+00  5.556650e-01
##   [2297,] -8.978521e-01  3.235613e-01  1.733803e-01  5.910483e-01
##   [2298,]  1.267642e-01 -3.527294e-01 -1.728518e+00  1.052635e+00
##   [2299,] -4.406813e-02 -6.587990e-01  9.979874e-01  3.075511e+00
##   [2300,]  1.197960e+00  3.139731e+00  1.150257e+00  8.151082e-01
##   [2301,] -1.651597e+00  6.532835e-01  2.992585e-01  2.101089e-01
##   [2302,]  3.303350e-01  9.014954e-01  1.277091e+00  4.629953e-01
##   [2303,] -1.055870e+00 -3.876058e-01  1.175281e+00  2.838575e-01
##   [2304,] -5.745125e-01 -1.048217e+00  1.008831e+00  1.161686e+00
##   [2305,] -2.436683e-01 -3.392334e-01 -5.046159e-01  9.111971e-01
##   [2306,] -1.151245e+00  1.065423e+00  7.706882e-01  1.356379e+00
##   [2307,] -1.469466e-01 -7.904562e-01 -2.795920e-01  5.534774e-01
##   [2308,]  4.809317e-01  1.788413e-01 -1.259488e-01  3.983191e-01
##   [2309,] -2.287593e+00  3.018439e-01 -1.237816e+00  1.130130e+00
##   [2310,]  8.858432e-01  2.982622e-01  5.318448e-01  1.513526e+00
##   [2311,]  9.247301e-02  1.498528e+00 -1.502141e-03  1.460234e+00
##   [2312,]  1.739325e-01  1.073396e-01  8.773611e-01  3.303603e+00
##   [2313,] -8.702408e-01  8.658464e-01  1.040172e+00  2.776063e+00
##   [2314,] -1.802046e-03 -7.983321e-01 -7.479399e-01  2.546656e+00
##   [2315,] -1.585075e+00 -1.494120e+00  1.106086e+00  3.141747e+00
##   [2316,] -1.166662e-01 -7.069933e-03 -9.207108e-01  5.169518e-01
##   [2317,]  8.014736e-01  2.992848e-01  9.948061e-01  3.106747e+00
##   [2318,]  1.226080e+00  2.836183e-01 -5.989315e-02  6.174019e-01
##   [2319,] -1.143878e-01 -1.200656e+00 -7.677151e-02  7.363408e-01
##   [2320,]  6.833205e-01  3.699855e-01 -2.894767e-01  9.218388e-01
##   [2321,]  1.098484e+00 -5.816271e-01 -1.095760e+00  5.705523e-01
##   [2322,] -1.467770e+00  1.542064e+00 -1.753391e+00  1.047575e+00
##   [2323,]  6.286434e-01 -4.110339e-01  1.760341e-02  9.057388e-01
##   [2324,]  3.136597e-01  1.142397e+00  1.455234e-01  3.534288e-01
##   [2325,] -1.558527e+00 -1.213599e+00 -8.855404e-02  1.134875e+00
##   [2326,]  1.050508e+00 -3.062988e-01 -1.390034e+00  2.319118e+00
##   [2327,] -5.098243e-02  1.125364e+00 -1.684170e+00  5.086526e-01
##   [2328,]  1.148626e+00 -2.814100e-01 -1.636497e+00  5.680275e-01
##   [2329,] -7.681878e-01 -7.301862e-01 -1.666254e+00  1.638079e+00
##   [2330,]  6.901159e-01  7.045647e-01 -6.724511e-02  1.204477e+00
##   [2331,] -1.037800e+00  2.148797e-01 -1.556091e+00  3.665460e-01
##   [2332,]  4.519393e-01 -1.156462e+00  7.142573e-02  3.506835e-01
##   [2333,] -2.214922e-02  1.251434e-02 -1.484457e+00  7.676251e-01
##   [2334,] -6.841745e-01 -9.011759e-02  1.370983e+00  5.034625e-01
##   [2335,]  8.334742e-01  3.729761e-01  3.514077e-01  3.129238e+00
##   [2336,] -2.137570e+00  2.433295e+00 -9.347949e-01  2.874460e+00
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##   [2337,]  1.203617e+00  1.484703e+00  6.160235e-01  6.920398e-01
##   [2338,] -1.625610e+00  1.184417e-01  2.299112e-01  2.845590e+00
##   [2339,]  5.880341e-01 -2.622773e-01  3.052045e-01  3.023233e+00
##   [2340,]  5.734413e-01 -1.278133e-01 -1.757225e-01  8.926305e-01
##   [2341,] -7.541376e-01 -1.901787e-01 -2.069372e+00  3.237654e+00
##   [2342,] -5.265767e-01 -1.630775e-01 -1.981742e+00  1.280105e+00
##   [2343,] -1.030796e+00  1.402835e+00  1.177690e+00  4.586759e-01
##   [2344,] -5.455175e-02 -1.395833e-01  8.220165e-01  1.437633e+00
##   [2345,]  1.122549e+00  1.032217e+00  1.087130e+00  8.563930e-01
##   [2346,] -9.072003e-01 -5.570423e-01  3.962751e-01  1.010783e+00
##   [2347,] -3.211153e+00  9.084564e-01  6.738948e-01  6.838112e-01
##   [2348,] -7.367446e-01 -5.795494e-01 -1.600541e-01  9.760086e-01
##   [2349,] -5.334115e-01  7.065620e-01  9.009834e-01  1.185469e+00
##   [2350,] -9.108704e-01  6.583216e-01  1.174078e+00  5.653110e-01
##   [2351,] -8.874534e-01 -1.056493e+00 -1.549747e+00  2.556816e+00
##   [2352,]  5.875322e-01  6.543638e-01 -3.485895e-02  3.073455e+00
##   [2353,] -5.308206e-01  9.960520e-01  9.763881e-01  1.407135e+00
##   [2354,] -2.249666e+00  2.577595e-01  5.368947e-01  3.118954e+00
##   [2355,] -9.933958e-01 -1.205437e+00  2.835260e-01  2.881987e+00
##   [2356,] -1.564605e+00  2.271867e+00 -4.618595e-01  4.442244e-01
##   [2357,] -8.957269e-02  7.718318e-01  8.455145e-01  1.426482e+00
##   [2358,] -2.480347e+00 -7.899379e-01  5.595099e-02  5.541248e-01
##   [2359,] -6.726769e-01  4.791080e-01  2.898648e-01  3.090171e+00
##   [2360,]  9.373115e-01  2.246252e+00 -3.524414e-01  2.427348e-01
##   [2361,]  6.935389e-01  2.341989e-01 -1.613577e+00  9.956582e-01
##   [2362,] -1.690336e+00  1.114026e-01 -1.809232e+00  8.258086e-01
##   [2363,]  4.560184e-01  9.387746e-01  1.859506e+00 -7.330564e-01
##   [2364,]  6.711391e-01  5.034285e-02  9.417104e-01  3.044006e+00
##   [2365,] -5.186379e-02  2.334378e-01  1.046654e+00  9.546618e-01
##   [2366,]  3.012140e-01 -4.257707e-02 -9.885037e-01  2.447057e-01
##   [2367,]  1.292316e+00  2.421983e-01 -1.249194e-01  1.155012e+00
##   [2368,] -4.510583e-02 -6.932515e-01  9.244447e-02  8.321481e-01
##   [2369,]  1.288834e+00  1.333227e+00 -1.539860e+00  8.521451e-01
##   [2370,]  8.115801e-01  1.226860e-01  3.359900e-01  1.219124e+00
##   [2371,] -1.476804e+00  5.447565e-01  6.638322e-01  1.103348e+00
##   [2372,]  8.260018e-02 -7.393387e-01 -3.622968e-01  2.959479e+00
##   [2373,]  1.018790e-01  1.697127e+00 -1.937111e+00  3.175160e+00
##   [2374,] -8.847038e-01  1.339901e+00  1.266134e+00  2.490845e-01
##   [2375,] -5.619530e-02 -1.273445e-01 -1.953728e+00  1.387126e+00
##   [2376,] -9.775958e-01 -9.298638e-02 -1.954160e-01  3.027157e+00
##   [2377,]  6.778904e-01 -7.065275e-01 -3.613549e-01  8.609520e-01
##   [2378,]  3.560939e-01  5.869912e+00  8.136392e-01  4.200311e+00
##   [2379,] -6.788160e-01 -2.112852e-01  9.873561e-01  3.052368e+00
##   [2380,] -1.603280e+00  1.990763e-01  1.195184e+00  7.775018e-01
##   [2381,] -4.016512e-02 -8.771588e-01 -3.983448e-01  7.990030e-01
##   [2382,]  7.647628e-01  3.851524e-01 -4.306026e-01  1.202485e+00
##   [2383,]  6.467033e-01 -9.909565e-02 -5.638539e-01  1.053780e+00
##   [2384,] -8.276918e-01  1.607232e+00 -3.112653e-01  6.572376e-01
##   [2385,] -6.100643e-01 -1.101206e+00  9.690815e-01  1.275346e+00
##   [2386,]  1.138880e+00  3.714728e-01  1.439940e-01  8.352958e-01
##   [2387,]  1.275777e+00  6.950704e-01  1.826187e-01  1.181849e+00
##   [2388,]  1.563800e-01  2.073955e+00 -1.692551e+00  1.581317e-01
##   [2389,]  5.165283e-01  3.541950e+00 -1.591840e+00  9.847777e-01
##   [2390,] -2.687032e+00  6.393524e-02 -8.005588e-01  3.451596e-01
##   [2391,] -2.126501e+00  4.762534e-01  4.701942e-01  1.372752e+00
##   [2392,]  6.917461e-01 -1.446393e-01  1.099744e+00  8.977599e-01
##   [2393,] -1.153509e+00  1.615391e+00  9.953927e-01  1.003306e+00
##   [2394,] -6.684433e-01 -5.284993e-01 -1.948895e+00  3.406787e+00
##   [2395,]  9.575198e-02 -2.095329e-01  9.873582e-01  1.071107e+00
##   [2396,] -1.901709e+00  1.739345e+00  2.109392e-01  5.718984e-01
##   [2397,]  5.685296e-01 -8.569450e-04 -1.327373e+00  6.322558e-01
##   [2398,] -4.129502e-02 -6.208575e-01 -1.556734e+00  1.170989e+00
##   [2399,] -1.394791e+00 -4.341799e-01 -7.024660e-01  3.275165e+00
##   [2400,] -6.627647e-01 -2.433362e-01 -4.446963e-01  1.191762e+00
##   [2401,] -9.632313e-01 -1.347434e+00  1.374202e+00  5.956946e-01
##   [2402,]  9.549537e-02 -1.650871e-01 -5.412157e-01  1.387263e+00
##   [2403,] -9.396054e-01 -5.012266e-01 -4.343531e-01  1.966886e+00
##   [2404,] -6.905346e-01  1.057176e+00 -2.704529e-01  2.682939e+00
##   [2405,] -9.277703e-01  2.345163e+00  1.213806e+00  2.554720e-01
##   [2406,] -2.215571e+00 -1.026111e-01 -1.721450e+00  7.962617e-01
##   [2407,] -1.527943e+00  1.113787e-02  1.089112e+00  9.493550e-01
##   [2408,]  1.464832e+00  1.098616e+00  1.946064e-01  3.012853e+00
##   [2409,] -1.726758e-01 -1.466845e+00 -6.991436e-01  2.010409e+00
##   [2410,]  4.314828e-01 -8.339783e-01 -2.251347e-02  1.241785e-01
##   [2411,] -6.808946e-02 -4.531301e-01 -4.542770e-01  7.943570e-01
##   [2412,] -1.866609e+00 -2.055355e+00 -1.452520e+00  2.527238e+00
##   [2413,] -6.165411e-01 -4.588040e-01 -6.839803e-01  1.283817e+00
##   [2414,]  6.513733e-02 -1.229931e-01  9.006094e-01  3.163026e+00
##   [2415,] -8.363936e-01 -1.553109e+00  1.043348e-02  2.263146e+00
##   [2416,]  1.201317e+00 -2.424696e-01 -3.015443e-01  8.683139e-01
##   [2417,]  8.402907e-01  7.853463e-01 -4.789860e-01  1.410301e+00
##   [2418,] -7.778933e-01 -1.298749e+00 -1.656127e+00  7.625802e-01
##   [2419,]  1.270329e+00  3.514502e-01 -1.186095e+00  8.516026e-01
##   [2420,]  7.676544e-03 -3.951410e-01 -4.273786e-02  2.957712e+00
##   [2421,] -8.433605e-01 -5.391973e-01  9.200427e-01  2.593948e+00
##   [2422,]  1.185148e+00  9.220679e-02  1.343920e+00  2.452168e+00
##   [2423,] -1.469124e+00 -5.291499e-01 -1.784379e+00  3.084838e+00
##   [2424,] -1.104943e+00  1.500167e+00  9.955212e-02 -3.686380e-01
##   [2425,] -5.660675e-02 -3.509179e-03  1.028740e+00  9.344416e-01
##   [2426,] -2.012777e-01 -5.013409e-01  1.163532e+00  8.651573e-01
##   [2427,]  1.447871e-01 -1.680140e-01 -1.936948e+00  1.107355e+00
##   [2428,]  1.250594e+00  1.518841e-01 -2.526639e-01  7.531002e-01
##   [2429,]  4.392493e-01 -7.567922e-03 -1.015861e+00  2.661131e+00
##   [2430,] -9.778004e-01 -1.653907e-01  1.739808e+00 -2.092211e-01
##   [2431,] -2.361427e+00 -6.198658e-01 -1.602271e+00  6.034718e-01
##   [2432,] -1.395007e+00  1.294574e+00  3.036198e-01  2.991288e+00
##   [2433,]  1.352072e-01  9.052881e-02  8.799338e-01  1.370966e+00
##   [2434,] -8.349364e-01 -7.983661e-01 -1.200320e+00  1.144425e+00
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##   [2435,]  1.098157e+00  1.321941e+00  1.005324e+00  8.580416e-01
##   [2436,]  8.048451e-01 -1.170572e-01  8.585978e-01  1.276673e+00
##   [2437,] -5.021853e-01  4.931642e-01  9.847460e-01  1.039307e+00
##   [2438,]  5.291208e-01 -1.235970e+00  1.334800e+00  2.203321e+00
##   [2439,] -1.129831e-01 -7.451768e-01  1.883674e-01  1.027134e+00
##   [2440,] -8.117811e-01 -1.499549e+00  1.572549e+00  2.318676e+00
##   [2441,]  9.672337e-01  9.973057e-01  1.355499e+00  2.197454e+00
##   [2442,]  1.254492e-01  6.210567e-01 -5.183133e-01  1.396738e+00
##   [2443,] -1.429356e-01 -5.654258e-01 -5.685306e-01  2.969784e+00
##   [2444,] -1.164870e-01  2.066103e-01  7.864958e-01  1.286059e+00
##   [2445,]  9.422406e-03 -5.784496e-01 -1.414402e+00  9.252186e-01
##   [2446,] -3.889089e-01  2.111926e+00  9.530041e-02  7.129901e-02
##   [2447,]  2.328131e-01  2.240421e+00 -1.750525e+00  5.520734e-01
##   [2448,] -7.820544e-01  1.225263e+00  9.201333e-01  9.489399e-01
##   [2449,] -6.205577e-01 -5.529035e-01  1.422206e-01  1.731532e+00
##   [2450,] -1.699530e-01 -1.227791e+00 -1.967648e-01  1.005206e+00
##   [2451,] -8.612468e-01  3.150600e+00  6.022541e-01  4.575341e-01
##   [2452,] -1.087555e+00  7.946317e-01  2.032393e-01 -1.378753e-01
##   [2453,]  1.221411e+00  6.313064e-01  2.399435e-01  1.050126e+00
##   [2454,]  8.100345e-01  6.587180e-02 -1.929360e-01  1.525976e+00
##   [2455,]  5.956168e-01  3.594959e-01 -2.291939e-01  3.068934e+00
##   [2456,]  6.247545e-02 -1.345547e+00  1.234084e+00  8.368421e-01
##   [2457,]  1.133870e+00 -8.432862e-02  1.097631e+00  7.941184e-01
##   [2458,]  7.399506e-01 -3.110407e-01  9.831668e-01  1.196784e+00
##   [2459,]  7.665895e-01 -4.265689e-01  9.974569e-01  1.060508e+00
##   [2460,]  1.320897e+00  4.844248e-01  1.135589e+00  2.623996e+00
##   [2461,] -1.116073e+00 -1.916300e-01  6.376683e-01  3.802799e+00
##   [2462,] -3.899340e-02  8.634440e-01 -2.215867e+00  1.517443e+00
##   [2463,] -1.941666e-01 -5.061744e-01 -3.289930e-01  5.968410e-01
##   [2464,] -2.623140e-01 -1.051717e-01  8.243508e-01  7.582161e-01
##   [2465,] -1.667833e+00  3.269426e+00 -4.718697e-01  3.498004e+00
##   [2466,]  4.147509e-01  5.116392e-01 -7.323487e-01  6.201188e-01
##   [2467,] -1.750509e-01  1.197182e+00 -1.031702e+00  8.565654e-01
##   [2468,] -5.749623e-01  5.284778e-01  5.559949e-01  8.473210e-01
##   [2469,]  1.138558e+00 -5.043036e-01  4.972245e-01  3.271654e-01
##   [2470,]  5.821181e-01  1.396431e-01 -2.231354e-01  9.589053e-01
##   [2471,]  3.458570e-01 -9.902351e-01  1.285035e-01  2.755644e-01
##   [2472,] -2.153925e+00 -1.966904e-01 -4.712337e-01  9.561211e-01
##   [2473,]  3.130155e-01 -2.442510e-01  1.595239e+00  1.895468e+00
##   [2474,] -1.114869e-01 -1.173505e-01 -1.741535e+00  2.653601e+00
##   [2475,]  7.612302e-01  2.213057e-01  1.035471e-01  1.682751e+00
##   [2476,]  1.123032e+00  1.088802e+00 -1.231920e-01  3.816824e-01
##   [2477,]  7.310753e-03 -7.515661e-01 -1.345799e+00  1.050069e+00
##   [2478,]  1.140431e+00 -4.198054e-02 -2.054574e-01  7.832992e-01
##   [2479,] -2.463527e+00 -1.012994e+00 -4.714907e-02  3.771751e+00
##   [2480,]  6.964516e-01 -6.205728e-01  1.178995e+00  8.447700e-01
##   [2481,]  6.360715e-01 -3.579733e-01  1.039925e+00  9.690206e-01
##   [2482,] -6.848599e-01 -5.832757e-01 -5.147338e-01  3.405353e+00
##   [2483,] -1.377759e-01 -8.192669e-01  1.332048e+00  2.463566e+00
##   [2484,]  2.441872e-02 -6.845926e-01  1.098058e+00  1.020297e+00
##   [2485,] -4.829332e-02 -5.657006e-01 -1.596007e+00  2.433292e+00
##   [2486,]  4.831355e-01  2.264801e-02  4.229218e-02  5.748991e-01
##   [2487,] -3.986679e-01  1.395487e+00  9.861868e-01  2.430176e-01
##   [2488,] -2.553914e+00 -4.291854e-01  1.361201e+00  6.332522e-01
##   [2489,]  1.210707e+00 -2.728170e-01  1.310228e+00  5.369387e-01
##   [2490,]  1.493172e-01 -2.866679e-01  7.180986e-01  1.526542e+00
##   [2491,]  1.225257e+00  3.982919e-01  1.149943e+00  2.733992e+00
##   [2492,] -2.023782e-01  5.762465e-02  1.056850e+00  9.408720e-01
##   [2493,] -5.780002e-01  4.142023e-01  8.061871e-01  1.331778e+00
##   [2494,]  3.552125e-01  2.256555e-01 -1.013347e-01  1.482095e-01
##   [2495,] -1.036960e+00  1.612279e+00 -1.378599e+00  2.190931e+00
##   [2496,]  8.563152e-01  9.959509e-01  8.242451e-01  1.400870e+00
##   [2497,]  4.869296e-01  5.734920e-01 -1.438696e-01  7.751846e-01
##   [2498,] -6.842451e-02 -9.887782e-02  9.717863e-01  3.077311e+00
##   [2499,]  5.868962e-01  7.749747e-01 -9.107820e-01  7.801607e-01
##   [2500,] -7.933402e-01 -1.088073e+00  1.077519e+00  3.080712e+00
##   [2501,]  6.554075e-01  1.042165e+00  9.237286e-01  9.738926e-01
##   [2502,]  1.062106e+00  2.762594e+00 -2.537978e-01  2.425887e+00
##   [2503,]  7.420570e-02 -4.147916e-01  9.734629e-01  3.035802e+00
##   [2504,] -1.121073e-02 -7.025128e-01  1.224979e+00  2.758675e+00
##   [2505,]  6.543092e-01 -8.879156e-01  1.252846e+00  2.640638e+00
##   [2506,]  6.499242e-01  8.965160e-01  8.242964e-01  5.469054e-01
##   [2507,]  7.352250e-01  7.924322e-01 -3.185610e-01  1.078003e+00
##   [2508,]  5.137325e-01  1.696857e-04  9.581081e-01  1.081618e+00
##   [2509,] -1.922315e-02 -5.673660e-01  7.867691e-01  1.488539e+00
##   [2510,]  4.411747e-01 -1.099339e+00  1.370941e+00  5.033411e-01
##   [2511,]  4.043404e-01  8.583150e-01  1.237017e+00  3.565806e-01
##   [2512,]  4.641560e-01  1.033720e+00 -2.462080e-01  7.863603e-01
##   [2513,]  7.498923e-01 -4.287117e-01  9.072003e-01  1.234455e+00
##   [2514,]  7.807739e-01 -3.049298e-02 -1.193227e+00  1.307990e+00
##   [2515,]  8.297356e-01  2.095824e-01 -1.008960e-01  1.455237e+00
##   [2516,] -3.927700e-01 -3.572330e-01 -7.474987e-01  5.539553e-01
##   [2517,] -4.015996e-01  6.515455e-01  5.696623e-01  6.987074e-01
##   [2518,]  9.388671e-02 -1.616195e-01 -4.719159e-01  1.360059e+00
##   [2519,] -3.839602e-01  2.232201e+00 -2.802263e-02  1.329767e-01
##   [2520,] -6.609819e-01  1.002311e+00  7.439825e-01  1.406389e+00
##   [2521,] -1.679654e+00  8.850645e-01  1.341001e+00  2.768727e-01
##   [2522,] -8.645750e-01  1.870913e+00 -3.130997e-01  8.587492e-01
##   [2523,]  1.205375e+00 -4.321077e-01  1.241496e+00  6.356090e-01
##   [2524,] -1.041078e+00  2.693722e+00  8.260375e-02  1.466560e-01
##   [2525,] -1.814181e-02  1.546527e-01  7.826727e-01  1.406641e+00
##   [2526,] -1.489182e+00 -1.181911e+00  1.164310e+00  9.577773e-01
##   [2527,] -7.426628e-01 -1.290694e-01 -1.100652e+00  8.171738e-01
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##   [2529,] -1.436775e-01 -5.248124e-01  1.194373e+00  7.656427e-01
##   [2530,] -1.315261e+00  3.674705e-01 -2.848088e-01  8.693995e-01
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##   [2535,] -6.796280e-01 -5.642992e-01 -6.849064e-01  3.181950e+00
##   [2536,] -1.757472e+00  1.828707e+00 -5.073345e-01  9.124644e-01
##   [2537,] -8.741564e-01 -1.548966e+00 -4.935139e-02  7.718473e-01
##   [2538,] -1.369802e+00  1.381804e+00 -4.233106e-01  1.246146e+00
##   [2539,] -5.825669e-01  6.441901e-01  1.371519e+00  1.247251e-01
##   [2540,]  9.216703e-01 -5.179303e-01  1.659518e+00 -7.555331e-02
##   [2541,]  1.174095e+00  7.762640e-01 -1.656949e+00  3.924227e-01
##   [2542,] -1.171864e+00 -1.025035e-01 -1.288177e+00  1.873173e-01
##   [2543,] -6.405044e-01 -7.103244e-01  9.051010e-01  3.295795e+00
##   [2544,] -1.188162e+00 -1.183303e+00 -2.215041e-01  5.541821e-01
##   [2545,]  1.245626e+00  8.003482e-01 -2.518538e-01  2.935132e+00
##   [2546,] -1.811307e+00 -6.667701e-01 -4.017220e-01  8.258565e-01
##   [2547,] -2.363494e-01 -1.161184e+00 -1.581860e+00  6.223413e-01
##   [2548,] -6.400177e-02 -7.431107e-01  1.017802e+00  9.013576e-01
##   [2549,] -2.406789e-02  3.866288e-01  1.002394e+00  6.573107e-01
##   [2550,] -1.017051e-01 -8.350732e-01 -1.441925e+00  9.963231e-01
##   [2551,] -6.314249e-01  8.760386e-02 -3.359277e-01  1.132943e+00
##   [2552,]  4.686086e-01 -7.800318e-01 -4.464225e-01  3.391242e-01
##   [2553,]  1.458299e+00  2.070469e-01  8.957034e-01  2.891248e+00
##   [2554,] -7.210806e-02 -8.159432e-01 -5.019731e-01  5.336794e-01
##   [2555,] -1.161051e-01 -1.410013e-02 -2.620872e-01  1.097448e+00
##   [2556,] -7.372101e-01 -9.297870e-01  5.982597e-01  2.995525e+00
##   [2557,]  6.252770e-01 -8.054860e-01  1.165594e+00  2.813270e+00
##   [2558,] -2.296745e+00  1.384831e+00 -3.994387e-01  1.059117e+00
##   [2559,]  6.240708e-02  1.030066e+00  1.378482e-01  2.762687e+00
##   [2560,]  4.848229e-01 -5.886120e-01  1.403853e+00  2.469008e+00
##   [2561,]  1.269945e+00  1.969133e-01 -6.300030e-01  1.083158e+00
##   [2562,]  4.641815e-02 -7.915111e-02 -1.852678e+00  8.906310e-01
##   [2563,]  1.096113e+00  1.078607e+00 -1.894129e-02  6.141398e-01
##   [2564,]  6.920475e-01  2.150059e+00 -1.383474e+00 -6.512148e-02
##   [2565,]  8.724856e-01  2.124812e+00 -1.512255e+00  2.076719e+00
##   [2566,]  3.977015e-01  2.074760e-02  1.123024e-01  2.063603e+00
##   [2567,] -6.244689e-01  5.910442e-02 -2.350712e+00  1.755261e+00
##   [2568,] -5.146792e-01 -1.475078e+00  3.474268e-01  1.972306e+00
##   [2569,]  5.003742e-01  5.687227e-02  1.225072e+00  5.615181e-01
##   [2570,]  1.208477e+00 -3.738632e-01 -1.203896e+00  7.290830e-01
##   [2571,]  5.241255e-02  8.687998e-01  1.215814e+00 -1.993238e-01
##   [2572,]  1.940432e-01 -3.383263e-01  4.472038e-01  3.097295e+00
##   [2573,] -1.570328e-01 -1.372981e+00  1.076236e-01  4.768859e-01
##   [2574,] -2.644250e-01  2.822811e+00 -7.545459e-02  2.176404e+00
##   [2575,] -4.814021e-01  2.476261e+00 -1.048406e-01  1.946154e-02
##   [2576,] -7.723580e-01 -6.595390e-01 -1.701591e-01  9.036568e-01
##   [2577,]  7.532706e-01 -1.125472e-01 -1.329311e+00  9.858935e-01
##   [2578,] -2.061056e-01 -5.951883e-01  1.485413e+00  2.744432e-01
##   [2579,]  1.122075e+00 -4.632464e-01 -8.623559e-02  6.748652e-01
##   [2580,] -9.648258e-01  1.017823e+00 -1.455757e+00  6.675598e-01
##   [2581,] -7.403046e-01  1.731442e+00 -2.149191e-01  5.432616e-01
##   [2582,] -6.564098e-01  9.646555e-01  9.067335e-03  3.091803e+00
##   [2583,]  9.659532e-01  1.004466e-01 -4.541777e-02  3.940884e-01
##   [2584,]  4.692234e-01  6.549043e-01 -2.187642e-01  9.703929e-01
##   [2585,]  1.382603e+00  4.140270e-01  1.011609e+00  2.980614e+00
##   [2586,]  5.975189e-01 -2.474162e-01  1.009910e+00  3.064741e+00
##   [2587,]  3.557686e-02  1.582950e-01  1.053383e+00  2.973266e+00
##   [2588,]  9.109376e-01  6.653711e-01 -1.354415e+00  2.480013e-01
##   [2589,] -8.401609e-01  1.445288e+00 -1.571932e-01  6.341514e-01
##   [2590,]  1.243226e+00  3.719466e-02  1.209581e+00  6.586810e-01
##   [2591,] -1.628286e-03  7.420677e-01  7.973179e-01  1.276180e+00
##   [2592,] -8.451763e-01  6.663485e-01  8.353662e-02  7.510528e-01
##   [2593,] -2.119796e+00  9.813020e-01  4.663277e-01  2.863900e+00
##   [2594,] -9.770100e-01  5.495153e-01 -1.090300e+00  1.434179e-01
##   [2595,] -1.019445e+00 -3.281955e-01 -1.390978e+00  7.477508e-01
##   [2596,]  1.350694e+00  6.339928e-01  9.593445e-01  1.001153e+00
##   [2597,]  1.401174e-01  4.974216e-01  8.204688e-01  1.268137e+00
##   [2598,] -5.955306e-01  8.219973e-01  1.951257e-01  1.148603e+00
##   [2599,]  5.127923e-01 -5.527496e-02  1.179920e+00  6.992222e-01
##   [2600,]  4.614165e-01  1.239862e+00 -1.950052e-01  5.149522e-01
##   [2601,]  4.077454e-01  7.176961e-01 -8.053775e-02  4.011405e-01
##   [2602,] -1.602505e+00  8.443412e-01  1.152747e+00  6.670966e-01
##   [2603,] -9.489715e-01 -3.846344e-01 -1.365556e-01  2.694336e-01
##   [2604,] -1.604353e+00 -1.251640e+00 -2.982063e-01  2.835313e+00
##   [2605,] -1.422199e-01  2.918876e-01  9.107796e-01  1.265214e+00
##   [2606,]  1.354504e+00  1.306909e-01 -3.974067e-01  1.173528e+00
##   [2607,]  5.559861e-01  2.027346e+00 -2.053997e+00  1.279123e+00
##   [2608,]  4.724340e-01  6.636500e-02 -1.938286e-02  9.445925e-01
##   [2609,]  1.095200e+00 -9.619027e-02  9.807725e-01  2.367089e+00
##   [2610,]  8.178784e-01 -5.822939e-01 -8.141902e-01  1.595662e+00
##   [2611,] -1.493962e+00  2.016834e-01  1.142543e+00  2.692065e+00
##   [2612,] -8.365196e-01 -6.420363e-01 -1.957388e+00  1.149224e+00
##   [2613,]  7.450210e-02 -6.051657e-01 -1.236812e+00  1.123518e+00
##   [2614,] -1.467424e+00  9.371840e-01  9.959449e-01  9.946665e-01
##   [2615,]  6.094182e-01 -2.853421e-01  1.100236e+00  9.006799e-01
##   [2616,]  4.189526e-01 -5.159663e-01 -4.125328e-01  2.574458e+00
##   [2617,]  1.117022e+00  2.015153e-01  1.254599e+00  2.470011e+00
##   [2618,] -1.627559e+00 -1.195510e+00 -3.487465e-01  3.277895e+00
##   [2619,]  9.388967e-01  3.704135e+00  1.248769e+00  4.081488e-01
##   [2620,]  3.736340e-01 -2.194557e-01  1.395246e+00  2.323875e-01
##   [2621,]  3.659770e-01 -7.109439e-01 -5.715476e-01  2.011441e+00
##   [2622,] -8.451677e-01  3.986652e-01  7.765338e-01  7.575451e-01
##   [2623,]  1.376239e-01  9.573822e-01  9.072151e-01  1.047694e+00
##   [2624,]  5.862774e-01 -3.844991e-01 -6.066311e-01  1.140277e+00
##   [2625,]  1.306639e+00 -6.099442e-02  3.004027e-01  1.035621e+00
##   [2626,]  6.507567e-01 -7.037682e-01  1.020895e+00  1.067216e+00
##   [2627,]  4.247092e-01 -2.827658e-01  1.212926e-01  4.977505e-01
##   [2628,] -1.896059e-01 -1.796062e-01  1.035372e+00  2.948412e+00
##   [2629,]  2.548732e-01  9.907418e-01  1.365118e+00  2.024045e-01
##   [2630,] -7.829050e-01  6.491341e-01  7.651515e-02  1.281340e+00
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##   [2631,]  3.941493e-01 -5.263198e-01 -1.650517e+00  6.341763e-01
##   [2632,] -5.565020e-01 -5.056063e-02 -2.174738e-01  1.469626e+00
##   [2633,]  5.663809e-01 -1.914118e-01 -2.271056e-01  8.921362e-01
##   [2634,] -9.207102e-01 -1.554978e+00  1.451948e+00  4.617733e-01
##   [2635,] -2.034900e+00  9.175652e-01  9.296563e-01 -1.957254e-01
##   [2636,]  7.670223e-02  5.382184e-02 -5.426938e-01  1.580233e+00
##   [2637,]  1.155606e-02 -3.876251e-01 -1.176311e+00  9.941704e-01
##   [2638,] -6.308010e-01 -8.287761e-01 -2.031038e-01  1.008033e+00
##   [2639,]  6.832065e-02  6.434372e-01  1.114708e+00  8.158137e-01
##   [2640,]  1.298364e+00 -1.936206e-01 -1.845814e+00  2.796781e+00
##   [2641,]  1.333140e+00  5.593436e-01  4.002007e-02  1.156794e+00
##   [2642,]  4.610918e-01  6.803467e-01  9.969483e-01  1.013658e+00
##   [2643,]  1.003288e+00  3.287331e-01  8.837741e-01  3.294707e-01
##   [2644,] -1.580273e+00 -8.159422e-01 -6.933069e-02  9.405924e-01
##   [2645,] -4.322592e-02  1.757518e-01 -4.222767e-01  1.310798e+00
##   [2646,]  8.432190e-01  5.140350e-01  8.865234e-01  1.318356e+00
##   [2647,] -1.559041e+00 -4.001137e-01  1.187793e+00  8.237667e-01
##   [2648,] -7.539572e-01 -4.716753e-01 -6.513953e-01  1.732249e+00
##   [2649,]  1.269420e+00  7.966665e-01 -1.621848e+00  1.124054e+00
##   [2650,] -1.681639e-01 -7.037712e-01  1.305868e+00  2.720078e+00
##   [2651,]  5.638544e-02  4.356922e-01 -7.712244e-01  1.313241e+00
##   [2652,] -5.536486e-01  7.904809e-02 -3.104972e-01  1.933305e+00
##   [2653,]  1.809307e-01  1.613489e-01  9.096920e-01  3.309958e+00
##   [2654,] -6.107372e-01 -1.408487e-01  9.979217e-01  3.187770e+00
##   [2655,] -5.712429e-01 -1.349461e-01 -2.045327e+00  1.216510e+00
##   [2656,] -7.334387e-01 -9.297067e-02  1.387103e+00  4.006364e-01
##   [2657,] -1.363361e+00 -1.091311e+00 -1.341068e+00  3.057751e+00
##   [2658,] -1.626875e+00 -3.618404e-01  2.306260e-01  6.253656e-01
##   [2659,] -1.358970e-01 -7.228519e-01  1.078379e+00  1.007650e+00
##   [2660,] -1.188278e+00 -2.646346e-01  1.779705e+00  1.594443e+00
##   [2661,] -2.710378e-01 -2.221679e-01  1.142603e+00  8.931653e-01
##   [2662,]  1.083017e+00  1.599802e-01  2.764559e-01  6.635915e-01
##   [2663,]  6.866745e-02 -9.177909e-01 -2.066322e-01  9.014506e-01
##   [2664,]  1.276890e+00  9.754464e-01  1.626550e-01  1.033231e+00
##   [2665,] -2.061664e+00 -1.133360e+00  9.542294e-01  3.403357e+00
##   [2666,] -3.358649e+00 -1.133340e-01 -8.628817e-01  1.174670e+00
##   [2667,] -6.809909e-01  1.314576e+00  6.272104e-01  9.006005e-01
##   [2668,]  1.225590e+00 -1.983435e-01 -1.406688e+00  7.793701e-01
##   [2669,] -2.058487e-02 -5.108866e-01  3.126426e-02  1.281041e+00
##   [2670,]  1.056261e+00  2.087267e-01  1.373037e+00  2.309422e+00
##   [2671,] -8.895626e-01  9.454577e-01  1.123107e+00  7.226742e-01
##   [2672,]  5.069883e-01 -1.077036e-01 -1.600755e+00  2.790647e+00
##   [2673,]  1.632230e-01  1.762129e+00  1.231953e+00  2.122221e-01
##   [2674,] -1.156869e+00  1.039793e+00 -1.437555e+00  1.866914e+00
##   [2675,] -9.503478e-02  6.299131e-01 -5.375238e-01  8.489480e-01
##   [2676,] -1.130875e+00  1.611593e+00  1.387854e+00  2.762738e-03
##   [2677,]  5.678102e-01 -2.564121e-01 -3.767637e-01  1.153813e+00
##   [2678,] -2.498351e-01  7.671987e-01  1.283630e+00  3.577781e-01
##   [2679,] -2.096065e+00  4.126175e+00  8.645054e-01  3.373967e+00
##   [2680,] -1.964364e-01  1.383945e+00  1.277037e+00  2.215491e+00
##   [2681,]  5.349476e-01 -4.335140e-02  1.072855e+00  8.688884e-01
##   [2682,] -9.634898e-01  6.118374e-01 -1.505719e+00  1.361790e+00
##   [2683,]  1.759692e-02 -9.043914e-01  2.224310e-01  2.914599e+00
##   [2684,]  5.472265e-01  1.618878e-01  1.001880e+00  1.143918e+00
##   [2685,] -1.200768e-01  1.663805e-01  1.220143e+00  5.919193e-01
##   [2686,]  4.496980e-01  2.119836e-01 -8.528569e-01  3.818334e-01
##   [2687,] -2.533767e+00 -2.329240e-01 -1.423978e+00  2.297817e-01
##   [2688,] -6.744285e-01  2.330297e+00 -1.601051e-01  7.642849e-01
##   [2689,] -9.955949e-01  1.119288e+00 -1.462059e+00  2.362681e+00
##   [2690,] -1.230631e-02 -7.646593e-01  1.055363e+00  1.055577e+00
##   [2691,] -8.876851e-02 -2.850118e-01  1.139890e+00  9.101891e-01
##   [2692,] -1.076392e+00  1.281499e+00  2.489117e-02  2.134952e+00
##   [2693,]  1.297843e-01  1.237148e+00  8.728903e-01  3.398511e+00
##   [2694,] -9.318543e-01  1.283656e-02 -1.177066e+00  1.004266e+00
##   [2695,]  1.117923e+00 -9.861886e-01  1.165502e+00  2.169886e+00
##   [2696,]  1.094077e+00 -1.819260e-01  4.497360e-01  4.889340e-01
##   [2697,] -2.501120e-01 -1.161963e+00  1.187137e+00  8.506708e-01
##   [2698,] -1.036975e+00  7.136629e-01  1.706260e+00 -8.745348e-02
##   [2699,]  1.240817e+00 -2.261791e-01  7.540091e-01  4.927773e-01
##   [2700,] -1.346830e+00  1.031294e-01 -4.927771e-01  2.767667e+00
##   [2701,] -8.695998e-01 -1.432111e+00 -1.034751e+00  2.826550e+00
##   [2702,]  1.137431e-01  7.156102e-02  6.887402e-02  1.112859e+00
##   [2703,]  1.084856e+00  8.130260e-01  1.082714e+00  7.678709e-01
##   [2704,]  1.141623e+00 -3.327910e-01 -7.447851e-02  4.410443e-01
##   [2705,]  4.652501e-01 -2.548826e-01 -8.758160e-02  6.395751e-01
##   [2706,] -1.682075e-01 -1.443403e+00 -1.459552e+00  2.347067e+00
##   [2707,] -7.808055e-01  5.870217e-01  1.023803e+00  2.937644e+00
##   [2708,]  9.977781e-01  2.282337e-01 -2.411935e-01  2.267723e+00
##   [2709,] -1.029079e-01  1.126359e+00  8.497224e-01  1.086295e+00
##   [2710,] -1.398644e+00  9.560146e-01  9.999064e-01  9.546914e-01
##   [2711,]  4.014919e-01 -5.899040e-01 -1.066005e-01  7.075920e-01
##   [2712,] -7.825053e-01 -1.342527e-01 -6.299455e-01  1.310591e+00
##   [2713,] -1.476775e+00  9.012481e-01  4.605922e-01  2.746832e+00
##   [2714,] -9.499315e-01  1.734022e+00  1.248498e+00  4.166357e-01
##   [2715,] -3.484178e+00  4.758372e-02 -4.587377e-01  8.779839e-01
##   [2716,]  1.427666e-01  3.017875e-01  2.620153e-01  1.469252e-01
##   [2717,] -5.146903e-01  1.038369e+00  9.411425e-01  1.069467e+00
##   [2718,] -3.275129e+00  4.676095e-01  4.165195e-01  4.817812e-01
##   [2719,] -1.869097e-01 -4.783122e-01  4.703930e-01  2.723584e+00
##   [2720,] -9.085465e-02  1.134517e+00 -6.498418e-01  2.885789e+00
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##   [2722,] -7.156676e-02 -8.397006e-01  1.170429e+00  8.931649e-01
##   [2723,]  9.653766e-01  3.969586e+00 -1.374821e+00  6.688411e-01
##   [2724,]  1.088457e+00  1.835665e+00  5.226477e-01  2.243428e+00
##   [2725,] -1.909060e-01  4.844399e-01 -1.696446e+00  1.143296e+00
##   [2726,]  3.447164e-01 -6.840107e-01  1.634942e+00 -1.197160e-02
##   [2727,] -1.014811e+00 -2.381622e-01 -1.226511e+00  2.193136e+00
##   [2728,]  6.449516e-02  2.863664e+00  3.596997e-02 -1.693197e-01
```

```
##   [2729,]  1.017273e+00 -5.372168e-01  5.557692e-01  2.748563e-01
##   [2730,]  4.606273e-01 -1.706950e-01 -1.446872e+00  5.754840e-01
##   [2731,] -1.076960e-01  8.445976e-01 -4.208555e-01  9.587347e-01
##   [2732,] -1.187142e+00 -3.213450e-01  1.217139e+00  2.573386e+00
##   [2733,]  7.159997e-01  2.628335e-01 -1.222065e+00  9.693228e-01
##   [2734,]  1.252312e+00  4.704890e-01  8.683674e-01  1.147800e+00
##   [2735,] -1.671943e+00  1.386168e+00  1.240751e+00  3.634864e-01
##   [2736,] -1.941534e-01 -4.784044e-02 -3.791892e-01  6.476602e-01
##   [2737,]  6.645351e-01 -1.630283e-01 -1.781129e+00  1.094558e+00
##   [2738,] -1.077812e+00 -1.609762e-01 -1.571840e+00  2.428280e+00
##   [2739,] -1.375466e+00 -1.253714e-01 -1.809715e-01  8.523453e-01
##   [2740,]  5.046109e-01  6.292034e-01 -1.737754e+00  5.615385e-01
##   [2741,] -2.844240e-01 -6.740191e-01 -1.315180e+00  2.595966e+00
##   [2742,]  1.050187e+00 -2.169564e-01  1.457491e+00  2.347957e+00
##   [2743,] -7.559253e-01  1.573683e+00  3.368141e-01 -4.759717e-01
##   [2744,] -3.314440e-01 -8.659038e-01  1.358000e+00  6.521391e-01
##   [2745,] -2.722137e-01 -6.840813e-01 -6.236640e-01  7.913628e-01
##   [2746,] -5.428402e-01  4.235062e-02  8.936190e-01  1.343405e+00
##   [2747,] -1.255914e+00  6.599911e-02 -1.037311e+00  5.824819e-01
##   [2748,] -9.424318e-01  2.164597e+00 -1.654673e+00  2.934992e-01
##   [2749,] -8.561636e-01 -6.658203e-01 -3.874894e-01  3.278802e+00
##   [2750,]  7.746511e-01  5.359764e-01 -4.249124e-02  2.961752e+00
##   [2751,] -5.137350e-01  1.014643e+00  9.357351e-01  1.071525e+00
##   [2752,] -1.022582e+00  2.329026e+00  1.451333e+00 -1.557302e-02
##   [2753,] -4.488287e-02  3.378714e-01 -5.435893e-01  1.348596e+00
##   [2754,] -1.611371e-01 -3.436169e-01 -5.388811e-01  9.475771e-01
##   [2755,] -8.672264e-01  1.342355e+00 -5.339353e-01  6.815089e-01
##   [2756,] -8.282792e-01 -9.704958e-01  1.638113e-01  2.521500e+00
##   [2757,] -2.511528e+00 -4.786733e-01 -1.024178e+00  4.907410e-01
##   [2758,] -8.372997e-01 -1.254373e+00 -2.785962e-01  1.119628e+00
##   [2759,]  3.998193e-02 -4.612657e-01  7.749853e-01  1.479129e+00
##   [2760,]  6.719159e-01  2.494001e-01 -1.517950e+00  1.026239e+00
##   [2761,] -7.947878e-01  4.090036e-01  9.444718e-01  4.998130e-01
##   [2762,]  1.310870e+00  7.550159e-01  5.618347e-02  1.121466e+00
##   [2763,]  5.444186e-01  7.895753e-01  8.001875e-01  1.254551e+00
##   [2764,] -3.072585e-01 -4.428388e-01 -3.358575e-01  2.573668e+00
##   [2765,]  6.787313e-01 -1.907268e-01  3.784184e-01  8.528678e-01
##   [2766,]  1.034611e+00 -5.000609e-01  1.389144e+00  3.555282e-01
##   [2767,] -2.067150e-01 -1.017275e+00 -7.020508e-01  2.777919e+00
##   [2768,]  1.090737e-01  3.183639e-01 -1.597434e+00  1.087671e+00
##   [2769,] -8.885105e-01  7.298231e-02 -1.758364e+00  2.534336e+00
##   [2770,] -8.732456e-01 -5.488349e-01 -4.152786e-01  1.093901e+00
##   [2771,]  1.899317e-03 -1.091736e+00 -1.388163e+00  8.640336e-01
##   [2772,] -7.256834e-02 -4.131032e-01  1.125383e+00  8.394810e-01
##   [2773,]  1.422252e-01  2.955582e-01  6.654892e-01  1.573196e+00
##   [2774,] -9.862489e-01 -1.307758e+00 -1.441850e+00  1.021179e+00
##   [2775,] -5.626866e-01  5.622946e-01  9.567495e-01  1.097850e+00
##   [2776,] -5.383124e-01 -6.819877e-01 -1.366865e+00  1.446208e+00
##   [2777,] -2.447703e+00  1.184648e+00  4.125420e-01  2.944439e+00
##   [2778,]  7.805620e-01  8.788227e-01 -6.689809e-01  1.492133e+00
##   [2779,]  1.534653e-01 -6.201224e-02 -1.976998e+00  1.146153e+00
##   [2780,] -6.433181e-01 -1.128524e-01 -1.086498e+00  1.492192e+00
##   [2781,]  1.181095e+00 -2.873915e-01  1.211007e+00  2.575995e+00
##   [2782,] -2.446719e+00 -1.527307e+00  8.782701e-01  2.615497e+00
##   [2783,] -2.591709e-01 -9.490569e-01 -1.089590e-01  8.190082e-01
##   [2784,]  7.769658e-01  8.012599e-01 -3.276788e-01  1.150795e+00
##   [2785,] -9.085895e-01 -1.046642e-01  1.202244e+00  7.191816e-01
##   [2786,]  1.034342e+00  3.698888e+00  1.149137e+00  6.305599e-01
##   [2787,] -8.722665e-01  2.303649e+00  1.058729e+00  5.788804e-01
##   [2788,] -1.007160e+00 -3.856432e-01  1.451849e+00  4.173208e-01
##   [2789,] -3.185369e-01  1.149181e+00 -1.206692e-01  3.532264e-01
##   [2790,] -1.895565e+00 -9.455952e-01  2.668359e-01  3.850449e+00
##   [2791,] -2.796204e-01  1.019005e+00 -2.791634e-01  6.428258e-01
##   [2792,]  9.920404e-01 -2.206639e-01  1.619548e+00  1.884808e+00
##   [2793,] -1.816177e+00  2.269117e-01  1.592686e+00  1.901887e+00
##   [2794,] -7.357064e-01 -1.564448e-01  1.168660e+00  8.529757e-01
##   [2795,] -1.003125e+00 -4.057550e-01  4.169911e-01 -2.195185e-02
##   [2796,]  1.098630e+00  1.726675e-01  1.247445e+00  5.119491e-01
##   [2797,]  1.337403e+00  1.664339e-01 -4.961667e-02  2.842529e+00
##   [2798,]  4.475317e-01 -1.523276e+00 -1.299954e+00  1.398221e-01
##   [2799,] -1.436322e+00 -8.812455e-01  9.106932e-01  1.346042e+00
##   [2800,]  5.852094e-01  3.706770e-01  1.079113e+00  8.023927e-01
##   [2801,]  1.183271e+00  2.468823e-01 -4.966737e-02  2.464593e+00
##   [2802,] -8.212278e-01  6.933178e-01 -1.678585e+00  4.338795e-01
##   [2803,] -3.538535e-01 -1.108375e+00  2.178309e-03  5.821461e-01
##   [2804,] -2.281971e+00  8.233216e-01 -2.185018e+00  1.413959e+00
##   [2805,] -1.529454e+00  4.230006e-01 -8.267869e-02  5.545124e-01
##   [2806,]  1.266120e+00  3.972090e+00 -2.286586e-01  8.551613e-01
##   [2807,]  4.404776e-01  3.022753e-01 -1.426005e+00  2.997670e-01
##   [2808,]  5.366220e-01  1.553724e+00 -1.875273e-01  8.566418e-01
##   [2809,] -7.938931e-01  1.552662e+00 -4.410764e-01  2.743228e+00
##   [2810,]  3.644545e-01  2.685632e+00 -8.254478e-01  2.070397e+00
##   [2811,]  8.865906e-01  5.254427e-01  2.052729e-01  1.527639e+00
##   [2812,]  6.132389e-01 -5.654362e-01 -1.747445e-01  9.521282e-01
##   [2813,]  1.163009e+00 -5.180224e-01 -1.115665e+00  2.215093e-01
##   [2814,]  3.372936e-01  1.502351e+00  1.075897e+00  2.117421e+00
##   [2815,]  1.259275e+00  2.178996e+00 -6.884849e-02  2.774076e+00
##   [2816,]  6.395091e-01  2.407703e-02  8.053168e-01  1.384475e+00
##   [2817,]  3.560927e-01  4.385994e-01  2.074016e-01  4.519508e-01
##   [2818,] -2.370895e+00 -6.286760e-02  3.261854e-01  1.114044e+00
##   [2819,] -1.989800e-01  5.638080e-01 -7.195762e-01  1.139915e+00
##   [2820,] -1.492405e+00 -6.578833e-01  1.616404e+00  2.117899e+00
##   [2821,] -7.067672e-01 -1.287089e+00  4.127739e-01  9.977620e-01
##   [2822,]  9.336269e-01  1.164271e-01 -1.322630e+00  1.805220e+00
##   [2823,] -1.163872e+00 -6.958413e-01 -7.815642e-01  2.540312e+00
##   [2824,]  5.542846e-01 -5.466357e-01  1.338748e+00  5.142980e-01
##   [2825,]  5.024944e-01 -2.529135e-01 -2.481863e-01  9.804361e-01
##   [2826,] -3.810221e-01 -2.121806e-01  1.277768e+00  6.300261e-01
```

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##   [2827,]  1.431871e+00  1.561362e-01  1.026599e+00  1.002560e+00
##   [2828,] -2.377635e+00  9.065218e-01 -1.139508e+00  1.201186e+00
##   [2829,] -1.596082e+00 -2.859907e-01 -3.278093e-01  9.712695e-01
##   [2830,]  8.181811e-01  3.076379e-01 -9.232821e-01  2.278002e-02
##   [2831,]  1.718936e-01 -5.457012e-01 -1.955441e+00  2.994127e+00
##   [2832,] -9.635043e-01 -4.661397e-01  1.512964e+00  2.192529e+00
##   [2833,] -8.321367e-01 -6.413036e-01  3.971286e-01  3.006425e+00
##   [2834,]  7.246034e-01 -3.682159e-01  1.065653e+00  1.027964e+00
##   [2835,]  3.627474e-02 -2.542439e-01 -1.789269e+00  1.431732e+00
##   [2836,] -7.679017e-01  1.217786e+00 -5.307919e-01  1.523694e+00
##   [2837,] -3.380012e+00  7.405194e-02 -3.344040e-01  1.108547e+00
##   [2838,]  6.148740e-01 -5.149666e-01  4.086051e-01  2.413020e+00
##   [2839,] -1.876303e-01 -1.083798e+00 -1.879281e-01  9.777437e-01
##   [2840,]  1.244260e+00  1.143129e+00 -5.452720e-01  8.478020e-01
##   [2841,]  3.103444e-02  5.654391e-01 -1.948465e+00  9.406149e-01
##   [2842,] -2.491494e+00  6.593540e-01  1.021252e+00  5.416263e-01
##   [2843,] -1.448077e+00  4.556420e-01  1.019495e+00  9.896130e-01
##   [2844,]  5.394717e-01  3.702262e-01 -2.012575e+00  1.112064e+00
##   [2845,] -9.223988e-01 -5.790161e-01 -2.187967e-01  7.525528e-01
##   [2846,] -1.353055e+00 -5.311888e-01 -5.340673e-01  3.358456e+00
##   [2847,]  6.989395e-01 -1.984794e-02  9.346074e-01  3.096133e+00
##   [2848,]  5.509445e-01 -9.827563e-02  1.097503e+00  8.877585e-01
##   [2849,]  6.987522e-01 -3.166259e-02  9.425221e-01  1.150174e+00
##   [2850,] -5.321327e-02 -6.820525e-01  1.143586e+00  2.476009e+00
##   [2851,] -1.800280e-02 -2.757053e-01 -1.365707e+00  7.132878e-01
##   [2852,]  2.615124e-01 -3.841991e-02 -1.090307e+00  4.136588e-01
##   [2853,] -3.265535e-02 -4.369294e-01 -1.926276e+00  1.401414e+00
##   [2854,] -9.811449e-02  1.060121e-02 -3.044276e-01  1.149490e+00
##   [2855,]  3.515153e-03 -6.254308e-01  1.169307e+00  2.911159e+00
##   [2856,] -2.278556e-01  1.827295e+00  6.258679e-01  3.027645e+00
##   [2857,] -2.712092e-01 -1.228669e+00  1.617538e+00  2.071203e+00
##   [2858,] -8.550818e-01  9.828181e-01 -1.614749e+00  7.318124e-01
##   [2859,] -3.052376e-01  2.739389e+00  7.984432e-01  2.785888e-01
##   [2860,] -9.513696e-01 -1.133701e+00  1.001730e+00  1.199833e+00
##   [2861,]  3.869990e-02 -7.176272e-01  1.139398e+00  8.687146e-01
##   [2862,] -1.145960e-01  2.084849e-01  4.848118e-01  5.947302e-01
##   [2863,]  6.565003e-01  6.108612e-01  8.482753e-01  1.234250e+00
##   [2864,]  1.005654e+00 -3.729660e-01 -1.032869e+00  3.809023e-01
##   [2865,]  1.275647e+00  5.733917e-01  8.583615e-01  1.136706e+00
##   [2866,]  2.108866e-01 -1.379175e-01  3.403787e-01  1.328115e+00
##   [2867,]  1.072163e+00  1.309260e+00 -3.841873e-01  7.554600e-01
##   [2868,]  1.339281e+00  1.994368e+00  8.745126e-01  1.135586e+00
##   [2869,] -1.749293e+00  1.827093e+00 -2.544775e-01  2.192165e+00
##   [2870,]  1.232300e+00  4.649866e-01 -5.338999e-01  2.849086e+00
##   [2871,]  1.215706e+00 -1.082107e-01 -1.871908e+00  9.060474e-01
##   [2872,]  5.336921e-01 -6.813404e-01 -1.378283e+00  2.424897e+00
##   [2873,]  8.491792e-01  1.440750e-02  9.375732e-01  3.130297e+00
##   [2874,]  1.311357e-01  4.560563e-01  1.446329e-03  1.198578e+00
##   [2875,] -1.519820e+00  6.752796e-01 -9.615870e-01  3.903111e-01
##   [2876,] -2.198163e+00  1.062665e+00  9.363055e-01  2.685195e+00
##   [2877,]  1.960148e-01  1.204275e+00 -4.358686e-02 -1.145008e-01
##   [2878,]  1.132788e+00 -6.024085e-02  1.160577e+00  6.607465e-01
##   [2879,]  3.823437e-01  8.532534e-01 -1.190499e+00  8.183930e-01
##   [2880,] -4.915007e-01 -4.759611e-01 -1.818946e+00  1.577348e+00
##   [2881,] -1.630749e+00  2.189194e+00  9.978207e-01  7.632192e-01
##   [2882,]  1.213417e+00 -1.824050e-01 -1.324632e-01  7.934819e-01
##   [2883,]  7.768766e-01  1.859482e+00 -4.180843e-01 -4.092490e-01
##   [2884,] -1.698329e-01 -7.058593e-01 -9.948010e-01  1.054200e+00
##   [2885,]  1.197048e+00  1.166120e+00  4.350632e-01  9.287861e-01
##   [2886,] -3.457007e-01  2.221772e-01  3.512607e-01  5.820412e-01
##   [2887,] -2.200218e+00  2.367701e-01 -4.795647e-01  8.993193e-01
##   [2888,]  3.857524e-01  4.610754e-01  1.246646e+00  2.405138e+00
##   [2889,] -6.014590e-01 -9.710430e-01  1.050656e+00  1.099576e+00
##   [2890,]  1.105599e+00  1.426123e-01 -1.415638e-01  2.395095e+00
##   [2891,]  7.799501e-01  3.971018e-02  1.784873e-01  1.208645e+00
##   [2892,] -5.844375e-01  7.925804e-01 -2.952335e-01  8.102056e-01
##   [2893,] -4.477375e-01  1.319173e+00 -1.482278e+00  2.272501e+00
##   [2894,] -3.182432e+00  2.214413e-01  5.489305e-01  6.671893e-01
##   [2895,] -6.404526e-01 -4.559568e-02  9.419677e-01  1.127953e+00
##   [2896,] -1.009357e+00 -1.338965e+00 -1.875048e-01  1.004117e+00
##   [2897,]  1.581187e-01 -1.107393e-01  9.862357e-01  1.201416e+00
##   [2898,] -4.632056e-01 -4.436364e-01 -4.680160e-01  1.471873e+00
##   [2899,] -7.224678e-01  3.870099e-01  9.904269e-01  1.057628e+00
##   [2900,] -1.941007e-01  1.677877e+00 -2.756792e-01  8.653251e-01
##   [2901,] -3.048874e-01 -1.175249e+00 -8.420577e-01  4.958758e-01
##   [2902,] -8.133289e-01 -3.422230e-01 -2.783333e-01  8.299259e-01
##   [2903,] -4.347341e-01 -1.063939e+00  8.662721e-03  2.157007e+00
##   [2904,] -1.643215e+00  6.692566e-01  1.239942e+00  1.914754e+00
##   [2905,] -1.602730e+00 -2.411841e-01  7.011423e-01  7.182843e-01
##   [2906,] -2.414170e-01  7.300858e-02  1.359730e+00  2.412896e+00
##   [2907,] -1.082649e-01 -4.513568e-01  1.096165e+00  8.750898e-01
##   [2908,]  1.052701e+00  7.301285e-01  3.254370e-01  4.044083e-01
##   [2909,] -5.778517e-01  1.301259e+00  8.657280e-01  1.251832e+00
##   [2910,] -7.222665e-01 -7.493210e-01  9.987741e-01  3.099202e+00
##   [2911,]  7.602385e-01 -3.140593e-01 -1.881442e+00  9.769638e-01
##   [2912,] -1.714852e+00 -2.180278e+00  1.290259e+00  9.177547e-01
##   [2913,]  7.697364e-01  4.404329e-02 -2.101717e+00  1.361806e+00
##   [2914,]  1.286398e+00  1.719252e-01  1.663968e-01  2.846722e+00
##   [2915,]  3.731679e-01  2.248642e+00  1.155919e+00  5.105075e-02
##   [2916,] -9.497124e-01 -5.706072e-01  9.605980e-01  1.258300e+00
##   [2917,] -1.251020e+00  1.204620e+00 -2.636458e-01  6.853870e-01
##   [2918,] -1.142441e-01  6.098119e-01 -1.880950e-01  6.361398e-01
##   [2919,] -1.478104e+00 -1.125303e+00  7.999826e-01  1.632016e+00
##   [2920,]  1.056413e-02 -9.666615e-03 -2.558917e-01  1.412117e+00
##   [2921,]  1.141303e+00  1.122705e-01  1.385237e+00  2.352838e+00
##   [2922,] -1.969822e+00 -5.676177e-01  1.741572e+00  1.924479e+00
##   [2923,] -2.161959e+00  1.363247e+00 -1.798629e+00  1.342944e+00
##   [2924,]  5.769364e-01  4.158753e-01  4.241777e-01  6.804007e-01
```

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##   [2925,]  6.328777e-02 -7.213514e-01  1.049207e+00  1.111265e+00
##   [2926,] -3.683280e-01 -1.505099e+00  1.538439e-01  2.326052e+00
##   [2927,]  4.434340e-01 -6.518799e-02  1.037489e+00  9.106885e-01
##   [2928,] -1.291421e+00 -7.885911e-01 -1.108793e+00  1.660692e+00
##   [2929,]  1.696447e-01 -2.994979e-01  9.323951e-01  1.229301e+00
##   [2930,]  5.954385e-01  1.893725e-01 -1.843280e+00  8.510045e-01
##   [2931,]  5.884900e-01 -1.884071e-01 -1.107797e-01  1.186611e+00
##   [2932,]  3.068083e-01  5.303687e-01  1.187862e+00  6.321955e-01
##   [2933,]  9.180503e-01  2.191974e+00 -1.341955e+00  2.066057e+00
##   [2934,]  1.095829e+00  9.064849e-01 -9.014769e-01  2.206253e+00
##   [2935,]  1.364971e+00  9.724916e-01  4.942904e-02  1.313266e+00
##   [2936,] -2.791463e-01  6.951392e-01 -1.092091e-02  8.070571e-01
##   [2937,] -8.999605e-02 -1.613321e+00 -4.999672e-02  4.166737e-01
##   [2938,] -9.946600e-01  8.555908e-01 -1.489390e+00  2.395975e+00
##   [2939,]  1.922029e-01  3.599525e-01 -2.093631e+00  1.293847e+00
##   [2940,] -5.438905e-01  1.124985e+00  3.205747e-01  1.295416e+00
##   [2941,] -1.444391e+00 -8.005656e-01  1.113342e-01  3.548800e+00
##   [2942,] -6.157179e-01  1.061952e+00  1.163388e+00  7.944214e-01
##   [2943,] -3.246724e-01  7.981921e-02  1.100236e+00  8.243181e-01
##   [2944,] -3.574837e-01  7.608397e-01 -1.090607e+00  2.537318e-01
##   [2945,] -3.459366e-01 -8.826551e-02  4.326258e-02  2.206749e-01
##   [2946,] -2.129023e+00 -1.241886e-01  9.293509e-01  3.152033e+00
##   [2947,] -1.797454e-01  5.163175e-01 -2.643702e-01  6.994154e-01
##   [2948,] -2.526357e+00  1.308115e+00  6.257155e-01  6.977970e-01
##   [2949,]  7.259344e-01  3.416064e-01 -1.777433e-01  1.307895e+00
##   [2950,] -1.863048e+00  2.808715e-01 -1.421746e+00  4.295030e-01
##   [2951,] -6.886298e-01  2.299189e+00  5.668187e-01  1.276837e+00
##   [2952,] -1.223163e+00  1.553395e+00  5.047752e-02  1.402524e-01
##   [2953,]  3.773302e-01 -3.940323e-01  1.420951e+00  3.235661e-01
##   [2954,]  4.333499e-01 -5.784830e-01  1.188994e+00  8.005565e-01
##   [2955,]  1.761247e-01 -3.049328e-01 -4.656130e-01  1.248129e+00
##   [2956,] -2.279114e+00  5.764665e-01  1.008656e+00  1.025265e+00
##   [2957,] -6.250208e-01  8.224580e-01 -1.680195e-01  2.596178e+00
##   [2958,] -2.941534e+00  6.360581e-02  3.443231e-01  1.115766e+00
##   [2959,] -8.226043e-01 -1.265132e+00  1.129119e+00  2.992199e+00
##   [2960,] -8.171743e-02 -4.239129e-01  1.001436e+00  7.969427e-01
##   [2961,] -8.577544e-01  7.898323e-01  1.184443e+00  5.521306e-01
##   [2962,] -6.589605e-01  1.316188e+00  8.752091e-01  1.290321e+00
##   [2963,] -1.026441e+00  2.513567e+00 -4.872887e-01  2.380862e+00
##   [2964,] -9.676068e-01 -1.070517e+00  9.132874e-02  3.979183e-01
##   [2965,]  1.675712e-01  2.498333e-01  4.851445e-02  3.093153e+00
##   [2966,] -1.746067e-01 -2.095603e-01  1.332849e+00  2.434954e+00
##   [2967,]  8.460903e-01  2.643973e+00  2.592989e-01  9.234843e-02
##   [2968,] -3.332300e-01 -7.279983e-01 -7.393260e-02  6.769699e-01
##   [2969,] -9.430406e-01 -1.055931e+00  1.026496e+00  1.213180e+00
##   [2970,] -6.665701e-01  4.892884e-02  1.272049e+00  5.828622e-01
##   [2971,]  2.270131e-01  1.425886e+00  6.333941e-01  5.327684e-01
##   [2972,] -6.646377e-01 -2.978047e-01 -2.128161e+00  1.398792e+00
##   [2973,] -7.785409e-01  2.235966e+00  1.094770e+00  8.442323e-01
##   [2974,]  1.260523e+00  1.362089e-01  5.927680e-01  8.111339e-01
##   [2975,] -8.878925e-01  1.023274e+00 -1.717014e+00  5.225205e-01
##   [2976,]  1.002695e-01 -2.422852e-01 -1.501937e+00  9.962580e-01
##   [2977,]  1.472525e+00  5.520461e-03  9.228733e-01  1.108027e+00
##   [2978,]  4.471361e-01 -1.695675e-01  1.385206e-01  2.676655e+00
##   [2979,]  3.854296e-01  1.504112e+00  1.100016e+00  5.894893e-01
##   [2980,] -2.865002e+00 -4.690008e-01 -5.811307e-02  2.848058e+00
##   [2981,]  4.964168e-01  4.202380e-01  8.835803e-01  4.955859e-01
##   [2982,] -9.356321e-01 -1.909597e-01  9.369266e-01  1.321811e+00
##   [2983,] -1.158864e+00  1.319573e+00 -6.923953e-02  2.378534e-01
##   [2984,]  4.757791e-02 -3.718274e-01  9.921671e-01  2.979945e+00
##   [2985,] -1.680288e+00  1.692656e+00  1.284901e+00  1.130516e-01
##   [2986,] -7.842011e-02  2.949897e-02 -1.521832e+00  6.040046e-01
##   [2987,]  1.328247e+00  7.409738e-01 -2.813838e-01  2.812977e+00
##   [2988,] -7.116114e-02 -2.235871e-01 -1.805992e+00  8.935805e-01
##   [2989,] -6.763244e-02  2.191704e-01 -4.965956e-01  8.587877e-01
##   [2990,]  5.607332e-01  8.286014e-01 -1.851324e+00  8.318149e-01
##   [2991,]  5.696504e-01  1.897587e+00  1.008179e+00  1.012790e+00
##   [2992,] -1.004619e+00  6.754240e-02  1.335470e+00  2.309257e+00
##   [2993,] -2.392328e+00  1.179839e+00 -6.033268e-01  9.799605e-01
##   [2994,] -1.421963e+00  1.479496e+00 -3.068686e-01  7.476530e-01
##   [2995,] -1.281525e-01  1.109943e+00 -3.714256e-01  4.488322e-01
##   [2996,] -6.525453e-01 -6.993923e-01 -1.366964e+00  3.007235e+00
##   [2997,] -6.942538e-01  8.169609e-01 -8.937897e-02  1.003344e+00
##   [2998,] -2.974124e-01  1.164412e+00  1.254172e+00  3.032267e-01
##   [2999,] -9.391447e-01  6.386641e-01 -1.083056e-02  3.163844e-01
##   [3000,]  4.539596e-01  1.204807e+00 -3.065973e-01  7.458636e-01
##   [3001,] -2.350884e-01  6.118501e+00 -1.048774e+00  1.438997e+00
##   [3002,]  1.321439e+00  3.450062e-01  1.185467e+00  7.431892e-01
##   [3003,] -3.157565e-01 -2.589760e-01 -9.725683e-01  5.865960e-01
##   [3004,]  1.284816e+00 -5.798680e-01 -2.569873e-01  9.356725e-01
##   [3005,]  5.231236e-01 -5.801323e-01 -1.595138e+00  4.603923e-01
##   [3006,] -4.429772e-01 -8.081141e-01 -4.375548e-02  1.856303e-01
##   [3007,] -1.017995e+00  3.081523e+00 -2.230732e-01  3.585335e-01
##   [3008,]  1.213441e+00 -5.587964e-01  1.446785e+00  2.328035e+00
##   [3009,] -9.148282e-01 -6.459261e-01  1.028103e+00  3.152141e+00
##   [3010,]  7.880839e-01 -5.448434e-01  5.735693e-01  1.178217e+00
##   [3011,] -1.053095e-01 -2.093004e-01 -1.422576e+00  1.232727e+00
##   [3012,] -1.114426e+00 -4.387175e-01  4.717949e-01  2.700496e+00
##   [3013,]  1.261183e+00  8.129330e-01 -4.566866e-01  1.170962e+00
##   [3014,]  1.312420e+00  6.901781e-01  5.382945e-01  2.826799e+00
##   [3015,]  3.770739e-02 -1.936195e-02  8.652913e-01  1.475009e+00
##   [3016,] -1.196062e-01  8.518661e-01  1.552520e-01  9.354626e-01
##   [3017,] -1.070388e+00 -1.919460e+00 -9.811069e-01  2.242846e+00
##   [3018,] -9.222873e-02 -3.939011e-01 -4.597685e-01  7.398534e-01
##   [3019,]  4.869007e-01  1.637779e+00 -2.974934e-01  9.060649e-01
##   [3020,]  1.174193e+00  8.237816e-01 -5.969556e-01  9.285097e-01
##   [3021,] -5.488595e-01 -1.027254e+00  8.297566e-01  1.209274e+00
##   [3022,]  5.136870e-01 -4.415156e-01  2.831453e-01  4.786259e-01
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##   [3023,]  6.158498e-01  2.982132e-01  1.085621e+00  9.607320e-01
##   [3024,]  8.190560e-01 -5.882017e-02 -1.125355e+00  1.182168e+00
##   [3025,] -1.222748e-01 -2.812866e-01 -2.760104e-01  5.589451e-01
##   [3026,]  6.658994e-01 -5.749307e-01  1.308307e+00  2.596908e+00
##   [3027,] -7.967364e-01  1.092820e+00  1.111088e+00  6.214912e-01
##   [3028,] -1.574067e+00  1.790689e+00  1.210580e+00  4.224723e-01
##   [3029,]  6.684189e-01  6.743022e-01  9.337191e-01  3.086650e+00
##   [3030,]  1.076297e+00  8.030001e-01  4.681854e-01  2.092959e-01
##   [3031,]  8.325526e-02 -1.554963e-01 -1.572620e+00  3.109334e+00
##   [3032,] -2.705870e+00 -5.867199e-01  1.545279e+00  2.582198e-01
##   [3033,]  5.580942e-01 -9.258848e-01  1.322411e+00  5.698275e-01
##   [3034,]  1.253070e+00  1.605092e-01  1.071706e+00  9.446419e-01
##   [3035,] -8.352863e-02  5.372995e-01 -1.422785e-01  9.591363e-01
##   [3036,]  1.166594e+00  1.793708e+00 -8.183258e-02  7.811891e-01
##   [3037,] -1.957563e+00  6.374872e-01 -1.317928e+00  2.329082e-01
##   [3038,]  4.864186e-01 -1.448484e+00  6.586742e-01  2.875794e-01
##   [3039,]  1.328120e+00  6.240231e-01  8.973641e-01  1.187048e+00
##   [3040,] -2.527966e-01  1.825555e+00 -1.888452e-01  5.057320e-01
##   [3041,] -2.562737e-01 -1.078707e+00  7.565391e-01  6.561648e-01
##   [3042,]  8.981837e-01  2.452854e+00  3.977604e-01  1.030893e-01
##   [3043,] -2.981161e+00  9.526160e-01 -8.676834e-02  1.204757e+00
##   [3044,] -1.825318e+00 -6.801215e-01  4.246758e-01  3.621393e-01
##   [3045,]  7.518979e-02  1.165541e+00 -1.766614e+00  1.074448e+00
##   [3046,] -1.618062e-01  4.264122e-01 -4.730772e-01  7.785912e-01
##   [3047,] -7.323426e-01  1.623087e+00 -6.414299e-01  2.748892e+00
##   [3048,] -4.868386e-01 -4.271776e-01 -2.079475e+00  1.373448e+00
##   [3049,] -1.932624e-01 -1.419254e+00  1.483379e+00  4.035546e-01
##   [3050,] -3.222878e-01  8.558769e-02 -1.778206e+00  7.500768e-01
##   [3051,] -2.316656e+00 -2.751407e-01 -7.076974e-01  8.061586e-01
##   [3052,]  1.267827e+00  5.036325e-01 -4.623488e-01  7.508174e-01
##   [3053,] -4.753444e-01  4.979406e-02 -5.579768e-01  3.529886e+00
##   [3054,]  5.111085e-01  8.439027e-01 -1.717826e+00  5.131189e-01
##   [3055,]  1.284852e+00  2.247274e-01  1.015562e+00  9.188162e-01
##   [3056,] -2.521212e-01  7.896942e-01 -1.112053e+00  1.041655e+00
##   [3057,]  1.235961e+00  1.320852e+00 -1.652847e+00  6.193962e-01
##   [3058,]  1.031856e+00  1.189743e+00  1.169108e+00  3.403023e-01
##   [3059,] -2.450233e+00  2.019280e+00 -7.670927e-01  1.155944e+00
##   [3060,] -1.212521e+00  1.082205e-01 -1.002439e+00  3.591616e+00
##   [3061,]  6.309980e-01 -6.015930e-01  1.221880e+00  2.626347e+00
##   [3062,] -7.235562e-01 -1.281714e+00 -1.348251e-01  2.796556e+00
##   [3063,]  7.832835e-01  3.181691e-01 -6.940382e-01  1.135470e+00
##   [3064,] -2.929985e+00 -9.126135e-02 -2.203460e-01  3.063797e+00
##   [3065,] -4.198593e-02 -1.684202e-01 -7.034573e-02  2.818868e+00
##   [3066,] -2.647689e+00  8.806329e-01  3.149429e-01  5.743103e-01
##   [3067,]  8.712542e-01  1.449141e+00 -8.971304e-02  1.559949e-01
##   [3068,]  5.911593e-01 -4.236039e-01 -2.902131e-01  9.462090e-01
##   [3069,]  7.433976e-02 -3.882926e-01  8.587236e-01  1.322310e+00
##   [3070,] -1.048574e+00 -6.492728e-01 -3.510370e-02  4.887087e-01
##   [3071,] -6.924464e-01  3.431342e-01  6.940333e-01  1.663095e+00
##   [3072,]  6.402719e-01 -3.398071e-01 -2.160140e-01  7.059555e-01
##   [3073,]  5.728727e-01  3.738151e-01  1.211736e-01  9.713694e-01
##   [3074,] -4.580346e-01 -7.458432e-01  9.178293e-01  3.299046e+00
##   [3075,]  7.030052e-01 -2.522650e-01  8.738512e-01  1.254302e+00
##   [3076,] -1.886344e-02  9.022129e-01 -1.393190e+00  8.737395e-01
##   [3077,]  3.220362e-01  1.692932e-01  1.370822e+00  2.215063e+00
##   [3078,]  3.614719e-01  5.961612e-01  1.058044e+00  7.900594e-01
##   [3079,] -1.550206e-01 -7.561311e-01  1.055232e+00  2.967766e+00
##   [3080,] -7.206380e-01  1.180755e+00 -4.398848e-01  1.136514e+00
##   [3081,]  1.512527e+00  2.797088e-01 -1.609782e-02  1.199783e+00
##   [3082,] -6.542585e-01  1.361931e+00  9.290380e-01  9.852392e-01
##   [3083,] -9.734274e-02 -4.207081e-01  1.158831e+00  8.768437e-01
##   [3084,]  1.166751e+00 -3.497009e-01 -1.813611e-01  6.394574e-01
##   [3085,]  5.958597e-01  2.220767e-01 -1.912849e+00  1.244560e+00
##   [3086,] -8.810077e-01 -1.017973e+00 -1.068423e+00  9.916031e-01
##   [3087,] -6.836707e-01  8.106127e-01 -1.210151e+00  9.161124e-01
##   [3088,] -7.667797e-01  3.115949e-01  2.066139e-01  5.377455e-01
##   [3089,]  5.057315e-01  5.409248e-01 -8.952302e-01  2.923821e+00
##   [3090,] -1.208555e-01 -4.293738e-01  8.809841e-01  1.265465e+00
##   [3091,]  5.674117e-01 -2.388355e-01 -1.930056e-01  7.911109e-01
##   [3092,] -1.699333e+00  1.052148e+00  1.170695e+00  2.513106e+00
##   [3093,] -6.850719e-01 -1.084822e+00 -1.355778e+00  8.163438e-01
##   [3094,] -1.735518e+00 -2.043992e-01  2.670244e-01 -1.911004e-02
##   [3095,] -1.167190e+00 -1.351602e+00 -7.351526e-01  2.074421e+00
##   [3096,]  6.124210e-01 -4.048537e-01 -2.052168e-01  2.813919e+00
##   [3097,]  1.239491e+00  3.787682e-01  2.816250e-01  6.653697e-01
##   [3098,] -6.585650e-01  3.839049e-01  1.196170e+00  7.335675e-01
##   [3099,]  8.477713e-02  2.472703e-01  8.977054e-01  3.229522e+00
##   [3100,]  1.381828e+00  2.526352e-01 -2.810342e-02  1.254288e+00
##   [3101,]  6.057393e-01  5.378448e-01  1.186741e+00  2.601705e+00
##   [3102,] -1.363275e+00 -3.879823e-01 -1.045892e+00  3.890306e+00
##   [3103,] -8.025339e-01  1.894009e-01  3.039807e-02  1.158377e+00
##   [3104,] -7.786223e-02 -7.046466e-01 -3.893232e-01  7.341358e-01
##   [3105,] -4.961500e-02 -1.122967e+00  9.839999e-01  5.856060e-01
##   [3106,] -1.360982e+00  6.917742e-01 -5.207221e-01  1.408007e+00
##   [3107,] -1.585072e-02  2.000259e-02  4.556280e-01  1.015672e+00
##   [3108,] -1.782092e-02 -2.742973e-01  1.194156e+00  7.703823e-01
##   [3109,] -9.424507e-01  4.331996e-01  1.432034e+00  1.744035e-01
##   [3110,]  7.821898e-01  3.553887e-01 -1.839930e+00  1.121303e+00
##   [3111,] -6.891835e-01 -1.494397e-01  1.131191e+00  9.581894e-01
##   [3112,] -2.493728e+00  6.806013e-01 -1.345736e-01  5.275394e-01
##   [3113,] -1.872125e-01 -9.248837e-01 -1.082078e+00  6.462802e-01
##   [3114,] -8.630481e-01  7.990064e-01  5.481070e-01  9.019851e-01
##   [3115,]  1.160917e+00  1.508067e-01 -7.599891e-01  8.303789e-01
##   [3116,] -1.973925e-01 -2.225026e-01 -2.362150e-01  1.051045e+00
##   [3117,]  6.487027e-01  2.011595e-01 -2.023303e-01  9.994637e-01
##   [3118,] -1.306783e+00  9.019525e-01 -5.282283e-01  8.889450e-01
##   [3119,]  1.041883e+00  3.011135e+00 -2.155675e-01  3.935739e-01
##   [3120,]  6.481847e-01 -7.944631e-01 -1.846162e-01  9.069128e-01
```

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##   [3121,] -1.455254e+00 -6.084130e-01  1.464422e+00  3.935849e-01
##   [3122,]  8.453691e-01  2.773397e+00  8.729938e-01  2.666791e-01
##   [3123,] -3.894172e-01 -1.178550e-01  6.585409e-01  1.716185e+00
##   [3124,]  9.482436e-01  7.853670e-01 -1.897112e-01  2.273152e-01
##   [3125,] -8.854390e-01  1.776136e+00  1.162855e+00  5.766477e-01
##   [3126,] -1.738002e-01 -3.462480e-01  3.916078e-01  2.924331e+00
##   [3127,] -1.443395e+00  8.521240e-01 -5.605387e-01  3.004478e+00
##   [3128,] -3.836483e-01  6.452276e-01  1.961082e-01  7.301345e-01
##   [3129,]  2.659548e-01 -7.811558e-01  6.773647e-02  3.658494e-01
##   [3130,] -1.770526e+00 -1.215279e+00 -4.519679e-02  1.047570e+00
##   [3131,]  3.456358e-01 -4.239572e-01  1.114303e-01  5.464528e-01
##   [3132,]  2.399181e-01  2.059986e+00  7.556602e-01  1.569047e-01
##   [3133,] -9.070611e-02 -1.132009e+00 -5.584563e-01  6.567853e-01
##   [3134,] -5.893491e-01 -2.225762e-01  9.196647e-01  3.077833e+00
##   [3135,] -7.735591e-01 -8.646140e-01  4.386397e-01  3.158191e+00
##   [3136,] -1.305110e+00  7.377729e-01 -1.470499e-01  1.582830e+00
##   [3137,] -4.451647e-01 -3.619426e-01  1.686895e+00 -2.498326e-01
##   [3138,]  3.470590e-01  1.135745e+00  3.277546e-01  7.879806e-01
##   [3139,]  2.586092e-01 -1.079977e-01 -1.244650e+00  3.898117e-01
##   [3140,] -2.344000e+00  1.794781e+00  7.714547e-01  1.242480e+00
##   [3141,] -1.662197e+00  7.873588e-01 -4.114834e-01  9.909728e-01
##   [3142,]  7.642328e-01  5.444363e-01  8.459375e-01  1.265189e+00
##   [3143,] -3.217156e-01  8.991769e-02  1.182463e+00  6.642862e-01
##   [3144,]  2.104883e-01 -3.926685e-01  7.439451e-01  1.531809e+00
##   [3145,]  6.581224e-01 -1.832582e-01  6.986548e-01  1.010315e+00
##   [3146,] -2.482961e+00 -1.869018e+00 -1.729355e-01  2.710456e+00
##   [3147,] -6.738679e-01  8.687180e-01 -5.251800e-01  1.181881e+00
##   [3148,] -2.564742e+00  1.193066e-01  3.692810e-01  6.633866e-01
##   [3149,]  9.565867e-01  8.399740e-01  1.251395e+00  3.472964e-01
##   [3150,] -1.128262e-01  2.265435e+00 -3.349009e-01  1.088619e+00
##   [3151,] -4.132264e-01  2.786990e-01  2.033176e-01  4.378851e-01
##   [3152,]  7.877540e-01 -5.101597e-01  9.813331e-01  3.025832e+00
##   [3153,]  7.296772e-01  2.083690e-01 -7.046205e-01  1.201044e+00
##   [3154,] -1.961212e+00  1.411412e+00  9.021311e-01  1.401734e+00
##   [3155,] -2.491367e+00 -7.331766e-01  4.363016e-01  7.225743e-01
##   [3156,]  5.104377e-01 -3.295892e-01  6.031111e-01  2.462421e+00
##   [3157,] -9.024459e-01  5.754699e-01  1.142337e+00  5.870171e-01
##   [3158,] -7.909780e-01  2.977008e-01  4.879643e-01  1.230161e+00
##   [3159,]  5.179277e-01 -6.924391e-01  1.307105e+00  2.560558e+00
##   [3160,] -9.933056e-01  4.626233e-01  5.810895e-01  5.424767e-01
##   [3161,] -9.252117e-02  1.321844e+00 -5.429735e-01  1.065976e+00
##   [3162,]  5.862168e-01 -5.944436e-01 -1.989274e-01  2.746403e+00
##   [3163,]  8.263688e-01  2.235791e+00  9.708269e-02  1.867922e+00
##   [3164,] -2.499440e-01 -4.688684e-01  1.130173e+00  9.211720e-01
##   [3165,] -1.033195e+00  2.512458e+00  9.473517e-01  7.528258e-01
##   [3166,] -5.965793e-02  8.712221e-01  8.540531e-01 -2.162084e-01
##   [3167,] -5.887102e-02 -3.484145e-01 -1.848867e+00  1.329092e+00
##   [3168,] -5.725054e-01 -7.934983e-01 -1.164447e+00  1.126335e+00
##   [3169,] -3.508859e-03  7.158012e-01 -4.561919e-01  1.372791e+00
##   [3170,] -6.522182e-01  2.588239e-01  1.208272e+00  6.486693e-01
##   [3171,]  2.483522e-01  5.172632e-01 -1.036286e+00  1.979553e-01
##   [3172,]  1.004419e+00  3.950505e-01 -3.300780e-01  4.697393e-01
##   [3173,]  6.554288e-01 -5.160737e-01 -1.502505e+00  2.614470e+00
##   [3174,] -9.620557e-01  9.552438e-01  1.138785e+00  6.719835e-01
##   [3175,]  3.050429e-01  2.852677e+00 -1.640420e+00  2.078390e+00
##   [3176,]  5.428706e-01 -8.446466e-01  1.296873e+00  2.602216e+00
##   [3177,]  6.414124e-01  1.605266e-03 -3.619896e-01  9.594295e-01
##   [3178,]  2.078539e-01  2.744381e+00  1.008150e-01 -7.495879e-02
##   [3179,] -6.565995e-01  5.203737e-01 -4.198009e-01  1.317681e+00
##   [3180,]  3.553207e-01 -1.076829e+00  1.602573e+00  7.767032e-02
##   [3181,] -4.082988e-02  3.765378e-01 -7.591935e-01  1.313768e+00
##   [3182,]  8.060145e-01 -2.129265e-02 -2.023417e+00  1.207811e+00
##   [3183,]  1.258056e+00  1.329945e+00  2.401342e-01  2.848972e+00
##   [3184,] -1.127930e+00 -1.068358e+00 -1.360770e+00  1.620870e-01
##   [3185,] -1.173414e+00  1.099716e+00 -8.263566e-01  1.443825e+00
##   [3186,] -1.039502e-01  2.807557e-01 -2.010354e+00  3.049128e+00
##   [3187,] -3.239675e-01 -2.138996e-01  1.133390e+00  7.928094e-01
##   [3188,] -1.600812e+00  2.264002e+00 -2.111219e-01  2.635261e+00
##   [3189,] -8.114586e-01 -4.535499e-01  1.112958e-01  3.473930e-01
##   [3190,] -6.533668e-01  1.230745e+00 -4.356187e-01  9.722687e-01
##   [3191,]  1.306263e-01  2.004179e+00 -6.542547e-02 -1.776122e-01
##   [3192,] -4.249510e-01 -1.537220e-02  5.231681e-01  1.874659e+00
##   [3193,] -2.285867e-01  1.402212e+00 -4.427295e-01  7.016477e-01
##   [3194,] -7.443777e-01 -1.008244e+00  1.068986e+00  1.068566e+00
##   [3195,] -1.918174e-01  8.383269e-02 -1.532629e+00  6.497315e-01
##   [3196,] -6.161319e-02  6.197777e-01 -2.065036e+00  1.264641e+00
##   [3197,]  9.423470e-01  4.693487e-01  2.504712e-01  3.385896e+00
##   [3198,]  5.941057e-01 -9.119428e-03  1.272008e-01  9.833128e-01
##   [3199,] -7.947010e-01  5.664432e-01 -1.582583e+00  1.014181e+00
##   [3200,]  1.105385e-01 -3.785109e-01  1.000672e+00  1.083305e+00
##   [3201,]  7.995070e-01 -1.425662e-01 -1.539572e-02  3.194554e+00
##   [3202,] -9.819749e-01 -1.497493e+00 -1.005557e+00  2.523198e+00
##   [3203,]  7.595245e-01  2.176541e+00  1.327983e+00  7.231914e-02
##   [3204,]  5.325423e-03  1.340868e-01  1.048177e+00  3.012194e+00
##   [3205,]  6.105090e-01 -2.841058e-01  8.063177e-01  2.620289e+00
##   [3206,]  8.965179e-01  2.269528e+00  1.404002e+00 -3.039663e-02
##   [3207,] -1.755354e-01  3.175269e-01 -6.837313e-02  1.003784e+00
##   [3208,]  1.145912e-01  7.496854e-01  3.551533e-01  2.984790e+00
##   [3209,]  6.633118e-01  7.744897e-01 -1.951739e-01  9.616821e-01
##   [3210,] -4.541440e-01  1.805215e+00  1.505063e+00 -2.652438e-01
##   [3211,] -3.516290e-02 -1.404844e+00  9.461497e-02  2.410502e+00
##   [3212,] -5.908458e-01 -1.672645e-01 -1.818175e+00  1.163157e+00
##   [3213,]  1.175665e+00 -2.772210e-01 -1.615763e+00  7.924025e-01
##   [3214,] -6.357940e-01 -1.168301e+00  1.184518e+00  9.707857e-01
##   [3215,]  8.770238e-01 -8.838467e-01  1.702898e+00 -9.242829e-02
##   [3216,] -2.707353e-01  3.328439e+00 -3.838901e-01  2.117763e+00
##   [3217,] -4.532670e-01  5.860940e-01 -1.363648e+00  1.530789e+00
##   [3218,]  3.540296e-01 -1.677382e+00 -7.666556e-01  1.524896e-01
```

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##   [3219,]  1.191468e+00  3.017663e-01  1.129986e+00  8.131922e-01
##   [3220,] -9.308177e-01  2.851002e+00  9.811571e-01  6.288700e-01
##   [3221,]  1.241292e+00  1.164767e+00 -1.735193e+00  8.442494e-01
##   [3222,]  1.259018e+00 -1.354689e-01 -1.191392e+00  1.019567e+00
##   [3223,]  3.439523e-02 -8.960570e-01  1.082166e+00  1.030187e+00
##   [3224,] -1.411941e+00 -1.183663e+00  9.468258e-01  1.359461e+00
##   [3225,]  1.217998e+00  2.264806e-01  9.451206e-02  7.070379e-01
##   [3226,]  1.118057e+00 -6.780198e-01  1.930993e-01  2.310064e+00
##   [3227,] -1.476299e+00 -1.939807e-02  1.253034e+00  6.424639e-01
##   [3228,]  5.641989e-01  1.422346e+00  9.678968e-01  1.069421e+00
##   [3229,] -6.064634e-01 -1.956432e-01 -6.921013e-01  1.138813e+00
##   [3230,] -1.339281e+00 -8.946148e-01 -1.979345e+00  1.287251e+00
##   [3231,] -5.913118e-01  9.778103e-01 -1.308942e+00  8.162415e-01
##   [3232,] -1.172675e+00  1.062110e+00 -9.069266e-01  1.457591e+00
##   [3233,]  2.615659e-01  7.020777e-02 -5.261672e-01  1.464705e+00
##   [3234,] -3.770158e-01 -3.467728e-01 -1.170660e+00  3.947077e-01
##   [3235,]  8.731306e-01  4.730625e-01 -1.230872e+00  1.364116e+00
##   [3236,]  1.389461e+00  4.687052e-01  9.876884e-01  2.909845e+00
##   [3237,] -7.819530e-02  7.298324e-03 -1.065932e+00  1.173401e+00
##   [3238,]  4.470156e-02 -5.060575e-01 -1.263596e+00  1.179829e+00
##   [3239,]  1.334437e+00  4.095755e-01  8.903411e-01  1.186411e+00
##   [3240,] -1.043460e-01  1.711304e+01 -2.431933e-01  5.385793e+00
##   [3241,] -1.174214e-01 -1.107272e+00  1.252528e+00  7.547495e-01
##   [3242,] -3.014154e-02  4.221365e-01  9.615798e-01  1.040906e+00
##   [3243,] -6.384421e-01 -8.532078e-01 -1.916263e+00  1.160519e+00
##   [3244,] -3.360551e-01 -1.009697e+00  5.314367e-01  4.486442e-01
##   [3245,]  5.139514e-01 -2.628818e-01  9.798130e-01  2.842489e+00
##   [3246,]  1.335116e+00  2.235389e-01  1.094067e+00  2.747831e+00
##   [3247,] -1.028329e+00  8.993755e-05  1.423806e+00  1.989019e-01
##   [3248,] -4.254579e-01  1.050866e+00  1.067191e+00  6.273469e-01
##   [3249,]  1.224931e+00 -9.648364e-02 -6.632438e-01  9.717498e-01
##   [3250,]  3.838927e-01  1.106626e+00 -1.841104e-01  5.242230e-01
##   [3251,]  1.379613e+00  5.458777e-01 -1.534655e+00  1.248491e+00
##   [3252,] -1.323167e+00 -8.102721e-01 -5.178668e-01  1.363555e+00
##   [3253,]  1.136536e+00  9.190029e-01  1.001502e+00  9.057375e-01
##   [3254,] -1.451534e-01 -6.869380e-01 -1.703270e+00  1.083706e+00
##   [3255,]  1.180375e+00  7.878439e-01 -1.166816e+00  2.351322e+00
##   [3256,] -1.006338e+00  2.498967e+00  1.127555e+00  4.034078e-01
##   [3257,]  1.274046e+00  7.771597e-01 -4.146742e-01  1.014053e+00
##   [3258,] -1.167351e+00 -2.250410e-01 -1.696714e-02  3.633745e-01
##   [3259,]  1.096197e+00 -3.435427e-01  1.232110e+00  6.540543e-01
##   [3260,] -6.067963e-01 -5.246285e-01  1.059273e+00  1.118386e+00
##   [3261,]  1.318689e+00  1.673570e+00  2.106013e-01  1.007132e+00
##   [3262,]  6.791276e-01  3.169353e-01 -1.396210e-01  8.704230e-01
##   [3263,]  1.253339e+00 -1.697368e-01  1.117410e+00  7.925171e-01
##   [3264,]  5.127439e-01 -7.090641e-01 -1.333635e+00  7.703405e-01
##   [3265,] -1.898032e-01  1.688587e+00  1.190638e+00  5.321628e-01
##   [3266,]  1.171116e+00  1.285527e+00 -1.904333e+00  7.069602e-01
##   [3267,]  6.083040e-01 -5.617387e-02 -1.605535e-01  2.638294e+00
##   [3268,] -2.145675e+00 -2.185637e-01  1.097252e+00  1.025733e+00
##   [3269,] -7.124598e-01  9.324437e-01  1.021903e+00  8.070193e-01
##   [3270,]  1.196761e+00 -8.860394e-01  1.454054e+00  3.144688e-01
##   [3271,] -5.651713e-01  1.376823e+00 -7.066113e-02 -9.311704e-02
##   [3272,] -1.545000e+00  1.890124e+00  1.127588e+00  6.895216e-01
##   [3273,] -1.224013e+00  2.419218e+00 -5.967875e-01  1.887506e+00
##   [3274,] -1.850437e+00  5.330354e-01  2.131376e-01  2.030166e+00
##   [3275,] -1.474868e-01  1.768575e+00 -1.113111e-01  8.658789e-01
##   [3276,]  1.397054e-01 -1.080502e-01  1.054257e+00  2.995818e+00
##   [3277,] -3.754139e-02 -1.799060e-01 -3.077355e-01  1.042493e+00
##   [3278,]  1.066577e+00  1.089310e+00  1.316190e+00  4.464310e-01
##   [3279,] -1.008688e+00 -9.338460e-01 -1.669640e+00  2.714393e+00
##   [3280,]  1.364144e+00 -2.412519e-01 -6.187424e-02  1.060366e+00
##   [3281,]  3.109101e-02 -1.237726e-01 -1.542010e+00  1.411505e+00
##   [3282,]  7.164668e-01  1.315838e-01 -5.115765e-01  1.310661e+00
##   [3283,]  4.828158e-01  2.297033e-01  4.326242e-01  5.868370e-01
##   [3284,] -9.400062e-01 -5.442610e-01 -1.521784e-01  7.510490e-01
##   [3285,] -2.435597e-01 -5.320805e-01 -5.404598e-03  7.190861e-01
##   [3286,]  4.108427e-01 -1.424359e-01  1.239244e+00  2.624520e+00
##   [3287,] -2.046487e+00  1.601722e+00  1.220302e-01  1.605350e-01
##   [3288,]  1.164331e+00  2.995442e-02 -5.174084e-01  8.237151e-01
##   [3289,] -1.414148e+00  1.983522e+00  4.657380e-01  8.107128e-01
##   [3290,]  1.139176e+00  1.346590e+00  3.579887e-01  8.986972e-01
##   [3291,] -1.544849e-02 -3.066893e-01 -5.342265e-01  9.455482e-01
##   [3292,] -9.672596e-01  1.298333e+00 -1.397786e+00  5.250064e-01
##   [3293,]  8.234574e-01  1.036449e-01  7.224075e-01  1.570256e+00
##   [3294,] -8.243282e-01  7.349238e-01  1.308687e+00  2.096291e+00
##   [3295,] -1.148475e-02  6.904628e-02 -1.649970e+00  7.835336e-01
##   [3296,] -1.335870e+00 -1.157707e+00 -3.018354e-01  1.388944e+00
##   [3297,]  2.295954e-01  1.490914e-02 -8.284331e-01  3.301014e-01
##   [3298,]  9.481756e-01  2.521697e+00 -3.647278e-01  4.814866e-01
##   [3299,] -1.621877e+00  5.836477e-01  1.240797e+00  5.792208e-01
##   [3300,] -3.198738e-02  2.516983e-01 -4.427957e-01  1.278423e+00
##   [3301,]  5.093326e-01 -6.226371e-01 -1.457995e+00  5.530587e-01
##   [3302,]  6.636613e-01  3.784335e-01 -4.062412e-01  1.200886e+00
##   [3303,] -1.999672e+00  1.092458e+00  1.389503e+00  1.656236e-01
##   [3304,] -1.077092e+00 -1.138219e+00 -1.202843e-01  4.793822e-01
##   [3305,] -9.505261e-01 -9.508635e-01 -2.660261e-01  3.029843e+00
##   [3306,] -1.150856e+00  1.232972e+00  1.244612e+00  6.322628e-01
##   [3307,] -9.688213e-01  4.054668e-01 -2.524872e-01  5.427480e-01
##   [3308,]  5.213682e-01 -1.160333e+00 -1.512751e-01  8.105421e-01
##   [3309,] -6.791089e-01  7.274837e-01  1.013178e+00  9.592793e-01
##   [3310,]  1.216219e-01  1.569658e+00  1.246934e+00  3.222610e-01
##   [3311,]  2.656546e-01  5.904141e-01  6.590001e-01  1.578568e+00
##   [3312,] -3.559734e-01  2.701237e+00  3.530230e-01  1.012918e+00
##   [3313,]  1.171797e+00  5.933855e-01  3.003189e-01  2.536752e+00
##   [3314,] -1.460539e+00  8.768452e-02  1.349969e+00  2.413890e+00
##   [3315,] -9.051379e-01  7.406464e-01 -2.092322e-01  6.606303e-01
##   [3316,] -9.475409e-01 -8.656463e-01 -1.674566e+00  1.143771e+00
```

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##   [3317,]  9.557290e-01  2.081014e+00  7.488317e-01  2.007538e-01
##   [3318,] -1.306625e-01 -5.846345e-01  7.387670e-01  1.150382e+00
##   [3319,] -3.136579e+00  7.598095e-03 -6.864765e-01  1.778173e+00
##   [3320,]  7.345775e-01 -4.208218e-01  7.095721e-01  2.888505e+00
##   [3321,]  4.930711e-01  5.421736e-01  3.745577e-01  8.048664e-01
##   [3322,]  3.656509e-01  5.297444e-01  1.411211e+00  1.955712e-01
##   [3323,] -1.894266e-01 -7.012937e-02  1.267218e+00  5.935394e-01
##   [3324,]  7.532303e-01 -3.624324e-01  7.188791e-01  9.126627e-01
##   [3325,]  2.245282e-01  1.804564e+00  9.440154e-01  1.092822e-01
##   [3326,]  3.865124e-01  6.364746e-01  1.555077e-01  5.443492e-01
##   [3327,]  1.392096e+00  7.731195e-01 -5.129032e-01  1.071225e+00
##   [3328,]  9.939722e-02  1.683164e-01 -6.553146e-01  1.293493e+00
##   [3329,]  1.101697e-01 -7.406741e-02  7.646423e-01  1.448573e+00
##   [3330,]  1.189405e+00  8.257433e-04 -1.833093e+00  8.485722e-01
##   [3331,] -3.007950e-01  2.003454e+00 -4.621930e-03  2.510916e+00
##   [3332,] -6.456719e-01 -7.195473e-01  9.349935e-01  3.274478e+00
##   [3333,] -2.369514e+00  1.148001e+00  9.923979e-01  8.944245e-01
##   [3334,]  2.183656e-01  2.507090e-02  3.060488e-01  1.366675e+00
##   [3335,] -1.315454e+00 -4.932265e-01 -1.915199e+00  1.407932e+00
##   [3336,]  1.102187e+00 -3.603322e-01  6.460454e-02  2.986765e-01
##   [3337,]  1.791897e-01 -1.872756e-01  3.174453e-01 -1.482231e-01
##   [3338,]  7.490086e-01 -2.787714e-01  8.629134e-01  1.014786e+00
##   [3339,] -5.646164e-01  2.073403e+00 -5.566139e-01  4.836432e-02
##   [3340,] -1.562554e+00  9.226633e-01 -3.782585e-01  9.780341e-01
##   [3341,]  1.245242e-02 -2.753397e-01 -4.206900e-01  3.228250e+00
##   [3342,] -1.675163e+00  1.645890e+00  1.196278e-03  7.561633e-01
##   [3343,] -1.871521e-01 -8.102336e-01 -1.721796e+00  2.705192e+00
##   [3344,]  1.351544e+00 -7.575266e-02  1.176789e+00  2.729493e+00
##   [3345,]  9.228178e-01 -1.056934e-01  6.636129e-02  2.550726e-01
##   [3346,] -1.702101e+00  9.975598e-01  6.405459e-01  6.336570e-01
##   [3347,] -5.977823e-01 -7.692729e-01 -1.770320e+00  1.021934e+00
##   [3348,]  8.816158e-02  3.610977e-01  7.743638e-01  1.433367e+00
##   [3349,]  4.842551e-01  4.340671e-01 -1.845534e-01  9.851974e-01
##   [3350,] -1.193348e+00  1.729103e+00  1.382920e+00  1.476692e-01
##   [3351,]  7.015329e-01  4.789937e-01  5.914780e-03  9.424430e-01
##   [3352,]  7.201164e-01 -1.193003e-01 -2.025751e+00  1.225678e+00
##   [3353,]  1.363116e+00  1.229825e+00  9.938170e-01  9.564885e-01
##   [3354,]  7.085644e-01  6.168637e-01 -3.481546e-01  1.109059e+00
##   [3355,] -2.391089e+00  2.660773e-01 -2.343763e-01  1.093029e+00
##   [3356,]  6.130300e-01  6.993616e-01  9.506114e-01  2.884063e+00
##   [3357,] -9.819904e-01  1.685942e+00 -1.146384e+00  6.409243e-01
##   [3358,] -8.115563e-01  9.273364e-01  1.804983e-01  1.074291e+00
##   [3359,]  5.286958e-01 -5.606871e-01  1.255056e+00  6.675810e-01
##   [3360,] -1.604707e-01 -5.235695e-01  1.186772e+00  2.790017e+00
##   [3361,] -3.600985e-01 -4.022274e-01  1.258075e+00  2.518640e+00
##   [3362,] -6.444793e-01  7.587400e-02 -2.769956e-01  1.501811e+00
##   [3363,] -1.677412e+00 -9.483350e-01 -6.062876e-01  3.153557e+00
##   [3364,] -3.349618e-01 -5.873641e-01 -2.907864e-01  4.876125e-01
##   [3365,] -7.879987e-01  7.114524e-01 -1.185753e+00  6.278343e-01
##   [3366,] -1.231591e+00  3.453449e-01  1.440774e+00  2.508421e-01
##   [3367,] -8.742785e-01  3.156993e-01  6.658405e-01  1.574292e+00
##   [3368,] -7.748727e-01 -3.319659e-01  1.145472e+00  8.571743e-01
##   [3369,]  7.121439e-01  1.645287e-01 -1.879525e+00  9.162917e-01
##   [3370,]  1.376612e+00  1.020506e+00  8.000921e-01  1.456237e+00
##   [3371,] -1.130911e+00 -2.752860e-01 -6.272468e-01  3.727349e+00
##   [3372,]  1.325684e+00  3.422515e-01  1.006391e+00  9.429274e-01
##   [3373,]  1.170438e-02  2.636200e-01 -6.620408e-01  1.174560e+00
##   [3374,] -7.117858e-01  1.364283e+00 -2.592007e-02  8.126932e-01
##   [3375,] -3.182116e-01 -1.211182e+00  2.154453e-02  6.380670e-01
##   [3376,] -1.641258e+00  1.325339e+00 -1.558359e+00  2.078946e+00
##   [3377,] -1.621444e-01  4.064491e-01 -1.151701e-01  6.959571e-01
##   [3378,]  1.507728e+00  2.323967e+00 -8.774812e-01  1.471760e+00
##   [3379,] -3.094214e+00  7.955456e-01 -2.126852e+00  1.868075e+00
##   [3380,]  6.797030e-01 -3.208735e-01  1.094330e+00  9.490648e-01
##   [3381,] -2.175813e-01  2.829332e-01  1.305361e+00  4.231238e-01
##   [3382,]  7.402781e-01  8.163025e-01  7.170652e-01  3.247127e+00
##   [3383,]  1.301582e-01  1.244527e-01 -2.777022e-01  2.833742e+00
##   [3384,]  1.863421e-01 -4.729482e-01  8.056256e-01  1.456847e+00
##   [3385,]  4.673961e-01 -2.613923e-01  1.390110e+00  5.212648e-01
##   [3386,]  1.155821e+00 -7.030948e-01 -2.508828e-01  2.403816e+00
##   [3387,]  1.226866e+00 -8.539299e-02 -1.503232e+00  9.348278e-01
##   [3388,] -2.047572e-01  5.337681e-01 -1.110127e+00  1.115671e+00
##   [3389,] -5.236665e-02 -3.551678e-01 -1.675610e-01  2.889867e+00
##   [3390,]  7.093050e-01 -4.177263e-01 -1.127485e+00  9.434742e-01
##   [3391,] -1.852499e+00 -1.242969e+00  2.770693e-01  1.925164e-01
##   [3392,]  2.206012e-01  4.285858e-02  8.042732e-01  1.936060e+00
##   [3393,] -2.718788e-02 -8.403390e-02 -1.904164e-01  7.674838e-01
##   [3394,] -2.760453e-01 -6.515395e-01 -1.407062e-01  4.131369e-01
##   [3395,] -2.017368e-01  1.825511e+00  2.448672e-01  8.856495e-01
##   [3396,]  1.205302e+00  8.929442e-01 -6.668320e-01  1.019244e+00
##   [3397,]  5.813059e-01 -1.435946e-01 -1.195967e+00  6.681972e-01
##   [3398,]  6.811594e-01  1.035438e+00 -4.317979e-01  3.078979e+00
##   [3399,]  1.597830e-02 -2.774978e-01 -3.080976e-01  2.851746e+00
##   [3400,] -8.423610e-01  8.427483e-01 -1.310680e+00  2.686054e+00
##   [3401,] -1.384672e+00  9.910658e-01 -1.758417e+00  9.304671e-01
##   [3402,] -6.790992e-01 -5.295561e-01 -1.551344e-01  8.283704e-01
##   [3403,]  5.441290e-01 -1.343230e-01  4.067789e-01  8.450701e-01
##   [3404,]  8.928795e-01 -3.921476e-02 -1.285196e+00  1.371585e-01
##   [3405,]  8.772209e-01 -2.393843e-01 -9.920217e-01 -1.171660e-02
##   [3406,] -1.766096e+00  1.297000e+00 -6.138177e-01  4.855004e-01
##   [3407,] -1.159957e+00  8.924165e-01 -1.026860e+00  2.659585e+00
##   [3408,] -1.143135e+00  2.275711e+00  8.020163e-01  1.145915e-01
##   [3409,] -1.533254e+00  1.802568e+00  1.213126e+00  4.133175e-01
##   [3410,] -7.263875e-01 -1.751111e+00  1.351033e+00  2.632057e+00
##   [3411,] -4.145811e-01  6.468820e-02 -6.748099e-01  3.307341e+00
##   [3412,] -1.358075e+00  7.566623e-02 -9.296755e-01  1.867345e+00
##   [3413,] -7.410242e-01  2.101027e-01 -2.293246e-01  7.860615e-01
##   [3414,]  4.602865e-01 -5.427080e-01  1.189802e+00  2.710178e+00
```

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##   [3415,] -8.138298e-01  3.438242e-01 -7.642430e-02  5.106957e-01
##   [3416,] -3.020647e+00 -1.726803e-01 -1.878426e+00  2.946456e+00
##   [3417,] -8.835485e-01  3.723613e-01  1.215591e+00  6.605839e-01
##   [3418,]  1.330492e+00  2.992907e-01 -1.891051e+00  1.167417e+00
##   [3419,] -8.060712e-01  4.376188e-01  1.069389e+00  9.263089e-01
##   [3420,] -7.744994e-01  2.111664e-01  3.617056e-01  1.233392e+00
##   [3421,] -1.740439e-01 -1.742239e-01 -4.297668e-01  2.888253e+00
##   [3422,]  1.128668e+00  1.211542e-01  1.151101e+00  7.800238e-01
##   [3423,] -4.041546e-01  1.823160e-01  3.335061e-01  6.080818e-01
##   [3424,] -1.368273e-01  1.334399e+00 -1.831986e+00  7.734013e-01
##   [3425,]  6.627250e-01 -3.527616e-01 -7.770564e-02  2.797553e+00
##   [3426,] -4.959848e-01 -5.360096e-01  9.216161e-01  1.294470e+00
##   [3427,] -2.549663e+00  8.419359e-01  3.877085e-01  2.332033e+00
##   [3428,] -3.828819e-01 -1.277921e-02  1.257386e+00  5.674424e-01
##   [3429,]  5.093909e-01  1.263871e+00  1.014387e+00  9.337662e-01
##   [3430,] -9.526261e-01  6.666383e-02 -6.096196e-02  5.236202e-01
##   [3431,] -6.699817e-01  8.963839e-01  1.922620e-01  2.706096e+00
##   [3432,]  6.511102e-01  1.709756e-01 -1.359664e+00  1.078984e+00
##   [3433,]  4.062982e-01 -3.444736e-01  7.871408e-01  2.450484e+00
##   [3434,] -1.262484e+00  2.615607e-01  5.159874e-01  2.087262e-02
##   [3435,] -6.548978e-01 -5.526125e-01 -1.611803e+00  2.791127e+00
##   [3436,]  7.320982e-01  4.810199e-01 -5.344604e-01  1.143652e+00
##   [3437,]  6.654997e-01 -4.886687e-01  1.096739e+00  2.939525e+00
##   [3438,] -2.370179e+00 -3.636597e-01  1.210542e+00  2.817295e+00
##   [3439,] -1.476461e+00  1.908830e+00 -2.555233e-01  1.166848e+00
##   [3440,]  1.247709e+00 -1.943740e-01 -3.517512e-01  1.034695e+00
##   [3441,]  8.726075e-01  1.791815e-01  7.247611e-01  1.478421e+00
##   [3442,]  5.877572e-01  3.733133e-01 -3.538548e-01  1.019544e+00
##   [3443,] -8.014607e-01  4.483277e-01 -2.178379e+00  1.374670e+00
##   [3444,] -1.093346e+00 -9.843454e-02  1.334543e+00  2.298248e+00
##   [3445,] -1.605369e+00  5.784920e-02  1.058461e+00  1.072293e+00
##   [3446,] -2.357159e+00  2.127862e+00  3.220271e-01  9.559236e-01
##   [3447,] -5.452240e-01  2.520821e+00  1.536790e+00  1.713488e+00
##   [3448,] -1.144671e+00 -1.040801e+00  9.224797e-01  7.194753e-01
##   [3449,] -3.593951e-01 -6.208192e-01  1.025739e+00  2.313481e+00
##   [3450,] -8.830355e-01 -1.564276e+00 -1.250342e+00  7.038772e-01
##   [3451,] -1.697976e-01 -4.191444e-01  4.454706e-01  4.712995e-01
##   [3452,] -5.471111e-01  1.818535e+00  8.303119e-01  1.196630e+00
##   [3453,] -6.862801e-01  8.959932e-01  5.011628e-01 -6.566952e-01
##   [3454,] -1.811737e+00  5.044635e-01  1.335214e-01  2.406594e+00
##   [3455,] -7.804189e-01 -8.519335e-01  1.002669e+00  3.149485e+00
##   [3456,] -9.056792e-01 -1.049621e+00  1.065417e+00  3.038372e+00
##   [3457,] -1.278659e+00  2.259366e+00 -2.436503e-01  6.406954e-02
##   [3458,]  5.034157e-01  7.331818e-01 -1.409140e+00  6.914770e-01
##   [3459,] -2.937554e+00  1.573063e+00  1.868417e-01  1.114589e+00
##   [3460,] -1.324632e-01 -8.703018e-01 -3.528134e-01  6.870639e-01
##   [3461,] -5.277919e-02 -1.249564e+00  1.174472e+00  2.837421e+00
##   [3462,]  6.455310e-01  2.480868e+00  1.153461e+00  2.830648e+00
##   [3463,]  1.276136e+00  4.379163e-01  4.673034e-01  9.524253e-01
##   [3464,] -1.492479e-01 -9.978518e-01 -1.677378e+00  2.693390e+00
##   [3465,]  8.255338e-01  9.562839e-01 -1.780257e+00  1.139774e+00
##   [3466,]  6.624832e-01  1.029758e-01 -4.557881e-01  7.091426e-01
##   [3467,]  7.743136e-01  1.096684e+00 -4.478305e-01  1.395836e+00
##   [3468,] -3.442578e+00 -2.501091e-01  1.111277e+00  9.927232e-01
##   [3469,] -1.048488e+00  8.800863e-01  1.143520e+00  6.700846e-01
##   [3470,] -1.676824e-01  1.598747e+00  1.080479e+00  7.992438e-01
##   [3471,] -7.643750e-01 -1.917026e-02 -1.916818e+00  1.059126e+00
##   [3472,]  9.648460e-01 -6.486167e-01  5.123685e-03  1.847587e-01
##   [3473,]  4.842279e-01 -1.033659e+00 -7.109786e-01  2.267905e+00
##   [3474,] -4.956331e-01  1.463076e-01 -1.381086e+00  2.607601e-01
##   [3475,] -1.401021e+00 -1.382466e-01  1.354090e+00  4.836065e-01
##   [3476,]  5.674132e-01  1.169859e+00 -3.778853e-01  5.968602e-01
##   [3477,]  6.580558e-01  1.797025e+00 -4.093881e-01  9.280501e-01
##   [3478,]  9.105635e-01  8.084673e-01 -6.463047e-01  1.382520e+00
##   [3479,] -9.459279e-01  3.236438e-01 -3.776134e-01  9.653638e-01
##   [3480,] -1.600405e+00 -1.815794e-01  9.835614e-01  1.132299e+00
##   [3481,] -1.786315e-01  7.406791e-02 -4.272867e-02  3.396214e-01
##   [3482,]  3.694495e-01  1.035041e+00 -3.154826e-01  1.731229e+00
##   [3483,]  3.120563e-01  8.615610e-01  1.380499e+00  2.107559e-01
##   [3484,]  1.271301e+00  1.515102e-01  1.284884e+00  2.578748e+00
##   [3485,] -1.535851e+00  1.066238e+00  7.480072e-01  1.258766e+00
##   [3486,]  1.232495e+00  1.956087e+00  9.055082e-01  9.117575e-01
##   [3487,] -1.333206e+00  2.248470e-01  1.450874e-01  1.365713e+00
##   [3488,] -1.586630e+00 -8.728068e-01 -1.850861e+00  3.281346e+00
##   [3489,] -4.272049e-01 -2.252701e-01  1.342565e+00  4.349520e-01
##   [3490,] -2.300536e+00  5.230794e-02 -3.307862e-01  3.041208e+00
##   [3491,] -1.331040e-01 -5.213847e-01  1.124167e+00  8.953992e-01
##   [3492,] -3.086531e-01 -1.304518e+00  1.468914e+00  3.722972e-01
##   [3493,] -1.602762e+00 -1.432849e+00 -1.188479e+00  2.525204e+00
##   [3494,] -3.570027e-01 -1.108631e+00  3.653302e-01 -6.662377e-02
##   [3495,] -1.420143e+00 -1.267505e+00  5.004354e-01  9.619420e-01
##   [3496,]  9.424805e-02 -3.115692e-01 -2.443764e-01  2.960529e+00
##   [3497,]  3.049984e-01  1.074301e-01 -2.198331e+00  1.444817e+00
##   [3498,] -9.105268e-01 -1.876051e+00  1.233597e+00  5.537804e-01
##   [3499,] -5.464433e-01 -6.782421e-01 -1.798448e+00  1.533243e+00
##   [3500,]  6.524707e-01 -1.465898e-01 -1.641244e+00  2.787808e+00
##   [3501,] -1.280162e-01 -6.784672e-01 -1.288163e+00  6.121456e-01
##   [3502,]  1.294082e+00  2.035432e+00 -6.233923e-01  9.698979e-01
##   [3503,]  1.221569e+00  4.731460e-01 -1.898416e+00  7.900780e-01
##   [3504,] -7.147979e-01 -1.011297e+00 -3.123908e-01  1.127205e+00
##   [3505,] -1.068014e-01  4.095692e-02  1.186760e+00  7.924215e-01
##   [3506,] -2.125236e-01 -6.713724e-01  1.103823e+00  9.088849e-01
##   [3507,] -2.167576e-02 -4.688269e-01 -1.698199e+00  1.086719e+00
##   [3508,]  2.448445e-01  3.099857e+00  3.618120e-01  4.403951e-02
##   [3509,]  1.128176e+00  7.019020e-02  1.416469e-01  2.512342e+00
##   [3510,]  1.334482e+00 -6.053255e-02  6.871704e-01  7.268828e-01
##   [3511,] -1.091246e+00 -1.516937e+00  1.453552e-02  2.470074e+00
##   [3512,]  1.340270e+00 -3.930198e-01 -2.660720e-02  2.536697e+00
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##   [3513,] -1.967706e-01 -8.944838e-01  1.371610e+00  2.510620e+00
##   [3514,] -2.773201e-02 -7.015498e-01 -1.276288e+00  5.424936e-01
##   [3515,]  7.268216e-01  2.103365e-02 -3.749965e-01  8.687202e-01
##   [3516,] -1.688508e-01  1.346188e+00 -3.317359e-01  6.689198e-01
##   [3517,]  6.637445e-01  1.277716e-02  7.970610e-01  9.788236e-01
##   [3518,] -4.890895e-01  6.463910e-01  1.050496e+00 -3.984120e-01
##   [3519,]  1.156524e+00  3.079546e-01  2.605630e-01  7.565808e-01
##   [3520,]  1.113276e+00  5.030247e-01  1.090114e+00  2.585068e+00
##   [3521,] -2.244820e+00  1.444198e+00 -5.490700e-01  1.302158e+00
##   [3522,] -1.154716e+00  2.869639e+00 -1.145269e+00  1.919338e+00
##   [3523,]  6.622722e-01 -9.244443e-01  1.209298e+00  7.430716e-01
##   [3524,] -2.508408e-01  8.472475e-02  1.138148e+00  7.026558e-01
##   [3525,] -7.697644e-01  2.105136e+00 -2.995004e-01  6.800635e-01
##   [3526,] -1.779967e+00  3.136462e-01 -7.754105e-01  2.402466e+00
##   [3527,]  1.145258e+00  1.568494e+00  1.685302e-01  6.343292e-01
##   [3528,]  1.278806e+00  4.908421e-01 -6.140230e-01  6.297648e-01
##   [3529,] -1.428133e+00  8.730581e-02  8.339603e-01  4.273145e-01
##   [3530,]  4.321321e-01  2.743366e+00 -1.599410e+00  4.505000e-03
##   [3531,] -1.175029e-01  6.542260e-01 -4.767928e-01  7.707102e-01
##   [3532,]  3.011633e-01 -3.198305e-01  1.158260e-01 -2.330374e-01
##   [3533,]  5.881392e-01  6.681020e-02 -3.418026e-01  5.202362e-01
##   [3534,] -2.888187e-01  5.085008e-01  1.071588e+00  6.819277e-01
##   [3535,] -1.491167e-01  1.237199e+00 -3.576467e-01  7.761406e-01
##   [3536,]  5.281529e-01  4.140961e-01  1.125919e+00  7.805944e-01
##   [3537,]  7.085395e-01  1.820792e-01 -7.854953e-02  1.137877e+00
##   [3538,] -3.059548e+00 -2.108893e-01 -1.718467e+00  7.671121e-01
##   [3539,]  1.206562e-01  1.425632e+00  1.481465e-01  1.174498e+00
##   [3540,] -2.826823e-01  2.454523e-01  1.363066e+00  3.115772e-01
##   [3541,] -1.578038e+00 -4.449769e-01 -3.270359e-01  3.345872e+00
##   [3542,] -1.279078e-02 -3.118190e-01  1.078792e+00  9.020894e-01
##   [3543,]  3.838958e-01  5.932988e-01  1.169336e+00  4.272192e-01
##   [3544,] -1.478689e+00  1.204939e-01  7.192308e-01  9.600326e-01
##   [3545,]  2.027178e-01  1.056324e-01 -4.848271e-01  1.247491e+00
##   [3546,] -5.375097e-01 -7.413565e-01 -1.979936e+00  3.156234e+00
##   [3547,]  1.944568e-01  3.392992e-01 -1.037661e+00  1.413900e+00
##   [3548,] -9.665348e-01  2.516853e+00  1.133411e+00  3.915411e-01
##   [3549,] -1.356939e+00 -3.406271e-01 -7.103152e-02  3.487980e+00
##   [3550,] -7.772406e-01 -1.393983e+00 -1.072133e+00  4.236558e-01
##   [3551,]  2.442927e-02  6.366807e-01  7.345820e-02  1.388877e+00
##   [3552,] -8.025147e-01 -1.241315e-01  7.851760e-01  1.552406e+00
##   [3553,] -1.682226e+00  1.476106e+00 -3.336058e-01  6.234736e-01
##   [3554,]  7.779946e-01  9.572480e-01  7.912570e-01  1.341345e+00
##   [3555,]  1.471332e-01 -7.844213e-01  1.032218e+00  3.053259e+00
##   [3556,]  2.654199e-01  3.674083e-01 -4.642709e-01  1.395872e+00
##   [3557,]  9.451976e-01  2.248589e+00 -1.174416e+00 -1.965457e-01
##   [3558,] -5.061303e-01 -6.546973e-01  1.011029e+00  3.088856e+00
##   [3559,] -1.132787e+00 -2.446097e-01  1.169176e-01  2.095204e-01
##   [3560,] -1.666559e-01 -5.984681e-01  1.198278e+00  2.825636e+00
##   [3561,] -1.036642e+00  3.435764e+00  1.342191e-01  4.407277e-01
##   [3562,]  6.132616e-01  7.406933e-01  1.123405e+00  7.345282e-01
##   [3563,]  1.325491e+00  4.446605e-01 -1.948601e+00  1.010160e+00
##   [3564,]  1.260471e+00 -1.529277e-01 -1.365065e+00  6.560264e-01
##   [3565,] -6.603616e-01 -6.376488e-01  3.722692e-01  1.476957e+00
##   [3566,] -5.387944e-02  4.630189e-01  1.469621e-01  2.809954e+00
##   [3567,] -2.213971e+00  1.226678e-01  1.475673e-01  1.170569e+00
##   [3568,] -4.888570e-01  2.377676e+00  5.719798e-01  1.726828e+00
##   [3569,]  6.493343e-01  5.777505e-01  7.903591e-02  2.916250e+00
##   [3570,]  5.914213e-01 -6.926685e-01  5.661577e-01  4.222041e-01
##   [3571,]  4.902736e-01  1.529147e+00 -1.899327e-01  4.723606e-01
##   [3572,]  7.555409e-02 -6.549524e-01  1.085420e+00  2.903097e+00
##   [3573,] -9.219462e-01  2.567012e+00  6.559412e-03  1.987447e+00
##   [3574,]  7.907974e-01 -5.113296e-01 -2.980859e-01  9.831136e-01
##   [3575,] -6.371473e-02 -3.126787e-02  1.099741e+00  3.103882e+00
##   [3576,] -3.796104e-01 -3.443286e-01  1.409374e+00  3.230490e-01
##   [3577,]  2.579407e-02  1.460669e+00 -6.000155e-01  1.244996e+00
##   [3578,]  1.298499e+00  1.683875e-01 -1.075977e-01  2.651239e+00
##   [3579,] -2.356405e+00  1.998079e+00 -2.855807e-01  1.282438e+00
##   [3580,]  7.986237e-01  6.584286e-01 -2.038106e+00  1.418608e+00
##   [3581,] -2.049297e-01 -1.375962e+00  5.311924e-02  2.438279e+00
##   [3582,]  1.291957e+00  8.637771e-01  6.892707e-02  9.069491e-01
##   [3583,]  4.718349e-01 -2.302407e-01  3.968021e-01  3.878157e-01
##   [3584,]  1.528720e+00  1.453734e+00  4.035637e-01  1.385490e+00
##   [3585,]  6.244606e-01  1.861057e+00 -5.576500e-01  2.676517e+00
##   [3586,]  2.008687e-01  9.187074e-01  1.515723e+00  1.890603e+00
##   [3587,]  4.217469e-01  6.295333e-01 -1.936236e-01  5.117340e-01
##   [3588,]  1.016161e+00 -5.950856e-01  1.445326e+00  2.189868e+00
##   [3589,]  6.049269e-01 -7.837431e-01 -5.684555e-01  2.277820e+00
##   [3590,] -8.331261e-01  1.301288e+00 -5.685558e-01  9.050039e-01
##   [3591,]  1.835689e-01  7.615330e-01  2.988606e-01 -3.291526e-01
##   [3592,] -2.259944e+00  1.796623e+00 -3.638453e-01  6.583751e-01
##   [3593,] -1.016056e+00 -1.206991e+00 -6.523687e-01  5.439963e-01
##   [3594,]  5.681739e-01  9.952799e-01  1.098402e+00  6.481112e-01
##   [3595,]  1.373689e+00  4.317947e-01  1.061546e+00  2.878865e+00
##   [3596,] -8.026258e-01  1.465166e+00  1.068442e+00  8.343084e-01
##   [3597,] -9.938674e-02 -2.002701e-01 -8.408119e-02  4.902250e-01
##   [3598,]  1.233859e+00 -2.060961e-01 -3.474205e-02  2.570854e+00
##   [3599,]  1.298273e+00  1.505031e+00 -1.076926e+00  8.366033e-01
##   [3600,]  1.187033e+00  9.298516e-01  1.070880e+00  6.899739e-01
##   [3601,] -9.422770e-01  3.090972e-01 -9.434159e-01  5.349009e-01
##   [3602,] -6.940353e-01  7.496583e-01 -2.296424e-01  6.524691e-01
##   [3603,]  6.570642e-01  1.698288e-01 -4.641918e-01  2.648224e+00
##   [3604,] -1.084614e-01 -1.120810e+00  6.654525e-02  2.380726e+00
##   [3605,] -2.582646e-01 -1.171004e+00  3.246396e-01  2.383424e-01
##   [3606,] -2.026950e-01  3.664834e-01  1.015112e+00  2.888795e+00
##   [3607,]  1.215468e+00 -2.195580e-01  1.213986e+00  6.125271e-01
##   [3608,]  8.951647e-01 -4.085442e-02 -1.507099e+00  1.485766e+00
##   [3609,] -1.403688e+00  6.071527e-01  7.368302e-01  1.203935e+00
##   [3610,] -3.424670e-01  4.534268e-01  6.261691e-01  1.771871e+00
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##   [3611,]  1.446039e+00  7.152239e-01 -1.915115e+00  8.706392e-01
##   [3612,]  1.237303e+00  6.859839e-01  1.072982e+00  2.737530e+00
##   [3613,] -5.808603e-01 -6.080600e-01  9.074697e-01  3.330317e+00
##   [3614,] -6.463641e-01 -1.456516e-01 -5.025134e-01  3.245541e+00
##   [3615,]  5.766624e-01  3.556962e-01 -2.354381e-01  6.361479e-01
##   [3616,] -7.339355e-01 -1.175067e+00  1.020613e+00  3.121829e+00
##   [3617,]  8.754653e-01  7.171127e-01 -7.724468e-01  1.283840e+00
##   [3618,] -8.284757e-01  7.014440e-01  3.161703e-01  3.274242e-01
##   [3619,] -2.360778e+00 -1.873221e-02  3.023656e-01  1.056047e+00
##   [3620,] -1.048297e+00  2.254305e+00 -6.425291e-01  1.848382e+00
##   [3621,] -2.250946e-01  1.101880e+00  8.804629e-01  3.927457e-01
##   [3622,]  1.523634e+00  3.584479e-01  9.900986e-01  2.921791e+00
##   [3623,] -6.830887e-01 -2.602940e-01  1.030599e+00  1.083292e+00
##   [3624,] -3.894590e-02 -4.842150e-01  6.334786e-01  2.579734e+00
##   [3625,]  1.188688e+00 -3.093643e-01  1.153889e+00  7.980147e-01
##   [3626,] -1.090235e+00  1.517409e+00 -1.211987e+00  1.174009e-01
##   [3627,] -1.932650e-01 -1.862847e-02 -1.244519e+00  9.304923e-01
##   [3628,]  6.025405e-01  6.852021e-01 -5.969784e-01  2.993335e+00
##   [3629,] -1.852560e+00 -1.650459e-01  5.324833e-02  3.489264e-01
##   [3630,] -8.385540e-01 -1.255682e+00  2.396428e-02  5.744707e-01
##   [3631,] -1.035488e+00 -1.446197e+00 -9.067972e-02  2.675814e+00
##   [3632,]  8.137241e-01  1.410097e+00 -1.998981e-01  1.213400e+00
##   [3633,]  4.632254e-01 -1.957374e-01 -8.588271e-02  7.562518e-01
##   [3634,]  2.205525e-01  1.080241e+00  1.711695e-01  2.202399e+00
##   [3635,]  4.166962e-01 -1.391968e+00  3.367597e-01  4.811674e-02
##   [3636,]  7.737812e-01  5.115429e-01 -6.134561e-01  1.013073e+00
##   [3637,]  1.281089e+00  1.042109e+00  1.027386e+00  8.984845e-01
##   [3638,]  8.362199e-01  1.800539e+00  3.582501e-01  1.999872e-01
##   [3639,]  9.397665e-02  1.463434e+00  1.473399e+00 -1.197980e-01
##   [3640,]  1.033138e+00  1.353826e+00 -1.332871e+00  1.247202e-01
##   [3641,]  6.802238e-01  1.082647e-01 -1.432876e+00  9.802840e-01
##   [3642,] -2.523524e-01 -3.519680e-02  5.800334e-01  6.178523e-01
##   [3643,]  9.714792e-02 -5.330171e-01  6.888375e-01  2.718320e+00
##   [3644,] -4.958126e-01 -2.202631e-01 -1.782139e+00  3.341107e+00
##   [3645,] -7.507502e-01  1.714741e-01  6.250163e-01  7.965585e-01
##   [3646,]  5.078520e-01  3.234725e-01  2.964408e-01  2.543145e+00
##   [3647,] -1.721878e+00  1.181632e+00 -2.391490e-02 -1.740660e-01
##   [3648,]  3.968454e-02  9.593907e-01 -2.470505e-01  9.628446e-01
##   [3649,] -2.955068e+00  7.826717e-01  2.232529e-01  9.429113e-01
##   [3650,] -1.608831e-01 -1.399019e+00  1.522855e+00  2.318156e+00
##   [3651,] -1.374726e+00  1.623945e+00  9.700254e-01  7.976236e-01
##   [3652,] -6.558804e-01 -5.542524e-01 -5.521221e-01  3.388145e+00
##   [3653,] -2.426435e-01  3.377994e-01  2.515173e-01  1.799120e+00
##   [3654,] -3.736370e-02 -8.648402e-01 -1.259553e+00  6.793866e-01
##   [3655,]  1.273697e+00  4.200666e-01  9.591371e-01  1.086440e+00
##   [3656,]  1.687606e-01 -3.737596e-01 -2.043684e-01  2.901919e+00
##   [3657,]  1.261550e+00  1.404904e-01  1.297475e+00  2.439838e+00
##   [3658,]  1.799852e-02 -6.483677e-01  3.456398e-01  1.014192e+00
##   [3659,]  1.180015e+00  1.281339e+00 -8.211866e-01  2.352282e+00
##   [3660,]  1.345504e+00  4.428851e-02 -4.464448e-01  7.503616e-01
##   [3661,] -4.847540e-01 -6.032156e-01 -4.569144e-01  3.340975e+00
##   [3662,]  3.884421e-01  6.509129e-01 -2.028836e-01  2.552477e+00
##   [3663,] -9.625727e-02 -1.009113e+00  1.278671e+00  2.732737e+00
##   [3664,]  1.253307e-01  2.579729e+00 -2.348188e-01  1.069175e+00
##   [3665,] -6.020018e-01 -2.850211e-01  7.501011e-01  1.512967e+00
##   [3666,]  5.404723e-01 -8.584328e-01 -6.745921e-01  2.706159e+00
##   [3667,] -4.640939e-01 -6.888604e-02  7.775834e-01  1.441562e+00
##   [3668,] -1.294590e+00  1.141521e+00  8.043901e-01  1.327350e+00
##   [3669,] -7.868467e-01 -1.499584e+00  1.309185e+00  6.916468e-01
##   [3670,] -6.035753e-01  7.076032e-01  1.013984e+00  1.016777e+00
##   [3671,] -1.349567e+00  8.625929e-01  3.561084e-02  1.132438e+00
##   [3672,]  1.067924e+00 -1.016614e+00  7.185869e-01  3.928913e-01
##   [3673,] -5.994291e-01 -3.489226e-01  7.386406e-01  1.690965e+00
##   [3674,] -6.597754e-02  5.813653e-01 -1.195295e+00  2.693971e+00
##   [3675,] -6.167914e-01 -1.392725e+00 -1.694935e-01  8.935227e-01
##   [3676,] -2.534771e+00 -1.171308e+00  1.395041e-01  4.723890e-01
##   [3677,]  5.415687e-01 -5.958507e-01 -1.674568e+00  6.271694e-01
##   [3678,]  9.430037e-01  2.152410e-01  2.952867e-01  1.651850e+00
##   [3679,] -6.571106e-01 -6.268334e-01  1.194880e+00  8.749605e-01
##   [3680,] -4.363263e-01  4.133920e-01 -6.357910e-01  1.731543e+00
##   [3681,]  6.177340e-01  4.187568e+00  9.558192e-01  1.202207e+00
##   [3682,] -1.389359e+00  8.315663e-01 -1.774316e+00  7.604038e-01
##   [3683,] -1.116743e+00  6.863923e-01  1.744050e+00 -3.384081e-01
##   [3684,]  1.241140e+00 -2.587410e-01 -6.455050e-01  9.176981e-01
##   [3685,]  1.413426e-01  1.042988e-01 -4.530782e-01  3.417713e+00
##   [3686,]  7.896684e-01 -2.461405e-01  1.159234e+00  2.827138e+00
##   [3687,] -7.522565e-01 -6.309524e-01  9.915668e-01  3.135360e+00
##   [3688,]  1.482736e+00  9.914435e-01 -3.672332e-01  1.038263e+00
##   [3689,] -6.958157e-01  5.448355e-01 -4.695200e-01  1.206949e+00
##   [3690,]  1.241218e+00  1.622901e-01  3.155921e-01  3.306705e-01
##   [3691,] -5.709618e-01 -1.014846e+00  1.072241e+00  1.059410e+00
##   [3692,] -7.646756e-01  4.789317e-01 -6.976938e-01  2.625787e+00
##   [3693,]  1.151809e+00  8.164942e-01 -5.341442e-01  7.939193e-01
##   [3694,]  2.671780e-01 -1.208342e+00 -8.391412e-01 -1.157295e-01
##   [3695,]  4.023791e-01 -1.735886e-01  1.270548e+00  6.329914e-01
##   [3696,] -2.433568e+00  1.015757e+00 -6.516626e-01  9.861409e-01
##   [3697,]  1.416517e+00 -7.117462e-02  1.206543e+00  2.603964e+00
##   [3698,] -9.572610e-01  7.894574e-01 -2.245965e-01  2.376382e+00
##   [3699,] -6.787228e-01  8.511170e-01 -2.543747e-01  1.219633e+00
##   [3700,]  6.971424e-01  3.849534e-01  1.019512e+00  8.854080e-01
##   [3701,]  1.272971e+00 -3.417713e-02 -1.552094e+00  9.784274e-01
##   [3702,] -7.551063e-01  7.959784e-01  1.714323e-01  8.578213e-01
##   [3703,] -7.561272e-01 -9.096889e-01 -1.347030e+00  1.186260e+00
##   [3704,] -1.464800e+00  4.107798e-01 -9.608389e-01  2.419360e+00
##   [3705,] -5.199735e-01  4.732616e-01 -1.628853e+00  1.327622e+00
##   [3706,]  7.049828e-01 -3.437299e-01  1.123748e+00  8.115235e-01
##   [3707,] -7.139146e-01 -1.467600e-01  1.038997e+00  8.525619e-01
##   [3708,]  1.308643e+00  3.102207e-01  1.045407e+00  8.933899e-01
```

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##   [3709,] -7.673600e-01  1.363563e-01  1.229746e+00  5.773884e-01
##   [3710,] -2.923610e+00 -1.516508e-01 -3.880280e-01  1.367015e+00
##   [3711,]  7.301195e-01  2.202194e+00 -1.575622e+00 -5.423508e-02
##   [3712,] -1.322174e+00  6.782731e-01  7.575408e-01  1.429464e+00
##   [3713,] -1.923261e-02  1.489554e+00  9.526157e-01  9.351258e-01
##   [3714,] -1.488677e-01 -1.071918e+00 -1.082913e+00  9.521334e-01
##   [3715,] -2.901639e+00 -1.996077e-01 -2.212442e-01  2.785445e+00
##   [3716,] -3.480154e-01  1.746704e+00 -1.190724e+00  1.039678e-01
##   [3717,] -7.243597e-01  5.208652e-01  1.293796e+00  4.062183e-01
##   [3718,]  7.616856e-01  4.510902e-01 -4.031688e-01  1.120023e+00
##   [3719,] -1.364980e-01  5.676265e-01 -2.335922e-01  7.864160e-01
##   [3720,]  1.076353e-01 -6.669763e-01 -3.641648e-01  1.135625e+00
##   [3721,] -1.532323e+00  1.975473e-01  1.083873e+00  8.666180e-01
##   [3722,]  4.985655e-01  2.959518e+00 -1.881936e+00  6.346130e-01
##   [3723,] -2.328847e+00  5.385777e-01  6.754169e-01  9.911380e-01
##   [3724,]  4.522869e-01  5.899884e-03  1.270995e+00  4.631797e-01
##   [3725,] -9.919219e-02 -1.432256e+00  2.491139e-01  2.138876e+00
##   [3726,] -4.494681e-01 -5.982915e-01  1.669090e+00  1.756866e+00
##   [3727,]  3.745911e-01  2.266896e+00 -8.946617e-02  8.286167e-01
##   [3728,]  6.399678e-01 -1.022194e-01 -3.552127e-01  9.988868e-01
##   [3729,] -9.788908e-02  2.595649e+00 -4.146551e-01  8.021302e-01
##   [3730,]  1.396086e+00  1.433705e+00 -7.770600e-01  1.180951e+00
##   [3731,]  5.837579e-01  9.078753e-01 -4.238636e-01  9.314890e-01
##   [3732,]  1.039126e+00  4.103179e-01 -1.646528e+00  4.490539e-01
##   [3733,]  5.758697e-01  3.342709e-01 -2.093279e-01  2.619830e+00
##   [3734,]  1.725430e-01 -3.928400e-01 -1.636317e+00  3.113094e+00
##   [3735,]  1.905115e-01  7.883131e-02  8.884834e-01  1.223714e+00
##   [3736,] -1.489051e+00 -9.695754e-01 -1.271195e+00  1.024473e+00
##   [3737,] -1.395591e-01  7.354059e-01  1.746608e+00 -5.347470e-01
##   [3738,]  2.073223e-01  2.227398e-01 -6.757667e-01  3.238623e+00
##   [3739,] -5.319514e-01  8.962274e-01 -1.176236e+00  1.186797e+00
##   [3740,] -2.384652e-01  1.366973e+00  1.215240e+00  2.450189e+00
##   [3741,] -1.240800e+00 -6.455976e-02 -1.977967e+00  1.518471e+00
##   [3742,]  1.738504e-01  9.070051e-01 -8.191008e-01  3.259338e+00
##   [3743,] -4.079518e-01  3.047239e+00  1.114372e+00  4.193528e-01
##   [3744,]  1.198827e-01  7.417700e-01  7.685100e-01  1.348308e+00
##   [3745,] -2.733012e-01 -5.867625e-01  5.230907e-02  5.068578e-01
##   [3746,] -1.454232e+00  3.549067e-01  1.129661e+00  2.696426e+00
##   [3747,]  1.236426e+00 -3.133189e-01  1.125942e+00  7.905623e-01
##   [3748,] -1.097862e+00  2.867685e+00 -5.299634e-01  4.838478e-01
##   [3749,] -3.839534e-01  1.996228e+00  1.175701e+00  5.659422e-01
##   [3750,] -8.552854e-01 -9.106123e-01  9.113008e-01  2.632514e+00
##   [3751,]  5.478323e-01  2.102607e-01 -2.051233e-01  7.335745e-01
##   [3752,] -5.371620e-01 -5.454773e-01 -1.623478e-01  3.219148e+00
##   [3753,] -9.282165e-01 -9.833814e-01  1.030367e+00  1.156801e+00
##   [3754,] -1.098189e+00  1.782527e+00  4.068165e-01  1.714744e-01
##   [3755,] -3.282581e-01 -9.327601e-01  1.475114e-01  3.402526e-01
##   [3756,] -9.977420e-01  3.618870e-02  3.183733e-01  3.319146e-01
##   [3757,] -2.002657e+00 -4.651497e-01  7.053604e-01  3.828679e+00
##   [3758,]  6.036987e-02 -2.389592e-01 -6.191554e-01  1.129459e+00
##   [3759,] -2.072651e-01  2.788455e-02  1.222962e+00  5.810385e-01
##   [3760,]  1.291467e+00  5.377127e-02 -4.583624e-01  9.300663e-01
##   [3761,]  1.037242e+00 -3.933614e-01  1.353159e+00  4.239874e-01
##   [3762,]  9.073193e-01  1.194717e-01  7.488545e-01  1.462411e+00
##   [3763,] -7.510323e-02 -5.583604e-01 -4.662819e-02  4.989577e-01
##   [3764,] -2.174394e-01 -1.725435e-01  1.301315e+00  2.044921e+00
##   [3765,] -1.199648e-01 -4.173051e-01 -4.435833e-01  1.114321e+00
##   [3766,] -1.575768e+00  6.652929e-01 -8.473299e-02  3.399682e-01
##   [3767,]  6.747028e-01 -6.925442e-02  3.534623e-01  2.647798e+00
##   [3768,]  2.209272e-01 -2.213084e-01 -1.292404e-01  1.215413e+00
##   [3769,] -1.632901e+00 -1.176414e+00  1.286226e+00  7.166436e-01
##   [3770,] -2.125303e-01  3.204801e-01 -6.222888e-01  9.810079e-01
##   [3771,]  1.503112e+00  1.185416e+00 -1.708593e+00  1.079032e+00
##   [3772,] -8.608217e-01 -3.013897e-01 -3.777263e-01  2.647219e+00
##   [3773,]  5.659542e-01  1.356622e+00 -1.028525e-01  9.508163e-01
##   [3774,] -4.024764e-01  3.379940e-02 -1.668367e+00  4.694775e-01
##   [3775,]  9.364176e-02  4.076512e-01 -1.238445e+00  2.837154e+00
##   [3776,]  2.525471e-01 -4.303686e-01  8.654785e-01  1.317001e+00
##   [3777,]  5.784446e-01 -4.341413e-01 -1.539561e-01  6.955373e-01
##   [3778,]  1.078834e+00  1.333045e+00 -1.026473e+00  2.499777e+00
##   [3779,] -2.145190e-01 -9.886392e-01 -1.256824e+00  5.819715e-01
##   [3780,] -6.090233e-01  9.197182e-01  3.813563e-01  2.500284e+00
##   [3781,]  6.558245e-01  6.151219e-01  8.016807e-01  1.353329e+00
##   [3782,]  6.760960e-01  5.210998e-01 -3.220687e-01  9.281988e-01
##   [3783,]  4.216009e-01 -7.983429e-01 -7.781937e-01  3.309450e-01
##   [3784,] -1.209146e+00 -2.705597e-01 -1.968746e+00  1.562625e+00
##   [3785,]  1.246741e+00  6.667506e-01  1.087965e+00  2.636747e+00
##   [3786,] -5.706493e-01  1.409059e+00 -1.397336e-01  2.987927e+00
##   [3787,] -1.308323e+00  4.292405e-01  1.059299e+00  9.858328e-01
##   [3788,]  1.109242e+00  6.908858e-01 -2.398227e-01  6.081262e-01
##   [3789,]  1.220755e-01 -4.486684e-01 -5.994793e-01  3.083123e+00
##   [3790,] -1.606783e-01  1.256130e+00  2.080539e-02  2.543590e+00
##   [3791,]  5.287691e-01 -4.393961e-01  1.316747e+00  5.654319e-01
##   [3792,] -6.340647e-01  1.515537e+00 -1.527342e-01  6.926775e-01
##   [3793,]  1.781793e-01 -6.800781e-02  5.118178e-02  8.920292e-02
##   [3794,] -9.132771e-01  1.438551e+00  8.838403e-02  7.284945e-01
##   [3795,] -2.778679e-01  2.660711e-01  3.477123e-02  3.688128e-01
##   [3796,]  1.303118e+00  1.050007e-01 -6.559724e-02  2.931849e+00
##   [3797,] -2.775447e+00  2.387688e-01  8.090577e-01  1.387696e+00
##   [3798,]  6.878123e-01 -2.388272e-01  3.874861e-01  8.622907e-01
##   [3799,] -6.040880e-01  3.855062e-01 -2.359759e-01  6.318140e-01
##   [3800,] -8.426698e-01  9.428650e-01 -1.130598e+00  1.954087e+00
##   [3801,] -1.416554e+00 -3.862937e-01  1.337860e+00  6.160875e-01
##   [3802,]  5.714634e-01  1.202915e+00 -9.144472e-01  7.105011e-01
##   [3803,]  1.366553e+00  3.426475e-01  3.235316e-01  2.848276e+00
##   [3804,] -3.785378e-02 -7.466588e-01  1.252402e+00  2.614701e+00
##   [3805,]  1.404716e+00 -3.672836e-01  1.102497e+00  8.989061e-01
##   [3806,] -8.974053e-01 -4.637481e-01 -6.352059e-01  1.234160e+00
```

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##   [3807,] -1.073228e+00 -1.051288e-01  6.750819e-01  3.559939e-01
##   [3808,] -8.297083e-01 -1.415805e-01 -1.089579e+00  1.141209e+00
##   [3809,] -1.583534e+00  8.091840e-01 -2.859826e-01  2.607026e+00
##   [3810,] -2.431295e-01 -1.283449e+00  1.601256e+00  2.137158e+00
##   [3811,]  1.062016e-01 -8.358487e-01 -1.797612e-01  8.823918e-01
##   [3812,] -1.233298e+00  3.572653e-01 -3.772050e-01  1.148255e+00
##   [3813,]  1.102719e+00  2.071797e+00 -2.310740e-01  2.265334e+00
##   [3814,] -2.384438e-01 -1.035404e+00 -1.373173e+00  5.050818e-01
##   [3815,]  1.036807e+00  9.199369e-02  1.264305e+00  4.894318e-01
##   [3816,] -2.792652e+00 -4.381386e-01 -3.321417e-01  1.221254e+00
##   [3817,] -6.634169e-01  1.654628e+00  1.088035e+00  2.534711e+00
##   [3818,]  4.548809e-01 -2.333960e-01  3.613349e-01  2.789798e-01
##   [3819,] -5.775021e-01  1.655591e-01 -1.530892e+00  1.573831e+00
##   [3820,]  3.779975e-01 -9.465574e-01 -1.167131e+00  4.295498e-01
##   [3821,] -7.739557e-01  2.681093e+00 -8.682706e-02  2.439298e+00
##   [3822,] -2.268143e-01  2.673399e+00  1.140783e+00  2.833311e-01
##   [3823,]  5.278471e-01 -1.047257e-01  1.247400e+00  5.244982e-01
##   [3824,]  2.949645e-01 -6.579826e-01  1.169836e-01  3.072642e-01
##   [3825,]  2.752280e-03  1.595090e+00 -2.195437e-02  8.799367e-01
##   [3826,]  3.404379e-01 -7.628038e-01  7.982642e-01  2.219457e+00
##   [3827,]  5.771599e-01  1.304358e+00 -1.321347e+00  6.496327e-01
##   [3828,] -4.754269e-02  1.920787e-01  7.959142e-01  1.404091e+00
##   [3829,]  5.500802e-01  1.432510e-01  1.144336e+00  7.976812e-01
##   [3830,] -3.826343e-01  9.442908e-01 -2.339643e-01  4.489074e-01
##   [3831,] -9.473478e-01  1.476140e+00 -3.070218e-01  2.522656e+00
##   [3832,]  5.872132e-01 -8.448591e-01  1.225910e+00  6.829390e-01
##   [3833,] -1.085004e+00  5.680587e-01 -1.115100e+00  1.985176e-01
##   [3834,] -7.827421e-02  2.361914e+00 -1.845629e-01  2.597454e+00
##   [3835,] -5.336293e-02 -5.837479e-01  1.116905e+00  8.768404e-01
##   [3836,]  1.216501e+00  6.653025e-01  4.415799e-01  5.661201e-01
##   [3837,] -1.433021e+00  1.157618e+00 -2.187213e+00  1.451103e+00
##   [3838,] -1.029073e+00  1.769621e+00  1.175044e+00  3.732711e-01
##   [3839,]  3.206288e-01 -6.536036e-01  1.173310e+00  1.998078e+00
##   [3840,] -3.536905e-01 -8.268313e-01  2.472342e-01  8.936778e-02
##   [3841,]  8.577839e-01  4.602190e-01 -2.100127e+00  1.299912e+00
##   [3842,]  1.216387e+00  7.586551e+00 -4.718438e-01  3.230677e+00
##   [3843,] -5.997986e-01 -5.061766e-01  9.501778e-01  3.285450e+00
##   [3844,] -1.716737e+00  1.482564e+00 -2.140567e-02  9.949545e-02
##   [3845,]  1.243594e+00  7.273641e-01 -1.828834e+00  2.681748e+00
##   [3846,]  1.322218e+00  1.598473e+00  2.218551e-01  6.941820e-01
##   [3847,] -4.622689e-01  3.100443e-02 -8.516745e-01  1.405529e+00
##   [3848,]  9.390422e-01  3.868527e-01 -5.379129e-01  3.224337e+00
##   [3849,] -2.843943e-01 -3.117476e-01 -1.301974e+00 -5.984912e-02
##   [3850,]  7.463064e-01  1.753034e-02 -5.343726e-01  8.954904e-01
##   [3851,]  6.077719e-02 -7.599044e-01  1.275605e+00  2.626204e+00
##   [3852,]  1.009680e-01 -4.417031e-01  5.030172e-01  2.971129e+00
##   [3853,] -6.432810e-01  9.569549e-01 -1.749657e+00  1.145019e+00
##   [3854,] -7.629540e-01  1.301067e+00  9.834947e-01  9.302834e-01
##   [3855,] -1.506380e+00  8.736879e-01  3.629406e-01  7.770402e-01
##   [3856,] -5.765003e-01  9.334439e-01 -1.940422e-01  2.619387e+00
##   [3857,] -9.569543e-01  1.353974e+00  1.467797e+00  1.802043e+00
##   [3858,] -3.663199e-01  1.024674e+00  7.531527e-01  5.439988e-01
##   [3859,] -1.845148e+00  1.770933e+00 -1.511910e+00  2.436298e+00
##   [3860,] -4.966392e-01 -1.200430e+00  1.062182e+00  3.050079e+00
##   [3861,] -6.591257e-01  1.931851e+00  8.228387e-01  1.063110e+00
##   [3862,] -1.058610e-01  2.354178e-01  1.194079e+00  2.660086e+00
##   [3863,] -9.361168e-01  2.055552e+00 -1.331407e+00  3.280519e-01
##   [3864,] -8.948092e-01 -1.664350e+00  4.924479e-02  5.988232e-01
##   [3865,] -1.507321e+00  1.585264e+00 -1.628654e-02  8.252688e-01
##   [3866,] -4.795667e-01 -2.054890e-01  7.994419e-01  1.393550e+00
##   [3867,]  9.307807e-01  1.340851e+00 -1.004657e+00  1.910444e+00
##   [3868,] -1.440534e+00 -5.096270e-01 -2.105337e+00  1.830121e+00
##   [3869,] -1.518158e+00 -4.762221e-01 -1.464027e-01  5.526363e-01
##   [3870,]  1.025757e+00  1.434136e+00 -1.511523e+00  2.260137e+00
##   [3871,] -9.638224e-02 -7.037191e-01  1.210464e+00  7.506807e-01
##   [3872,] -8.882057e-01 -1.134841e+00  1.236431e+00  7.176029e-01
##   [3873,] -2.239045e-01 -2.636449e-01 -5.031249e-01  6.877920e-01
##   [3874,]  5.903517e-01 -9.165254e-01  1.352489e+00  2.493852e+00
##   [3875,] -1.822511e+00  3.580914e-01  6.641882e-01  4.466071e-01
##   [3876,] -6.992986e-01  1.182947e+00  1.009840e+00  8.642443e-01
##   [3877,] -5.445333e-01 -4.968921e-01 -4.577915e-01  3.177331e+00
##   [3878,] -1.396197e+00  8.170083e-01 -2.877156e-01  1.016297e+00
##   [3879,] -2.423833e-02 -1.234466e+00  1.372440e+00  2.564093e+00
##   [3880,] -9.166240e-01  4.332253e-01  9.097586e-02  2.801428e+00
##   [3881,] -4.976541e-01 -6.102324e-01 -1.864397e+00  3.270876e+00
##   [3882,] -8.544923e-01  1.083149e-02  1.006880e+00  2.975245e+00
##   [3883,]  2.752959e-01  2.046252e+00 -3.395154e-01  5.032586e-01
##   [3884,] -1.031740e-01 -1.394472e+00 -2.539171e-02  6.369094e-01
##   [3885,]  5.912818e-01  4.761808e-02 -1.581494e+00  1.066615e+00
##   [3886,] -1.994135e+00  9.035896e-01 -1.521462e+00  9.488751e-02
##   [3887,] -2.852925e-01 -3.205610e-01  1.376148e+00  3.485218e-01
##   [3888,] -1.769314e+00  1.460068e+00 -2.397644e-01  6.792127e-01
##   [3889,] -1.237908e+00  1.381712e+00  7.495733e-01  1.301986e+00
##   [3890,]  5.854369e-02  2.769554e-01 -4.627501e-01  1.087938e+00
##   [3891,] -7.779637e-01 -9.255068e-01 -2.321472e-01  2.781269e+00
##   [3892,] -1.162854e+00  2.371663e+00  1.228112e+00  2.162790e+00
##   [3893,] -4.842018e-02  1.110094e+00 -2.382136e-01  2.638331e+00
##   [3894,]  5.545277e-01  5.652286e-02  2.676756e-01  2.228383e+00
##   [3895,] -3.099907e-01 -1.714542e-01  1.485374e-01  2.298492e+00
##   [3896,] -2.949133e+00  5.627245e-01  1.031399e+00  9.913580e-01
##   [3897,]  6.600964e-02 -2.710779e-01 -1.878768e-01  2.874872e+00
##   [3898,]  1.370094e+00  2.116114e+00  8.913572e-01  1.084648e+00
##   [3899,] -1.331706e+00  1.067969e+00  4.018907e-01  1.014924e+00
##   [3900,]  1.325187e+00  5.553956e-03  1.001159e+00  9.193949e-01
##   [3901,] -1.270576e-01 -5.540024e-01  1.067836e+00  2.952520e+00
##   [3902,] -7.809681e-02 -1.160064e+00  1.307830e+00  2.573783e+00
##   [3903,] -1.044558e-01 -1.050198e+00  8.431984e-01  2.491141e+00
##   [3904,]  6.757736e-02 -4.660213e-01  1.027328e+00  3.009110e+00
```

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##   [3905,]  2.240555e-01 -1.354783e-01  9.062808e-01  1.267979e+00
##   [3906,] -7.390393e-01  1.718141e+00 -8.309759e-01  4.564856e-01
##   [3907,]  3.219170e-02 -7.107568e-01  1.260879e+00  7.243665e-01
##   [3908,]  7.199415e-01 -6.873693e-02  8.445321e-01  3.269271e+00
##   [3909,] -1.528180e+00  2.159262e+00  3.368201e-01  4.203359e-01
##   [3910,] -5.542586e-01  1.541707e+00  8.326286e-01  1.237833e+00
##   [3911,] -1.694094e+00  5.262101e-01 -9.506416e-01  4.656137e-01
##   [3912,] -1.124510e-01 -8.456744e-01 -1.399485e+00  8.432353e-01
##   [3913,]  1.174663e+00  3.495922e-01 -1.664234e+00  4.940052e-01
##   [3914,]  2.288780e-01  2.021252e+00  3.312154e-02  1.329596e-01
##   [3915,]  1.271865e+00  1.115794e+00  1.045148e+00  2.733733e+00
##   [3916,] -2.005078e+00  5.153077e-01  7.078856e-01  1.576196e+00
##   [3917,] -3.261510e-01 -8.823060e-01  1.313471e+00  2.450759e+00
##   [3918,] -1.641701e-01 -1.099948e+00  3.776042e-02  7.027962e-01
##   [3919,]  1.162964e+00  2.247264e-01  1.070286e+00  8.153710e-01
##   [3920,] -1.309278e+00  2.066255e-01 -1.800511e-01  7.433498e-01
##   [3921,] -1.778984e+00  9.845186e-01 -1.585189e+00  6.137690e-01
##   [3922,]  1.357233e+00 -6.589999e-02  8.667408e-01  1.248050e+00
##   [3923,] -5.578744e-01  1.062129e+00 -3.331046e-01  2.833671e+00
##   [3924,]  1.563849e-01  1.753262e-01 -1.530058e+00  1.057363e+00
##   [3925,]  8.412107e-01  5.785788e-01 -2.904543e-01  1.414346e+00
##   [3926,] -1.589428e+00  8.698456e-01 -3.924873e-02  2.166247e+00
##   [3927,] -7.897586e-02 -5.925536e-01  1.089574e+00  2.863205e+00
##   [3928,]  3.587485e-01  4.062391e-01  7.418575e-01  3.484264e+00
##   [3929,] -7.079226e-01  4.025857e-01  1.215244e+00  6.310824e-01
##   [3930,] -5.818651e-01 -4.243198e-01 -4.194147e-01  1.468893e+00
##   [3931,]  2.530262e-02 -9.541035e-01 -1.094948e+00  9.606231e-01
##   [3932,] -3.207662e-02 -1.462183e+00  1.529602e+00  2.303540e+00
##   [3933,]  1.251856e+00  3.884400e-01 -7.313168e-02  7.089965e-01
##   [3934,] -2.639027e-01  9.083901e-01  3.353057e-01  2.246594e-01
##   [3935,] -7.765025e-02  5.278396e-01  9.580494e-01  1.138777e+00
##   [3936,] -5.759464e-01 -5.691508e-01 -7.389267e-01  3.315158e+00
##   [3937,]  6.756210e-01  4.770147e-01 -6.099613e-01  9.914680e-01
##   [3938,]  7.198186e-01  1.008641e-01  9.741868e-01  1.100685e+00
##   [3939,]  1.741536e-01  4.089231e-01  8.413745e-01  1.405483e+00
##   [3940,] -7.572417e-01  4.013607e-02  1.133984e-02  2.388144e+00
##   [3941,]  6.010991e-01 -2.464012e-01 -2.414541e-01  2.919582e+00
##   [3942,] -2.357128e+00 -3.611496e-01  1.197130e+00  5.810829e-01
##   [3943,]  8.844219e-01  6.585622e-01  6.646501e-01  1.573571e+00
##   [3944,]  9.790746e-02 -1.726534e-01 -1.505490e+00  1.236844e+00
##   [3945,]  4.359578e-01 -3.700225e-01  6.878188e-01  6.875337e-01
##   [3946,]  3.990969e-01  2.142851e+00  1.094435e+00  3.998241e-01
##   [3947,] -1.384854e-01  5.556846e-01  4.813164e-01  1.986091e+00
##   [3948,]  5.786159e-02 -1.841859e-02 -4.967397e-01  1.392311e+00
##   [3949,]  4.433453e-02 -3.758599e-01 -8.510310e-01  2.614748e+00
##   [3950,]  5.877002e-01  5.239061e-02  1.031959e+00  2.952055e+00
##   [3951,] -1.729156e-01 -4.306760e-01  2.547747e-01  2.820216e+00
##   [3952,]  4.599393e-01 -4.222992e-01 -1.052622e+00  7.230596e-01
##   [3953,] -2.613278e-01  1.264032e-01 -1.240838e-01  8.306590e-01
##   [3954,] -9.943214e-01 -1.045243e-01  1.888805e-01  1.680344e-01
##   [3955,]  1.927333e-01 -1.883825e-01  8.270564e-01  1.403807e+00
##   [3956,]  6.836991e-01 -1.784177e-01 -1.945020e+00  1.031962e+00
##   [3957,] -1.817260e-01  1.574640e-01 -1.299327e+00  2.096780e+00
##   [3958,]  3.127462e-01 -2.411235e-01  7.552507e-01  1.487836e+00
##   [3959,]  6.182456e-01  1.661529e-01 -1.342367e+00  1.178842e+00
##   [3960,]  7.981855e-02 -1.308302e-01 -1.972604e+00  1.166421e+00
##   [3961,]  7.544254e-01  1.069163e-01 -4.043434e-01  1.168881e+00
##   [3962,] -2.235155e+00  1.069515e+00 -4.028168e-01  1.255985e+00
##   [3963,]  1.355603e+00  1.682467e+00  9.452516e-01  1.005823e+00
##   [3964,]  1.217229e+00 -5.194608e-01  1.336846e+00  2.405500e+00
##   [3965,]  8.925430e-02 -3.454017e-01 -2.118502e-01  8.958066e-01
##   [3966,]  5.978901e-01 -1.188393e+00  1.088461e-02  2.475694e+00
##   [3967,] -5.043648e-01 -8.694641e-01 -3.515396e-01  1.216527e+00
##   [3968,] -1.202774e+00 -9.385517e-01 -4.251920e-01  3.377578e+00
##   [3969,] -1.007069e+00 -4.405297e-01  1.336385e+00  4.988979e-01
##   [3970,] -1.746790e-01  1.051560e+00  9.602869e-01  4.829946e-01
##   [3971,]  4.839440e-01  9.335024e-01  1.324589e+00  2.252857e+00
##   [3972,]  4.838539e-01 -8.320456e-01  1.339038e-01  2.321593e+00
##   [3973,] -1.136433e-01 -1.077278e-01 -1.578157e+00  7.162309e-01
##   [3974,]  1.067593e+00  3.138750e+00  1.111412e+00  6.006698e-01
##   [3975,]  1.351140e+00  6.624476e-01 -7.267754e-01  1.005787e+00
##   [3976,]  8.245370e-01 -6.391583e-01  3.526442e-01 -1.453488e-01
##   [3977,]  5.027192e-01 -7.441456e-01  1.206120e-02  2.111289e+00
##   [3978,] -3.242233e+00  4.559567e-01  7.517500e-01  1.564231e+00
##   [3979,] -1.418747e+00  2.065927e+00  9.328501e-01  9.313550e-01
##   [3980,]  1.255907e+00  1.294249e+00 -3.014927e-01  1.086263e+00
##   [3981,]  6.012712e-01 -7.551962e-01  1.894167e-01  7.649216e-01
##   [3982,]  1.084292e+00  3.831884e-02  2.273516e-01  5.393220e-01
##   [3983,]  4.533593e-01  8.258632e-01  3.175272e-01  2.464884e+00
##   [3984,]  1.979722e-01  2.775390e-01 -1.743309e-01  3.076461e+00
##   [3985,] -3.528654e-01 -1.454401e+00  1.402823e+00  4.711252e-01
##   [3986,]  1.293729e+00 -6.108050e-01  1.105611e+00  8.889323e-01
##   [3987,]  4.470345e-02 -3.787586e-02  6.586866e-01  1.047968e+00
##   [3988,] -1.732381e+00 -9.918541e-01  1.676434e+00  2.033278e+00
##   [3989,]  6.430721e-01 -9.070362e-01  1.154831e+00  9.009649e-01
##   [3990,] -8.510893e-02  9.516901e-02  5.001778e-01  5.497209e-01
##   [3991,]  7.501424e-01  3.360227e-02 -4.387712e-01  1.167207e+00
##   [3992,] -2.131587e-02 -1.633210e-01 -1.244977e+00  8.238701e-01
##   [3993,] -2.085175e-01  5.899832e-01 -1.857379e+00  7.842466e-01
##   [3994,] -2.354412e+00  4.487008e-01  1.113226e+00  2.769528e+00
##   [3995,] -2.144979e+00  9.431801e-01  2.247123e-02  1.648595e+00
##   [3996,] -6.724233e-01  1.477755e+00 -3.519807e-01  5.498935e-01
##   [3997,] -1.587662e+00  7.471176e-01  2.738613e-02  3.371722e-01
##   [3998,] -1.090734e+00 -2.303247e-01  3.660287e-01  1.707365e+00
##   [3999,] -1.486624e-01 -4.752231e-01 -1.905930e+00  1.015466e+00
##   [4000,] -2.466040e+00 -7.675002e-01  6.750031e-01  2.518301e+00
##   [4001,]  7.369075e-02 -4.984307e-01 -3.020602e-01  3.001211e+00
##   [4002,]  6.497322e-01 -1.939454e-01 -2.016853e-01  7.823169e-01
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##   [4003,]  6.677557e-01  9.813633e-01 -5.683569e-01  9.102696e-01
##   [4004,]  1.637210e-02 -3.475838e-02 -1.745059e+00  1.276666e+00
##   [4005,]  1.150778e+00 -5.321182e-02 -6.201724e-01  5.677260e-01
##   [4006,] -1.354830e+00  1.311885e-02 -1.523511e+00  2.360136e+00
##   [4007,]  5.167635e-02 -2.495917e-01  8.936641e-01  1.186045e+00
##   [4008,] -1.124872e+00  3.475459e-01 -2.406398e-01  2.126433e+00
##   [4009,]  7.452736e-02 -4.646736e-01 -3.532522e-02  1.050247e+00
##   [4010,]  1.364687e+00  8.926772e-02 -1.234431e+00  9.672958e-01
##   [4011,] -2.394032e+00  1.132528e+00  9.184768e-01  9.550422e-01
##   [4012,]  1.214210e+00  1.188738e+00 -6.596695e-01  8.767817e-01
##   [4013,]  1.175218e+00  1.791711e-01  3.230742e-01  7.621382e-01
##   [4014,]  6.046373e-01  1.620560e+00 -2.752688e-01  2.563420e+00
##   [4015,] -4.355686e-01 -4.518065e-01 -6.975650e-01  1.436287e+00
##   [4016,] -1.653360e+00  1.409604e+00 -1.682732e-01  2.791083e-02
##   [4017,] -6.904226e-01  3.652512e-01  8.170371e-01  3.390404e+00
##   [4018,] -3.750417e-01 -1.076535e+00 -1.445806e+00  3.650432e-01
##   [4019,] -8.451333e-01 -1.322279e+00 -1.035534e+00  2.823853e-01
##   [4020,] -1.635053e-01 -5.582645e-01 -1.495209e-01  7.957798e-01
##   [4021,]  1.214050e+00  2.154517e+00  1.157145e+00  8.016258e-01
##   [4022,] -1.610496e+00 -8.227036e-01  3.189828e-01  7.631252e-02
##   [4023,]  6.078643e-01  5.313159e-01  1.134951e-01  1.225304e+00
##   [4024,]  1.041165e+00  2.220578e+00  1.400164e+00  1.963281e+00
##   [4025,]  1.247454e+00 -4.430185e-01  1.320962e+00  6.218052e-01
##   [4026,]  6.535536e-01  9.979786e-01 -5.424129e-01  3.097278e+00
##   [4027,] -4.613807e-01  3.270557e-01  4.672540e-02  3.915509e-01
##   [4028,]  7.961216e-01  1.234153e-02  1.067548e+00  2.890699e+00
##   [4029,] -1.782586e+00  1.051868e+00  1.342131e+00  1.718311e-01
##   [4030,] -8.159623e-01  3.167741e+00  9.209863e-01  9.830673e-01
##   [4031,]  1.391797e-02 -8.588783e-01  1.055244e+00  3.038793e+00
##   [4032,] -6.832318e-01 -6.136727e-01  9.338252e-01  2.878435e+00
##   [4033,]  1.349959e+00  1.042871e+00 -2.850894e-01  9.092882e-01
##   [4034,]  1.375358e-01 -1.442191e-01 -5.354918e-01  1.238410e+00
##   [4035,]  6.413440e-01  1.828554e+00 -2.892254e-01  8.685264e-01
##   [4036,]  5.096255e-01 -1.023109e-01 -1.148478e+00  6.172198e-01
##   [4037,]  1.154234e+00 -1.732622e-01 -1.712222e+00  6.563805e-01
##   [4038,] -8.012970e-02  1.103458e+00  1.208520e+00  2.551891e+00
##   [4039,] -3.737080e-01 -3.715327e-01 -6.617859e-01  1.564528e+00
##   [4040,] -8.457027e-01 -1.693786e-01  1.048772e+00  1.110517e+00
##   [4041,] -2.057436e-02 -6.682971e-01 -1.841211e-01  7.660767e-01
##   [4042,] -1.713702e+00 -1.874417e-01 -7.562546e-01  3.071915e-01
##   [4043,] -1.126007e+00  2.203507e+00  7.292369e-01  4.093197e-01
##   [4044,] -8.878736e-03  1.400651e-01 -5.598435e-01  1.240555e+00
##   [4045,]  1.068960e+00 -2.623457e-01 -1.188242e+00  2.287097e+00
##   [4046,]  4.861875e-01 -1.318797e+00  1.484436e+00  2.301102e+00
##   [4047,] -1.127305e+00  1.896801e+00 -8.748680e-02  2.175948e+00
##   [4048,] -9.519143e-02 -1.545626e+00  1.458458e+00  2.371745e+00
##   [4049,]  1.195167e+00  9.144760e-01  1.361717e+00  4.884297e-01
##   [4050,] -1.648473e+00  7.671711e-01  1.001056e+00  9.694947e-01
##   [4051,] -1.717562e-01  5.916405e-01 -8.929591e-01  6.576692e-01
##   [4052,]  1.914842e-01 -3.456711e-01 -5.476800e-01  2.947836e+00
##   [4053,]  1.062367e-01 -5.540423e-01  3.658283e-01  2.954257e+00
##   [4054,]  4.533747e-01  4.640271e-01  1.135313e+00  2.681247e+00
##   [4055,] -1.182841e+00  1.561684e+00  6.556167e-01  1.213821e+00
##   [4056,] -2.371663e-01  1.532145e+00  1.277813e+00  2.249553e+00
##   [4057,] -5.923002e-01 -5.248860e-01  3.315900e-01  1.043737e+00
##   [4058,] -1.354501e+00 -2.494680e-01  9.825020e-02  2.140587e-01
##   [4059,]  6.213842e-01  1.037474e+00  1.035149e+00  3.088594e+00
##   [4060,]  1.256695e+00  3.075939e-01 -1.189814e+00  2.654724e+00
##   [4061,] -3.655661e-01  2.636115e+00 -1.054487e+00  2.007579e+00
##   [4062,] -3.629318e-02  3.415530e+00  9.605199e-01  1.167275e+00
##   [4063,]  8.674647e-01  3.202445e-01  8.299585e-01  3.312040e+00
##   [4064,]  7.452841e-01  2.730916e-01 -1.534558e+00  1.243591e+00
##   [4065,] -2.262088e+00  1.134504e-01  9.976278e-01  3.139243e+00
##   [4066,] -4.011446e-01  9.515133e-01  7.443079e-01  2.325171e-01
##   [4067,]  1.805585e-01  1.136818e+00  1.393412e+00  5.500224e-02
##   [4068,] -6.362659e-01  1.616588e-01 -2.275791e+00  1.623753e+00
##   [4069,]  8.138280e-02 -2.595689e-01 -1.329003e+00  1.203354e+00
##   [4070,] -1.463321e-02 -6.657724e-01  4.041512e-03  2.633486e+00
##   [4071,]  4.883222e-02 -2.732587e-01 -1.427887e-01  2.838303e+00
##   [4072,]  5.713660e-02 -7.006868e-01  8.512501e-01  1.352528e+00
##   [4073,] -1.054919e+00  4.873059e-01 -4.577450e-01  1.051984e+00
##   [4074,] -1.995954e-01 -3.409387e-01  3.710266e-01  2.036692e-01
##   [4075,] -9.436791e-01 -1.569361e+00  1.244466e+00  5.069310e-01
##   [4076,] -1.743942e-01  1.583529e+00 -1.859589e+00  2.343691e+00
##   [4077,]  5.197820e-01  1.899576e-01 -4.679825e-02  4.123828e-01
##   [4078,]  4.640042e-02 -2.330007e-01 -1.150016e+00  2.840311e+00
##   [4079,] -4.286415e-01  2.472585e+00  1.340302e+00  1.918882e+00
##   [4080,] -8.055736e-01 -9.771385e-01  8.797462e-01  1.123048e+00
##   [4081,] -7.648647e-01  1.212309e+00  1.344364e+00  2.474356e+00
##   [4082,] -1.883079e-01 -2.302705e-01 -5.369942e-01  9.588964e-01
##   [4083,] -8.000289e-01  1.417566e+00 -1.801084e+00  4.922819e-01
##   [4084,]  7.660750e-01  1.762779e-01  9.900689e-01  2.958255e+00
##   [4085,] -9.106038e-01 -1.148320e+00  1.197231e+00  8.598239e-01
##   [4086,] -1.420211e+00  1.713434e+00  3.673012e-01  2.444173e+00
##   [4087,]  1.145022e+00  3.910930e-01  4.098185e-01  7.548381e-01
##   [4088,] -1.047215e+00 -1.921558e-01 -1.106659e+00  2.001223e+00
##   [4089,]  1.233478e+00 -3.480429e-01  7.444365e-01  8.925081e-01
##   [4090,] -3.789563e-01 -2.386736e-01  5.125586e-01  3.103726e-01
##   [4091,]  9.287559e-01  1.794416e+00  7.474875e-01  1.559986e-01
##   [4092,] -6.144547e-01  4.016940e-01 -1.495333e+00  1.265002e+00
##   [4093,] -2.448788e-01 -8.051735e-02  1.428505e+00  1.658942e-01
##   [4094,]  6.422446e-01  5.256916e-01  5.499555e-01  2.692513e+00
##   [4095,]  6.334106e-01  2.314603e-01 -4.096960e-01  1.168486e+00
##   [4096,] -1.425520e+00  1.226207e+00 -1.005015e+00  2.395893e+00
##   [4097,]  7.935233e-02  7.901695e-01  8.991219e-01  1.052711e+00
##   [4098,] -9.113804e-01  2.086275e+00  6.926074e-01  3.546560e-01
##   [4099,]  6.225178e-01  3.488432e-01  8.913943e-01  3.091330e+00
##   [4100,] -4.439703e-01  1.105316e+00 -2.958633e-01  1.955398e+00
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##   [4101,]  3.983576e-01 -1.024604e+00  4.282793e-01  2.309799e+00
##   [4102,] -5.713341e-04  1.205058e+00 -5.538697e-01  8.300084e-01
##   [4103,]  1.455822e+00  5.128519e-01 -5.661085e-02  2.920672e+00
##   [4104,] -4.134765e-01  1.085089e+00  8.668321e-02  2.033949e+00
##   [4105,]  1.278676e+00  3.176650e-01 -5.216595e-01  1.003130e+00
##   [4106,]  5.360740e-01  2.128915e-01 -2.183895e-01  9.756861e-01
##   [4107,] -9.147409e-01 -1.578340e+00 -9.081789e-01  2.352550e+00
##   [4108,]  7.722021e-01 -6.033096e-01  1.035055e+00  1.043786e+00
##   [4109,]  1.030818e+00 -1.020572e+00 -1.334930e+00  1.089135e-01
##   [4110,] -6.785943e-01  4.153418e-01  7.294660e-02  4.462336e-01
##   [4111,]  6.929878e-01 -4.869889e-01  1.177887e+00  8.462272e-01
##   [4112,] -3.406771e-01  1.585294e+00  8.391124e-02  8.416253e-01
##   [4113,]  3.838603e-01 -7.919365e-01  1.584409e+00  1.608492e-01
##   [4114,]  5.316573e-01  2.743974e-01  6.370281e-01  1.007575e+00
##   [4115,]  7.930175e-01 -5.567190e-01 -9.070655e-01  2.783175e+00
##   [4116,] -1.391388e+00  1.706439e+00  7.201723e-01  1.380800e+00
##   [4117,]  1.258706e+00  7.107799e-01 -6.164161e-01  9.145844e-01
##   [4118,] -6.068729e-01  5.785193e-01  8.600489e-01  1.178514e+00
##   [4119,] -1.293511e-01  4.847049e-01  5.572593e-01  5.153995e-01
##   [4120,]  1.031063e+00  1.309108e-01  1.391282e+00  2.290733e+00
##   [4121,]  7.672285e-01  1.605399e+00 -1.148904e-03 -2.554804e-02
##   [4122,] -1.636280e+00  2.510594e-01 -6.324564e-01  3.416028e-01
##   [4123,] -6.975467e-01  7.572669e-01 -8.017104e-01  1.152850e+00
##   [4124,] -5.505774e-01  2.979402e-01  1.207712e+00  2.616600e+00
##   [4125,]  1.147798e+00 -7.989780e-01  1.360580e+00  2.463910e+00
##   [4126,] -1.549440e+00  3.943484e-01  9.914154e-01  2.666688e+00
##   [4127,]  6.422726e-01  5.980402e-02 -1.978139e+00  3.026802e+00
##   [4128,]  5.057178e-01  3.880234e-01  6.072060e-01  9.080097e-01
##   [4129,] -1.654101e+00  5.545232e-01  2.537230e-01  8.262384e-01
##   [4130,] -4.582673e-02 -8.086006e-01  1.127089e+00  8.718176e-01
##   [4131,]  4.374138e-01 -1.758293e+00  1.756391e+00  1.902609e+00
##   [4132,]  1.390720e+00  3.497339e-01  8.517997e-01  2.798267e+00
##   [4133,]  2.056856e-03  5.153541e-02 -5.425115e-01  1.062843e+00
##   [4134,] -1.282851e+00  1.603883e-01 -2.456806e-01  1.462744e+00
##   [4135,] -1.782604e-01 -6.786274e-01 -1.820811e+00  9.126391e-01
##   [4136,] -1.810566e-01 -8.542131e-01  1.145239e+00  9.430627e-01
##   [4137,]  5.363386e-01  6.664935e-01  1.260302e+00  2.291989e+00
##   [4138,] -8.756557e-01 -6.660137e-01 -1.587170e+00  5.041459e-01
##   [4139,]  6.848276e-01 -5.374746e-01  2.040287e-01  6.770376e-01
##   [4140,]  7.322615e-01  5.948025e-01  1.128316e+00  2.873559e+00
##   [4141,] -1.170440e-01  5.560979e-01  1.319122e+00  2.400816e+00
##   [4142,] -8.895601e-01  2.355048e-01  2.216134e-01 -1.013448e-01
##   [4143,] -7.276370e-01  2.396250e+00  1.106731e+00  6.011782e-01
##   [4144,] -8.614501e-01  1.671424e+00  9.330142e-01  9.544744e-01
##   [4145,] -8.646710e-01 -6.903025e-01 -1.595907e-01  8.018981e-01
##   [4146,]  1.553136e-01 -1.959337e-01  8.725643e-01  1.401321e+00
##   [4147,]  9.424237e-01  3.265616e+00 -5.086520e-01  1.642159e+00
##   [4148,] -1.439810e+00  2.735835e-01 -2.840469e-01  8.765983e-01
##   [4149,] -1.563950e+00 -7.618998e-01  7.900732e-01  3.429430e+00
##   [4150,] -8.252473e-02  2.732969e-01 -2.631114e-01  8.816806e-01
##   [4151,]  3.888637e-02 -2.373454e-01 -5.121623e-01  1.290523e+00
##   [4152,] -1.183412e+00  3.768681e-01 -4.571463e-01  2.887654e+00
##   [4153,]  7.611350e-01  6.331124e-01  9.611310e-01  1.049806e+00
##   [4154,]  1.050902e+00 -7.905950e-01 -1.133230e+00  3.397144e-01
##   [4155,] -2.918720e+00  8.259527e-02 -2.716288e-01  9.356314e-01
##   [4156,]  1.327594e+00  4.461191e-01 -5.846198e-01  9.071482e-01
##   [4157,]  8.440186e-01  1.558695e-01 -2.924141e-01  1.147417e+00
##   [4158,]  2.139359e-01  1.380151e+00 -1.120120e+00  2.180161e+00
##   [4159,]  1.273266e+00  1.309758e+00  1.034268e+00  7.855572e-01
##   [4160,]  8.923509e-01  4.018477e-01  1.255993e-01  1.315426e+00
##   [4161,]  6.448524e-01 -2.882085e-01  1.267844e+00  2.500974e+00
##   [4162,]  2.880983e-01 -1.928235e-01  9.311772e-01  3.235450e+00
##   [4163,]  6.141939e-01 -4.202910e-01 -3.680376e-01  1.122836e+00
##   [4164,]  1.240577e+00  8.945007e-01 -3.871574e-01  1.043954e+00
##   [4165,] -1.021310e+00  3.293376e+00  1.369794e+00  2.571208e-01
##   [4166,]  1.305370e+00  2.358375e-01 -1.852112e+00  9.216082e-01
##   [4167,]  2.885740e-01  4.662179e-01  8.686816e-01  1.451736e+00
##   [4168,]  1.435648e+00  9.080550e-01  1.704798e-01  1.110081e+00
##   [4169,]  3.709788e-01  1.482528e+00  5.457788e-01  7.436076e-01
##   [4170,] -6.979901e-01  5.278900e-01 -1.758906e-01  6.637667e-01
##   [4171,] -3.951693e-01  1.454132e-01 -1.536085e-02  3.437326e-01
##   [4172,] -7.685510e-01 -7.526288e-01 -4.909703e-01  9.815535e-01
##   [4173,] -1.265289e+00  9.712106e-01  1.007132e+00  9.527467e-01
##   [4174,] -1.232697e+00  6.131170e-01  1.185782e+00  6.186476e-01
##   [4175,] -7.985179e-01  1.092307e+00 -3.290318e-01  2.381237e+00
##   [4176,] -3.171348e-01 -3.049251e-01  1.581821e+00  1.981515e+00
##   [4177,] -5.837464e-01  2.528405e-01  5.325461e-01  1.596923e+00
##   [4178,] -9.613276e-01  2.428519e+00  1.232351e+00  2.127339e+00
##   [4179,] -5.877944e-01  5.490100e-01  6.497512e-01  1.810064e+00
##   [4180,]  5.700695e-02  4.580974e-01 -1.160670e+00  8.871450e-01
##   [4181,] -9.055461e-01  2.009077e+00  9.435399e-01  7.149018e-01
##   [4182,]  6.954703e-01 -1.521923e-01  9.016907e-01  1.147506e+00
##   [4183,] -1.468334e+00  1.106897e+00  1.195302e+00  4.969595e-01
##   [4184,] -1.537473e+00  4.752602e-03 -2.674879e-01  2.392204e+00
##   [4185,] -2.876389e-01 -1.327185e+00  3.016866e-02  2.460601e+00
##   [4186,] -5.585061e-02 -1.148383e-02  3.037215e-01  1.343936e+00
##   [4187,] -8.079332e-01  2.351888e+00  1.196023e+00  4.086168e-01
##   [4188,]  6.253250e-01 -1.857089e-02  1.113788e+00  9.447745e-01
##   [4189,]  1.113817e+00  8.204410e-01  1.182796e+00  2.576641e+00
##   [4190,] -1.899749e-01 -4.259366e-01  1.279908e+00  7.357844e-01
##   [4191,] -6.295616e-01 -4.944719e-02  1.222241e-01  3.281387e+00
##   [4192,]  2.612940e-01  2.747515e-01  4.525198e-01 -9.551872e-03
##   [4193,]  8.623265e-01  3.996036e-01 -5.251678e-02  1.251404e+00
##   [4194,]  1.253849e+00  1.839730e+00 -2.550286e-01  8.817986e-01
##   [4195,] -9.164888e-01 -6.030944e-01 -9.446341e-02  4.426573e-01
##   [4196,]  1.301563e+00 -2.742292e-01 -8.810329e-01  1.050871e+00
##   [4197,] -2.029215e-01  3.840871e-01 -9.457192e-02  4.519969e-01
##   [4198,]  4.392573e-01  4.124104e-01 -1.575238e-01  5.718063e-01
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##   [4199,] -1.590574e-01  6.080005e-01 -8.110473e-01  2.445198e+00
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##   [4201,] -1.162548e+00 -4.714246e-01 -7.637982e-02  6.370191e-01
##   [4202,]  7.896805e-01  2.359407e-01 -5.677840e-01  1.250921e+00
##   [4203,] -6.580194e-01  2.047577e-01  1.266280e+00  5.235463e-01
##   [4204,] -6.255234e-01 -1.591137e-02 -1.105055e+00  1.451288e+00
##   [4205,] -1.651186e+00  1.902830e+00  2.080634e-01  2.581489e+00
##   [4206,] -5.785557e-01  2.248022e-01  1.269177e+00  2.534688e+00
##   [4207,]  8.957629e-01  2.457347e-01  7.278984e-01  1.543823e+00
##   [4208,] -2.734011e-01  2.601722e+00  9.279613e-01  2.143210e-01
##   [4209,]  6.416522e-01  6.693786e-01 -1.899708e+00  9.070604e-01
##   [4210,]  6.781584e-01 -4.430145e-01 -1.694147e+00  6.509572e-01
##   [4211,]  3.574211e-01  2.065960e-01  1.324121e+00  5.532604e-01
##   [4212,] -2.237787e-01 -1.315737e+00  1.425135e-02  2.592709e+00
##   [4213,] -9.638789e-01  2.211320e+00 -1.167903e+00  2.945714e-01
##   [4214,] -2.125955e+00  2.415170e-01  5.268161e-01  3.034625e+00
##   [4215,]  7.367615e-01  9.935532e-01  1.275149e+00  1.569329e+00
##   [4216,] -1.060735e+00  1.874732e+00 -1.532837e+00  1.794274e-01
##   [4217,]  6.520749e-01 -1.008909e+00  1.362559e+00  2.517456e+00
##   [4218,]  6.250194e-01 -4.092817e-01  1.206503e+00  2.650001e+00
##   [4219,] -1.646815e+00  2.693788e-01  1.461479e+00  2.194856e+00
##   [4220,] -7.784239e-01 -1.581363e+00 -1.552362e+00  6.170278e-01
##   [4221,] -2.544078e+00  8.380628e-01 -9.727434e-01  2.336049e+00
##   [4222,] -2.143696e+00  1.226671e-01 -1.389656e+00  1.123420e+00
##   [4223,]  7.453266e-01  2.257528e-02 -1.908075e+00  1.222066e+00
##   [4224,] -5.952535e-01  1.079930e+00 -2.787527e-01  1.042900e+00
##   [4225,]  1.208374e-01 -5.654503e-01  1.073231e+00  9.751482e-01
##   [4226,] -2.022091e-01 -9.228301e-01  3.236367e-02  4.558941e-01
##   [4227,] -8.224609e-01  1.268482e+00  1.352987e+00  2.362034e+00
##   [4228,] -1.553185e+00  7.275838e-01 -1.937855e+00  1.096028e+00
##   [4229,] -1.043987e+00  4.166062e-01 -2.403363e-01  1.005383e+00
##   [4230,] -5.477505e-01 -4.084468e-01  7.198449e-01  1.621417e+00
##   [4231,] -1.994748e-01  1.475033e+00  5.019535e-01  2.606633e+00
##   [4232,]  7.769431e-01  4.038260e-02 -3.552031e-01  9.618408e-01
##   [4233,]  2.157496e-01  1.509029e+00 -5.499283e-02  1.240945e+00
##   [4234,] -9.169062e-01 -9.103852e-01 -1.716445e+00  1.126053e+00
##   [4235,]  4.725912e-01  1.575096e-01 -1.428714e+00  5.269862e-01
##   [4236,] -1.561209e+00  3.924004e+00  9.430934e-01  1.129031e+00
##   [4237,] -5.243407e-01 -9.531014e-01 -1.892911e+00  1.106689e+00
##   [4238,]  8.129084e-01  1.408188e-01 -4.277499e-01  1.206989e+00
##   [4239,]  5.898134e-01  5.010783e-03 -5.786505e-01  2.912590e+00
##   [4240,] -1.593760e+00  1.970413e+00  2.895499e-01  1.212157e+00
##   [4241,]  5.723778e-01 -9.230961e-01 -1.494578e+00  2.279980e+00
##   [4242,] -7.469804e-02 -7.520934e-01  1.203569e+00  7.922757e-01
##   [4243,]  8.278788e-01  1.279409e-01  7.824726e-01  1.470210e+00
##   [4244,]  5.726145e-01  2.739327e-01 -1.811113e+00  2.846658e+00
##   [4245,] -8.671832e-01  1.967660e+00  1.297249e+00  2.286809e-01
##   [4246,] -7.898044e-01  1.096917e+00  1.039481e+00  1.016567e+00
##   [4247,]  1.817133e-03 -6.952635e-01 -1.582833e+00  1.143313e+00
##   [4248,]  1.004350e+00 -8.370154e-01  1.574236e+00  2.103915e+00
##   [4249,]  7.808260e-01 -2.945220e-01 -2.544663e-01  2.905862e+00
##   [4250,]  5.533304e-01 -6.401032e-01 -2.275894e-01  9.378861e-01
##   [4251,]  1.180140e+00  5.815894e-01 -3.384752e-01  8.312779e-01
##   [4252,] -1.580928e+00  1.390974e+00 -1.520816e+00  2.256482e+00
##   [4253,]  6.785664e-02  1.004921e-01 -1.497705e-01  3.474408e+00
##   [4254,]  5.445680e-01 -9.710695e-02  1.253488e+00  2.585456e+00
##   [4255,] -2.409909e+00  1.225318e+00  9.703023e-01  9.123469e-01
##   [4256,] -2.514581e-01 -2.827941e-01 -1.586647e-01  5.918309e-01
##   [4257,] -2.458510e+00  6.494360e-02 -1.671848e-01  8.195400e-01
##   [4258,] -5.964135e-01 -5.496420e-01 -7.082986e-01  1.651992e+00
##   [4259,] -1.532372e+00  1.614392e+00  1.187155e+00  4.105249e-01
##   [4260,] -2.516343e+00  1.222769e+00 -1.397140e+00  8.175307e-01
##   [4261,]  6.739664e-01 -1.374120e-01 -1.392990e-01  7.245797e-01
##   [4262,] -1.622631e+00  1.943000e+00 -1.715777e-01  7.849976e-01
##   [4263,] -2.248213e+00  1.014134e+00  7.310742e-01  1.470929e+00
##   [4264,] -1.497495e+00  5.423021e-01 -1.499883e+00  4.976041e-01
##   [4265,] -5.852038e-01 -1.177504e-01 -7.038174e-01  1.100952e+00
##   [4266,] -2.701002e-01  3.225261e-01 -4.405691e-01  8.041459e-01
##   [4267,] -1.024496e+00  2.124027e+01  1.922354e-01  4.986712e+00
##   [4268,] -1.474841e-01  1.060628e+00 -1.887851e+00  2.803446e+00
##   [4269,]  7.795160e-01 -1.581791e-01  9.702129e-01  3.055112e+00
##   [4270,] -4.133138e-01  1.475023e-02  8.029244e-01  1.538691e+00
##   [4271,]  6.327197e-01 -1.848766e-01  9.211097e-01  1.208042e+00
##   [4272,]  6.727105e-01 -3.005167e-01 -1.120021e+00  3.095795e+00
##   [4273,]  1.297267e+00  2.493988e-01  9.140469e-01  1.136275e+00
##   [4274,] -1.828997e+00  1.851911e+00 -3.783503e-01  2.492987e+00
##   [4275,] -3.227404e+00  3.436409e-01  8.236799e-01  5.584122e-01
##   [4276,] -7.554331e-02 -1.218432e-01 -1.446997e+00  1.225701e+00
##   [4277,] -1.693455e+00  1.511398e-01  1.289552e+00  2.332656e-01
##   [4278,] -5.926483e-01  8.992761e-01  9.506525e-01  9.866994e-01
##   [4279,] -4.649378e-02 -9.577871e-01  1.226435e+00  7.372100e-01
##   [4280,]  5.151438e-01 -7.089263e-01 -1.564912e+00  2.382824e+00
##   [4281,]  9.879831e-02 -4.618523e-01  1.038964e+00  3.066787e+00
##   [4282,]  7.777086e-01  5.795693e-01  1.525908e-01  3.210476e+00
##   [4283,]  1.163025e+00  1.550989e+00 -6.106432e-01  2.750306e+00
##   [4284,] -1.636964e+00  7.805295e-01 -3.359333e-01  9.242090e-01
##   [4285,] -5.046941e-01  1.795475e+00  1.476604e+00  2.062567e+00
##   [4286,] -3.069094e+00  7.583014e-01  1.143193e+00  7.302159e-01
##   [4287,] -1.685542e+00 -9.313173e-02 -1.161889e+00  7.056501e-01
##   [4288,] -8.484819e-01 -2.271248e-01  4.582633e-01  4.993826e-01
##   [4289,] -5.578025e-01 -6.207063e-01 -4.254875e-01  3.130922e+00
##   [4290,]  7.161530e-01  8.228282e-01 -6.687391e-01  1.116900e+00
##   [4291,]  8.686993e-01 -2.031682e-01  1.543826e+00  3.918502e-02
##   [4292,] -5.978768e-02  3.846274e-01  1.127520e+00  6.694059e-01
##   [4293,] -8.338122e-01 -7.976039e-02 -1.473963e+00  2.903365e-01
##   [4294,] -1.963042e-01 -1.300997e-01  1.282389e+00  2.598178e+00
##   [4295,] -1.179584e+00  1.082055e+00  7.083884e-01  1.409517e+00
##   [4296,]  2.435112e-01 -8.848056e-03 -5.596440e-01  1.519263e+00
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##   [4297,] -7.017370e-01 -2.012150e-01 -8.064281e-02  7.946897e-01
##   [4298,] -1.333705e+00  1.138951e+00  1.469701e-01  7.285773e-01
##   [4299,]  4.954806e-01  2.962250e-01 -1.273968e+00  4.197057e-01
##   [4300,]  4.272033e-01 -1.065572e+00 -6.771840e-01  1.995447e-01
##   [4301,] -7.871950e-01 -8.907806e-02 -1.998071e+00  1.211169e+00
##   [4302,] -4.908829e-02 -5.634677e-01 -3.132816e-01  1.078014e+00
##   [4303,] -1.505038e+00 -9.019152e-01 -9.678019e-01  3.053786e+00
##   [4304,] -7.435300e-02  3.711077e-01  1.442925e+00  3.984270e-01
##   [4305,] -5.444249e-01 -9.123703e-01  9.039441e-01  1.353389e+00
##   [4306,]  3.766379e-01  1.481063e-01  1.284399e+00  4.075457e-01
##   [4307,]  2.728783e-01  1.460300e+00 -1.113543e+00  1.951598e+00
##   [4308,] -7.562724e-01  1.301835e-01 -1.073540e+00  2.373684e+00
##   [4309,] -4.596920e-01 -8.983317e-02  1.484993e+00  2.011643e+00
##   [4310,] -1.159896e+00 -6.684420e-01 -1.255044e+00  3.503645e+00
##   [4311,] -7.487958e-01  1.606945e+00  1.008413e+00  7.980293e-01
##   [4312,]  1.263452e+00  1.672059e-01  1.162701e+00  2.607261e+00
##   [4313,] -7.911862e-01 -7.111394e-01 -3.591915e-01  1.188537e+00
##   [4314,] -6.793628e-01  7.634955e-01 -1.895545e+00  2.831030e+00
##   [4315,] -4.002249e-01  8.937381e-01  3.602676e-02  1.087630e-01
##   [4316,]  5.983826e-01  5.172133e-01 -1.615789e+00  6.908781e-01
##   [4317,] -9.212049e-01  2.882159e-01  9.571098e-01  1.288388e+00
##   [4318,]  1.183291e+00  9.946369e-01  1.221847e+00  5.198833e-01
##   [4319,] -2.469298e-01  1.789681e+00 -2.854692e-01  3.379157e-01
##   [4320,] -4.314720e-01 -7.467152e-01  9.187742e-01  3.261480e+00
##   [4321,] -2.174203e-01 -2.177185e-01  1.183582e-01  1.856751e-01
##   [4322,] -7.785999e-01  1.021598e+00 -1.849382e+00  7.839199e-01
##   [4323,] -7.473425e-01  7.510682e-01 -8.911808e-02  6.400435e-01
##   [4324,] -8.894034e-01  5.295063e-01 -3.643667e-01  9.133473e-01
##   [4325,]  1.660970e-01 -1.917079e-01  1.027189e+00  2.961737e+00
##   [4326,] -5.206167e-01  1.076549e+00  1.404965e+00  1.499668e-01
##   [4327,] -5.918008e-01  7.594046e-01 -2.182625e+00  1.548374e+00
##   [4328,]  1.376494e+00 -1.957094e-01  1.080117e+00  9.781316e-01
##   [4329,] -8.184248e-02 -1.099433e+00 -3.756393e-01  2.729692e+00
##   [4330,] -1.175090e+00 -6.938620e-01  7.884288e-01  1.653663e+00
##   [4331,]  1.169495e+00  6.760023e-01 -1.493529e+00  2.369127e+00
##   [4332,]  1.111428e+00 -9.462344e-02  1.289378e+00  5.030800e-01
##   [4333,]  1.050787e+00 -4.253022e-01 -2.147454e-03  4.398345e-01
##   [4334,] -2.099335e+00  4.353824e-01 -1.448475e+00  1.494740e+00
##   [4335,] -1.579426e-01 -6.497237e-01  3.037866e-01  2.402362e+00
##   [4336,] -1.081954e+00 -6.976757e-01 -1.553364e+00  7.594281e-01
##   [4337,] -1.509592e+00 -1.311948e-01 -1.448994e-01  8.346962e-01
##   [4338,]  1.083450e+00  1.579344e+00 -1.685808e-01  6.099473e-01
##   [4339,]  7.049694e-01 -2.846876e-01  1.044122e+00  2.960977e+00
##   [4340,]  6.764407e-01 -7.648945e-02 -3.921792e-01  9.438457e-01
##   [4341,]  8.423999e-01  2.811531e-01 -1.125816e+00  2.950550e+00
##   [4342,] -2.363349e-01 -2.247944e-01 -1.760803e+00  8.101689e-01
##   [4343,]  5.707853e-01 -9.783199e-02 -7.360693e-02  1.037946e+00
##   [4344,] -3.261420e-02  6.310603e-01  1.400353e+00  4.266676e-01
##   [4345,] -3.042461e+00 -2.655936e-01 -2.409939e-01  8.296530e-01
##   [4346,] -8.475505e-01  2.388121e+00  1.009484e+00  2.861238e+00
##   [4347,]  6.991706e-01 -2.571069e-01  9.870990e-01  1.117254e+00
##   [4348,]  1.033406e-01 -2.654222e-01  8.619219e-01  1.297717e+00
##   [4349,]  1.244338e+00 -8.362491e-02 -1.041501e-01  2.457979e+00
##   [4350,] -2.518786e-01  2.262369e+00 -2.264573e-01  2.263213e+00
##   [4351,]  7.459308e-01  1.048732e-01  5.737554e-02  2.992058e+00
##   [4352,]  1.478214e+00  1.136135e-01 -5.464789e-01  8.942202e-01
##   [4353,]  1.222691e+00  3.706059e-02 -1.332030e+00  5.838465e-01
##   [4354,] -3.379528e+00  5.133148e-02 -1.897541e+00  1.105007e+00
##   [4355,] -9.280628e-02  7.268705e-02 -1.317580e+00  2.841200e+00
##   [4356,]  1.099634e+00  3.754058e-01 -8.038601e-01  4.281062e-01
##   [4357,] -7.461450e-02  2.408556e-01 -1.138531e+00  2.720077e+00
##   [4358,]  5.193680e-01 -3.788972e-02  1.211170e+00  6.130153e-01
##   [4359,] -2.176933e+00 -1.919290e-01  1.074030e+00  2.912657e+00
##   [4360,] -1.291472e+00  2.837406e-01  6.365725e-01  1.722166e+00
##   [4361,]  2.451392e-01 -3.130558e-01  9.021563e-01  3.152354e+00
##   [4362,]  1.295176e+00  8.794998e-01  1.017771e+00  2.657593e+00
##   [4363,] -6.893718e-01  1.092713e+00  1.096616e+00  2.613458e+00
##   [4364,] -8.925461e-01  2.605554e+00 -4.606393e-01  2.183720e+00
##   [4365,]  6.150999e-01  2.651071e+00  9.998262e-01  9.198399e-01
##   [4366,]  5.272064e-01  1.470586e-02  3.915933e-01  4.958976e-01
##   [4367,]  5.450076e-01  1.421459e-01  9.873620e-01  2.890154e+00
##   [4368,] -2.443764e+00  1.675320e-01 -1.354876e-01  6.731303e-01
##   [4369,]  5.810583e-01 -5.819388e-01 -2.903106e-01  1.018661e+00
##   [4370,]  1.237308e-01 -5.148378e-01 -1.455876e-01  9.413743e-01
##   [4371,] -1.548680e+00  8.288266e-01 -1.460668e-01  1.841058e-01
##   [4372,] -6.139466e-01  7.612921e-01 -3.945374e-01  8.687499e-01
##   [4373,] -4.361106e-01  1.424035e-01 -2.220175e+00  1.890485e+00
##   [4374,] -2.618293e+00  7.037480e-01  1.252170e+00  2.391648e+00
##   [4375,]  5.014214e-01  5.531188e-01 -1.736447e+00  5.653932e-01
##   [4376,]  8.724837e-02 -7.232093e-02  6.739637e-01  1.692999e+00
##   [4377,]  1.310015e+00  1.805605e-01  1.002304e+00  2.979739e+00
##   [4378,]  1.045208e+00 -6.744707e-01  1.607941e+00  1.960656e+00
##   [4379,]  4.126231e-01  2.105013e+00 -1.586438e+00  5.848215e-01
##   [4380,] -1.463592e+00 -8.015467e-01  7.607416e-01  1.608330e+00
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##   [4382,]  5.949249e-01  1.140492e+00 -5.531808e-01  2.715080e+00
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##   [4384,] -9.006279e-01  1.058308e+00  1.447005e+00  4.449156e-02
##   [4385,] -1.681630e-01  1.786087e+00 -9.285732e-02  8.199814e-01
##   [4386,]  6.457603e-01 -5.243646e-02 -1.454618e+00  2.695531e+00
##   [4387,]  1.355486e+00  6.092597e-02 -1.646478e+00  5.508485e-01
##   [4388,] -1.229667e+00  3.804368e-01  7.279062e-01  1.426819e+00
##   [4389,]  1.356305e+00  7.611136e-02 -1.715028e+00  5.775862e-01
##   [4390,] -1.408033e+00 -3.588835e-02  1.348724e+00  4.791002e-01
##   [4391,]  4.323709e-01  3.374577e-01 -2.485929e-01  7.779674e-01
##   [4392,] -5.377655e-02 -1.101729e+00 -2.011229e-02  2.607788e+00
##   [4393,] -7.550508e-01  1.361363e+00 -1.117481e+00  2.219458e+00
##   [4394,]  7.708889e-01  1.956814e+00  5.430422e-01  1.794324e-02
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##   [4397,]  7.692234e-01  1.463169e-01  9.152682e-01  1.046540e+00
##   [4398,] -3.487323e-01 -7.445914e-01 -1.085843e+00  2.303380e+00
##   [4399,]  8.938920e-02  4.245210e-03 -4.220370e-01  3.056588e+00
##   [4400,]  1.424749e+00  3.077772e-01  3.686285e-01  1.157390e+00
##   [4401,]  5.395986e-01  4.922906e-01 -8.215146e-01  4.760658e-01
##   [4402,] -2.972279e+00  1.562733e+00 -7.091738e-01  1.010388e+00
##   [4403,] -2.843792e+00 -3.072048e-01  8.465546e-01  1.459902e+00
##   [4404,] -9.873677e-01 -6.617984e-01  1.040409e+00  1.060145e+00
##   [4405,] -1.859721e-01 -1.493641e+00  2.013917e-01  2.995959e-01
##   [4406,] -1.039628e+00 -1.625585e+00 -1.495596e-01  2.608119e+00
##   [4407,] -1.159685e+00 -4.181106e-01  1.733388e+00  1.915263e+00
##   [4408,] -5.084038e-02  2.171855e-01  8.061897e-02  1.381369e+00
##   [4409,] -1.554372e-01  2.032742e-01  1.114138e+00  7.339009e-01
##   [4410,]  1.214942e+00  1.529703e-01 -1.697664e+00  2.425056e+00
##   [4411,] -1.096136e+00  1.519896e+00 -1.515348e-01  1.395605e+00
##   [4412,]  3.868569e-01 -1.459136e-02  1.133290e+00  2.449167e+00
##   [4413,]  3.550816e-01  2.324245e+00 -2.250533e-01  2.512854e-01
##   [4414,]  1.208882e+00  1.753589e-01 -1.226881e-01  7.390575e-01
##   [4415,] -1.875703e-01 -1.589427e+00 -1.262395e+00  2.052151e+00
##   [4416,] -7.911034e-01  1.626518e+00  1.169796e+00  7.832307e-01
##   [4417,]  7.640934e-01  3.341233e-01  8.828175e-01  3.178714e+00
##   [4418,] -6.431506e-01  2.802412e+00  3.455206e-01  1.056153e+00
##   [4419,] -2.280413e+00  1.224362e+00  6.256694e-01  9.800383e-01
##   [4420,]  6.363163e-01  1.816242e-01 -1.048948e-01  2.461829e+00
##   [4421,]  1.355342e+00  1.228697e+00 -2.054264e+00  1.273668e+00
##   [4422,]  1.121992e+00 -6.032098e-01  1.346107e+00  4.671501e-01
##   [4423,]  6.018486e-01  8.901573e-01 -1.838622e+00  1.144541e+00
##   [4424,]  1.176407e+00 -2.081589e-01 -1.348055e+00  7.042372e-01
##   [4425,]  6.045161e-01 -5.598973e-01  1.227214e+00  2.679141e+00
##   [4426,] -2.070683e-01  1.115428e+00  1.332680e+00  3.605340e-01
##   [4427,] -7.646017e-02  1.535128e+00  8.492680e-01  7.948165e-01
##   [4428,]  5.162529e-01 -2.639003e-01 -2.124308e-01  8.868420e-01
##   [4429,]  2.741605e-02  1.160817e-01  1.223087e-01  1.099189e+00
##   [4430,] -6.911191e-01 -9.296621e-01 -1.741564e+00  2.756688e+00
##   [4431,]  1.388381e-02  9.733830e-02 -2.593516e-01  1.311322e+00
##   [4432,] -6.970345e-02 -1.870258e-01  1.006162e+00  1.085774e+00
##   [4433,] -2.417574e+00 -5.116049e-01  7.008946e-02  6.166388e-01
##   [4434,] -2.332843e+00  3.217356e-02  8.016087e-01  9.023606e-01
##   [4435,]  1.420763e+00  4.262597e-01  8.791429e-01  2.853361e+00
##   [4436,]  1.034758e+00  1.192659e+00  1.177550e+00  4.846075e-01
##   [4437,]  9.031870e-01  1.585478e+00  1.235553e+00  2.198973e+00
##   [4438,]  1.287001e+00 -3.015948e-01  1.125627e+00  8.910719e-01
##   [4439,]  1.447538e+00 -5.563427e-02  9.616236e-01  1.055146e+00
##   [4440,]  1.187370e+00 -3.985650e-01 -1.818880e-01  7.736144e-01
##   [4441,]  1.213151e+00  5.345209e-01 -1.591977e+00  9.158540e-01
##   [4442,]  1.343225e+00 -1.913141e-01 -4.235434e-01  1.180104e+00
##   [4443,] -1.372638e+00  1.395781e+00  1.263104e+00  2.536776e+00
##   [4444,]  4.394182e-01 -3.207345e-01 -1.525742e+00  3.938665e-01
##   [4445,] -9.306032e-01 -1.086400e+00  9.697398e-02  2.407796e+00
##   [4446,]  6.601928e-01  9.122886e-01 -8.962558e-01  2.799684e+00
##   [4447,] -2.383657e+00  2.919657e-01  1.146186e+00  8.347658e-01
##   [4448,] -3.350298e+00 -5.810379e-01 -5.316476e-01  1.121527e+00
##   [4449,] -6.081463e-01  6.559006e-01  1.153053e+00  2.721916e+00
##   [4450,]  1.394281e+00  5.961511e-01 -5.575513e-02  9.509795e-01
##   [4451,] -1.718849e-01 -5.405531e-01 -1.449612e+00  5.251843e-01
##   [4452,] -2.210612e+00  6.082918e-01  6.070089e-01  2.866449e+00
##   [4453,] -1.430242e+00  1.163360e+00  4.811994e-01  7.328941e-01
##   [4454,] -1.110337e-01  4.076730e-01 -4.695523e-01  1.027215e+00
##   [4455,]  1.191132e+00  3.440248e-01  1.200494e+00  2.577185e+00
##   [4456,] -1.711664e+00 -5.210849e-01  1.374032e+00  4.047594e-01
##   [4457,] -2.234347e+00 -3.645087e-01  1.046074e+00  1.116197e+00
##   [4458,]  2.718781e-02  1.773019e-01  1.016774e-01  3.205434e+00
##   [4459,]  1.834468e-01  1.661044e-01  7.152566e-01  1.450391e+00
##   [4460,]  4.873236e-01  1.227969e-01 -1.414336e-01  5.521324e-01
##   [4461,] -3.357407e-01 -9.503109e-01  5.526805e-02  2.384422e+00
##   [4462,]  6.905699e-02 -2.362682e-01  2.506293e-01  1.177844e+00
##   [4463,]  8.943029e-01  6.541506e-01  8.181009e-01  1.363582e+00
##   [4464,]  2.973794e-01  2.691708e-01 -7.689147e-01  4.209229e-01
##   [4465,]  1.415863e+00  6.103528e-01 -2.120037e+00  1.260132e+00
##   [4466,] -2.688359e-01  6.739520e-01  9.838787e-01  9.375325e-01
##   [4467,]  3.526386e-01  9.393979e-01  1.104682e+00  6.738406e-01
##   [4468,]  5.230143e-02 -6.651390e-01 -7.696763e-02  2.780472e+00
##   [4469,]  1.307503e+00  3.149150e-01 -4.102271e-01  1.030866e+00
##   [4470,]  7.684920e-01 -1.703254e-01 -6.758459e-02  2.750616e+00
##   [4471,] -1.322863e+00  1.787535e+00  1.014500e+00  3.099141e+00
##   [4472,]  4.843073e-01 -1.039464e+00 -1.372620e+00  2.143119e+00
##   [4473,] -8.154647e-01 -7.025046e-01 -2.386623e-01  9.255838e-01
##   [4474,] -8.651385e-01  9.285263e-01  1.194678e+00  6.281439e-01
##   [4475,]  8.834601e-02  1.300094e+00  4.451177e-01  2.788420e+00
##   [4476,] -2.073301e-01 -1.059195e+00  2.021801e-01  2.887490e-01
##   [4477,]  1.995825e-01  3.337858e-01  7.316433e-01  1.488554e+00
##   [4478,]  1.312379e+00 -1.107314e-01 -1.753027e+00  1.053687e+00
##   [4479,]  5.637018e-01  2.588679e+00 -1.771255e-01  7.314686e-01
##   [4480,]  8.272920e-01 -9.656046e-02  1.011046e+00  2.963969e+00
##   [4481,]  1.484967e-01  9.852118e-02 -9.306562e-02  1.083332e+00
##   [4482,]  1.134512e-01 -4.873523e-01 -1.189534e+00  2.967717e+00
##   [4483,]  7.675303e-01 -1.670201e-01  1.051070e+00  2.914872e+00
##   [4484,]  4.610267e-01 -2.420101e-01 -1.151110e-01  5.523871e-01
##   [4485,]  2.973468e-01 -4.118417e-01  4.966913e-01  8.386394e-02
##   [4486,] -1.513080e+00  9.574085e-01 -1.173114e+00  7.575774e-01
##   [4487,]  4.327150e-01  4.632485e-01  1.373537e+00  2.465084e-01
##   [4488,] -6.666504e-01  1.182674e-01 -3.660919e-01  3.363661e+00
##   [4489,]  9.099275e-01  2.361477e-01 -1.970457e+00  1.408059e+00
##   [4490,] -5.557075e-01  1.421808e+00  9.052478e-01  1.113176e+00
##   [4491,] -1.243047e+00 -6.623226e-01 -6.500147e-01  3.275939e+00
##   [4492,]  1.219042e+00  6.682021e-01 -1.389753e-01  2.641554e+00
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##   [4493,] -6.006581e-01  5.636190e-01 -2.090857e+00  1.311048e+00
##   [4494,]  1.218829e+00  4.688235e-01  4.868331e-01  9.459432e-01
##   [4495,]  7.057593e-01  3.347116e-01 -3.184518e-01  8.841506e-01
##   [4496,] -2.278696e-01  1.453203e+00 -1.226454e-01  4.151664e-01
##   [4497,]  1.441723e+00  2.002736e-01  1.177106e+00  2.683558e+00
##   [4498,]  8.493626e-02 -1.108439e+00  1.300178e+00  2.639898e+00
##   [4499,] -7.027046e-02  6.269346e-01  1.284897e+00  4.803827e-01
##   [4500,]  6.618786e-01  9.562290e-01 -1.069055e+00  2.954418e+00
##   [4501,] -2.836295e-02  4.304317e-01 -1.913339e+00  8.856982e-01
##   [4502,]  7.130494e-01  3.218696e-01 -1.730853e-01  2.646926e+00
##   [4503,]  3.945840e-01 -1.588642e-02  9.679024e-01  2.455061e+00
##   [4504,] -8.357135e-01 -3.852728e-01 -3.853036e-01  1.079663e+00
##   [4505,]  6.601021e-01  5.344396e-01 -1.924196e+00  2.796477e+00
##   [4506,] -1.882153e+00  1.694776e+00  7.837386e-02  4.969809e-01
##   [4507,]  6.770070e-01  4.134364e-01 -7.004706e-02  2.701357e+00
##   [4508,]  7.449527e-01 -7.659119e-01 -3.105495e-01  1.054137e+00
##   [4509,]  2.578637e-01 -7.971040e-01  1.521024e+00  2.155787e-01
##   [4510,]  1.122489e+00  2.524779e-01  1.425826e+00  2.749500e-01
##   [4511,] -1.187710e+00  2.059419e+00  1.230360e+00  2.361659e-01
##   [4512,]  1.332990e+00  2.352159e-01 -1.776295e+00  2.981763e+00
##   [4513,]  5.476443e-01  2.866844e-01 -1.402465e+00  1.002479e+00
##   [4514,]  1.914818e-01 -4.355871e-01  4.354923e-01 -1.719750e-01
##   [4515,] -2.822559e+00 -3.352249e-01  1.217693e-01  1.158329e+00
##   [4516,]  1.305945e+00 -2.494380e-01  1.066326e+00  2.918141e+00
##   [4517,] -4.804371e-01 -1.127429e-01  9.424969e-01  3.202707e+00
##   [4518,] -5.973865e-01  1.049911e+00 -1.966704e+00  3.337035e+00
##   [4519,] -3.084924e+00  3.625387e-01  1.091147e+00  1.033931e+00
##   [4520,]  3.001914e-01  2.130785e+00 -1.816077e-01  1.748316e-01
##   [4521,]  1.465129e-01 -2.298919e-01 -1.128132e+00  1.330487e+00
##   [4522,]  1.568055e-01 -1.183805e-01 -3.970857e-01  1.110140e+00
##   [4523,] -3.961867e-01  1.166321e+00 -1.717051e-01  4.164927e-01
##   [4524,] -5.268679e-01 -6.266335e-01  1.373175e-01  1.166063e+00
##   [4525,] -2.914970e+00 -3.104576e-01  6.137926e-01  9.401528e-01
##   [4526,]  1.110089e+00  1.649937e-01  1.271521e+00  5.255097e-01
##   [4527,] -5.517427e-01 -8.201403e-01 -4.657766e-01  1.342218e+00
##   [4528,]  5.798198e-02  6.459533e-01  9.349214e-01  9.876528e-01
##   [4529,]  1.127803e+00  1.391952e+00 -4.063712e-01  8.107570e-01
##   [4530,]  2.138143e-01  1.407363e+00  1.445608e+00  3.409631e-02
##   [4531,]  3.639295e-03 -4.149238e-01  8.847464e-01  3.284024e+00
##   [4532,] -1.675531e+00  1.067749e-01 -4.120457e-01  2.613272e+00
##   [4533,]  1.293773e+00  5.356218e-01  9.369678e-01  1.031170e+00
##   [4534,] -1.613284e+00  8.801424e-01 -1.786564e+00  6.745433e-01
##   [4535,]  1.305634e-01 -4.920445e-01 -3.582217e-01  2.750915e+00
##   [4536,]  4.526148e-01  2.561119e-01  9.756294e-01  3.634274e-01
##   [4537,]  9.834163e-01  1.518244e+00  1.189521e+00  2.257230e+00
##   [4538,] -1.006148e+00  2.549774e-01  1.465980e+00  2.067092e-01
##   [4539,] -6.154377e-02 -1.236444e-01  9.000271e-01  8.152238e-01
##   [4540,]  1.160281e-01  5.266896e-01 -1.808791e+00  2.820986e+00
##   [4541,]  8.425541e-02  2.097180e-01 -5.515814e-01  1.493215e+00
##   [4542,]  7.323925e-01  3.518738e-01 -3.833256e-01  9.065696e-01
##   [4543,]  1.162715e+00  4.455985e-01  1.141118e+00  2.549419e+00
##   [4544,] -5.405291e-03 -5.765745e-01  9.745383e-01  1.195202e+00
##   [4545,] -1.135945e+00 -2.305267e-01 -2.211999e+00  3.581972e+00
##   [4546,]  8.368099e-02 -2.967522e-01 -1.928212e+00  1.058779e+00
##   [4547,]  7.324448e-01 -4.022438e-02  3.268386e-01  2.927746e+00
##   [4548,] -1.787759e+00  1.135226e+00  2.959186e-01 -1.094924e-01
##   [4549,]  1.122191e+00  3.077168e-01 -1.226590e-01  2.476026e+00
##   [4550,]  5.618727e-01  4.191200e-01  1.167348e+00  8.328096e-01
##   [4551,]  6.321961e-02 -1.596505e-01 -6.154487e-01  1.139514e+00
##   [4552,]  1.137895e-01  1.687587e+00 -3.182289e-01  1.011070e+00
##   [4553,] -7.823346e-02 -5.786396e-01  9.922033e-01  1.219055e+00
##   [4554,] -7.510897e-01  2.481760e-01  1.108652e+00  8.335024e-01
##   [4555,]  7.202700e-02  1.835731e-01  8.969010e-01  1.256344e+00
##   [4556,]  7.715042e-01  1.069449e+00 -7.810927e-02 -2.070951e-01
##   [4557,] -1.793004e-01 -3.928064e-01  1.243214e+00  5.985111e-01
##   [4558,]  5.112418e-01  1.872476e-01 -1.668431e+00  8.824642e-01
##   [4559,] -9.168480e-01  1.069345e+00  1.510538e+00  1.845389e+00
##   [4560,] -6.972849e-01 -7.793945e-01 -1.102182e+00  9.458011e-01
##   [4561,]  7.900949e-01  6.399810e-01  8.227364e-01  1.243481e+00
##   [4562,]  1.826075e-03  1.624800e+00  1.069804e+00  2.624257e+00
##   [4563,] -5.440071e-01 -7.121998e-01 -8.241769e-02  2.923059e+00
##   [4564,]  1.043710e+00  7.998770e-01 -1.046632e+00  1.926559e+00
##   [4565,]  1.584580e-01 -3.724142e-01  9.845325e-01  1.094270e+00
##   [4566,] -4.466425e-01  8.553784e-01  2.470932e-01  1.315937e+00
##   [4567,] -8.510430e-01 -9.001414e-01 -1.934116e+00  3.119833e+00
##   [4568,] -7.488873e-01 -3.593949e-01  1.301683e+00  2.530543e+00
##   [4569,] -1.258140e+00 -5.495526e-01 -2.073593e+00  3.443374e+00
##   [4570,]  1.348013e+00  1.465498e-01  9.380193e-01  1.109382e+00
##   [4571,]  1.266284e-01  1.281667e-02  7.309778e-02  1.544977e+00
##   [4572,] -8.549109e-01  1.142831e+00  1.217973e+00  4.820886e-01
##   [4573,]  1.456444e+00  9.952499e-01  4.579755e-01  9.663110e-01
##   [4574,] -7.946458e-01 -7.853999e-01 -2.878230e-01  1.151334e+00
##   [4575,]  3.974579e-01  7.575869e-01 -6.624820e-02  2.543264e+00
##   [4576,] -5.615206e-01  6.812194e-01  9.795494e-01  2.964006e+00
##   [4577,]  1.137548e+00 -1.197282e+00  1.600827e+00  1.382414e-01
##   [4578,] -1.298247e+00  1.257977e+00  9.825963e-01  9.172466e-01
##   [4579,]  4.024989e-01  1.027572e+00 -8.191405e-01  2.646241e-01
##   [4580,] -7.808398e-01  5.070116e-01 -1.915112e+00  1.131424e+00
##   [4581,]  3.853339e-01 -2.472035e-01  6.064644e-02  2.195711e+00
##   [4582,] -1.017526e+00  5.797871e-01 -1.222617e-02  4.159618e-01
##   [4583,]  1.258092e+00  4.412181e-01 -1.305636e+00  8.534563e-01
##   [4584,]  4.237986e-01 -6.591539e-01  1.380165e+00  4.083345e-01
##   [4585,] -4.349240e-01  1.320647e+00  1.219244e+00  4.014164e-01
##   [4586,] -6.331038e-01  9.324291e-01  7.151754e-01  1.186027e+00
##   [4587,] -9.945714e-01  1.290193e+00  1.337460e+00  1.759825e-01
##   [4588,]  3.865878e-01 -1.829806e-01 -1.730170e-01  3.092612e-01
##   [4589,] -7.136860e-01 -6.799607e-01 -7.145227e-01  1.346711e+00
##   [4590,]  1.435139e+00  5.348077e-01  7.096923e-01  1.499955e+00
```

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##   [4591,]  1.430022e+00  7.811395e-01  9.708188e-01  9.206132e-01
##   [4592,] -9.180217e-01  8.524517e-01 -2.354432e-01  1.021971e+00
##   [4593,] -6.627643e-01 -4.856827e-01 -1.719041e+00  1.049663e+00
##   [4594,]  4.960418e-02  3.365309e+00 -1.622698e+00  1.371931e+00
##   [4595,] -7.738025e-01  1.560738e+00  9.347360e-01  2.972667e+00
##   [4596,] -1.403396e-02  7.988783e-01 -1.062713e+00  2.524765e+00
##   [4597,]  9.452835e-01  4.296548e-01  8.729099e-01  3.282751e+00
##   [4598,]  4.310916e-01 -6.179903e-01 -1.542211e+00  3.617174e-01
##   [4599,] -4.658989e-01  2.604491e+00  1.204922e+00  2.414843e-01
##   [4600,] -1.611955e+00  1.865300e+00  5.399569e-01  1.148153e+00
##   [4601,] -7.463206e-01  5.873993e-01  8.211548e-01  1.440733e+00
##   [4602,] -4.130793e-01  1.094474e+00 -2.257660e+00  1.601851e+00
##   [4603,] -8.742377e-01 -5.411797e-01  1.030759e+00  1.033732e+00
##   [4604,] -1.309911e-01 -7.221015e-01  5.182764e-02  5.161267e-01
##   [4605,] -2.129685e+00  5.943761e-01 -3.632913e-02  3.048654e+00
##   [4606,] -6.689413e-01  2.749615e+00  8.950152e-01  8.165142e-01
##   [4607,]  1.274518e+00 -2.685156e-01 -2.925942e-01  2.388345e+00
##   [4608,] -5.177605e-01  8.112621e-01  1.159188e-01  9.108076e-01
##   [4609,]  1.414765e+00  6.016466e-01  4.453822e-01  1.312028e+00
##   [4610,] -7.618528e-01 -1.081918e+00 -1.656563e-01  7.505082e-01
##   [4611,]  3.036697e-01  1.980412e+00  1.212970e+00  2.463446e-01
##   [4612,] -2.548897e-01  4.118213e-01  1.380929e+00  1.985276e-01
##   [4613,] -1.808733e-01  2.781419e+00  1.116240e+00  4.778528e-01
##   [4614,] -6.360770e-02 -6.563007e-01  1.334390e-01  7.929836e-01
##   [4615,]  1.226365e-01 -5.927380e-02  4.092778e-01  1.307712e+00
##   [4616,]  1.445370e+00  1.248166e+00  4.313013e-02  1.131300e+00
##   [4617,]  8.567034e-01  2.546296e-01  5.227611e-01  3.171730e+00
##   [4618,] -1.012444e+00 -1.534864e-01  1.632438e+00 -6.716005e-02
##   [4619,] -9.307093e-01  1.145655e+00 -1.065885e-01  8.667172e-01
##   [4620,] -1.515415e+00  1.086018e+00 -1.340661e+00  2.124866e+00
##   [4621,] -4.349177e-01 -7.287343e-01 -7.507000e-01  3.223235e+00
##   [4622,] -3.648532e+00 -1.272019e+00 -9.633730e-01  2.140904e+00
##   [4623,]  2.797411e-02  9.810988e-01  9.589385e-01  1.117990e+00
##   [4624,] -1.007084e+00  1.247141e+00  1.435641e+00  1.138225e-01
##   [4625,] -1.251234e-01  2.095194e-01  1.293404e-01  9.767870e-01
##   [4626,] -8.998574e-01  3.946303e-02 -1.980205e+00  3.107964e+00
##   [4627,]  5.985378e-01  1.188946e+00 -3.058597e-01  3.041084e+00
##   [4628,] -4.995552e-01 -4.057716e-01  8.364948e-01  1.502045e+00
##   [4629,] -7.152028e-02 -4.949738e-01  2.654904e-01  8.100008e-01
##   [4630,]  9.657170e-01  6.888298e-01 -5.517014e-01  3.441384e-01
##   [4631,] -1.977916e+00 -1.964521e-01  2.794411e-01  1.820933e+00
##   [4632,]  1.426947e+00  9.239072e-02  9.783330e-01  1.019480e+00
##   [4633,]  6.134344e-02  2.314148e-01  3.783475e-01  1.633243e+00
##   [4634,]  8.059912e-01 -1.104858e-01 -3.758942e-01  1.069327e+00
##   [4635,]  1.428502e+00  1.084967e+01  1.041214e+00  2.006930e+00
##   [4636,]  4.459312e-02  1.825493e+00  6.920600e-01  7.548088e-03
##   [4637,]  6.650870e-01  7.750948e-02 -2.083507e+00  1.255630e+00
##   [4638,]  1.304983e+00  1.873235e-01  8.757209e-01  1.138929e+00
##   [4639,] -6.861105e-01 -3.918542e-01 -1.880309e+00  9.998406e-01
##   [4640,]  9.118039e-02  2.352670e-01 -5.791111e-01  3.064713e+00
##   [4641,] -3.892128e-01  1.224625e+00 -1.087708e+00 -5.104697e-02
##   [4642,]  6.893552e-01 -2.979372e-01 -1.624520e+00  8.139582e-01
##   [4643,]  4.267147e-01 -2.354175e-01  1.435602e+00  2.104296e+00
##   [4644,] -4.571173e-01 -1.509298e+00 -7.267770e-01  1.975986e+00
##   [4645,]  3.536784e-01 -1.242741e+00  8.424450e-01  1.847187e+00
##   [4646,] -2.739026e-01  1.002694e+00  2.167145e-02  9.526748e-01
##   [4647,]  2.180704e-01  3.336296e-01  1.294132e-01  3.000301e+00
##   [4648,]  1.435584e+00  1.044106e+00  3.946110e-01  1.402851e+00
##   [4649,]  1.303243e+00  7.847482e-01 -1.659358e+00  2.698390e+00
##   [4650,] -7.997262e-02  1.339142e+00 -3.664815e-01  7.294956e-01
##   [4651,] -3.856580e-01  7.355411e-01  5.847245e-01  1.897152e+00
##   [4652,] -1.017018e+00  7.652960e-01 -1.828030e+00  1.089487e+00
##   [4653,]  1.758448e-02 -6.362445e-01  1.283348e+00  2.547429e+00
##   [4654,]  4.095043e-01  3.590299e-01  1.489741e+00  2.402104e-01
##   [4655,] -1.419732e+00  1.044770e+00 -3.368940e-01  5.744335e-01
##   [4656,] -1.166283e+00  8.109661e-01  1.595164e+00 -1.134979e-01
##   [4657,] -2.264846e+00  8.140748e-01 -8.593958e-02  8.944288e-01
##   [4658,] -3.079392e-01 -7.881565e-01  1.330176e+00  6.332781e-01
##   [4659,] -3.891387e-02 -9.434068e-01  2.268190e-01  1.028799e+00
##   [4660,]  9.288641e-01  6.376514e-01 -4.798665e-01  1.317881e-01
##   [4661,]  6.628552e-02  5.366960e-01  1.072009e+00  2.975872e+00
##   [4662,] -2.877935e-01  5.180918e-02 -2.125801e-01  7.909756e-01
##   [4663,]  6.588134e-01  3.239589e-01  1.093550e+00  2.896889e+00
##   [4664,]  1.109087e+00  1.766451e+00 -5.371479e-01  6.687654e-01
##   [4665,] -7.043812e-01 -1.016551e+00 -2.709762e-01  1.132813e+00
##   [4666,] -1.742091e+00  2.074224e+00 -1.051686e-01  5.360875e-01
##   [4667,]  2.607891e-01  2.969352e-01  1.916303e-01  1.353329e+00
##   [4668,] -2.153483e-01 -5.859277e-01  4.525445e-01  8.690269e-01
##   [4669,] -4.920287e-01 -1.078519e-01 -7.950627e-01  3.359882e+00
##   [4670,]  7.061674e-01  2.710769e-01 -3.514364e-01  1.013254e+00
##   [4671,]  4.842415e-01  1.440318e-02 -7.532586e-02  5.150435e-01
##   [4672,] -1.370759e-01  3.921817e-01 -1.392184e-01  2.263229e-01
##   [4673,] -1.582989e+00  1.566121e+00  1.104783e+00  5.116037e-01
##   [4674,] -2.710793e-01 -1.175331e+00 -7.596720e-01  4.172466e-01
##   [4675,]  4.367928e-01  7.048643e-01 -2.775680e-01  2.460373e-01
##   [4676,]  8.370626e-01  1.725284e+00 -3.210117e-02  8.635677e-01
##   [4677,]  1.175391e+00  1.844580e+00  1.265561e+00  2.247427e+00
##   [4678,] -7.848974e-01  2.280076e+00 -1.448407e-01  3.812093e-01
##   [4679,] -5.276751e-01 -1.028402e-01 -1.911383e-02  1.673314e+00
##   [4680,]  2.200528e-01 -4.895609e-01 -1.929873e+00  2.994570e+00
##   [4681,] -2.373684e+00  7.316709e-01 -3.117885e-01  1.085486e+00
##   [4682,] -1.459505e+00  1.150205e-01  7.125537e-01  5.854574e-01
##   [4683,] -1.171889e+00 -1.027469e+00  1.470388e+00  2.585371e-01
##   [4684,] -1.239908e+00 -6.624627e-02  1.136081e+00  8.823610e-01
##   [4685,]  6.809493e-01  1.347787e-01 -3.468239e-01  8.644593e-01
##   [4686,]  1.055040e+00  2.235284e+00  9.486988e-01  7.911899e-01
##   [4687,]  5.623609e-01  1.399787e+00  4.160235e-01  9.397376e-01
##   [4688,]  5.157977e-01 -6.265133e-01  6.050258e-01  5.947105e-01
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##   [4689,]  3.347534e-01 -6.874589e-01  1.469733e+00  2.247137e+00
##   [4690,]  7.311094e-01 -4.836634e-01 -2.299320e-03  1.019686e+00
##   [4691,]  1.740762e-01 -3.644489e-01  1.374791e+00  1.920352e+00
##   [4692,]  6.151249e-01  3.263526e-01 -1.706355e+00  9.170853e-01
##   [4693,] -2.326312e+00  7.322436e-01 -1.579204e+00  1.219861e+00
##   [4694,] -7.223203e-01  1.489832e+00  2.085283e-01  6.984008e-01
##   [4695,]  1.750915e-02  4.784046e-01  9.579487e-01  1.061326e+00
##   [4696,]  4.232578e-01  3.377141e-02 -9.158324e-01  2.142159e+00
##   [4697,]  1.223369e+00  7.106699e-01  1.095406e+00  7.370239e-01
##   [4698,] -6.657950e-01  1.555591e-01  1.315717e+00  4.873496e-01
##   [4699,] -8.964760e-01 -1.392004e+00  1.315279e+00  8.286053e-01
##   [4700,] -2.130288e+00  5.312576e-01  7.161829e-01  1.501532e+00
##   [4701,]  5.230550e-01  7.621042e-02 -6.926426e-01  2.745903e+00
##   [4702,]  3.181516e-01  8.049415e-01  1.210854e+00  5.590056e-01
##   [4703,]  9.973374e-01  1.483932e+00  1.071687e+00  5.800799e-01
##   [4704,] -1.314669e-01  1.479123e+00  9.999120e-01  2.506616e+00
##   [4705,]  8.166432e-01  6.269864e-01 -5.239147e-02  1.177910e+00
##   [4706,]  1.334683e+00  9.014847e-01  9.715609e-01  8.988543e-01
##   [4707,] -1.190648e+00  2.013045e+00  1.872007e-01  1.193757e+00
##   [4708,]  2.891937e-01 -1.163464e-01 -4.593859e-01  1.405914e+00
##   [4709,]  7.524870e-01 -1.469687e-01 -6.669227e-01  1.117533e+00
##   [4710,]  9.582562e-01  5.533847e-01  6.911406e-02  3.168209e-01
##   [4711,]  1.133987e+00  1.416279e-01  9.513183e-01  7.268232e-01
##   [4712,] -1.846731e-02 -1.094380e+00 -1.655570e-01  8.745069e-01
##   [4713,] -1.839043e-02 -1.032066e+00  1.337673e-01  8.546531e-01
##   [4714,]  3.581989e-01  3.612661e-01 -1.675467e+00  5.291039e-01
##   [4715,] -5.281267e-01  1.051816e+00 -3.511144e-01  1.198355e+00
##   [4716,] -1.142445e+00  2.656920e+00  1.427348e-01  1.960173e+00
##   [4717,]  1.397587e+00  7.491010e-01 -3.975026e-01  1.248377e+00
##   [4718,] -8.546162e-01 -5.998502e-01  1.858115e-01  9.302125e-02
##   [4719,] -1.409108e-01 -4.597895e-01  2.062328e-01  2.898117e+00
##   [4720,]  1.324290e+00 -1.407022e-01  1.221220e+00  2.684196e+00
##   [4721,]  4.465613e-01  2.500062e+00  1.073307e+00  7.895321e-01
##   [4722,]  7.521077e-01 -2.236073e-01  1.667721e-01  1.242643e+00
##   [4723,] -2.345325e-02 -3.498725e-01 -1.581447e+00  2.731663e+00
##   [4724,] -7.458584e-01  7.961213e-01  9.485817e-01  9.395946e-01
##   [4725,] -7.816500e-01 -4.684448e-01  3.796112e-01  1.576305e+00
##   [4726,]  3.924048e-01 -8.426276e-01 -1.372119e+00  4.700950e-01
##   [4727,] -5.039676e-02 -9.183253e-01 -7.750744e-02  2.647843e+00
##   [4728,] -5.681543e-01 -1.115735e+00 -1.236907e+00  1.222833e+00
##   [4729,]  1.700573e-01  1.126005e-01 -2.015196e+00  1.443794e+00
##   [4730,] -7.352651e-01  1.123851e-01 -2.795809e-01  4.754667e-01
##   [4731,]  5.181028e-01  6.775082e-01 -1.419940e+00  6.915131e-01
##   [4732,]  6.417391e-01 -2.801898e-01 -1.094956e+00  8.251442e-01
##   [4733,] -2.133670e+00  1.062630e+00 -4.818204e-01  1.415744e+00
##   [4734,] -2.645168e-01  4.328448e-01  1.221376e-01  3.897552e-01
##   [4735,]  1.140056e+00 -6.149327e-01  1.324184e+00  5.095420e-01
##   [4736,]  6.136305e-01 -9.399787e-01  1.514364e-01  4.589849e-01
##   [4737,] -1.585668e+00 -1.015278e+00 -7.662335e-01  1.441605e+00
##   [4738,] -8.270860e-01 -1.109562e+00 -1.893480e-01  2.829791e+00
##   [4739,] -7.733698e-01  9.159497e-01 -2.400593e-01  3.252584e-01
##   [4740,]  7.936271e-01  3.898579e-01  8.542481e-01  1.221271e+00
##   [4741,] -2.768017e+00 -1.380335e-01  1.599402e+00  5.996751e-02
##   [4742,]  6.528017e-01  8.786001e-01  7.058789e-01  1.139627e+00
##   [4743,]  1.498420e+00  6.634123e-01 -8.846138e-01  1.011940e+00
##   [4744,] -1.490464e+00 -9.704098e-01 -3.976251e-01  1.292131e+00
##   [4745,] -1.069444e+00 -1.410071e+00 -2.087663e-01  2.531806e+00
##   [4746,] -2.554011e+00  6.537892e-01  3.372499e-01  2.260342e+00
##   [4747,] -1.217787e-01  2.222155e+00  1.199593e+00  2.291072e+00
##   [4748,] -1.515726e-01 -2.012520e-01  1.254480e+00  2.517308e+00
##   [4749,]  5.936490e-01 -2.852205e-01 -5.526698e-01  8.292880e-01
##   [4750,] -1.861805e-01 -1.169782e+00  6.652973e-01  2.161923e+00
##   [4751,]  6.105016e-01 -9.249267e-01 -4.173474e-02  2.538046e+00
##   [4752,] -1.249604e+00 -2.645609e-01 -2.035452e+00  1.680348e+00
##   [4753,]  7.428016e-01  9.394655e-01 -1.487400e+00  1.270445e+00
##   [4754,]  1.065632e+00  1.632750e+00  3.977461e-02  2.784962e-01
##   [4755,]  2.588466e-01  3.600553e+00  8.051782e-01  3.758022e+00
##   [4756,]  1.218461e+00  5.317392e-03 -1.805598e+00  7.175391e-01
##   [4757,]  1.156715e+00  1.842456e-01  4.204144e-02  2.193150e+00
##   [4758,]  4.032394e-01  2.869115e+00 -1.907618e+00  5.122252e-01
##   [4759,]  5.723597e-01 -8.283808e-01  7.834208e-01  6.084175e-01
##   [4760,]  1.404805e+00  4.900896e-02  9.262089e-01  1.218242e+00
##   [4761,]  8.123081e-01  4.077667e-01  1.076544e+00  2.948050e+00
##   [4762,] -5.763491e-01 -6.735727e-01 -1.745546e+00  3.069731e+00
##   [4763,] -8.812677e-01  8.956981e-01 -8.405608e-01  2.601970e+00
##   [4764,] -2.926783e-01 -2.182036e-01  1.237538e+00  7.370714e-01
##   [4765,]  1.455829e+00 -8.495238e-02  9.170340e-01  1.199474e+00
##   [4766,]  6.666013e-01 -2.835481e-01 -2.413729e-02  1.002529e+00
##   [4767,]  7.930860e-01  9.413168e-02  6.785097e-01  1.280858e+00
##   [4768,] -1.576741e+00  1.062581e+00 -1.724576e+00  8.051501e-01
##   [4769,] -2.338722e-01  9.879827e-01 -1.701022e-01  2.315585e+00
##   [4770,] -3.280469e-01 -1.819382e+00  1.750011e-01  4.403554e-01
##   [4771,] -1.283942e+00  5.470596e-01  8.284720e-01  1.296807e+00
##   [4772,]  1.905286e-01  9.031696e-01 -6.632245e-01  1.463356e+00
##   [4773,]  5.270379e-01  4.340684e-01  1.071349e+00  7.113060e-01
##   [4774,] -7.504059e-01  4.716102e-01  1.259299e+00  5.370188e-01
##   [4775,] -1.919543e+00  2.012390e-01  1.676649e+00 -1.030660e-01
##   [4776,]  6.190586e-01  3.383667e-01  8.596566e-01  1.240593e+00
##   [4777,] -3.988633e-01  2.847901e+00  1.231407e+00  2.236075e+00
##   [4778,] -5.983186e-01 -2.384177e-01 -6.181276e-01  1.224901e+00
##   [4779,]  6.409522e-01  8.834550e-01 -2.516749e-01  9.614694e-01
##   [4780,] -1.918109e+00  9.660514e-02  1.846882e-01  1.284582e+00
##   [4781,] -6.533382e-01  2.067962e-01  1.160616e+00  7.434884e-01
##   [4782,] -3.318289e+00  5.778407e-01 -1.524439e+00  1.334483e+00
##   [4783,] -1.172605e+00 -5.147776e-01  6.958140e-01  3.731824e+00
##   [4784,] -5.656083e-01  4.351070e-01  9.176826e-01  1.229149e+00
##   [4785,]  6.147234e-01  2.937827e-02 -3.609636e-01  9.067592e-01
##   [4786,]  2.145999e-01 -4.831344e-01 -1.900885e+00  2.974142e+00
```

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##   [4787,] -8.006792e-01  2.061074e-03 -1.510429e+00  3.337386e+00
##   [4788,] -1.847715e+00  3.269724e-01  3.012303e-01  5.917715e-02
##   [4789,] -6.646769e-01  2.669406e-01 -3.292834e-01  1.164031e+00
##   [4790,] -3.192984e+00 -1.133945e-01  6.554024e-01  7.558061e-01
##   [4791,]  2.820711e-01 -5.182383e-02 -6.257460e-01  1.387687e+00
##   [4792,] -1.261994e-02 -6.312153e-01 -2.874016e-01  6.338702e-01
##   [4793,] -3.407736e-01  6.678218e+00 -1.545352e+00  2.690156e+00
##   [4794,] -5.366691e-01  1.512675e+00  1.298466e+00  3.608341e-01
##   [4795,]  1.481170e+00  7.592615e-02  1.058587e+00  9.394444e-01
##   [4796,]  4.901152e-01 -5.928667e-01 -5.404956e-01  7.921714e-01
##   [4797,] -2.524427e+00  1.174326e+00  1.053216e+00  8.259377e-01
##   [4798,]  8.640176e-02 -1.189175e-01  9.604966e-01  1.152770e+00
##   [4799,]  5.194909e-01  7.597569e-01  4.483494e-01  2.281411e+00
##   [4800,]  2.121852e-01  9.763157e-02 -5.318541e-01  1.455575e+00
##   [4801,] -1.486935e+00  3.207633e-01  1.697598e-01  1.277730e+00
##   [4802,]  6.885412e-01  1.006382e+00 -9.034653e-01  1.077723e+00
##   [4803,] -8.686433e-01 -8.717272e-01 -1.102296e+00  2.321772e+00
##   [4804,] -5.299513e-02  8.339948e-01  9.348807e-01  1.044059e+00
##   [4805,] -1.132232e+00 -1.398427e+00 -5.054567e-01  5.783638e-01
##   [4806,]  1.059882e+00  4.263906e+00 -4.403940e-02  2.625112e-01
##   [4807,] -2.546709e+00  5.805022e-01  1.660870e+00 -1.663105e-01
##   [4808,] -6.429035e-01  2.396975e+00  1.647135e+00  1.577343e+00
##   [4809,]  1.993915e-01  2.711758e-01  1.706391e-01  1.566372e+00
##   [4810,]  6.046939e-02  2.337287e-01 -6.727684e-01  1.095018e+00
##   [4811,] -9.047743e-03  1.328930e+00  5.021401e-01  2.950334e+00
##   [4812,]  9.425163e-01  1.951253e+00  1.277605e+00  2.102086e-01
##   [4813,] -7.192224e-01  1.564783e+00  1.066455e+00  7.451753e-01
##   [4814,] -5.437274e-01  3.367617e-01  8.910158e-01  2.030039e-01
##   [4815,] -8.514147e-01  1.104816e+00  8.704557e-01  8.879218e-01
##   [4816,] -2.518313e+00 -8.140142e-01  1.389856e+00  5.759521e-01
##   [4817,]  6.312399e-01 -1.106386e+00  1.450991e+00  2.350722e+00
##   [4818,]  4.969812e-01 -2.839548e-01  2.244002e-01  5.815156e-01
##   [4819,]  4.628248e-01  2.053987e+00 -1.765042e+00  5.204930e-01
##   [4820,] -2.941850e+00 -5.865675e-01 -1.898806e-01  8.669654e-01
##   [4821,] -8.160449e-01 -7.145230e-01 -1.963282e-02  1.429143e+00
##   [4822,]  7.617906e-01  8.270753e-01 -5.433448e-01  9.877532e-01
##   [4823,] -1.438366e-01 -6.152546e-01 -1.740903e+00  7.834346e-01
##   [4824,]  1.005649e+00  2.477681e+00 -3.162104e-01  6.173590e-01
##   [4825,]  5.014502e-01 -3.730260e-01  1.276253e+00  5.306594e-01
##   [4826,]  2.681516e-02 -6.487937e-01 -1.501512e-01  2.529610e+00
##   [4827,]  7.005852e-01  1.678637e+00 -4.538789e-01  1.106448e+00
##   [4828,]  1.574961e+00  6.809140e-01  8.273960e-01  3.036016e+00
##   [4829,]  1.156382e+00 -4.687557e-01  1.326559e+00  2.516652e+00
##   [4830,]  6.356862e-01  6.478747e-01 -6.392206e-02  6.928981e-01
##   [4831,]  7.525595e-01  2.280650e-01  9.375991e-01  1.099501e+00
##   [4832,]  5.578206e-01  3.521391e-01 -6.529127e-02  2.359778e+00
##   [4833,]  9.099971e-01  1.536627e-01  3.177919e-01  1.332009e+00
##   [4834,]  6.445323e-01  5.261979e-02  1.290502e+00  6.627983e-01
##   [4835,] -2.261893e+00  4.214224e-01 -3.324596e-02  9.205212e-01
##   [4836,] -2.430224e+00  1.540213e+00  9.333582e-01  1.079874e+00
##   [4837,] -1.629492e-01 -7.449401e-01  1.424705e+00  2.308202e+00
##   [4838,]  5.245988e-01 -3.858087e-01  1.231960e+00  6.784899e-01
##   [4839,]  6.425138e-02  2.581416e+00  1.662902e+00 -4.018753e-01
##   [4840,]  1.402502e+00  1.327195e+00 -4.163318e-01  8.546726e-01
##   [4841,]  5.984848e-01 -1.350038e-01 -1.874082e+00  2.890030e+00
##   [4842,] -1.054076e+00  8.470381e-02  1.382957e+00  2.089783e+00
##   [4843,]  1.253057e+00  5.774525e-01  1.037480e+00  2.773121e+00
##   [4844,]  1.202131e+00  1.387632e-01 -2.034218e-01  8.623427e-01
##   [4845,] -3.600443e-01  1.940150e+00  3.917699e-02  2.458445e+00
##   [4846,] -1.552430e+00 -5.332485e-01  5.133512e-01  7.502147e-01
##   [4847,] -1.110113e+00 -7.397460e-02 -1.844405e+00  7.840000e-01
##   [4848,] -2.205844e-01  2.866455e-02 -8.913625e-02  5.312329e-01
##   [4849,] -7.732607e-01  1.239435e+00  1.277634e+00  3.676788e-01
##   [4850,]  5.108865e-01 -9.736435e-01  1.348426e-01  2.469224e-01
##   [4851,]  6.194188e-01 -8.251363e-01  6.570871e-01  8.063914e-01
##   [4852,] -9.287819e-01  7.316655e-01  1.091432e+00  1.292072e-01
##   [4853,] -8.263587e-01 -6.851190e-01  1.132811e+00  1.081779e+00
##   [4854,]  7.965368e-01  4.084071e-01  8.911449e-01  1.303077e+00
##   [4855,]  1.386493e+00  1.326202e+00  1.134739e+00  2.671253e+00
##   [4856,]  1.702792e-01 -6.032465e-01 -1.665112e+00  1.008462e+00
##   [4857,]  1.120843e+00 -6.180067e-01  1.268371e+00  6.019895e-01
##   [4858,]  3.225992e-01  2.116280e-01  7.726417e-01  3.388223e+00
##   [4859,] -7.150350e-01 -6.322064e-01 -1.663993e+00  2.944706e+00
##   [4860,] -3.395262e-01  1.243237e+00 -1.974242e-01  5.965920e-01
##   [4861,] -6.959082e-01 -8.232788e-01 -1.495320e+00  7.062222e-01
##   [4862,]  1.252277e+00  6.944284e-01  3.782576e-01  8.880626e-01
##   [4863,]  6.660242e-01  5.175811e-01  1.100032e+00  2.659834e+00
##   [4864,]  4.700461e-01  2.110873e+00 -5.354510e-01  9.599511e-01
##   [4865,]  1.131817e+00 -5.365434e-01 -5.221431e-01  2.135422e+00
##   [4866,]  7.366467e-01  5.581831e-01 -1.488580e+00  1.055791e+00
##   [4867,]  1.189086e+00  1.024253e+00 -1.258937e-02  6.774681e-01
##   [4868,]  7.029001e-01 -4.419730e-01 -2.680027e-01  2.780222e+00
##   [4869,]  1.246659e+00  1.174903e+00  1.263775e+00  2.339826e+00
##   [4870,]  7.166493e-01  7.936945e-01 -4.123408e-01  2.704857e+00
##   [4871,]  1.252943e+00 -7.891045e-02  1.056612e+00  9.752801e-01
##   [4872,]  1.287321e+00  1.125867e+00  8.405068e-01  9.151308e-01
##   [4873,] -3.094918e-01 -7.063740e-01 -1.542629e+00  3.812722e-01
##   [4874,]  1.105304e+00  6.774785e+00  1.316089e+00  2.720831e+00
##   [4875,]  1.296985e-01 -2.431769e-01 -1.297512e+00  1.529341e+00
##   [4876,]  1.154452e-01 -5.464468e-01  9.771607e-01  1.173129e+00
##   [4877,]  1.360476e+00  7.264124e-01  9.669549e-01  1.053060e+00
##   [4878,]  7.963933e-02 -1.970369e-01 -4.227998e-01  3.023085e+00
##   [4879,]  1.137384e+00 -7.676864e-01  1.500455e+00  1.827472e-01
##   [4880,] -1.443516e+00 -1.464279e+00 -1.561328e-01  8.630483e-01
##   [4881,]  8.739395e-01  1.707168e+00 -1.436076e-01  1.985167e+00
##   [4882,] -1.475787e-02  2.066367e+00  1.089517e+00  2.529023e+00
##   [4883,] -4.536318e-01  5.345083e-01  9.714517e-01  1.053075e+00
##   [4884,] -3.750056e-02 -1.193806e+00 -1.693304e+00  7.606047e-01
```

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##   [4885,]  1.304757e+00  1.028356e+00  1.063185e+00  8.170252e-01
##   [4886,] -7.357902e-01 -2.999860e-01 -2.960330e-01  2.985969e+00
##   [4887,]  7.378256e-01  1.275335e-01 -3.536189e-01  9.445873e-01
##   [4888,] -2.335623e+00  1.674432e+00  6.375619e-01  1.312290e+00
##   [4889,]  1.003872e+00 -1.148291e-01  1.935281e-01  3.145994e-01
##   [4890,]  1.288749e+00  1.437914e+00  1.057973e+00  9.315130e-01
##   [4891,]  9.694536e-04  1.376239e-01  8.829555e-01  1.291583e+00
##   [4892,]  8.218309e-02 -2.115316e-01 -4.670548e-01  3.042553e+00
##   [4893,]  9.025574e-01  5.745284e-01  1.433587e+00  8.987540e-02
##   [4894,]  9.749417e-01  2.338997e+00  1.197945e+00  2.155364e-01
##   [4895,] -5.825217e-01  1.329605e+00 -1.568761e+00  2.028329e+00
##   [4896,] -4.842678e-02  3.136065e-01 -2.767108e-01  1.383968e+00
##   [4897,] -4.669143e-01  9.383807e-01 -8.004159e-01  2.561834e-02
##   [4898,]  6.484365e-01  1.290171e+00  8.726330e-01  1.081923e+00
##   [4899,] -4.975147e-01  5.388447e-03 -2.269460e-02  1.325705e+00
##   [4900,]  9.580377e-01 -3.712048e-01  1.882064e-01  8.354605e-02
##   [4901,] -8.950075e-02  2.261256e+00 -1.146464e-01  8.236467e-01
##   [4902,] -2.153277e-01  7.367663e-01 -7.690639e-01  1.032424e-01
##   [4903,] -6.308921e-01  5.848164e-01  1.209694e+00  6.243051e-01
##   [4904,]  9.011704e-02 -8.168457e-01 -4.630998e-01  2.858080e+00
##   [4905,] -8.148183e-01  8.577859e-01  1.239945e+00  2.299282e+00
##   [4906,]  7.956900e-01  3.725900e-02 -4.032208e-01  1.069331e+00
##   [4907,] -1.820513e-01 -1.530676e+00  1.530930e+00  2.264123e+00
##   [4908,]  6.299884e-01 -2.915786e-01  1.202890e+00  2.581906e+00
##   [4909,] -9.437143e-02  4.258344e-01 -1.128913e+00  1.251204e+00
##   [4910,]  1.384972e+00  1.374701e+00 -4.199068e-02  9.842256e-01
##   [4911,] -1.740590e-01 -1.299102e+00  1.218573e+00  2.753200e+00
##   [4912,]  5.382188e-01  3.763469e-01 -1.730733e+00  9.710987e-01
##   [4913,]  1.437390e+00  7.164408e-01  6.146584e-01  1.238551e+00
##   [4914,] -2.910968e+00  1.008809e+00 -1.787030e+00  2.919887e+00
##   [4915,]  8.400436e-01  1.228763e+00 -3.797864e-01  3.089020e+00
##   [4916,]  1.223394e+00  2.470197e-01 -1.090575e-01  6.553215e-01
##   [4917,] -1.624343e+00  1.728653e+00  5.254608e-01  1.337451e-01
##   [4918,] -1.180700e+00  4.622150e-01  8.489897e-01  1.313141e+00
##   [4919,]  3.649921e-01 -9.270655e-01 -1.480808e+00  3.809265e-01
##   [4920,] -1.593240e+00  1.705194e+00 -2.899098e-01  6.803491e-01
##   [4921,]  1.853670e-01  5.217047e-01  6.310923e-01  1.770640e+00
##   [4922,]  4.875241e-01  7.108654e-01  1.050031e+00  7.487180e-01
##   [4923,] -9.583619e-01 -1.510405e+00 -1.978189e-01  1.006233e+00
##   [4924,] -4.427382e-02 -8.112690e-01  1.235714e+00  7.489406e-01
##   [4925,] -1.175787e-01 -4.903142e-01  4.485429e-01  5.678523e-01
##   [4926,] -5.487615e-01  1.001728e-01 -5.729200e-01  1.398317e+00
##   [4927,] -1.752627e+00 -1.922191e+00 -1.238152e+00  2.731029e+00
##   [4928,]  6.705768e-01  2.505420e-01 -2.011189e+00  3.107915e+00
##   [4929,] -7.675785e-01 -1.597878e+00  1.254358e+00  2.769508e+00
##   [4930,]  6.102281e-01 -7.000441e-01 -1.323716e+00  6.785073e-01
##   [4931,]  8.741259e-01  2.035932e+00 -1.635946e+00  3.184527e+00
##   [4932,] -1.393721e+00  1.445680e+00 -4.839504e-01  8.275648e-01
##   [4933,] -7.830978e-02 -3.688341e-01 -5.818042e-01  6.659284e-01
##   [4934,] -9.023481e-02  2.796640e-01  1.082272e+00  2.645570e+00
##   [4935,] -5.509455e-01  1.301218e+00  6.226084e-01  1.899101e+00
##   [4936,] -1.409980e+00 -5.122681e-01 -4.049620e-02  6.194806e-01
##   [4937,] -1.446876e-01 -6.184952e-01  1.122842e+00  9.590633e-01
##   [4938,] -5.884377e-01  9.662055e-01  1.078551e+00  7.814620e-01
##   [4939,] -8.447708e-01  9.655577e-01 -2.337059e-01  6.340445e-01
##   [4940,] -6.669175e-01 -1.661626e+00  1.362236e+00  2.576336e+00
##   [4941,]  7.837682e-01  8.141741e-01  1.454808e+00 -2.309663e-02
##   [4942,] -2.379867e-01 -7.892879e-01 -6.941994e-02  5.503791e-01
##   [4943,]  1.119414e+00  5.068637e+00  1.068998e+00  8.358605e-01
##   [4944,]  1.365933e+00 -2.627705e-01  5.965844e-01  8.058896e-01
##   [4945,] -1.710727e+00  6.748358e-01 -1.289338e+00  7.563746e-01
##   [4946,]  1.062998e+00 -1.768800e-02  1.313459e+00  4.048858e-01
##   [4947,] -1.202904e-01  3.943138e-01 -1.205404e+00  9.839784e-01
##   [4948,] -1.396577e+00 -9.864056e-01 -7.009689e-01  1.809136e+00
##   [4949,]  7.775132e-01  4.910127e-01  8.056408e-01  1.301584e+00
##   [4950,] -3.584214e-01  1.480531e+00 -8.828944e-01  2.073975e+00
##   [4951,] -4.751362e-01  8.809686e-01 -4.784360e-01  1.234038e+00
##   [4952,] -1.122737e-01  1.230314e+00 -3.393128e-01  1.105904e+00
##   [4953,] -7.272171e-01  2.139395e+00 -1.051571e+00  8.488005e-01
##   [4954,]  5.317292e-01  2.885945e-01 -2.113012e-01  2.476343e+00
##   [4955,]  1.647309e-02 -1.165219e+00  3.735350e-02  2.460111e+00
##   [4956,]  1.819413e-01 -3.192169e-01 -3.467983e-02  1.339175e+00
##   [4957,]  2.647420e-01  4.625455e-01  1.266602e+00  4.095355e-01
##   [4958,] -2.874391e-03 -3.870609e-01 -1.116588e+00  1.194555e+00
##   [4959,]  4.515518e-01  4.616285e-01  1.286272e-02  2.306476e+00
##   [4960,]  7.503947e-01 -1.898073e-02  7.707063e-01  1.504401e+00
##   [4961,]  1.186365e+00  2.531522e+00  7.524326e-01  2.636206e+00
##   [4962,]  9.148809e-01  4.248558e-02 -1.520769e+00  3.147171e+00
##   [4963,] -1.399690e+00  2.444658e-02  1.203083e+00  7.262729e-01
##   [4964,] -1.738867e-02  4.543649e-01  1.028250e+00  2.820545e+00
##   [4965,] -2.709362e-01  1.554918e+00  1.159786e+00  2.355091e+00
##   [4966,] -9.282902e-02  1.934098e+00  8.046074e-01  2.418918e+00
##   [4967,]  1.383013e+00  5.242107e-01  5.840775e-01  7.434556e-01
##   [4968,]  7.420931e-01  3.919201e-01  8.525447e-01  1.295914e+00
##   [4969,]  8.660532e-01  1.782430e-02  7.227787e-02 -1.498751e-01
##   [4970,] -1.318126e+00  1.096651e+00 -1.594393e+00  3.018972e+00
##   [4971,] -3.795490e-01  1.443534e+00  1.243544e+00  5.340399e-02
##   [4972,] -1.596382e+00 -3.406325e-01  1.510007e+00  2.050936e-01
##   [4973,] -1.131389e+00 -1.562152e+00 -7.624926e-01  2.378169e+00
##   [4974,] -2.097692e+00  1.620339e-01 -6.642839e-01 -2.615321e-01
##   [4975,] -8.199922e-01  1.384017e+00  7.542924e-01  1.010711e+00
##   [4976,] -1.364663e+00  1.226595e+00  1.095612e+00  2.598923e+00
##   [4977,]  7.168809e-01 -1.000250e+00 -6.185871e-02  2.573700e+00
##   [4978,] -5.278033e-01  2.039886e+00  7.867359e-01  1.254410e+00
##   [4979,] -1.376417e+00  2.111336e+00 -4.419742e-01  9.623195e-01
##   [4980,] -6.646711e-01 -6.664364e-01  1.097967e+00  2.920805e+00
##   [4981,]  1.197388e+00  1.099473e+00 -2.057752e-01  6.997805e-01
##   [4982,]  7.335110e-02  4.658840e-01  9.671195e-01  9.130651e-01
```

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##   [4983,] -6.878648e-01  1.053747e+00  1.902154e-03  2.614635e+00
##   [4984,]  1.216097e+00 -4.877509e-01  1.307709e+00  2.415781e+00
##   [4985,]  5.406850e-01 -1.160207e+00  2.191605e-01  2.116802e+00
##   [4986,] -1.499438e-01 -7.716266e-01 -1.680848e+00  2.593330e+00
##   [4987,]  7.165946e-01  3.928111e-02 -4.072867e-01  1.090549e+00
##   [4988,]  7.031904e-01 -1.232802e-01  3.992085e-01  8.968212e-01
##   [4989,]  1.169761e+00  5.692833e-01  1.117764e+00  7.261405e-01
##   [4990,]  1.238455e+00  2.224693e+00 -1.864066e+00  9.381505e-01
##   [4991,]  1.320218e+00  2.697896e-01 -1.587233e+00  2.669221e+00
##   [4992,]  1.065675e+00 -3.989164e-01 -1.164335e+00  4.080673e-01
##   [4993,]  2.416299e-01 -2.209826e-01 -1.223212e+00 -2.695950e-01
##   [4994,]  4.317412e-01  9.070885e-01  1.197739e+00  6.013598e-01
##   [4995,] -5.378665e-01  1.521143e+00  1.430059e+00 -5.755620e-02
##   [4996,] -7.164255e-01  6.928261e-01 -6.751129e-01  1.809332e+00
##   [4997,] -6.555145e-01  2.024343e+00  1.026535e+00  2.859814e+00
##   [4998,] -1.072734e+00  2.776078e+00 -2.951835e-01  3.248232e-01
##   [4999,] -2.324204e-01 -2.683747e-01 -1.188068e-01  6.703640e-01
##   [5000,] -6.220365e-01 -8.913992e-01  8.826041e-01  1.383166e+00
##   [5001,]  1.124049e+00  1.133553e+00  1.124472e+00  6.746850e-01
##   [5002,] -4.668353e-01  1.243522e+00  1.088053e+00  5.525445e-01
##   [5003,] -1.131459e+00  7.469324e-01  8.926719e-01  1.240044e+00
##   [5004,]  5.302261e-01 -1.075314e+00  3.438213e-02  2.288477e+00
##   [5005,]  5.907773e-01  9.484754e-01  2.708844e-01  6.433066e-01
##   [5006,] -1.558486e+00 -1.166290e+00  1.170534e+00  2.932241e+00
##   [5007,]  7.997403e-01  1.415276e+00 -1.449911e-01  7.901397e-03
##   [5008,] -6.129859e-01  7.078148e-01 -1.419773e+00  6.362220e-01
##   [5009,] -1.198391e+00  6.649878e-01  1.015451e+00  1.059329e+00
##   [5010,]  4.329594e-02  3.729780e-01 -8.439839e-01  1.392525e+00
##   [5011,] -5.569973e-01  3.142067e-01 -2.103493e+00  3.237643e+00
##   [5012,]  1.030944e+00 -8.627205e-01  7.693308e-01  1.876926e+00
##   [5013,] -6.555189e-01  5.782289e-01  9.808150e-01  1.090333e+00
##   [5014,]  1.106850e+00  7.939226e-01  1.197053e+00  2.556011e+00
##   [5015,] -2.531876e-01  7.374102e-01  2.056452e-01  4.720369e-01
##   [5016,]  3.535357e-01  6.631534e+00 -2.062058e+00  4.254219e+00
##   [5017,]  1.171714e+00  1.258279e+00  1.236869e+00  2.207778e+00
##   [5018,]  7.482966e-01  2.791440e-01  9.759724e-01  2.935653e+00
##   [5019,] -8.437991e-01 -3.121933e-01 -1.731953e+00  2.671064e+00
##   [5020,] -9.221204e-01  2.150949e+00  2.676737e-01  2.274242e+00
##   [5021,]  5.004436e-01 -1.759407e-01 -1.515966e+00  5.882373e-01
##   [5022,] -2.254400e+00 -1.425910e-01  8.527423e-01  1.332317e+00
##   [5023,] -6.483208e-01  8.956015e-01 -3.791752e-01  1.120632e+00
##   [5024,]  8.051622e-01 -7.329885e-02 -5.685501e-01  1.016739e+00
##   [5025,] -1.604989e+00  5.082790e-01  1.162695e+00  7.184657e-01
##   [5026,] -1.491949e+00  7.536280e-01 -9.460785e-03  3.636220e-01
##   [5027,] -1.896764e-01  9.309164e-01 -1.366058e+00  1.116126e+00
##   [5028,] -2.029682e-01 -6.348473e-01  1.084288e+00  9.371860e-01
##   [5029,]  8.275670e-01  5.015627e-01  4.178986e-01  1.402395e+00
##   [5030,]  3.793565e-01 -5.904584e-01  1.348116e+00  5.302914e-01
##   [5031,] -7.247220e-01 -1.073991e+00 -1.826120e+00  1.028981e+00
##   [5032,] -2.055381e+00  1.484962e+00  3.959468e-01  1.522375e+00
##   [5033,]  6.643237e-02 -1.066978e-01 -5.736864e-01  1.135035e+00
##   [5034,] -1.042724e+00 -1.465312e+00  1.222886e+00  8.290244e-01
##   [5035,] -2.662573e+00  2.065396e-01 -8.689087e-01  1.590953e+00
##   [5036,]  5.641842e-01  2.398582e-01  1.096980e+00  7.613714e-01
##   [5037,] -1.673996e+00  1.729346e+00  1.718090e-01  2.536732e+00
##   [5038,] -9.429624e-01  2.440425e+00 -2.501727e-01  8.612987e-01
##   [5039,] -1.500297e+00  1.579446e+00  7.372353e-02  6.335803e-01
##   [5040,]  3.614176e-01 -1.137540e+00  1.642573e+00  2.013214e+00
##   [5041,] -1.800620e+00  6.713918e-01  1.229409e+00  5.830406e-01
##   [5042,] -1.366363e+00  1.594492e-01  8.757255e-01  1.263480e+00
##   [5043,] -1.758161e+00  1.369844e+00  1.226445e+00  4.570348e-01
##   [5044,] -1.537800e-01  1.801686e+00 -5.523321e-02  8.362348e-01
##   [5045,] -1.517974e+00  6.653427e-02  8.697797e-01  6.524845e-01
##   [5046,]  1.076741e+00  1.102490e+00 -1.195958e+00  5.059512e-01
##   [5047,]  4.462399e-01  2.414117e-01  1.068095e+00  8.203454e-01
##   [5048,]  7.737481e-01  5.163194e-01 -4.555057e-01  1.254503e+00
##   [5049,]  1.249451e+00  1.806508e-01  2.288486e-01  2.795681e+00
##   [5050,] -2.645554e-01 -2.370450e-02 -1.439172e+00  2.404393e+00
##   [5051,]  1.384550e+00  2.791905e-01  1.190937e-01  2.996283e+00
##   [5052,]  3.656975e-01  9.905574e-01 -2.226788e-01  1.948641e+00
##   [5053,] -6.523110e-01  1.090256e+00  5.427550e-01  2.438051e+00
##   [5054,]  7.770827e-01  5.995288e-01 -1.676856e-01  1.158940e+00
##   [5055,]  1.582136e+00  6.390723e-01  7.802888e-01  1.433961e+00
##   [5056,]  1.409424e+00 -3.575253e-01  1.130988e+00  2.753187e+00
##   [5057,] -8.890280e-01  1.912657e+00  2.686642e-01  7.664376e-01
##   [5058,]  5.117004e-01  1.743537e-01 -1.536207e+00  6.428629e-01
##   [5059,]  5.743331e-01 -1.260276e-01 -1.766868e-01  7.177299e-01
##   [5060,]  1.451428e+00  3.129456e-01  6.945376e-01  1.521259e+00
##   [5061,]  1.801462e-01  2.513413e-01 -6.988486e-01  1.167456e+00
##   [5062,]  5.621749e-01 -1.326654e+00 -6.867284e-01  2.216275e+00
##   [5063,] -3.011767e-01  6.373489e-01  1.327280e+00  2.207793e+00
##   [5064,]  5.056887e-01  9.192772e-01 -5.762986e-03  7.664836e-01
##   [5065,] -7.243318e-01 -8.425084e-01  3.295131e-01  3.138291e+00
##   [5066,] -3.376020e-01  3.673642e+00 -2.129262e-01  3.376707e-01
##   [5067,]  2.578831e-01  2.464669e+00 -1.222833e-01  1.821218e+00
##   [5068,] -1.127411e-01 -9.850459e-01  5.605631e-01  2.684970e+00
##   [5069,] -5.153449e-01  7.390260e-01  1.174347e+00  2.729595e+00
##   [5070,] -1.084918e+00  8.472580e-01 -4.697581e-01  1.346121e+00
##   [5071,] -9.611948e-01 -2.001941e-01 -3.283855e-01  4.467758e-01
##   [5072,]  2.244849e-01 -5.765335e-01 -1.056546e+00  1.154264e-01
##   [5073,] -3.025016e-02  3.976560e-01  1.126529e+00  7.288374e-01
##   [5074,]  7.877437e-01  1.470646e-01  9.765630e-01  1.061565e+00
##   [5075,]  4.141788e-01  1.057746e-01  9.683219e-01  1.978879e+00
##   [5076,] -3.035796e-01  2.494473e-01 -9.998916e-01 -1.074491e-02
##   [5077,] -2.145476e+00  5.005834e-01  4.232888e-01  1.437694e+00
##   [5078,]  5.445158e-01 -4.948535e-01  1.495292e+00  2.208788e+00
##   [5079,] -2.666671e-01  6.060301e-01 -2.320272e-01  8.795212e-01
##   [5080,] -8.093905e-01  1.387464e+00 -3.993792e-01  4.639123e-01
```

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##   [5081,] -1.702550e+00  7.141105e-01 -2.492107e-01  1.370367e+00
##   [5082,] -1.068267e+00  9.200773e-01 -2.441654e-02  2.910208e-01
##   [5083,]  6.229333e-01  2.706847e-01 -5.833565e-01  9.511569e-01
##   [5084,] -1.705876e-01 -4.170364e-01 -1.749096e+00  7.480088e-01
##   [5085,] -7.674557e-02  8.155352e-01  1.084884e+00  7.267375e-01
##   [5086,] -6.210032e-01  8.853985e-01 -1.103706e+00  6.569036e-01
##   [5087,]  8.127118e-01 -2.312506e-01  9.388987e-01  1.157339e+00
##   [5088,] -1.841690e-01 -9.015759e-01  1.278037e-01  3.178384e-01
##   [5089,]  6.394760e-01  4.299480e-01 -2.093722e-01  1.258969e+00
##   [5090,] -3.114205e-02 -1.494773e-01 -5.053350e-01  9.159191e-01
##   [5091,] -4.227769e-02 -4.622202e-02  1.099971e+00  2.710157e+00
##   [5092,] -9.525982e-01 -1.035159e-01 -7.952168e-02  4.157355e-01
##   [5093,] -7.866823e-02 -9.044939e-01 -1.062041e+00  2.206732e+00
##   [5094,]  3.501713e-01 -3.496869e-01  1.411493e+00  4.412346e-01
##   [5095,] -4.040446e-01  5.653978e-01  1.261914e+00  3.925349e-01
##   [5096,] -5.579649e-02  1.103161e+00 -4.863042e-01  3.220029e+00
##   [5097,] -1.463164e+00  2.479965e+00 -4.926289e-01  2.447794e+00
##   [5098,]  1.245770e+00 -2.450700e-01  1.276094e+00  2.615564e+00
##   [5099,] -5.569918e-01  6.352237e-01  1.266478e+00  2.607808e+00
##   [5100,]  6.892906e-01  1.459813e-02  1.070526e+00  9.129125e-01
##   [5101,] -7.279489e-01 -5.133061e-01  8.028111e-01  3.519099e+00
##   [5102,]  5.698421e-01  9.696644e-01 -1.390287e-01  7.005950e-01
##   [5103,]  7.939109e-01 -2.849248e-01 -8.594815e-02  3.041309e+00
##   [5104,] -1.444299e+00  1.454006e+00  8.981045e-01  1.022458e+00
##   [5105,]  1.055406e+00  1.925060e+00 -2.125394e-01  4.152912e-01
##   [5106,]  2.551962e-01 -2.205607e-01 -1.839028e+00  3.118578e+00
##   [5107,]  3.089655e-01  3.052960e-01  7.339180e-01  4.703278e-01
##   [5108,]  1.138755e+00  8.507136e-01 -2.512598e-01  2.302204e+00
##   [5109,]  7.832427e-01  6.020959e-02 -1.700944e+00  1.206348e+00
##   [5110,] -7.058835e-01 -1.675427e+00  1.422952e+00  2.477357e+00
##   [5111,]  3.903971e-01 -1.242242e+00  1.292756e-01  2.302772e+00
##   [5112,]  1.486533e+00  6.222192e-01  8.406320e-01  1.223409e+00
##   [5113,] -2.333878e+00 -5.089273e-01 -2.990522e-01  2.684858e+00
##   [5114,]  7.957139e-01  9.402207e-01 -9.210421e-01  1.458106e+00
##   [5115,] -2.127844e-02  2.084677e-01 -1.117780e+00  3.056177e+00
##   [5116,] -9.716331e-01  6.847460e-02  6.217885e-02  4.082506e-01
##   [5117,]  1.295127e+00 -5.011445e-01  1.365854e+00  4.237500e-01
##   [5118,]  1.578110e-01 -2.938690e-01  7.999798e-01  1.096181e+00
##   [5119,] -8.571751e-01  9.478802e-01  1.068064e+00  2.717436e+00
##   [5120,]  1.138495e+00 -1.170272e+00  7.755056e-01  1.928208e+00
##   [5121,] -8.265942e-01 -3.583903e-01 -1.562617e+00  6.815829e-01
##   [5122,]  1.212298e-01 -3.823472e-01  8.668725e-03  1.287574e+00
##   [5123,] -1.569531e+00  8.660160e-01  1.366607e+00  2.202763e-01
##   [5124,]  2.622063e-01 -1.859679e-01 -1.904131e+00  1.303408e+00
##   [5125,]  1.127202e+00 -6.230045e-01 -1.240074e+00  5.394876e-01
##   [5126,] -4.605371e-01  1.606244e+00  1.392560e+00  1.968255e+00
##   [5127,] -8.717383e-01  1.135577e+00  7.156527e-01  2.400851e+00
##   [5128,] -3.323471e-01  2.044056e-01  1.396536e+00  2.053408e+00
##   [5129,]  1.260122e+00  2.672294e-01 -8.487241e-01  5.918619e-01
##   [5130,]  5.008931e-01  2.646776e-01 -1.685111e+00  5.254667e-01
##   [5131,] -1.492405e+00  1.220920e+00 -1.243711e+00  6.013701e-01
##   [5132,]  1.058859e-01 -1.394817e-01  6.155379e-01  3.118120e+00
##   [5133,]  1.231989e+00  3.167538e-01  1.058243e+00  2.816417e+00
##   [5134,] -1.656310e-01  4.827374e-01  3.687498e-01  5.717196e-01
##   [5135,] -7.693944e-01 -4.928688e-01  1.052293e+00  3.090345e+00
##   [5136,]  6.975923e-01  8.487157e-01 -2.911758e-01  1.084285e+00
##   [5137,]  9.901891e-02  1.163217e+00  8.326671e-01  8.461213e-02
##   [5138,]  5.469191e-01  2.062406e-01 -1.706693e+00  5.317262e-01
##   [5139,] -6.593932e-02  5.890197e-01  1.208991e+00  6.881007e-01
##   [5140,] -5.163682e-01  1.017559e+00  1.010927e+00  9.507418e-01
##   [5141,]  5.641450e-01 -8.732538e-01  1.425456e+00  2.332161e+00
##   [5142,] -9.048147e-01  2.451019e-01 -5.283572e-01  7.987142e-01
##   [5143,] -1.347701e-01 -4.128289e-01 -1.733461e+00  1.054070e+00
##   [5144,] -7.688590e-01  3.750477e-01 -4.364473e-01  1.164697e+00
##   [5145,]  1.033066e+00  7.775234e-02  1.271962e+00  4.783522e-01
##   [5146,]  4.763515e-01 -1.011561e+00 -1.087551e-01  7.178066e-01
##   [5147,]  7.061456e-01  4.291750e-01 -4.095773e-01  1.366287e+00
##   [5148,]  4.202371e-01  1.725530e-02 -8.951364e-01  6.887427e-01
##   [5149,] -9.333678e-01  2.508753e+00  4.814854e-02  1.407933e+00
##   [5150,] -2.402229e+00 -8.198298e-01 -5.034625e-03  6.376423e-01
##   [5151,] -8.783693e-02  2.383482e+00 -1.686410e+00  5.057613e-01
##   [5152,] -7.709164e-03 -6.789252e-01 -5.213354e-02  6.248092e-01
##   [5153,] -5.524433e-01 -7.950902e-01 -1.834807e+00  2.896746e+00
##   [5154,] -1.232830e-01 -8.992084e-01 -2.735260e-01  5.989976e-01
##   [5155,] -1.553460e+00  1.835102e+00  1.268286e+00  3.565683e-01
##   [5156,] -1.878479e-01  1.920067e+00 -1.654449e+00  5.271365e-01
##   [5157,] -2.227079e-01  6.796983e-01 -4.530564e-01  5.805889e-01
##   [5158,] -5.745420e-01 -6.146156e-01 -4.551726e-01  3.336349e+00
##   [5159,] -2.073474e-01  7.384012e-01 -5.033993e-01  2.660559e+00
##   [5160,]  8.695261e-01  7.461087e-01  8.095112e-01  1.324485e+00
##   [5161,] -1.350668e+00  1.900573e+00  7.135699e-01 -2.509126e-01
##   [5162,]  7.744627e-01 -2.786319e-02 -2.947375e-01  2.926768e+00
##   [5163,]  9.490469e-01  1.123056e+00  1.457314e+00  2.178018e+00
##   [5164,]  4.077665e-01 -1.331160e+00  1.573028e+00  2.114795e+00
##   [5165,] -6.767257e-01  8.021763e-01  1.138751e+00  8.359112e-01
##   [5166,]  1.400578e+00  3.017153e-01  8.067797e-01  1.270089e+00
##   [5167,] -9.482673e-01 -1.030538e+00  1.292416e+00  2.615151e+00
##   [5168,] -4.261786e-01 -7.981285e-01  3.418804e-01  1.023408e-01
##   [5169,] -2.297158e-01 -5.184422e-01 -1.409036e+00  4.917675e-01
##   [5170,] -8.014458e-02 -8.133596e-01  1.190661e+00  2.809479e+00
##   [5171,] -1.246675e+00  5.258108e-01 -3.339550e-01  9.436380e-01
##   [5172,]  5.506921e-01 -4.842847e-01 -1.241967e+00  4.606282e-01
##   [5173,] -3.779204e-01 -3.523583e-01  2.558027e-01  5.005248e-01
##   [5174,]  1.224240e+00 -3.840390e-01 -6.423610e-01  2.661358e+00
##   [5175,] -1.472108e+00  1.674915e+00 -4.369549e-01  6.734030e-01
##   [5176,]  1.363698e+00  8.743407e-01  9.594803e-01  1.072737e+00
##   [5177,]  7.700694e-01  3.416019e-01 -1.609679e+00  9.262883e-01
##   [5178,]  1.204543e+00  4.399625e+00  1.082813e+00  8.356195e-01
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##   [5179,] -8.592113e-01  3.597625e-01  3.794341e-01  5.484043e-01
##   [5180,]  4.954889e-01 -7.807756e-02  2.108407e-01  8.586591e-01
##   [5181,] -1.140045e+00 -7.573686e-01 -7.572146e-02  6.603687e-01
##   [5182,]  7.390002e-01  6.485016e-02  1.074508e+00  2.779628e+00
##   [5183,]  8.903629e-01  7.922327e-01 -4.703240e-01  3.464385e+00
##   [5184,] -3.299200e-01  1.773321e+00  1.339657e+00  2.084818e-01
##   [5185,]  1.220170e+00 -6.788013e-01  1.381305e+00  2.384166e+00
##   [5186,]  6.668733e-01 -3.247860e-01  1.144252e+00  9.060303e-01
##   [5187,] -5.002157e-01  1.042981e+00  2.368920e-01  3.675052e-01
##   [5188,] -6.610117e-01  1.099628e+00  1.076671e+00  8.224798e-01
##   [5189,]  7.142675e-03  7.863339e-01 -3.734389e-01  2.846649e+00
##   [5190,] -1.589607e+00  1.220193e+00  1.279008e+00  2.266745e+00
##   [5191,] -1.682614e-01 -5.180855e-01  1.452509e+00  2.223922e+00
##   [5192,] -7.129470e-01  4.728787e-02 -1.399186e+00  1.011764e+00
##   [5193,] -1.516675e+00  6.886407e-01 -2.537734e-01  1.192717e+00
##   [5194,]  2.260505e-02 -5.003252e-01 -3.964664e-01  1.252861e+00
##   [5195,]  5.793963e-01 -4.852846e-01  6.150503e-01  7.938012e-01
##   [5196,]  4.973586e-01 -6.084089e-01  1.397105e+00  2.378320e+00
##   [5197,] -7.362690e-01 -1.668951e-01 -1.881025e-01  1.684886e+00
##   [5198,] -6.021918e-01  8.521124e-01  4.441091e-01  6.997359e-01
##   [5199,]  5.813641e-02 -6.377459e-01 -1.861630e+00  2.902421e+00
##   [5200,]  6.153574e-01 -3.181505e-01  1.245437e+00  5.943101e-01
##   [5201,] -5.191974e-01  4.171023e-01  2.349656e-01  2.691995e+00
##   [5202,] -2.246597e+00  4.928748e-01  6.850737e-01  2.827087e+00
##   [5203,] -1.904024e+00  7.468564e-01  7.779494e-01  1.420231e+00
##   [5204,]  8.760883e-02  5.579139e-01 -7.674631e-01  3.320616e+00
##   [5205,]  4.810781e-01 -9.629892e-01  7.074511e-01  2.320390e+00
##   [5206,]  1.292767e-01 -7.631144e-01 -1.283083e+00  9.166535e-01
##   [5207,]  1.217351e-01 -4.733137e-01 -4.113533e-01  1.193946e+00
##   [5208,] -4.040205e-01 -1.199208e+00  1.578235e+00  2.181730e+00
##   [5209,] -6.416074e-02 -7.638131e-01  1.244710e+00  2.564373e+00
##   [5210,]  9.216928e-02  1.638873e+00 -4.959500e-01  1.352079e+00
##   [5211,] -7.254977e-01  1.147509e+00  5.984673e-01  7.527241e-01
##   [5212,] -4.816170e-01 -5.262640e-01  2.893422e-01  1.276308e+00
##   [5213,] -7.445259e-01  3.448956e-01  1.009267e+00  3.041514e+00
##   [5214,] -2.410551e+00  7.405063e-01 -1.800708e+00  9.979043e-01
##   [5215,]  1.448235e+00 -7.174533e-03 -5.329580e-01  2.833458e+00
##   [5216,] -2.966336e-01  1.358872e+00  1.385050e+00  2.280703e-01
##   [5217,]  1.110955e+00 -3.435740e-01  1.331157e+00  4.694731e-01
##   [5218,] -4.222255e-02  4.105423e-01  1.192633e+00  6.399219e-01
##   [5219,] -8.414197e-02  2.144157e-01  1.239577e+00  5.698631e-01
##   [5220,] -1.530661e+00  2.926761e-01  9.314965e-01  1.191400e+00
##   [5221,]  7.823117e-01  3.810986e-01 -4.143379e-01  1.348006e+00
##   [5222,]  4.511497e-01 -1.206712e+00  1.121067e-01  3.834274e-01
##   [5223,] -2.388619e-01  2.031070e+00  1.117668e+00  6.131849e-01
##   [5224,]  4.944890e-01 -1.204015e-01 -1.720624e+00  7.783078e-01
##   [5225,] -1.328551e+00  1.157161e-01  1.203024e+00  6.975975e-01
##   [5226,]  1.239846e+00  1.203662e+00  2.811888e-01  8.217882e-01
##   [5227,]  4.707450e-01 -9.972810e-01  1.245863e+00  7.165470e-01
##   [5228,]  6.555280e-01  1.010237e-01 -1.881888e+00  1.235041e+00
##   [5229,] -3.705997e-01  2.338985e+00  8.358653e-01  1.823351e+00
##   [5230,] -6.515524e-01 -1.331056e-01 -1.739323e+00  2.958673e+00
##   [5231,] -8.277569e-01 -8.509144e-01  1.168979e+00  2.908633e+00
##   [5232,] -1.633881e+00  1.000055e+00 -3.522767e-01  1.005893e+00
##   [5233,]  3.857218e-02  2.824255e-01 -1.877534e+00  1.149036e+00
##   [5234,]  7.308466e-01  9.856227e-01 -1.370981e+00 -2.126535e-01
##   [5235,]  7.756816e-01  2.724178e-01 -1.645996e+00  3.129537e+00
##   [5236,]  1.261581e+00 -1.136125e-01  8.965340e-01  2.654863e+00
##   [5237,] -1.487412e+00  2.008602e+00 -3.302970e-01  5.219231e-01
##   [5238,] -3.862931e-01 -1.254520e+00 -1.309743e+00  1.087688e-01
##   [5239,] -8.121093e-01 -1.153169e+00  2.194329e-02  8.214063e-01
##   [5240,]  8.760756e-01 -2.295800e-01  7.896644e-01  1.448992e+00
##   [5241,]  5.572112e-01  5.975352e-01 -7.616269e-02  7.144103e-01
##   [5242,] -1.442199e+00  9.993196e-01  7.312733e-01  2.598497e+00
##   [5243,] -8.718727e-02 -8.652407e-01  1.237908e+00  2.775298e+00
##   [5244,] -1.396449e+00 -8.675909e-01 -1.935397e+00  1.486101e+00
##   [5245,]  5.805530e-01 -1.985735e-01  4.009510e-01  2.524133e+00
##   [5246,] -1.507033e+00  8.271733e-01  1.157515e+00  7.626472e-01
##   [5247,] -7.647272e-01 -2.391726e-01 -1.269439e+00  2.871454e+00
##   [5248,] -1.629297e+00  1.040769e+00 -2.124432e-01  5.340954e-01
##   [5249,]  4.825871e-01  1.267465e+00 -4.122847e-01  4.241468e-01
##   [5250,]  2.513781e-03  6.688353e-01 -5.370908e-01  3.240633e+00
##   [5251,] -1.168800e+00  1.242044e+00 -1.635340e-01  3.023758e+00
##   [5252,] -7.601339e-01  9.950142e-01  9.516824e-01  1.050229e+00
##   [5253,] -2.496805e+00 -2.190457e-02  7.237736e-01  2.950656e-01
##   [5254,] -1.555306e+00  1.835663e+00  1.068848e+00  5.982128e-01
##   [5255,]  2.350600e-01  3.353742e-01 -2.029664e-02  3.094220e-01
##   [5256,]  1.193303e+00  1.935958e-01  4.640725e-01  7.056252e-01
##   [5257,]  8.237616e-01 -3.799952e-01 -2.536518e-01  2.896231e+00
##   [5258,] -7.432040e-01  6.201365e-01  2.771223e-01  2.685760e+00
##   [5259,]  1.174443e+00  1.118498e+00 -1.309550e+00  6.265226e-01
##   [5260,] -6.864856e-01 -7.163697e-01 -1.600433e-01  8.020199e-01
##   [5261,] -1.689781e+00 -4.007917e-01  1.630412e+00 -2.530743e-02
##   [5262,]  1.434719e+00  7.722570e-02  1.013796e+00  2.990046e+00
##   [5263,]  1.351728e-01 -8.530598e-02  9.643993e-01  1.076290e+00
##   [5264,] -6.188589e-01 -5.763181e-01 -7.613084e-01  1.611255e+00
##   [5265,] -5.699183e-01 -1.491578e-01 -1.657920e+00  3.156853e+00
##   [5266,] -3.603333e-01  4.083528e-01  1.840711e-01 -7.331015e-02
##   [5267,]  8.455369e-01  8.996236e-02  8.652389e-01  1.297872e+00
##   [5268,]  9.391715e-01 -1.011083e+00  1.551809e+00  1.165793e-01
##   [5269,] -2.973302e-01  2.578644e+00 -3.282892e-01  4.786613e-02
##   [5270,] -4.678341e-01  2.597125e+00  1.208882e+00  2.357535e-01
##   [5271,] -1.722669e+00 -6.345453e-02  1.247745e+00  1.961975e+00
##   [5272,]  1.470077e+00  8.888182e-01  8.438531e-01  1.209200e+00
##   [5273,]  7.523528e-01  3.076925e-01 -1.903819e+00  2.866825e+00
##   [5274,] -8.995271e-02  1.433834e-01  1.048177e+00  2.909416e+00
##   [5275,] -1.304779e+00  1.870623e-01  1.419904e+00  2.218138e+00
##   [5276,]  6.625185e-01  1.229147e+00  7.467165e-01  3.024124e+00
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##   [5277,] -6.571685e-01 -1.367698e+00 -1.082510e+00  7.327307e-01
##   [5278,]  7.407247e-01 -7.832333e-02 -3.450111e-01  1.020033e+00
##   [5279,]  7.411175e-01 -2.957417e-01  1.901453e-02  9.578603e-01
##   [5280,]  1.244876e+00 -3.251360e-01 -8.132922e-01  5.995614e-01
##   [5281,] -1.150956e+00 -1.672567e-01  5.558101e-01  1.994389e+00
##   [5282,]  4.252264e-01 -6.384839e-01 -1.427891e+00  2.209517e-01
##   [5283,] -8.655063e-01  2.128647e+00  1.312386e+00  2.266175e+00
##   [5284,]  5.784640e-02 -8.203497e-01 -1.394307e+00  2.450294e+00
##   [5285,] -3.977933e-02  9.009752e-01 -9.447709e-01  6.397228e-01
##   [5286,]  1.380236e-01  1.668115e-01  2.645760e-01 -3.285155e-01
##   [5287,] -1.370134e-01 -1.116729e-01  1.052548e+00  9.424844e-01
##   [5288,]  8.247491e-01 -3.234275e-01  1.333477e+00 -2.276140e-01
##   [5289,] -1.527909e-01 -1.344486e-01  1.369013e+00  3.641006e-01
##   [5290,]  3.973844e-01  1.426470e+00 -7.958160e-02  3.601866e-01
##   [5291,] -5.293293e-01  1.761144e+00  1.332429e+00  2.235668e+00
##   [5292,]  7.115366e-03  2.244765e-01 -5.896049e-01  1.288582e+00
##   [5293,]  8.381518e-01  6.851135e-01  1.656433e+00  1.725829e+00
##   [5294,]  6.240931e-01 -3.233779e-01 -5.114800e-02  5.820443e-01
##   [5295,]  5.354623e-02 -3.142751e-02 -1.235791e+00  1.044749e+00
##   [5296,] -7.979582e-01  1.881581e+00  9.270115e-02  8.797051e-01
##   [5297,]  1.352439e+00  7.967985e-01  9.008872e-01  1.178211e+00
##   [5298,] -1.968738e+00  1.441087e-01  8.361126e-01  1.402350e+00
##   [5299,]  1.153771e+00 -3.614977e-01  4.922105e-01  5.105520e-01
##   [5300,]  7.217845e-01 -2.768153e-01 -1.596240e+00  2.723701e+00
##   [5301,] -7.145878e-01 -3.485776e-01  1.231224e+00  7.692422e-01
##   [5302,] -2.402035e-01  3.858644e-01  1.207363e+00  5.476017e-01
##   [5303,] -8.291628e-02 -5.821601e-01 -1.837087e-01  1.057694e+00
##   [5304,] -1.497410e+00  8.832591e-01 -3.498910e-01  1.278424e+00
##   [5305,]  1.477999e-01 -1.368329e-01  9.903478e-01  2.942610e+00
##   [5306,] -2.272900e+00 -5.769260e-01  1.116684e+00  1.000176e+00
##   [5307,]  7.851973e-01 -2.510895e-01  1.101509e+00  2.838211e+00
##   [5308,]  1.217941e+00  6.291307e-01  1.003560e+00  2.830558e+00
##   [5309,]  5.654612e-01 -4.969255e-01  1.012622e+00  2.372329e+00
##   [5310,] -2.055293e-02 -6.717977e-01  1.093951e+00  2.970927e+00
##   [5311,] -1.495391e-01 -1.342105e+00  1.191839e-01  2.446093e+00
##   [5312,]  7.222968e-01  2.749360e-01 -1.844676e+00  8.426025e-01
##   [5313,]  1.214870e+00  2.172313e-01 -1.897097e-01  8.882953e-01
##   [5314,] -9.141750e-01  1.120882e+00 -9.114930e-01  4.642834e-01
##   [5315,]  7.285415e-01  4.566917e-01 -9.693372e-01  3.014499e+00
##   [5316,]  1.069770e-01  1.674579e+00  6.970899e-01  1.848367e-01
##   [5317,]  5.865272e-01 -6.377742e-01  7.356335e-01  2.869236e+00
##   [5318,]  2.886701e-01  4.100310e-02 -7.618511e-01  1.307404e+00
##   [5319,] -1.163928e+00 -7.866670e-01 -2.160627e+00  1.614308e+00
##   [5320,] -1.678095e+00  2.114533e-01  1.113779e+00  8.314240e-01
##   [5321,] -9.993364e-01 -1.231716e+00  1.447480e-02  2.410454e+00
##   [5322,] -2.840949e+00  3.583606e-01 -4.736890e-01  1.407040e+00
##   [5323,]  1.293722e+00  1.568304e+00  3.815634e-01  2.658855e+00
##   [5324,] -1.246229e+00  2.896752e-02  1.437840e+00  2.001405e-01
##   [5325,]  4.411213e-01 -5.736153e-01  1.311190e+00  4.728031e-01
##   [5326,]  1.086660e+00  1.149994e-01  3.114759e-01  2.964106e-01
##   [5327,] -5.214747e-01 -7.557276e-01 -1.988412e-01  3.005064e+00
##   [5328,]  5.122025e-01 -6.818959e-02  1.037606e+00  9.116063e-01
##   [5329,] -9.453783e-01 -4.955189e-01 -3.758186e-01  7.853041e-01
##   [5330,] -1.376254e+00  5.537929e-01 -6.636575e-01  3.061711e+00
##   [5331,]  4.619575e-01 -3.133617e-01 -8.257969e-02  2.095431e+00
##   [5332,]  6.175463e-01  6.679521e-01  9.500785e-01  1.036572e+00
##   [5333,]  2.224140e-03 -2.936637e-02 -1.722948e+00  9.130568e-01
##   [5334,] -7.228356e-01  9.150646e-01 -1.678392e+00  2.419115e+00
##   [5335,] -1.133547e+00  8.033217e-01  1.497085e+00 -1.523958e-02
##   [5336,]  4.903901e-01  1.542916e-01  1.170554e+00  6.718005e-01
##   [5337,] -2.146105e+00  2.523039e+00  8.855737e-01  1.381758e+00
##   [5338,]  1.190078e+00  3.031942e-01 -2.410003e-01  7.395691e-01
##   [5339,]  2.450068e-01  2.520523e-01 -7.410001e-01  1.537480e+00
##   [5340,]  1.078376e+00 -6.470279e-01  1.393186e+00  3.616239e-01
##   [5341,] -4.219643e-01 -1.754657e-02  1.269294e+00  4.054849e-01
##   [5342,]  1.243206e+00 -3.510197e-01 -1.215799e+00  4.408729e-01
##   [5343,] -1.442918e+00  1.111822e+00  1.600640e-01  1.492259e+00
##   [5344,] -5.770806e-01  1.097408e+00 -5.912315e-01  1.021399e+00
##   [5345,] -1.469038e-01  4.448374e-02 -9.135602e-02  6.913900e-01
##   [5346,]  4.702361e-01 -7.517056e-01 -1.157908e+00  6.891792e-01
##   [5347,] -1.537637e-02 -1.392933e-01 -4.028732e-01  1.393247e+00
##   [5348,] -1.199668e+00  5.536992e-01  3.633635e-01  1.251073e+00
##   [5349,] -3.432868e-01  2.897957e-01  1.548025e+00  1.678379e-03
##   [5350,] -6.433627e-01  2.004097e+00 -1.755900e-01  7.177760e-01
##   [5351,] -1.061443e+00  1.207868e+00  1.526127e+00 -1.154025e-01
##   [5352,] -7.953975e-01  2.336015e+00 -5.971262e-01  7.171413e-01
##   [5353,]  6.623039e-01  5.247711e-02  1.041407e+00  9.604104e-01
##   [5354,]  3.795931e-01  7.365814e-01 -1.959243e-02  1.665015e-01
##   [5355,] -1.457402e+00  8.690021e-01  4.917136e-01  1.397109e+00
##   [5356,] -5.892086e-01  4.366135e-01 -1.391017e+00  1.347852e+00
##   [5357,]  8.789435e-01  9.779023e-02 -5.527273e-01  6.369515e-02
##   [5358,] -4.630864e-01 -6.605557e-01  2.140984e-01  1.725603e-02
##   [5359,]  7.239154e-01  5.040596e-01  9.139146e-01  1.159080e+00
##   [5360,]  8.230100e-01 -4.549840e-02 -2.575404e-01  1.079255e+00
##   [5361,]  4.680641e-01 -9.102834e-01 -2.933469e-02  2.045550e+00
##   [5362,]  5.578404e-01 -8.121201e-01  1.157158e+00  9.324845e-01
##   [5363,] -1.364178e+00  1.395211e+00  1.592434e+00 -2.862029e-01
##   [5364,]  1.353454e+00  7.662248e-01 -1.142183e+00  1.141794e+00
##   [5365,]  5.251931e-01 -5.294753e-01  1.344506e+00  4.544717e-01
##   [5366,] -6.552274e-01 -5.144749e-01 -1.524462e+00  2.915696e+00
##   [5367,]  1.224768e+00 -4.065038e-01  1.161621e+00  2.713579e+00
##   [5368,]  1.567527e+00  6.506115e-01 -1.664939e-01  1.177304e+00
##   [5369,]  3.624123e-01  4.494644e-01  1.162161e+00  6.374437e-01
##   [5370,]  1.073303e+00  2.924601e+00  1.916075e-01  2.097994e+00
##   [5371,]  1.285479e+00  5.033005e-01 -5.842472e-01  9.409780e-01
##   [5372,] -6.559076e-01  2.175240e+00 -1.222977e-01  6.868011e-01
##   [5373,]  1.472211e+00  9.894470e-01 -6.833337e-01  1.151256e+00
##   [5374,] -2.781284e-01 -1.145055e+00  1.665243e+00  1.968198e+00
```

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##   [5375,] -2.429821e+00 -4.624349e-01 -1.622255e-01  8.360718e-01
##   [5376,]  1.139654e+00  1.003060e+00  1.089733e+00  2.562419e+00
##   [5377,]  6.216647e-01  2.728831e-01  4.288651e-01  3.044694e+00
##   [5378,] -6.200201e-02 -8.987541e-01  6.907653e-01  4.564072e-01
##   [5379,]  1.352233e-02 -9.329508e-01 -1.705222e+00  7.964409e-01
##   [5380,] -1.281711e+00  1.794120e-01  1.032532e+00  1.029500e+00
##   [5381,] -9.605567e-01  2.252500e+00  1.026855e+00  5.950524e-01
##   [5382,]  8.891520e-01  1.798515e+00  1.529852e+00 -2.662539e-01
##   [5383,]  3.937230e-02  1.332351e+00 -1.884270e+00  7.698411e-01
##   [5384,] -1.000645e+00  7.764622e-01  1.052934e+00  8.725891e-01
##   [5385,] -8.748198e-01  3.299939e-01 -2.243295e-01  7.531048e-01
##   [5386,]  8.569089e-01  2.355059e+00  1.254703e-02  2.676659e-01
##   [5387,] -7.735096e-01  2.889332e-03  1.386395e+00  2.355003e+00
##   [5388,] -7.577205e-02 -1.399965e+00 -1.193130e+00  5.417423e-01
##   [5389,] -7.414017e-01  4.480336e-01 -2.405476e-01  7.219112e-01
##   [5390,] -1.430628e+00  1.035108e+00  8.220501e-02  9.690453e-01
##   [5391,] -1.560563e+00  7.440663e-01  1.304379e+00  4.262409e-01
##   [5392,] -1.513332e+00 -1.104101e-01  1.104715e+00  9.192885e-01
##   [5393,] -4.970226e-01 -5.300293e-01  8.745946e-01  1.309342e+00
##   [5394,]  5.620197e-01  2.906035e-01 -9.744314e-01  2.609290e+00
##   [5395,]  1.634874e-02  1.405255e-01  8.300630e-01  1.340603e+00
##   [5396,]  8.093612e-01  5.078934e-01 -9.594742e-01  1.123728e+00
##   [5397,] -2.495734e+00 -7.192903e-02 -2.506875e-01  2.498740e+00
##   [5398,]  1.534070e-01 -8.972816e-02 -1.766477e+00  1.047977e+00
##   [5399,]  1.376307e+00  8.467588e-01 -6.278820e-01  1.338048e+00
##   [5400,] -9.817062e-02  6.246439e-01  1.091075e+00  2.716086e+00
##   [5401,]  7.234559e-01 -2.276273e-01  1.118788e+00  2.799993e+00
##   [5402,]  1.015723e+00 -4.113399e-01 -2.751875e-01  3.331487e-01
##   [5403,] -5.856254e-02 -1.115023e+00  1.438240e+00  2.482120e+00
##   [5404,] -1.628199e-01  2.439806e+00  1.276758e+00  2.199007e+00
##   [5405,]  1.687873e-01 -3.607328e-01 -7.628810e-02  1.084125e+00
##   [5406,] -2.546736e-02  2.517242e+00  3.162699e-01  2.761312e+00
##   [5407,]  3.041292e-01  3.781009e-01 -1.296165e+00  2.279623e+00
##   [5408,] -7.674271e-01  6.497572e-02  1.424526e-01  2.155762e+00
##   [5409,]  7.536651e-01  1.757440e+00  1.419076e+00 -1.124259e-01
##   [5410,]  7.480061e-01 -1.676599e-01  3.375273e-01  2.857731e+00
##   [5411,] -1.556646e+00 -6.695120e-01 -5.762764e-01  1.537591e+00
##   [5412,] -2.336332e+00  1.016274e+00 -1.841980e+00  2.793781e+00
##   [5413,] -7.509602e-02 -6.366491e-01 -1.996460e-01  2.835984e+00
##   [5414,] -8.000315e-01  5.427879e-01  4.337572e-01  2.754136e+00
##   [5415,]  5.415713e-01  3.947895e-01 -3.595376e-01  5.462149e-01
##   [5416,] -1.018841e+00  1.785054e+00  2.754688e-01 -1.694131e-01
##   [5417,]  6.506480e-01  5.370489e-01  4.789096e-01  9.681527e-01
##   [5418,]  6.410671e-01  1.060735e-01 -1.474005e+00  9.379440e-01
##   [5419,]  6.686590e-01  1.742584e+00 -1.336641e-01  1.191732e+00
##   [5420,]  5.073046e-01  2.611380e-01 -9.012595e-01  5.990412e-01
##   [5421,]  7.189780e-01  4.282878e-02  3.262794e-01  9.654905e-01
##   [5422,] -2.496739e+00  1.420332e+00 -3.998292e-01  2.485374e+00
##   [5423,] -6.438139e-01  1.572713e+00 -1.861163e+00  2.774023e+00
##   [5424,]  6.168436e-01 -5.796091e-01  1.323887e+00  5.508000e-01
##   [5425,]  3.714526e-01 -9.084645e-02  7.074383e-01  2.258278e-01
##   [5426,] -1.842792e+00  1.770510e+00 -1.228222e+00  2.408662e+00
##   [5427,] -5.997641e-01 -3.970882e-03 -3.484295e-01  3.306727e+00
##   [5428,]  8.394745e-01  9.064538e-01  4.848271e-03  9.644325e-02
##   [5429,]  6.144785e-02  1.351917e+00 -3.259432e-01  7.315756e-01
##   [5430,] -8.597850e-01  2.672507e-01 -3.248737e-02  6.304025e-01
##   [5431,]  1.344288e+00  2.666419e-01 -1.575866e+00  7.435902e-01
##   [5432,]  7.202585e-01 -6.748941e-01 -1.176688e+00  7.372299e-01
##   [5433,]  3.285328e-01  1.207299e+00 -1.817745e+00  5.818615e-01
##   [5434,] -5.216137e-01 -3.974126e-01  7.271944e-01  1.671087e+00
##   [5435,]  1.307108e+00  5.352581e-02 -2.641582e-01  8.472424e-01
##   [5436,] -3.960575e-01  2.532226e+00 -2.348127e-01  2.127930e+00
##   [5437,] -1.663824e+00  7.529923e-01  1.518598e+00 -2.678331e-02
##   [5438,]  7.912158e-01 -3.902032e-03 -1.741270e+00  1.319199e+00
##   [5439,]  7.249908e-01  5.256113e-01 -3.657035e-01  9.255576e-01
##   [5440,]  7.670827e-01  5.429971e-01 -1.938412e+00  9.830286e-01
##   [5441,] -8.902595e-01  7.996134e-01  1.234686e+00  5.553365e-01
##   [5442,] -1.768038e+00  8.525183e-02 -8.838432e-01  7.238947e-01
##   [5443,]  1.124586e+00  2.258950e-01 -4.861878e-03  2.263871e+00
##   [5444,]  6.042204e-01  1.846985e-01  5.355175e-01  3.033779e+00
##   [5445,] -3.540616e-01 -2.785946e-01 -2.967452e-02  2.426788e+00
##   [5446,] -1.695041e+00  5.748252e-01  1.115609e+00  2.678041e+00
##   [5447,]  8.171809e-01 -6.835953e-02 -1.850991e+00  2.861007e+00
##   [5448,]  5.458417e-01 -3.431785e-01 -3.273210e-01  3.890024e-01
##   [5449,]  3.953804e-01 -2.900690e-01  1.033074e+00  1.910986e+00
##   [5450,]  1.426693e-01  5.835002e-01  8.800246e-01  3.284569e+00
##   [5451,]  1.022402e+00 -3.225441e-01  2.496510e-01  2.170649e+00
##   [5452,] -7.689596e-01  8.470843e-01 -1.802008e+00  6.931392e-01
##   [5453,]  6.890955e-01  3.778816e-01  9.439368e-01  1.131710e+00
##   [5454,]  6.993562e-01  7.679869e-01  9.722531e-01  9.340748e-01
##   [5455,]  1.655606e-01 -1.949644e-01 -1.883401e+00  3.133096e+00
##   [5456,]  1.348916e+00 -7.243703e-02 -1.206192e+00  2.587241e+00
##   [5457,] -7.064694e-01  5.527350e-01  1.371410e+00  4.165376e-01
##   [5458,]  1.353487e+00  3.809973e-01  1.095522e+00  2.709009e+00
##   [5459,]  4.985242e-01  2.074298e-01  1.150796e+00  6.109181e-01
##   [5460,]  6.797373e-01  8.443650e-02 -2.423731e-01  8.758030e-01
##   [5461,]  2.606360e-01  1.417360e+00 -2.138272e-01  2.012181e+00
##   [5462,] -5.801946e-01 -8.607133e-01 -1.360047e+00  3.047869e+00
##   [5463,] -7.657467e-01 -7.720535e-01 -1.734265e+00  7.643606e-01
##   [5464,]  1.088608e+00  5.988694e-01 -3.773376e-01  4.663984e-01
##   [5465,]  1.375132e+00 -4.025819e-01  1.100796e+00  8.387131e-01
##   [5466,]  7.026015e-02  3.171618e-01 -1.759267e+00  3.026766e+00
##   [5467,]  5.206144e-01 -8.471216e-02  8.127664e-03  6.510794e-01
##   [5468,]  1.311976e+00  3.088191e-01  9.383775e-01  1.161003e+00
##   [5469,]  1.172419e-01 -3.324325e-01 -2.303760e-01  8.778180e-01
##   [5470,]  1.258677e+00  3.588402e-01 -1.264981e+00  1.012508e+00
##   [5471,] -4.571617e-01 -5.963282e-01  5.096781e-02  3.190022e+00
##   [5472,] -1.728263e+00  1.273544e+00 -2.021284e-01  2.641592e+00
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##   [5473,] -2.331194e+00  5.830763e-02  1.330229e+00  6.830524e-01
##   [5474,]  5.592016e-01  8.061096e-01  1.241198e+00  5.666981e-01
##   [5475,] -1.386738e+00  8.193348e-01  4.670816e-01  1.280023e+00
##   [5476,] -1.384049e+00  7.616683e-01  3.214291e-01  2.462489e+00
##   [5477,] -3.199897e+00 -3.660385e-01  2.231255e-01  2.084547e+00
##   [5478,]  6.846249e-01 -8.019077e-01 -1.350465e+00  7.392761e-01
##   [5479,]  7.481651e-01  6.209538e-01  8.978340e-02  1.080519e+00
##   [5480,] -3.024240e+00 -7.846272e-01 -1.551990e+00  5.631558e-01
##   [5481,]  1.171150e+00  1.065914e+00  5.830829e-01  6.379692e-01
##   [5482,]  2.617210e-01 -4.748098e-01  1.479505e+00  2.115362e+00
##   [5483,] -7.345163e-01 -2.416930e-01 -1.212976e+00  7.077744e-01
##   [5484,]  1.204820e+00  5.602655e-01  1.159296e+00  6.672240e-01
##   [5485,] -3.035194e-02 -7.480463e-01 -3.270985e-01  3.053693e+00
##   [5486,]  5.587391e-01 -8.692335e-01 -6.000243e-02  2.534263e+00
##   [5487,]  5.413460e-01 -2.354358e-01  1.334884e+00  4.232702e-01
##   [5488,] -3.230114e-02 -2.573428e-01 -5.369043e-01  1.331170e+00
##   [5489,] -6.583582e-01  6.050906e-01  1.085472e+00  8.764630e-01
##   [5490,] -1.063042e+00 -7.595066e-01 -7.558482e-02  3.097872e-01
##   [5491,]  1.314142e+00 -2.764526e-01 -1.649222e+00  8.978437e-01
##   [5492,] -2.120678e+00  5.428639e-01  7.653623e-01  1.504052e+00
##   [5493,]  6.847748e-01 -1.626053e-02 -3.876381e-01  9.630212e-01
##   [5494,]  1.349865e+00  2.097768e-01  1.093727e+00  2.804611e+00
##   [5495,] -2.912271e-01  8.827714e-01 -5.684858e-01  8.479771e-01
##   [5496,]  1.249143e+00  1.860043e-01 -7.337227e-01  2.492858e+00
##   [5497,]  3.602855e-01  4.766984e-01  2.926333e-01  2.458342e+00
##   [5498,]  5.778484e-02  2.567797e-01 -1.864932e+00  1.025722e+00
##   [5499,]  1.613107e-01 -1.581831e-01  9.323590e-01  1.133690e+00
##   [5500,] -2.041091e-01 -7.507047e-01 -1.053406e+00  6.155890e-01
##   [5501,] -7.163748e-01  1.953562e-01 -5.200592e-01  1.732255e+00
##   [5502,]  2.178173e-02 -1.082947e+00  1.080038e+00  1.001513e+00
##   [5503,] -6.274922e-01  2.658729e+00 -1.311483e+00  6.977079e-01
##   [5504,] -7.640354e-01  1.931245e+00  8.857502e-01  1.008062e+00
##   [5505,]  7.376265e-02 -4.246757e-01  7.780619e-01  1.190165e+00
##   [5506,] -1.335155e+00  1.113753e+00 -2.667840e-01  2.588831e+00
##   [5507,] -1.986949e-01  5.134696e-01  5.153927e-01  8.530585e-01
##   [5508,] -1.321783e+00  2.653612e-01  9.996944e-01  2.996197e+00
##   [5509,] -1.307044e+00  1.684147e+00  1.792363e-01  1.359688e+00
##   [5510,] -1.211856e+00  1.166737e+00  1.379115e+00 -1.688973e-01
##   [5511,]  3.026945e-01 -1.068198e+00  2.290971e-01  2.053776e+00
##   [5512,]  7.922202e-01  1.815781e-01 -1.993534e+00  1.025648e+00
##   [5513,] -1.085641e+00  8.442301e-01  1.010768e+00  9.861881e-01
##   [5514,]  4.854209e-01 -1.391350e-03 -4.495886e-01  7.802797e-01
##   [5515,]  5.148586e-01  6.110302e-01 -1.895792e+00  9.327802e-01
##   [5516,] -3.236736e-01  3.320831e-01 -9.460018e-01  1.972160e-01
##   [5517,]  7.903630e-01  3.165305e-02 -2.049938e+00  1.206237e+00
##   [5518,]  1.402359e+00 -2.658730e-01  1.095408e+00  2.736921e+00
##   [5519,]  9.458393e-02 -6.319935e-02 -1.686498e+00  9.060812e-01
##   [5520,] -2.478932e+00  5.183966e-01 -1.816624e-01  8.172628e-01
##   [5521,]  4.749490e-01 -6.990058e-01  1.236879e+00  7.495765e-01
##   [5522,] -5.425743e-01  1.361088e+00  1.453009e+00 -1.132974e-01
##   [5523,]  7.490440e-01  2.019461e-01  1.087181e+00  1.038261e+00
##   [5524,] -6.984047e-01  1.814017e+00  9.571187e-01  1.103740e+00
##   [5525,]  4.745202e-01 -1.087799e+00  1.399069e+00  2.324790e+00
##   [5526,] -1.603682e+00 -2.821912e-04  7.726048e-01  2.050766e-01
##   [5527,]  5.406053e-01 -5.952687e-01 -1.251506e+00  2.465705e+00
##   [5528,]  5.641241e-02 -4.898632e-01 -1.547213e+00  2.933917e+00
##   [5529,] -2.221723e+00  7.023205e-01 -1.285548e+00  1.216068e+00
##   [5530,]  5.271850e-01  1.510522e+00  1.330049e+00  2.465521e+00
##   [5531,] -1.157736e-01  1.452817e+00 -4.010850e-01  2.669830e+00
##   [5532,]  3.593810e-01 -1.412306e+00  1.776286e-01  3.581624e-01
##   [5533,] -1.465477e+00 -7.960920e-02  7.741439e-01  2.565854e+00
##   [5534,]  4.837058e-01 -2.965650e-01  3.374495e-01  2.602719e+00
##   [5535,] -8.128013e-01  2.312056e-01 -1.464850e+00  5.112484e-01
##   [5536,] -6.880519e-01  3.210026e-02 -7.826979e-01  5.984977e-01
##   [5537,]  8.182627e-01 -2.485069e-04  9.692685e-01  2.940979e+00
##   [5538,]  5.946417e-01 -3.907721e-01 -1.207605e+00  6.967234e-01
##   [5539,]  7.840633e-01  3.568365e-01 -2.131073e+00  1.333497e+00
##   [5540,] -1.677499e+00 -3.986480e-01  1.105583e+00  7.240866e-01
##   [5541,] -2.455417e+00  6.581145e-02 -7.525208e-01  2.444628e+00
##   [5542,] -9.536644e-01  2.482366e+00 -1.974488e-01  5.840565e-01
##   [5543,]  3.117301e-01 -9.212776e-01  1.624346e+00 -4.494988e-03
##   [5544,]  1.109812e+00  1.428368e-01 -1.533191e+00  5.962802e-01
##   [5545,]  1.305352e+00  2.043515e+00  1.049127e+00  7.392132e-01
##   [5546,] -1.552682e+00 -1.258431e+00 -1.297615e-02  6.668915e-01
##   [5547,] -1.171306e+00 -1.095168e+00 -5.636218e-01  1.622401e+00
##   [5548,] -1.123007e+00 -8.161714e-01 -3.450159e-01  1.477057e-01
##   [5549,] -6.160502e-01 -3.051767e-01  4.871147e-01  3.469490e+00
##   [5550,]  4.114131e-02  1.533991e-02  1.113059e-01  1.035097e+00
##   [5551,]  1.084935e+00  2.908543e-01 -9.785567e-01  5.652057e-01
##   [5552,] -3.167357e-01 -1.447688e+00  2.665361e-01  3.901541e-01
##   [5553,] -1.149465e+00  8.240283e-01 -2.824026e-01  8.420231e-01
##   [5554,]  1.198661e+00  7.053563e-01 -3.916792e-01  7.844208e-01
##   [5555,] -8.347049e-01  9.263028e-02 -3.414524e-01  9.273504e-01
##   [5556,] -9.415050e-01 -9.582387e-01 -4.247958e-01  2.617666e+00
##   [5557,] -2.521318e+00  1.522703e+00 -1.507265e+00  2.655165e+00
##   [5558,]  1.856344e-02  4.154678e-01  8.154644e-01  1.543540e+00
##   [5559,]  6.000854e-01  3.997153e-02  1.116108e+00  2.752814e+00
##   [5560,]  1.005235e+00  8.659003e-01 -2.443813e-01  2.965025e-01
##   [5561,]  6.502906e-01 -1.336617e-01 -1.168910e+00  9.393413e-01
##   [5562,] -7.197143e-01  3.331795e-01 -2.361873e+00  1.763305e+00
##   [5563,] -6.855012e-01  6.877374e-03 -1.814557e+00  8.315418e-01
##   [5564,]  1.193370e+00  3.297944e-01 -5.336722e-02  4.549912e-01
##   [5565,]  1.320924e+00  2.871852e-01 -5.753372e-01  1.045955e+00
##   [5566,]  2.353014e-01  1.916235e+00  1.306784e+00  1.350717e-01
##   [5567,] -9.971747e-01 -7.692671e-01 -1.911356e-02  2.788382e+00
##   [5568,] -1.554326e+00  1.313013e+00 -1.422297e+00  1.224246e+00
##   [5569,]  1.364594e+00  3.383110e-01  6.631197e-01  8.906624e-01
##   [5570,] -1.193083e-01 -6.668231e-02 -1.710273e+00  5.995030e-01
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##   [5571,]  6.866568e-01  6.502977e-01 -1.997830e+00  1.028655e+00
##   [5572,]  7.831475e-01 -6.746959e-01  9.894592e-01  3.018100e+00
##   [5573,] -5.351890e-01  4.915638e-01  4.453097e-01  8.050835e-01
##   [5574,]  1.903335e-01  1.327957e+00  1.540254e+00  1.627911e+00
##   [5575,] -8.913033e-01  1.330446e+00  2.017154e-01  2.838280e+00
##   [5576,] -8.078065e-01  4.525807e-01  1.408847e+00  2.144022e+00
##   [5577,]  1.572370e+00  9.921460e-02 -4.501515e-01  2.966230e+00
##   [5578,] -1.314511e-02 -5.263409e-01  1.142615e+00  8.634828e-01
##   [5579,]  8.925545e-01 -5.807687e-02 -5.460940e-01  1.390832e+00
##   [5580,] -7.908907e-01  1.636748e+00  1.045837e+00  2.323138e+00
##   [5581,] -2.280499e-01  6.049527e-01  1.168301e+00  6.010854e-01
##   [5582,] -7.068493e-01  1.954891e-02 -1.564474e-02  4.188443e-01
##   [5583,] -1.202184e+00  7.937277e-01  9.692817e-01  1.077371e+00
##   [5584,] -1.369238e-01  1.570706e+00 -1.226656e+00  2.440798e+00
##   [5585,]  1.171887e+00  7.923969e-02  1.215709e+00  2.514792e+00
##   [5586,]  1.564878e+00  1.205109e+00  8.275675e-01  1.266977e+00
##   [5587,]  1.987587e-01  7.095785e-03 -9.603562e-01  1.197663e+00
##   [5588,]  3.607238e-01 -7.544121e-01  1.374508e+00  4.724893e-01
##   [5589,] -8.848354e-01 -1.683768e-02  1.211089e+00  6.405571e-01
##   [5590,]  1.133651e-02 -3.531918e-01  2.192125e-02  1.001543e+00
##   [5591,] -2.551604e-01 -6.114551e-01 -1.538779e+00  2.348034e+00
##   [5592,] -8.813858e-01 -7.969069e-01  1.028722e+00  3.117357e+00
##   [5593,] -6.964500e-01 -9.075441e-01  1.237837e+00  2.791764e+00
##   [5594,] -1.327485e+00  4.688161e-01  7.805277e-01  1.395782e+00
##   [5595,] -1.771808e+00  2.100792e+00 -6.457845e-01  4.542297e-01
##   [5596,] -1.404873e+00 -1.073013e+00 -1.731877e-01  1.454902e+00
##   [5597,] -9.229553e-01  8.319370e-01  1.241398e+00  2.438296e+00
##   [5598,] -8.791844e-01  8.766991e-01  1.244786e+00  2.433473e+00
##   [5599,]  2.072101e-01 -4.426916e-01 -3.349743e-01  1.164092e+00
##   [5600,]  1.267223e+00  7.986626e-01 -5.336918e-01  2.763012e+00
##   [5601,] -1.564185e+00  6.024553e-01 -4.345549e-01  1.143118e+00
##   [5602,] -4.734758e-01 -4.416991e-01  9.733964e-01  3.181751e+00
##   [5603,] -5.974311e-01  2.487002e-02 -5.225647e-02 -5.058147e-01
##   [5604,]  5.223655e-01 -7.319151e-01  1.296017e+00  5.389047e-01
##   [5605,]  1.219032e+00  8.465523e-01 -1.844889e+00  7.933710e-01
##   [5606,] -1.607648e+00  3.899592e-01  9.943013e-01  1.024896e+00
##   [5607,] -2.388691e+00  3.953978e-01  1.077460e+00  8.564376e-01
##   [5608,] -5.096851e-01 -1.456519e-01 -4.869368e-01  1.481275e+00
##   [5609,]  5.081474e-01  8.299725e-01 -2.049430e-01  7.674768e-01
##   [5610,]  1.001555e-01  9.761258e-01  8.700223e-01  1.117328e+00
##   [5611,]  1.526247e-01  3.440092e-01 -5.752827e-01  3.352416e+00
##   [5612,]  1.369671e+00  8.968312e-01  8.572277e-01  1.121963e+00
##   [5613,]  1.059054e+00  3.264496e-02  9.663768e-01  3.880410e-01
##   [5614,] -4.915639e-02  6.744589e-01  5.077260e-01  2.558650e+00
##   [5615,] -3.497635e-01 -7.267395e-01 -1.643512e-01  2.877731e-01
##   [5616,] -2.467487e+00 -3.035242e-01  1.190852e+00  7.827246e-01
##   [5617,]  1.524892e-01  1.090712e-01  7.201936e-01  1.471261e+00
##   [5618,]  1.318570e-01 -2.211127e-01  1.834994e-01  2.851974e+00
##   [5619,] -1.298659e-01  2.365005e-01 -1.440760e+00  1.062036e+00
##   [5620,]  6.646280e-01 -3.503775e-01 -1.918119e-01  7.700082e-01
##   [5621,] -3.419102e+00 -9.291349e-01  8.737719e-01  9.386120e-01
##   [5622,]  7.740127e-01  1.816697e-02  2.885066e-01  1.085271e+00
##   [5623,]  6.796779e-02  2.455168e-04 -1.636440e+00  8.407418e-01
##   [5624,]  5.583787e-01 -1.317510e+00  1.605145e-01  2.248457e+00
##   [5625,]  9.782416e-01 -1.120617e+00  1.094851e+00  1.707604e+00
##   [5626,] -9.928208e-02  1.210995e+00  1.251905e+00  4.771480e-01
##   [5627,]  7.527306e-01  5.730519e-01 -1.557433e+00  1.200327e+00
##   [5628,]  5.631933e-03  4.478412e-01  1.046335e+00  8.757623e-01
##   [5629,]  5.806351e-01 -5.627322e-01  3.179471e-01  7.603840e-01
##   [5630,]  1.902814e-01 -2.911305e-01  2.595821e-01  1.148132e+00
##   [5631,]  1.262342e+00  9.132620e-02 -3.635039e-01  1.020327e+00
##   [5632,]  5.819850e-01 -5.981862e-01  1.144302e+00  2.854305e+00
##   [5633,]  2.018038e-01  1.953455e+00  1.275749e-01  3.897341e-01
##   [5634,] -3.172741e-02 -8.838206e-02 -4.236931e-01  1.358843e+00
##   [5635,]  1.406410e+00  2.206976e+00  5.511851e-02  3.201375e+00
##   [5636,]  1.106122e+00  3.842503e-01  1.172219e+00  5.469174e-01
##   [5637,] -2.915248e+00 -1.839759e-01  9.290555e-01  9.726474e-01
##   [5638,]  7.329089e-01  3.033820e-01  8.825780e-01  1.260897e+00
##   [5639,] -8.365780e-01  4.006567e-01  1.199902e+00  6.442937e-01
##   [5640,] -2.257388e+00  4.714022e-01 -3.832092e-02  9.347866e-01
##   [5641,] -8.801442e-02  1.447406e+00 -1.860051e+00  6.942791e-01
##   [5642,] -7.431424e-01 -3.528304e-01  9.685722e-01  1.153668e+00
##   [5643,] -1.065347e+00  2.222114e+00 -2.151459e-01  5.119190e-01
##   [5644,] -2.373282e+00  1.229110e-01  1.027788e+00  2.910487e+00
##   [5645,] -6.980736e-01  6.540921e-01  1.047070e+00  2.843136e+00
##   [5646,] -7.355583e-02 -9.803186e-01  1.040853e+00  3.036407e+00
##   [5647,]  6.589812e-01 -1.057725e-02 -1.242587e+00  1.018024e+00
##   [5648,]  1.291819e-01  1.712904e-01 -1.125870e+00  1.156463e+00
##   [5649,] -6.951906e-01  1.887934e+00 -1.249553e-01  2.865328e+00
##   [5650,] -2.356061e+00  7.053041e-01  9.286094e-01  1.167040e+00
##   [5651,]  9.369943e-01  5.782887e-02 -1.753511e+00  1.325066e+00
##   [5652,] -1.379537e-01 -1.081434e+00  8.823494e-01  7.956628e-01
##   [5653,] -3.354019e-01  2.462270e+00  2.486410e-01  1.878978e+00
##   [5654,] -1.424187e+00  5.549750e-01  5.933065e-01  4.861159e-01
##   [5655,] -6.468862e-01  7.459753e-01 -2.247224e+00  1.635161e+00
##   [5656,]  1.862651e-01 -2.357842e-01  8.554179e-01  1.377701e+00
##   [5657,]  1.508502e+00  1.136978e+00 -4.921751e-01  1.076123e+00
##   [5658,] -7.187936e-01  1.842862e+00  2.550299e-01  2.656576e+00
##   [5659,]  1.110141e+00  7.373288e-01 -1.877185e-01  4.068260e-01
##   [5660,] -1.316828e-01 -7.286413e-01  1.296514e+00  6.492313e-01
##   [5661,]  1.813758e-01  7.269062e-03 -6.859546e-01  1.147677e+00
##   [5662,]  5.073615e-01  4.120186e-01 -3.026693e-01  9.499296e-01
##   [5663,] -1.257931e-01  7.838007e-01  1.034580e+00  7.745193e-01
##   [5664,] -9.094588e-01 -1.702991e-01  8.731746e-01  1.307715e+00
##   [5665,]  4.867461e-01 -4.284118e-01 -1.085018e+00  5.263210e-01
##   [5666,] -2.142571e-01 -3.625264e-03 -2.392901e-01  7.675223e-01
##   [5667,] -7.457757e-01  1.574093e+00 -2.773216e-01  2.240613e+00
##   [5668,]  4.354998e-02 -7.869494e-02  2.089656e-01  1.153654e+00
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##   [5669,]  2.363333e-01  2.756329e-01 -3.473847e-01  1.538895e+00
##   [5670,] -1.884707e+00  1.658541e-01  1.610264e+00 -1.379279e-02
##   [5671,]  8.471692e-01  1.421094e+00 -2.547982e-02  7.004106e-02
##   [5672,] -3.141653e-01 -8.807680e-01 -1.162880e-02  6.010818e-01
##   [5673,]  1.070879e+00  1.025677e+00 -1.676678e+00  3.430557e-01
##   [5674,] -8.326837e-01 -1.524727e+00  1.208002e+00  2.836450e+00
##   [5675,]  1.075562e+00  5.813005e+00  9.086725e-01  3.889759e+00
##   [5676,] -5.754098e-01  7.884487e-01  7.828602e-01  1.458040e+00
##   [5677,]  4.493866e-02 -1.954659e-01  8.404848e-01  3.396726e+00
##   [5678,] -4.826159e-01  1.003690e+00 -6.033991e-01  9.772834e-01
##   [5679,] -1.660421e+00 -3.938269e-01  5.175229e-01  8.933781e-01
##   [5680,] -7.943851e-01 -2.120788e-01  9.569172e-01  1.240630e+00
##   [5681,]  3.987040e-01  6.851907e-01  1.212469e+00  4.882580e-01
##   [5682,] -7.626362e-01 -1.587956e+00  1.298059e+00  7.368000e-01
##   [5683,]  8.899715e-02 -2.391280e-01  7.785893e-01  1.474142e+00
##   [5684,] -6.166981e-01  1.740784e+00 -5.588630e-01  2.786139e+00
##   [5685,] -9.092789e-01 -8.047317e-01 -1.686829e+00  2.992631e+00
##   [5686,] -2.357998e+00 -1.867527e-01  1.164942e+00  8.440211e-01
##   [5687,]  2.325098e-01  3.079079e-01 -1.588774e+00  1.304577e+00
##   [5688,] -2.388578e+00 -1.786921e-01 -4.480732e-01  9.168183e-01
##   [5689,]  3.597567e-01 -1.506566e+00  1.555192e+00  2.207066e+00
##   [5690,] -9.273331e-01  6.330938e-02  8.722176e-01  1.289789e+00
##   [5691,]  8.771467e-01  2.018147e-03  9.695136e-01  3.083798e+00
##   [5692,]  6.371497e-01 -7.421722e-02  6.846922e-01  9.800365e-01
##   [5693,]  1.918890e-01  4.323172e-01  6.965699e-01  3.279943e+00
##   [5694,]  7.463304e-01 -5.844752e-01 -6.649017e-01  2.671580e+00
##   [5695,]  6.109483e-01  4.967630e-01  1.047236e+00  8.894639e-01
##   [5696,]  6.524682e-01  5.375942e-02  8.041254e-01  1.305203e+00
##   [5697,] -1.270600e+00  6.706756e-01 -5.532362e-01  1.278791e+00
##   [5698,]  7.234819e-01 -4.355865e-01 -1.792168e+00  8.358943e-01
##   [5699,]  4.180127e-01 -5.386020e-01 -1.345815e+00  1.951846e+00
##   [5700,] -1.145597e+00  1.682039e+00  1.480514e+00 -1.430462e-01
##   [5701,] -1.940682e-01  3.783358e-01  1.954883e-01  4.212103e-01
##   [5702,] -1.506087e+00 -3.616133e-01  1.337683e+00  1.991805e-01
##   [5703,] -1.371883e-01  1.889940e-02 -1.958813e+00  1.011868e+00
##   [5704,] -2.288687e-01 -1.007330e+00  5.272333e-02  4.831965e-01
##   [5705,] -4.979721e-01 -6.538458e-01  1.214456e-01  2.090807e-01
##   [5706,] -2.145056e+00  7.271742e-01 -1.544280e+00  3.005828e+00
##   [5707,]  1.440195e-01  5.709444e-01  9.597145e-01  1.235916e+00
##   [5708,] -1.664528e+00  8.388130e-01 -1.203681e+00  8.963562e-01
##   [5709,] -1.617106e+00  1.262849e+00 -2.373201e-01  7.564426e-01
##   [5710,]  1.467482e+00 -5.400656e-02  9.935934e-01  2.916137e+00
##   [5711,] -5.228908e-01 -5.342469e-01  8.072488e-01  1.457057e+00
##   [5712,] -1.527190e+00 -5.435878e-01 -1.913853e+00  1.418220e+00
##   [5713,] -1.466700e+00  1.360082e+00  9.788524e-01  9.432599e-01
##   [5714,] -1.533946e+00  1.375225e+00  1.362103e+00  2.183077e+00
##   [5715,] -2.967881e-01  1.412032e+00 -1.613521e+00  3.905507e-01
##   [5716,]  1.169065e+00 -1.547374e-02 -1.320015e+00  5.829888e-01
##   [5717,]  6.571780e-01  1.534314e+00 -6.596221e-01  2.964281e+00
##   [5718,]  3.073976e-01  2.745455e+00  5.717887e-03  5.044337e-01
##   [5719,]  1.155725e+00  1.142327e+00 -5.177499e-01  7.085578e-01
##   [5720,] -1.895929e+00  1.418825e+00 -1.414027e-01  1.918419e+00
##   [5721,] -9.201989e-01  6.182653e-01  1.092591e+00  6.584870e-01
##   [5722,] -6.739443e-02  2.722499e-01 -3.738115e-01  1.043221e+00
##   [5723,]  8.521627e-01  1.819519e+00 -2.311052e-01  1.892449e+00
##   [5724,] -5.859048e-01  1.468120e+00 -2.084066e-01  8.035515e-01
##   [5725,] -3.549021e+00  4.438620e-01 -1.177486e+00  2.603304e+00
##   [5726,] -6.414955e-01 -5.071751e-01  1.002349e+00  1.157180e+00
##   [5727,]  8.411126e-01  1.369402e+00  1.597088e+00 -4.154614e-01
##   [5728,]  8.869411e-02  2.294418e+00 -1.237447e+00  9.518237e-01
##   [5729,]  7.210982e-01  6.005602e-01 -1.292336e+00  1.114330e+00
##   [5730,] -1.299616e-01 -6.761409e-01  1.038606e+00  1.093909e+00
##   [5731,]  6.185045e-01  8.223046e-01  2.957686e-01  8.080425e-01
##   [5732,] -1.255151e+00 -9.502045e-01 -5.312141e-01  1.402520e+00
##   [5733,] -1.544962e+00 -1.489905e+00 -1.305280e+00  8.214869e-01
##   [5734,]  6.611478e-01 -1.147467e+00 -3.276702e-02  5.888450e-01
##   [5735,]  3.626906e-02  2.171705e+00 -4.898175e-01  1.506026e+00
##   [5736,] -1.247207e+00  9.100207e-01 -1.004723e-01  9.689809e-01
##   [5737,]  7.965854e-01 -2.677635e-01  9.918758e-01  1.043553e+00
##   [5738,] -1.401874e+00  1.175629e+00 -7.579211e-01  1.279975e+00
##   [5739,]  5.938368e-01 -4.763702e-01 -5.627184e-01  1.025763e+00
##   [5740,] -8.005042e-01  1.839981e+00  1.145133e-01  2.143872e-01
##   [5741,]  3.874889e-03  3.367736e-01  7.264003e-01  1.218899e+00
##   [5742,] -1.575511e+00  3.177593e-01 -3.518645e-01  1.071220e+00
##   [5743,] -1.083175e-01 -1.166625e+00 -7.905775e-01  2.670564e+00
##   [5744,]  1.009251e-01 -5.523611e-01  1.200350e+00  2.746639e+00
##   [5745,]  1.827707e-01 -6.147519e-01  1.043275e+00  2.958276e+00
##   [5746,]  1.536430e-01  2.288021e-02  4.500618e-01  3.455427e+00
##   [5747,] -4.929035e-01 -1.099632e+00 -1.646227e-01 -8.808180e-02
##   [5748,] -7.930580e-01 -3.453157e-01  8.197691e-01  1.542874e+00
##   [5749,] -3.279490e-02 -9.665894e-01  4.047690e-01  6.350693e-01
##   [5750,] -2.328757e-01  1.336447e+00  1.350275e+00  2.218425e+00
##   [5751,] -1.276710e-01  7.972250e-01  1.364580e+00  2.206097e+00
##   [5752,]  4.523230e-01 -2.508620e-03 -6.289853e-02  5.343032e-01
##   [5753,] -8.280447e-01 -2.571460e-01 -7.452352e-01  3.278509e+00
##   [5754,]  7.216893e-01 -1.203470e-01  1.051343e+00  1.061300e+00
##   [5755,] -7.823828e-01  2.285814e+00  7.526921e-01  1.343226e+00
##   [5756,] -9.160320e-01  1.730182e+00  1.687201e-01  2.140912e-01
##   [5757,] -2.240939e+00  1.289748e+00 -1.558527e-01  3.162666e+00
##   [5758,]  7.064817e-01 -2.734708e-01 -4.155075e-02  2.672792e+00
##   [5759,] -1.090525e+00  1.430333e+00  1.612837e+00  1.667370e+00
##   [5760,] -1.600856e+00  6.831461e-01  1.056412e-01  1.035026e+00
##   [5761,]  1.215169e+00  3.332921e-01 -1.464496e+00  7.496411e-01
##   [5762,] -3.302531e-02  3.078984e-03 -1.412091e+00  8.042586e-01
##   [5763,]  7.700232e-01 -3.680735e-01 -3.116064e-01  1.045006e+00
##   [5764,] -6.777702e-01  4.361552e-01  1.042380e+00  2.819037e+00
##   [5765,] -9.211254e-01  5.661247e-01  6.202452e-01 -2.253786e-01
##   [5766,] -8.966018e-02 -6.844139e-01 -1.589386e+00  4.902334e-01
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##   [5767,] -7.853409e-01  2.175324e+00  9.045314e-01  6.559762e-01
##   [5768,]  7.852908e-01  3.865563e-01 -5.961433e-01  2.962566e+00
##   [5769,] -1.103375e-01  4.725541e-01 -1.678015e+00  1.133541e+00
##   [5770,]  1.506749e+00  1.155014e+00  1.659838e-01  1.269497e+00
##   [5771,]  8.113678e-01 -4.271160e-02 -1.672525e+00  1.001768e+00
##   [5772,]  7.172625e-01  4.665240e-01  1.007195e+00  2.938027e+00
##   [5773,]  1.006158e-01 -4.084044e-01 -3.817874e-01  1.012218e+00
##   [5774,] -4.325202e-01 -9.661609e-01  4.883607e-01  1.865703e-01
##   [5775,] -1.418173e+00 -2.183736e-01  2.662580e-02  2.280075e+00
##   [5776,]  6.092595e-01  2.872987e-01 -3.054039e-01  2.722669e+00
##   [5777,] -1.372804e+00  5.760228e-01 -1.433387e+00  1.030100e+00
##   [5778,]  1.371768e+00  7.935020e-01 -5.409771e-01  3.127619e+00
##   [5779,] -1.736563e+00  1.180609e+00 -9.042584e-01  2.396183e-01
##   [5780,] -7.754639e-01 -1.046990e+00  2.185406e-01  7.259661e-01
##   [5781,] -1.342742e+00  1.342870e+00  1.054895e+00  2.664766e+00
##   [5782,] -3.716855e-01  2.724585e-02  2.588624e-01  2.313004e+00
##   [5783,]  6.876702e-02  5.382018e-01  1.131223e+00  2.786565e+00
##   [5784,]  7.270700e-01  1.445808e-01 -1.930911e+00  1.021278e+00
##   [5785,] -7.801458e-01  1.389587e+00  9.939659e-02  2.081426e+00
##   [5786,]  2.991250e-01 -1.087214e-01 -7.357614e-01  3.242797e+00
##   [5787,] -7.967597e-01 -1.284793e+00 -1.234539e+00  2.893975e+00
##   [5788,] -1.481005e+00  7.675497e-01  1.084226e+00  8.352485e-01
##   [5789,]  4.013307e-01  5.208962e-01  1.639962e-01  2.520232e+00
##   [5790,] -1.240372e+00 -5.494702e-01 -2.931881e-01  1.511589e+00
##   [5791,] -1.453406e-01  1.030683e+00  9.046999e-01  9.801506e-01
##   [5792,] -3.175285e-01 -8.090778e-01 -1.405530e+00  2.294501e-01
##   [5793,]  1.031727e+00 -1.748539e-01 -1.568676e+00  3.433473e-01
##   [5794,]  1.414880e+00  7.675395e-01 -1.279193e+00  7.245874e-01
##   [5795,] -7.023975e-01 -4.282081e-01 -1.276336e+00  1.369307e+00
##   [5796,] -5.307696e-01 -1.300324e-01 -6.114294e-01  1.430554e+00
##   [5797,] -1.484311e+00  7.476364e-01  1.316337e+00  3.970640e-01
##   [5798,] -1.869888e+00  8.780062e-01 -5.934320e-02  4.298349e-01
##   [5799,] -1.105190e+00  2.076078e+00 -2.362872e-01  1.003700e+00
##   [5800,]  6.028534e-01  1.099523e-01 -1.330046e+00  2.707196e+00
##   [5801,]  1.241305e+00 -8.840275e-02 -1.827008e-01  2.645896e+00
##   [5802,]  7.197849e-01 -3.841568e-01 -1.396710e-01  2.839855e+00
##   [5803,]  8.119751e-01  2.774254e+00 -3.182573e-01  2.023975e+00
##   [5804,]  6.295681e-01 -3.651191e-01  4.104832e-01  1.139350e+00
##   [5805,] -2.202413e-01  3.235729e-01 -8.716961e-02  6.588193e-01
##   [5806,] -2.190897e-01 -1.384286e+00  4.861167e-01  1.823282e+00
##   [5807,]  6.806569e-01  7.675759e-01  9.052730e-01  1.096049e+00
##   [5808,] -1.649935e+00  9.714899e-01  1.154716e+00  6.663457e-01
##   [5809,]  8.627059e-01  3.911145e-01  8.011116e-01  1.349120e+00
##   [5810,]  7.287244e-01 -4.981732e-02  1.057076e+00  2.905703e+00
##   [5811,] -2.129424e-01  1.716892e+00 -7.126634e-01  5.173604e-01
##   [5812,]  1.191858e+00 -1.617468e-01 -1.061721e-01  6.621377e-01
##   [5813,]  1.353772e+00  7.152521e-01  1.494368e-01  1.148080e+00
##   [5814,] -5.752718e-01  1.449204e+00  1.159898e+00  1.727488e+00
##   [5815,]  3.716865e-01 -3.356158e-02  1.466212e+00  1.187439e-01
##   [5816,] -7.275676e-01 -1.287191e+00  1.361578e+00  6.300158e-01
##   [5817,] -9.514789e-01 -1.840793e+00  1.469221e+00  4.603304e-01
##   [5818,]  6.925402e-01 -7.180397e-01  1.215952e+00  7.276014e-01
##   [5819,] -1.125507e+00  8.747788e-01  7.615906e-01  1.482297e+00
##   [5820,] -6.234589e-02  2.478008e-01  3.170076e-01  1.264765e+00
##   [5821,] -1.377948e+00  1.683428e-01 -1.286287e+00  2.552443e+00
##   [5822,] -7.440737e-01  8.844949e-01  1.208559e+00  2.451468e+00
##   [5823,]  1.267371e+00  5.277183e-01 -9.675102e-01  7.811385e-01
##   [5824,] -1.498424e+00  1.286963e+00 -1.807751e+00  1.004712e+00
##   [5825,] -2.262106e+00  8.112113e-01 -1.511072e+00  9.155879e-01
##   [5826,]  2.090725e-01 -1.567697e-01  7.969603e-01  1.448806e+00
##   [5827,] -1.843381e+00 -2.284960e-01  1.137494e+00  7.702298e-01
##   [5828,] -1.032402e+00  1.089352e+00 -3.144895e-01  8.284913e-01
##   [5829,] -7.318916e-01  5.495186e-01 -2.217410e+00  1.704373e+00
##   [5830,] -1.084166e+00  8.532019e-01 -1.121989e+00  6.565745e-01
##   [5831,] -2.187857e+00  1.670217e-01 -2.762165e-01  1.239339e+00
##   [5832,]  1.315126e+00  1.413450e+00 -4.675556e-01  2.629965e+00
##   [5833,]  1.303183e+00  6.632045e-01 -1.947653e+00  9.602775e-01
##   [5834,]  1.497274e+00  1.402232e+00  2.244638e-01  1.090815e+00
##   [5835,]  4.124838e-01  3.958047e-01 -1.029069e+00  2.508111e+00
##   [5836,] -7.893140e-01  1.647083e+00  1.006580e+00  2.842698e+00
##   [5837,] -3.224661e-01  1.701877e-01 -1.505872e+00  5.665699e-01
##   [5838,]  5.854640e-01 -9.839496e-01  1.307095e+00  2.556088e+00
##   [5839,]  2.446901e-03  3.975031e-01  8.837120e-01  1.139505e+00
##   [5840,] -1.766664e+00  8.593849e-01  1.683877e+00 -2.794336e-01
##   [5841,] -7.119873e-01  9.989244e-01 -1.201133e+00  3.052955e-01
##   [5842,]  7.457158e-01 -2.501193e-01 -4.315902e-01  2.780875e+00
##   [5843,]  1.247588e+00 -3.409593e-01  1.325859e+00  2.482038e+00
##   [5844,] -7.964639e-02 -1.581167e+00  1.289901e-01  2.060966e+00
##   [5845,]  1.560467e-01  5.288430e-01 -1.781988e+00  1.276961e+00
##   [5846,] -7.623480e-02 -9.869008e-01  1.180640e+00  2.727606e+00
##   [5847,] -2.872721e-01  8.259949e-01  9.776495e-01  9.144402e-01
##   [5848,] -6.277243e-02 -3.718524e-01  1.059080e+00  9.869699e-01
##   [5849,] -9.808264e-01 -3.889568e-01  1.099279e+00  1.662755e+00
##   [5850,]  6.491609e-01 -1.740838e-01  1.200523e+00  2.602148e+00
##   [5851,] -6.762868e-01  1.070562e+00  1.138598e+00  7.686020e-01
##   [5852,]  1.220850e-01  1.394070e+00 -5.145849e-01  1.231585e+00
##   [5853,] -1.128630e+00  2.509753e-01  1.370803e+00  2.976493e-01
##   [5854,] -1.606546e+00  1.157292e-01  1.187842e+00  2.750894e+00
##   [5855,]  5.089013e-02 -1.237491e+00  1.247183e+00  2.675145e+00
##   [5856,] -1.316943e+00  4.211526e-01  1.580408e-01  7.056954e-01
##   [5857,] -1.122552e+00 -2.991562e-01 -1.332685e-01  1.922296e-01
##   [5858,]  7.119635e-01 -2.732516e-01 -5.041489e-01  2.886692e+00
##   [5859,]  1.134083e+00  5.019228e-01 -1.182808e-01  2.433557e+00
##   [5860,]  1.666691e-01  1.007501e+00  7.114892e-01  1.486790e+00
##   [5861,] -8.198354e-01  1.671727e+00  2.094658e-02  1.386286e+00
##   [5862,] -2.418538e+00  1.581762e+00  1.239172e+00  6.533971e-01
##   [5863,]  1.373252e+00  1.655914e+00  8.503106e-01  1.050446e+00
##   [5864,] -2.472905e+00 -9.766223e-01  1.470810e+00  4.534229e-01
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##   [5865,]  8.625996e-02  2.185519e+00  1.003398e+00  8.855472e-01
##   [5866,] -2.548543e-01 -2.993130e-01  1.161657e-01  1.458987e-01
##   [5867,] -7.112781e-01 -1.880703e-01 -1.748988e+00  1.400506e+00
##   [5868,]  1.292428e+00 -2.487717e-01 -1.213560e-01  2.726610e+00
##   [5869,]  5.174693e-01  6.036345e-01 -1.367483e+00  4.911947e-01
##   [5870,]  1.265462e+00 -9.324921e-01 -6.284280e-01  4.042644e-01
##   [5871,] -3.923792e-01  1.337119e+00 -1.493514e+00  1.979405e+00
##   [5872,] -3.965264e-01  1.532291e+00  1.658013e+00  1.512789e+00
##   [5873,]  6.238668e-01 -8.160387e-02 -1.356887e+00  7.349397e-01
##   [5874,] -2.409878e+00  9.686150e-01 -1.117618e+00  8.061432e-01
##   [5875,]  5.766077e-01  3.133575e-01 -5.010473e-01  6.188383e-01
##   [5876,] -7.708308e-01 -4.762644e-01 -2.176458e+00  1.539070e+00
##   [5877,]  1.240611e+00 -2.165693e-01  3.542067e-01  8.969982e-01
##   [5878,]  4.655587e-01  1.056242e+00  1.009354e+00  9.111461e-01
##   [5879,] -2.883219e+00 -3.861168e-01  1.069116e+00  1.039150e+00
##   [5880,] -5.916089e-01  8.779744e-01  2.956214e-04  1.438167e+00
##   [5881,]  1.231769e+00 -4.991615e-01  1.331854e+00  4.470735e-01
##   [5882,]  1.276940e+00  9.789380e-01  9.744674e-01  1.106461e+00
##   [5883,]  1.419367e+00  2.490144e-01  9.629097e-01  1.114345e+00
##   [5884,] -2.880522e+00  7.691628e-01  8.840875e-01  1.192994e+00
##   [5885,]  2.244566e-01 -4.661080e-01 -1.243277e+00 -1.656238e-01
##   [5886,] -1.894766e+00  3.386838e-01  1.562527e-01  1.358031e+00
##   [5887,]  1.338838e-02 -5.941758e-01 -1.410179e+00  7.711735e-01
##   [5888,] -6.973133e-01 -7.869760e-01 -1.765065e+00  9.087758e-01
##   [5889,]  6.916357e-01  4.957420e-01  7.152585e-01  8.280174e-01
##   [5890,] -2.785973e-01  1.106898e+00 -2.901776e-01  3.639240e-01
##   [5891,] -6.447565e-02  5.158037e-01 -2.921044e-01  8.104391e-01
##   [5892,] -4.635669e-01  2.734496e+00  1.246685e+00  2.140167e-01
##   [5893,] -7.434319e-01 -1.690500e+00  1.322993e+00  7.584336e-01
##   [5894,] -7.546279e-01  1.216811e+00  1.087126e+00  2.437293e+00
##   [5895,] -1.164943e+00 -1.991655e-02 -2.903643e-01 -3.429747e-01
##   [5896,]  8.294345e-01 -2.624601e-01  9.557722e-01  3.124040e+00
##   [5897,] -1.419361e+00 -1.234119e+00 -6.268494e-01  3.226444e+00
##   [5898,] -2.155263e-01  4.838632e-01 -4.359140e-01  1.629738e-01
##   [5899,] -7.459761e-01 -4.496027e-01  9.702243e-01  1.314046e+00
##   [5900,] -3.119351e-01  1.076565e+00  1.275616e+00  2.643400e-01
##   [5901,]  2.886478e-01 -6.680397e-01  9.671784e-01  3.108980e+00
##   [5902,] -9.412171e-01  5.934771e-01  7.769162e-02  2.135876e+00
##   [5903,] -1.772562e+00  1.510340e+00  1.069538e+00  2.609366e+00
##   [5904,]  1.144299e-01  4.594681e-01 -1.896704e-02  1.264343e+00
##   [5905,] -3.648036e-01  6.141792e-01  1.189547e+00 -1.509749e-01
##   [5906,]  1.222802e+00 -3.045798e-01  1.317724e+00  5.629742e-01
##   [5907,]  1.214963e+00  5.596361e-01  8.955194e-02  2.491771e+00
##   [5908,] -8.879831e-01 -1.703735e+00  1.663502e+00  2.032558e+00
##   [5909,]  1.275628e+00  6.386257e-01  1.103206e+00  2.347091e+00
##   [5910,]  1.157944e+00 -8.765368e-01  1.671920e+00  2.009526e+00
##   [5911,] -6.741362e-02 -7.470325e-01 -1.554434e+00  2.459196e+00
##   [5912,] -1.649895e-01 -1.882078e-01  1.138934e+00  7.710848e-01
##   [5913,] -1.134031e-01  1.955721e+00 -1.713377e+00  2.599680e+00
##   [5914,] -7.398924e-01  7.428669e-01  1.164174e+00  2.317295e+00
##   [5915,]  2.287475e-01 -6.120615e-01 -5.668524e-01  1.073804e+00
##   [5916,] -6.947708e-01 -6.000697e-01  6.329581e-01  1.454959e+00
##   [5917,] -4.862359e-01 -4.301566e-01  3.868426e-01  1.307194e+00
##   [5918,]  2.638540e-02 -1.071459e-02 -2.029771e+00  1.183018e+00
##   [5919,] -6.335699e-01 -3.791511e-01  9.624790e-01  1.196029e+00
##   [5920,] -4.267311e-01 -3.512133e-01 -9.007623e-01  3.507830e+00
##   [5921,]  6.310269e-01 -2.628429e-01  1.111899e+00  8.244620e-01
##   [5922,] -6.549424e-01 -4.571421e-01 -1.142100e+00  1.307215e+00
##   [5923,] -1.783442e-01 -7.032919e-01  2.190832e-01  6.267545e-01
##   [5924,]  2.003722e-02 -1.234983e+00  1.427192e+00  5.236666e-01
##   [5925,] -7.653847e-02  3.824888e-01  1.764009e-01  2.195991e+00
##   [5926,] -1.600734e-01 -8.887331e-01 -1.109853e+00  3.031400e-01
##   [5927,]  7.153555e-01  2.968989e-02  3.315180e-02  1.141457e+00
##   [5928,] -1.450066e+00  2.421265e-02  1.221404e+00  2.648515e+00
##   [5929,]  4.477175e-01  3.919841e-01  1.203779e-02  2.377098e-01
##   [5930,]  5.470901e-01 -1.044810e-01  1.016873e+00  9.849153e-01
##   [5931,] -1.347140e+00 -1.370009e+00 -1.487108e+00  1.109741e+00
##   [5932,] -8.932384e-01 -5.824788e-01 -7.526737e-01  1.261730e+00
##   [5933,]  6.973046e-01  7.420557e-02 -2.598235e-01  2.918547e+00
##   [5934,]  7.253061e-01  1.494195e+00  5.723158e-01 -3.151353e-01
##   [5935,]  6.131266e-01 -4.663683e-01 -1.742987e+00  7.745434e-01
##   [5936,]  1.085182e+00  1.599046e+00  1.139022e+00  3.781121e-01
##   [5937,] -1.366205e+00  6.810576e-01  9.622993e-01  3.125523e+00
##   [5938,] -2.140254e+00  1.843292e-01 -2.450236e-01  2.990902e+00
##   [5939,]  4.444423e-01  1.037589e+00  1.105369e+00  6.413519e-01
##   [5940,] -1.433998e+00  1.021613e+00 -2.455837e-01  9.419458e-01
##   [5941,]  1.039270e+00  1.152678e+00  5.905629e-01  2.933869e-01
##   [5942,] -5.861292e-01  1.453427e+00 -1.312573e+00  1.020602e+00
##   [5943,] -1.179747e-01 -4.349455e-01  1.904033e-01  7.750730e-01
##   [5944,]  2.598059e-01 -5.017646e-01  9.318814e-01  1.222332e+00
##   [5945,]  1.140634e+00 -6.693958e-01  1.330035e+00  2.448432e+00
##   [5946,] -6.298362e-01  6.885145e-01 -9.296087e-01  1.512725e+00
##   [5947,]  1.282218e+00  8.009865e-02 -9.336720e-01  5.629155e-01
##   [5948,]  1.231485e+00  3.317242e-01 -1.350880e-01  2.742971e+00
##   [5949,] -5.556164e-01  4.926557e-01 -5.812663e-01  7.569324e-02
##   [5950,]  6.629969e-01  1.774521e+00  1.364456e+00 -2.482445e-01
##   [5951,]  2.598603e-01  5.113139e+00 -7.713069e-01  2.056171e+00
##   [5952,]  1.233551e+00  1.999653e+00  8.447702e-02  6.656498e-01
##   [5953,]  8.661552e-01  1.022540e-01  8.971901e-01  3.067936e+00
##   [5954,]  3.932754e-01 -1.338401e-01 -4.276167e-02  3.206830e-01
##   [5955,]  7.823692e-01  1.818640e+00  1.250101e+00  9.718864e-02
##   [5956,] -7.483706e-01 -1.380136e+00  1.188744e+00  9.917934e-01
##   [5957,]  1.208691e+00  1.321577e-01 -1.046178e-01  6.945458e-01
##   [5958,]  1.251064e+00  1.368956e-01  7.960793e-01  2.486141e+00
##   [5959,] -7.726384e-01  5.615949e-01 -1.058157e+00  1.119919e+00
##   [5960,]  6.180869e-01  5.583168e-01 -1.120041e+00  7.336142e-01
##   [5961,] -7.184711e-01  1.501121e-01  8.617005e-01  1.276119e+00
##   [5962,] -6.899575e-01  2.702821e-01 -5.203864e-01  1.047113e+00
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##   [5963,]  4.972988e-01 -1.963814e-01 -1.422193e+00  2.375155e+00
##   [5964,] -4.096331e-01  2.241649e-01  1.469709e-01  1.001426e-02
##   [5965,]  5.843907e-01 -6.725253e-01  1.237949e+00  7.464768e-01
##   [5966,]  1.275077e+00 -3.463819e-01  3.166627e-01  2.350362e+00
##   [5967,]  1.264208e+00  1.910631e-01  1.069216e+00  9.911217e-01
##   [5968,]  7.334056e-01  6.144176e-01 -7.158680e-01  1.213112e+00
##   [5969,]  5.137583e-01  7.170825e-01  2.454236e-01  2.767552e+00
##   [5970,] -3.209158e-01 -1.429257e-01 -9.408302e-01  1.715616e+00
##   [5971,] -3.806002e-01  1.215078e-01 -5.392158e-01  1.597701e+00
##   [5972,] -9.441467e-01 -9.772641e-01  7.296809e-02  2.397457e+00
##   [5973,] -1.379570e+00 -1.865927e+00  1.243156e+00  2.861186e+00
##   [5974,] -6.575997e-01 -5.400832e-02 -2.065009e+00  1.318714e+00
##   [5975,] -3.076976e-02 -7.456464e-01 -1.136099e+00  9.728106e-01
##   [5976,]  6.481252e-01 -1.659954e-01 -1.295219e+00  9.098184e-01
##   [5977,]  6.237993e-01 -2.714088e-01 -8.521395e-02  7.588720e-01
##   [5978,]  2.211112e-01 -4.381044e-02 -1.267935e+00 -1.329766e-01
##   [5979,] -1.817415e-01  1.900477e+00  1.050615e+00  6.591493e-01
##   [5980,]  3.481028e-01  9.044977e-02 -1.246173e+00  1.862745e-01
##   [5981,] -3.231008e+00  6.909224e-01  1.060012e+00  6.280186e-01
##   [5982,] -4.406219e-01  1.199809e+00  4.724420e-02  2.821450e+00
##   [5983,]  4.566841e-01 -1.737129e-02  1.325488e+00  3.365455e-01
##   [5984,]  5.614294e-01  2.599298e+00 -3.429658e-01  9.343892e-01
##   [5985,]  7.524115e-01  1.712652e-01 -1.801386e+00  1.007216e+00
##   [5986,] -8.016405e-01  8.075481e-01 -5.679055e-01  3.412640e+00
##   [5987,]  6.439397e-01 -6.042108e-02  9.321820e-01  2.802302e+00
##   [5988,]  5.591649e-01  7.944504e-02 -2.263225e-01  9.874145e-01
##   [5989,] -1.051127e+00 -8.806045e-01 -1.168988e+00  2.660806e+00
##   [5990,] -2.936286e+00 -2.877849e-01  1.200767e+00  2.749967e+00
##   [5991,] -1.304550e+00 -1.096552e+00  1.013886e+00  3.144941e+00
##   [5992,] -2.339666e-01  2.546763e+00 -4.732538e-01  6.202379e-01
##   [5993,]  1.295207e+00  6.159963e-01  7.008151e-01  1.144853e+00
##   [5994,] -1.565408e+00  2.042550e+00  7.366890e-01  8.160916e-01
##   [5995,] -6.244634e-02 -1.252055e+00  1.564611e+00  2.166201e+00
##   [5996,]  4.171361e-01 -9.883011e-01  1.578801e+00  1.872524e-01
##   [5997,] -1.639277e+00  7.001466e-01  7.284444e-01  6.155074e-01
##   [5998,] -1.597841e+00  2.427800e+00 -1.882289e+00  8.505975e-01
##   [5999,] -6.799161e-01 -2.707599e-01 -1.566969e+00  1.459640e+00
##   [6000,]  1.149382e+00  3.597696e-01  5.130043e-01  2.557808e+00
##   [6001,]  8.569164e-01  3.335336e-01 -4.532887e-01  1.202018e+00
##   [6002,]  1.191367e+00  3.069071e-01  1.163044e+00  2.677541e+00
##   [6003,]  7.277357e-01 -6.519609e-01 -1.271580e+00  2.547134e+00
##   [6004,]  1.002815e-01  1.803527e-01  1.043039e+00  9.187813e-01
##   [6005,] -4.544255e-01  1.583684e+00  1.366366e+00  1.067025e-01
##   [6006,]  6.794406e-01 -2.229066e-02  2.882560e-01  2.501686e+00
##   [6007,] -1.018118e+00  1.425489e+00  1.377689e+00  2.183680e-01
##   [6008,]  7.616868e-02 -3.531416e-02 -1.545087e+00  9.825138e-01
##   [6009,] -9.187670e-01 -3.167227e-01  1.554798e+00  2.256517e-01
##   [6010,]  9.088248e-01  9.402122e-01  7.659576e-01  1.404327e+00
##   [6011,] -1.043959e+00  7.652794e-01  3.765382e-01  2.095283e+00
##   [6012,] -7.628673e-02 -1.481255e+00  1.530565e+00  2.307834e+00
##   [6013,]  1.234387e+00 -2.960253e-01  1.372027e+00  2.307154e+00
##   [6014,] -1.888859e-01  1.026524e+00 -7.079443e-02  6.224122e-01
##   [6015,]  3.934958e-01  8.472841e-01  8.016724e-01  6.925772e-01
##   [6016,] -1.785279e+00  4.450065e-01 -8.029290e-01  2.082767e+00
##   [6017,] -9.125110e-01  2.478188e+00  1.063686e+00  6.125510e-01
##   [6018,]  2.134247e-01  4.101678e-01  3.905951e-02  2.246127e-01
##   [6019,]  9.420570e-01  1.519903e+00 -8.353357e-02  2.174081e+00
##   [6020,] -1.251940e+00  8.812080e-01  9.198676e-01  1.178423e+00
##   [6021,] -7.217043e-01 -7.232385e-01 -1.098193e+00  9.004046e-01
##   [6022,]  1.304656e-01  9.391846e-01  6.642530e-01  1.600682e+00
##   [6023,] -1.040970e+00 -6.848413e-01  1.463214e+00  3.700174e-01
##   [6024,] -1.235860e-01  6.518206e-01 -1.618404e-01  7.122702e-01
##   [6025,] -3.064866e-03  1.476816e-01 -3.720789e-01  1.160214e+00
##   [6026,]  1.646250e-01 -6.250724e-01  4.120230e-01  9.395007e-01
##   [6027,] -5.923119e-01 -1.148007e+00 -2.150539e-01  2.775709e+00
##   [6028,]  8.230112e-01  7.524431e-01 -7.802457e-01  1.233511e+00
##   [6029,]  1.124356e+00 -2.526324e-01  2.747086e-03  5.739667e-01
##   [6030,]  4.952055e-01  8.469537e-01 -3.205477e-01  6.897252e-01
##   [6031,] -2.482055e+00  1.428639e+00  9.782449e-01  9.540376e-01
##   [6032,] -5.524500e-01 -6.553048e-01 -2.390175e-01  1.097953e+00
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##   [6034,]  3.543179e-01  1.926206e+00 -1.135519e-01  2.392584e-01
##   [6035,] -6.900914e-01 -3.588072e-05 -7.931847e-01  3.324267e+00
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##   [6038,]  9.415073e-01  3.739281e-02 -7.598416e-01  1.333342e+00
##   [6039,]  7.138951e-02  2.526927e-01 -5.461200e-01  8.194405e-01
##   [6040,]  4.360555e-01  3.313368e-01 -2.080250e-01  3.956379e-01
##   [6041,] -1.626840e+00 -4.235063e-01  1.352323e+00  5.414970e-01
##   [6042,]  1.154057e+00  2.936900e-01 -1.259287e-01  5.521913e-01
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##   [6048,]  6.578463e-01 -5.701369e-01 -2.625842e-01  9.408811e-01
##   [6049,] -2.618182e-01  1.381075e+00 -2.985939e-01  1.999637e+00
##   [6050,] -2.596708e+00 -8.356578e-01  1.975165e-01  2.208748e+00
##   [6051,]  7.795682e-01  8.420625e-01 -5.322598e-01  2.914592e+00
##   [6052,]  6.226259e-01 -4.232595e-01  1.082795e+00  8.941738e-01
##   [6053,]  1.147829e+00 -7.325477e-01 -1.205861e+00  2.392987e+00
##   [6054,]  1.049486e+00  6.622660e-01  1.420157e+00  1.995750e+00
##   [6055,] -1.574250e+00  1.882252e+00  7.940243e-01  1.268927e+00
##   [6056,] -1.636722e+00  3.802712e-01  9.282848e-01 -6.229148e-02
##   [6057,]  7.408235e-01  1.049053e-01  8.507877e-01  1.246404e+00
##   [6058,] -4.680798e-02  1.803235e+00 -1.191294e+00  2.353265e+00
##   [6059,] -2.151342e+00  6.237755e-01  8.050977e-01 -2.979816e-01
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##   [6065,] -9.146662e-01 -9.925887e-01  1.191147e+00  8.652407e-01
##   [6066,] -7.925478e-01  1.737110e+00  1.004954e+00  9.891307e-01
##   [6067,] -2.365028e+00  2.425398e-01  1.036868e+00  1.077926e+00
##   [6068,]  1.725277e-01  2.972917e-01  7.811551e-01  1.334793e+00
##   [6069,]  5.035033e-01 -1.036648e+00  7.375430e-01  2.321811e+00
##   [6070,] -7.883611e-01 -1.086588e+00 -1.048112e+00  8.988733e-01
##   [6071,] -1.414302e+00  8.079749e-01  2.143821e-01  7.648560e-01
##   [6072,] -8.000738e-02  1.004469e-01  9.230083e-01  6.393576e-01
##   [6073,]  8.053090e-01 -3.915682e-01 -6.422783e-01  1.067442e+00
##   [6074,] -6.023332e-01  1.033554e+00  1.772234e-02  6.471581e-01
##   [6075,] -2.265133e-01  1.497911e+00 -1.644949e+00  2.079159e+00
##   [6076,]  7.993869e-01 -3.927992e-01  4.790834e-01  1.079004e+00
##   [6077,] -9.170135e-01  9.573385e-01 -1.666612e-01  8.338997e-01
##   [6078,]  3.797042e-01 -6.966940e-02 -1.533835e-01  5.306169e-01
##   [6079,] -1.259159e+00 -8.487038e-01  1.479475e+00  3.577341e-01
##   [6080,]  1.047117e+00  9.182947e-01  5.139562e-01  1.991304e+00
##   [6081,]  3.524297e-01  2.075488e+00  1.255906e+00  2.498955e-01
##   [6082,] -7.665196e-01  8.264866e-01 -2.904224e-01  7.173649e-01
##   [6083,] -2.720120e-01 -2.312989e-01  1.287065e+00  2.118943e+00
##   [6084,]  1.417921e+00  1.536715e+00 -3.967984e-01  1.197818e+00
##   [6085,] -1.344356e-02 -8.462939e-01  3.498978e-02  4.903512e-01
##   [6086,]  4.774868e-01 -6.562368e-01 -3.958003e-02  2.548989e+00
##   [6087,]  4.048082e-01  9.978882e-02  8.902516e-01  1.939020e-01
##   [6088,] -8.052018e-01  1.231213e-01 -1.861374e-01  6.383000e-01
##   [6089,]  1.127012e-01 -3.576199e-01 -1.346821e+00  2.642331e+00
##   [6090,] -5.419087e-01 -1.169372e+00  1.108487e+00  2.946993e+00
##   [6091,]  8.308919e-02 -1.953636e-01  6.951243e-01  2.632392e+00
##   [6092,] -4.383150e-02 -2.142101e-02  8.533503e-01  1.295289e+00
##   [6093,] -8.837352e-01  2.817307e+00 -2.236433e-01  3.462314e-01
##   [6094,] -4.350872e-01  9.222704e-01  7.630998e-01  1.371394e+00
##   [6095,]  9.881569e-01  2.482643e+00  1.934135e-01  5.847663e-01
##   [6096,] -1.723402e+00  1.403103e+00  1.126629e+00  8.240592e-01
##   [6097,] -3.864162e-01  1.995483e+00  1.489763e+00 -2.290805e-01
##   [6098,] -7.984366e-01 -1.419729e+00  9.068258e-01  4.387407e-01
##   [6099,] -4.164132e-02  7.283143e-01 -6.707752e-01  1.109857e+00
##   [6100,] -9.679712e-01  8.309369e-01 -1.060224e-02  2.350490e+00
##   [6101,] -5.851097e-01  1.193874e+00 -1.397452e-01  1.915557e+00
##   [6102,] -6.196337e-01 -8.956203e-01 -1.439299e+00  2.928299e+00
##   [6103,]  6.382076e-01  3.519096e-01 -7.210210e-01  1.188541e+00
##   [6104,] -1.233577e+00  1.336835e+00 -3.801909e-02  1.661640e+00
##   [6105,]  9.077539e-01  1.702357e+00  2.311904e-01  3.230393e+00
##   [6106,] -7.174865e-01 -5.482889e-02  3.759080e-02  4.278457e-01
##   [6107,] -9.413231e-01  1.383815e+00 -3.507036e-01  3.675995e-01
##   [6108,]  1.078991e+00 -5.865226e-01  1.465523e+00  2.076799e-01
##   [6109,]  1.650721e-01 -2.997142e-01  9.046558e-01  1.233586e+00
##   [6110,] -5.677807e-01  1.255396e+00  1.976255e-01  1.063775e+00
##   [6111,]  4.656020e-02  5.030272e-01 -1.760881e+00  2.825967e+00
##   [6112,] -1.552855e-01 -5.753474e-01  1.195160e+00  7.424357e-01
##   [6113,]  1.439939e+00  1.529749e-01 -3.294037e-02  1.273691e+00
##   [6114,] -3.791737e-01  1.703223e-01  4.111876e-02  2.767151e-01
##   [6115,]  1.276938e+00  4.278663e-01  2.141405e-01  1.064274e+00
##   [6116,]  6.862269e-01 -4.712198e-01  5.284818e-01  2.708041e+00
##   [6117,]  7.322920e-01 -4.323600e-01  1.203965e+00  2.658197e+00
##   [6118,]  6.264847e-01 -5.460762e-01 -1.416200e+00  8.149045e-01
##   [6119,]  1.464699e-01 -3.290753e-01 -1.595532e-01  8.567829e-01
##   [6120,] -5.457531e-01  1.044956e+00  3.272920e-01 -2.314250e-01
##   [6121,] -1.260684e+00  6.148269e-01  1.094523e+00  9.053649e-01
##   [6122,]  2.253443e-01  1.872225e+00 -1.598995e+00  2.244889e+00
##   [6123,] -9.844240e-01 -1.303808e+00 -1.207406e-01  2.797176e+00
##   [6124,] -1.299833e+00  5.985652e-01 -1.062956e+00  7.638389e-01
##   [6125,]  1.221485e+00 -3.665752e-02  1.694078e-01  6.918496e-01
##   [6126,] -1.267031e+00  6.079383e-01 -1.785929e+00  1.056251e+00
##   [6127,]  5.924989e-01  1.903129e+00 -1.535303e-01  8.582433e-01
##   [6128,]  6.570695e-01  3.945514e-01  1.485556e-01  9.250425e-01
##   [6129,] -1.416428e+00 -3.551331e-02  3.381218e-01  1.356121e+00
##   [6130,] -2.347716e+00  5.523333e-01  1.808781e-01  2.952807e+00
##   [6131,] -5.282931e-01  9.100925e-02 -5.547360e-01  3.459407e+00
##   [6132,]  1.224496e+00  6.446939e-01  1.013980e+00  8.542479e-01
##   [6133,] -6.829577e-01 -2.514552e-01 -2.749917e-02  1.466193e+00
##   [6134,] -2.661932e+00  4.224169e-01  3.192311e-02  3.752425e-01
##   [6135,] -1.299909e+00  7.193588e-01  5.495711e-02  1.498663e+00
##   [6136,] -1.443746e+00  2.998113e-01 -4.366266e-01  1.043788e+00
##   [6137,]  5.432259e-01  1.432854e+00  1.954144e-01  5.844103e-01
##   [6138,]  1.350368e-01  1.451965e+00 -4.709352e-02  1.560200e+00
##   [6139,]  1.154427e-01 -1.269926e-01 -1.471799e+00  8.539455e-01
##   [6140,]  1.211185e+00  2.855346e-01  1.056292e+00  7.872000e-01
##   [6141,]  4.042863e-01  2.354873e+00  1.139327e+00  3.828250e-01
##   [6142,] -5.302108e-02  1.278993e-01  5.385013e-01  8.497111e-01
##   [6143,]  5.121821e-01  5.582461e-01  8.567900e-01  4.501881e-01
##   [6144,] -3.078753e-01 -6.434492e-02  1.155112e+00  6.666828e-01
##   [6145,]  1.439526e+00  1.094778e-01  3.987053e-02  1.131492e+00
##   [6146,] -2.473317e-02 -9.045499e-01 -7.467250e-01  6.426850e-01
##   [6147,] -9.646938e-01  6.400394e-01  1.244663e+00  5.191815e-01
##   [6148,]  1.487412e+00  1.210412e+00  1.154757e-01  1.028519e+00
##   [6149,]  7.485183e-01  4.944934e-02 -1.589222e+00  9.835564e-01
##   [6150,]  5.733650e-02 -5.216000e-01  9.166971e-01  1.262444e+00
##   [6151,] -9.721312e-02  8.011408e-02  1.225228e+00  7.201373e-01
##   [6152,] -9.918355e-01  4.401023e-01 -1.231355e+00  1.946431e+00
##   [6153,]  1.007310e-01 -1.289000e-01 -1.094082e-01  1.071602e+00
##   [6154,]  1.490074e+00  3.680656e-01 -9.836766e-01  1.259318e+00
##   [6155,] -2.530655e+00  1.385927e+00  1.095654e+00  8.141302e-01
##   [6156,] -8.004116e-01  1.862820e-01  6.069026e-01  2.301262e-01
##   [6157,]  1.345781e+00  1.119469e+00 -3.498229e-01  8.946276e-01
##   [6158,]  4.138956e-01 -1.024417e-01  9.798576e-01  7.806660e-02
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##   [6159,]  5.029996e-01  1.944778e-01  1.187157e+00  2.714393e+00
##   [6160,] -8.312408e-01  8.641415e-01  1.193718e+00  2.637866e+00
##   [6161,] -1.048080e+00  6.799434e-01 -1.336205e-02  1.071228e+00
##   [6162,]  4.296546e-01 -4.732423e-01  7.369133e-01  1.974958e+00
##   [6163,] -4.607544e-01 -1.705271e+00  1.715484e+00  1.904785e+00
##   [6164,] -2.388682e-01 -8.481751e-01  1.241832e+00  7.153401e-01
##   [6165,] -5.724175e-02  2.027104e-02 -1.049874e-01  5.159730e-01
##   [6166,]  1.300254e+00  2.533829e-01  1.238926e+00  2.523252e+00
##   [6167,] -7.561634e-01 -1.812758e-01  1.141392e+00  7.310115e-01
##   [6168,]  1.326325e+00  3.242816e-01 -4.484449e-01  1.006532e+00
##   [6169,]  5.842528e-01 -9.579654e-01  1.086913e-01  3.747976e-01
##   [6170,] -8.882307e-01 -8.975763e-02 -1.335278e+00  5.672275e-01
##   [6171,]  4.917521e-01 -6.392614e-01 -2.371818e-01  2.580367e+00
##   [6172,]  1.246691e+00 -1.703851e-02  1.149650e+00  6.897355e-01
##   [6173,] -8.682911e-01 -9.773575e-01 -2.289890e-01  3.087354e+00
##   [6174,]  5.824697e-02  1.632777e+00 -2.228433e-01  1.832643e+00
##   [6175,] -4.107904e-01 -5.329159e-01  2.903428e-01  1.482077e+00
##   [6176,] -3.085875e+00  6.950436e-01 -3.620790e-01  9.421018e-01
##   [6177,]  4.040218e-01 -4.913328e-01  2.393595e-01  5.446629e-01
##   [6178,] -2.079418e-01  1.164447e+00  1.011601e+00  2.037198e+00
##   [6179,]  1.344690e+00  4.274371e-01 -1.992281e+00  1.040542e+00
##   [6180,] -2.180601e-02 -5.834292e-01 -1.188595e+00  6.922024e-01
##   [6181,] -4.690916e-01 -7.511651e-01 -2.406261e-01  3.123148e+00
##   [6182,]  4.405185e-01 -4.936833e-01 -1.490405e+00  6.046975e-01
##   [6183,]  1.062045e+00  2.976330e+00  1.059919e+00  2.568969e-01
##   [6184,] -1.119323e-01 -3.533363e-02 -1.341027e-01  2.147617e+00
##   [6185,]  2.850336e-01  4.630126e-01  1.318638e+00  4.044349e-01
##   [6186,] -1.699639e+00  2.252475e-01 -1.536332e+00  2.552117e+00
##   [6187,]  3.259583e-01  2.948025e+00  6.043592e-01  2.132319e+00
##   [6188,] -5.399969e-01  8.087600e-01 -1.467244e+00 -6.962564e-02
##   [6189,] -5.446489e-02  1.523536e-01  1.480728e-02  3.099198e+00
##   [6190,] -7.381603e-01 -1.209652e+00 -1.919923e-01  1.024652e+00
##   [6191,] -2.576711e-01  3.589941e+00  1.945279e-01  2.132629e+00
##   [6192,]  9.686628e-01  7.452631e-01  1.314001e+00  2.528064e-01
##   [6193,] -1.612378e+00 -1.459322e+00  2.616215e-01  2.306089e+00
##   [6194,]  7.005632e-01 -2.624798e-01 -1.254616e+00  8.164801e-01
##   [6195,] -1.353878e+00  2.530835e-02 -1.846505e+00  1.256326e+00
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##   [6197,] -1.344710e-01 -1.130554e-01  1.200900e+00  8.148804e-01
##   [6198,]  2.641144e-01  4.140905e-01  7.665684e-01  1.355095e+00
##   [6199,]  5.156438e-01  1.346173e+00 -2.341238e-01  5.030636e-01
##   [6200,]  9.509592e-01  4.235130e-01 -7.678441e-01  3.237013e+00
##   [6201,] -8.141535e-02  3.585281e-01 -1.240639e-01  2.353872e+00
##   [6202,]  1.156824e+00 -5.726153e-02 -1.071128e+00  6.924684e-01
##   [6203,] -4.864664e-01 -3.164040e-01 -1.977110e+00  3.111162e+00
##   [6204,]  8.836443e-01 -2.078679e-01  9.187073e-01  1.218062e+00
##   [6205,]  3.992277e-01  3.575567e-03  2.014147e-01  1.486252e-01
##   [6206,]  7.274039e-01  1.358296e+00 -3.868176e-01  1.085691e+00
##   [6207,] -5.963256e-01 -2.002421e-01 -4.549023e-01  1.295554e+00
##   [6208,]  4.369162e-01  1.181197e+00 -1.554849e+00  4.606230e-01
##   [6209,]  3.359787e-01 -3.849315e-01 -1.113709e-01  1.465727e-01
##   [6210,] -5.068004e-01 -7.284980e-01  1.003410e+00  3.084862e+00
##   [6211,]  6.847140e-01 -4.660326e-01  9.565349e-01  2.514452e+00
##   [6212,] -4.428723e-01 -6.988720e-01 -1.031385e+00  1.386638e+00
##   [6213,] -7.785181e-01  1.530793e+00  1.291839e+00  2.929456e-01
##   [6214,] -7.249813e-01 -1.339050e+00  1.259522e+00  8.424548e-01
##   [6215,] -1.598343e+00  5.515227e-01 -1.627694e+00  4.509203e-01
##   [6216,]  1.161118e+00 -2.532816e-01  1.312783e+00  2.524942e+00
##   [6217,]  1.157087e+00  3.813438e-01  1.129899e+00  7.727840e-01
##   [6218,] -3.609460e-01  9.869204e-01  1.306860e+00  2.683326e-01
##   [6219,] -3.833785e-01 -7.382339e-01  7.556819e-01  1.625647e+00
##   [6220,]  1.469734e-01 -3.423415e-01  5.578626e-01  2.969147e+00
##   [6221,] -3.158153e+00 -1.044967e-01  7.125507e-01  3.745976e-01
##   [6222,] -1.415826e+00  7.053185e-01 -1.386658e-01  2.530885e+00
##   [6223,]  5.701297e-01  6.107202e-02 -3.480479e-01  9.831407e-01
##   [6224,] -1.450441e-03 -3.654018e-01  1.404513e-01  1.094169e+00
##   [6225,] -4.472827e-02  1.389589e-01  9.771462e-01  1.088206e+00
##   [6226,] -1.749381e-01  1.167309e+00  1.219619e+00  6.781053e-01
##   [6227,] -4.387000e-03 -9.331736e-01 -1.344533e+00  7.762882e-01
##   [6228,] -6.118792e-02 -1.881593e-01  1.136350e+00  8.027666e-01
##   [6229,] -7.826037e-01  2.019329e+00  5.145338e-01  6.523783e-01
##   [6230,] -1.543374e+00  5.171350e-01 -7.516677e-01  1.711144e+00
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##   [6233,]  5.195770e-01 -1.107054e-01  1.085605e+00  9.062186e-01
##   [6234,] -2.057529e-01  6.767751e-01 -2.111564e-02  5.162249e-01
##   [6235,]  1.520831e-01  6.040273e-02  7.996969e-02  2.800764e+00
##   [6236,]  1.247658e+00 -2.070271e-01 -6.124468e-01  9.012158e-01
##   [6237,] -1.244233e-01 -1.036006e+00  1.157553e+00  9.565416e-01
##   [6238,] -6.456590e-01  8.521232e-01  2.639042e-01  7.031843e-01
##   [6239,] -1.462379e+00  4.805895e-01 -8.832905e-01  1.029179e+00
##   [6240,]  1.173574e+00  1.126252e+00  8.942457e-01  9.417891e-01
##   [6241,] -1.622635e+00 -3.428721e-01  1.155691e+00  8.857472e-01
##   [6242,] -3.275598e+00 -7.684782e-02  2.459140e-01  2.324899e+00
##   [6243,] -9.200578e-01  1.792550e+00 -6.173632e-01  1.152732e+00
##   [6244,]  8.264009e-01  4.710329e-01  7.288445e-01  1.396445e+00
##   [6245,] -9.002155e-01 -8.943584e-01  9.528497e-01  1.245535e+00
##   [6246,] -1.709364e+00 -1.156411e-01  8.601122e-01  7.007140e-01
##   [6247,] -5.428061e-01  4.853868e-01  2.988414e-01  1.535531e+00
##   [6248,]  1.141350e+00  1.105044e+00  1.309097e+00  2.573031e-01
##   [6249,]  2.096237e-02  6.070592e-01  9.476140e-01  1.000554e+00
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##   [6253,]  6.105255e-01 -3.979716e-01 -1.349555e+00  2.382629e+00
##   [6254,]  6.539399e-01 -1.454336e-01  6.469659e-01  2.606081e+00
##   [6255,] -2.903499e+00  1.596663e+00 -4.941265e-01  3.061528e+00
##   [6256,] -1.319364e-01 -8.229848e-01  1.211973e+00  2.792402e+00
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##   [6257,]  9.739184e-02  2.269321e+00  1.564786e+00 -3.463298e-01
##   [6258,]  1.246119e+00  1.558710e-01 -1.750389e-01  2.648910e+00
##   [6259,]  1.484216e+00  1.679774e-01  7.960273e-01  1.294614e+00
##   [6260,]  1.354849e-01  6.021365e-01 -3.745384e-01  1.031951e+00
##   [6261,] -1.218411e+00  1.550384e+00 -1.897854e+00  1.259446e+00
##   [6262,]  5.432667e-01 -5.454169e-01 -4.786132e-02  5.542116e-01
##   [6263,]  6.811433e-01 -9.960272e-01  1.321987e+00  2.562990e+00
##   [6264,] -1.338368e-01  7.149535e-01 -1.260653e+00  1.092940e+00
##   [6265,] -5.675248e-01 -3.769405e-01  1.000054e+00  1.137684e+00
##   [6266,] -1.554168e+00  1.897621e+00 -1.706198e+00  2.343639e+00
##   [6267,]  2.039932e-01  4.531886e-01  1.606172e-01  1.183213e+00
##   [6268,] -7.394805e-02 -9.143926e-01 -1.568108e+00  4.970439e-01
##   [6269,] -1.599332e+00  2.064032e+00 -2.650759e-01  6.988500e-01
##   [6270,] -6.763617e-01 -1.153688e+00 -1.595747e+00  2.543066e+00
##   [6271,] -6.079777e-02  2.915996e-02  1.011176e+00  7.082924e-01
##   [6272,]  1.409435e+00  4.451291e-01  9.047538e-01  1.129386e+00
##   [6273,]  7.671806e-01 -5.672970e-01 -2.222564e-01  2.821118e+00
##   [6274,]  8.817739e-02  9.816748e-01  9.363767e-01  1.088613e+00
##   [6275,] -3.872821e-01  8.829139e-01  9.626765e-01  2.985769e+00
##   [6276,] -3.953132e-01 -6.397114e-01 -5.680535e-01  2.158864e+00
##   [6277,] -2.253293e+00  2.797793e+00 -5.001710e-01  1.538145e+00
##   [6278,] -1.903045e+00  8.031260e+00  7.504702e-01  2.306530e+00
##   [6279,] -8.925199e-01 -8.212541e-01 -1.840712e-01  3.035227e+00
##   [6280,]  1.436600e+00  6.203281e-01  3.311261e-01  1.195032e+00
##   [6281,] -9.151064e-01  1.944081e+00 -3.882735e-01  6.788785e-01
##   [6282,]  6.474719e-01 -1.899253e-02  3.208010e-02  2.704123e+00
##   [6283,] -1.185457e+00  1.793571e-01 -1.454631e+00  1.936966e+00
##   [6284,] -1.335223e+00 -1.040754e-01  1.167970e+00  8.561638e-01
##   [6285,]  5.845238e-01  2.460508e-01  3.328773e-01  2.909261e+00
##   [6286,]  1.459917e-01 -4.609506e-01  1.169671e+00  2.945755e+00
##   [6287,]  6.035389e-01 -7.369586e-01  1.137176e-01  5.278775e-01
##   [6288,]  1.230375e+00  1.352813e+00  4.420946e-01  2.590375e+00
##   [6289,]  9.576156e-02  3.930586e-01 -1.646227e+00  1.175225e+00
##   [6290,]  3.457065e-01  2.284309e+00  3.699435e-01  1.961264e-01
##   [6291,]  1.280010e-01 -3.094866e-01  9.970910e-01  1.127511e+00
##   [6292,] -2.479216e-02 -1.113797e+00  1.411760e+00  4.496139e-01
##   [6293,] -2.853912e+00  2.495177e+00 -5.271995e-01  1.381516e+00
##   [6294,]  9.870208e-01  5.190369e-01  8.243803e-01  3.361551e+00
##   [6295,] -3.101464e-01 -3.569742e-01  1.230795e+00  4.535127e-02
##   [6296,]  7.287008e-01 -4.066819e-01  1.194223e+00  8.021106e-01
##   [6297,] -7.554954e-01 -6.141685e-01  1.038806e+00  1.085805e+00
##   [6298,] -4.548940e-01 -1.336184e-01  9.113214e-01  3.262399e+00
##   [6299,]  8.563669e-02  1.454771e+00  1.329908e+00  2.571239e+00
##   [6300,]  9.544334e-01  6.960936e-01  3.034801e-01  2.832088e-01
##   [6301,] -1.478355e+00  4.653322e-01 -1.891844e+00  9.469852e-01
##   [6302,] -2.401518e+00  1.063368e+00 -2.072486e+00  1.067138e+00
##   [6303,]  8.012224e-01 -5.196279e-01  2.182878e-01  2.797084e+00
##   [6304,]  1.467629e-01  1.377812e-01 -4.778139e-01  1.317925e+00
##   [6305,]  4.847512e-01 -1.550485e+00  1.177082e+00  2.228002e+00
##   [6306,] -3.702992e-01  1.410151e+00  1.161002e+00  4.750070e-01
##   [6307,] -2.812443e+00  3.082510e-01  3.248082e-01  1.288068e+00
##   [6308,]  3.178623e-02 -6.791049e-01  2.549764e-01  9.231809e-01
##   [6309,] -9.429838e-01  1.403080e+00  1.516702e+00  1.423669e-01
##   [6310,]  4.081773e-01  5.568680e-01  7.313322e-02  6.870314e-01
##   [6311,]  6.786778e-01  2.026207e-01  1.275561e+00  2.573566e+00
##   [6312,]  2.043213e-01  8.741182e-01 -7.100739e-01  1.511978e+00
##   [6313,] -2.727780e-01 -9.805122e-03  1.202465e+00  2.577412e+00
##   [6314,]  7.297719e-01 -7.501812e-01 -2.177993e-01  2.820342e+00
##   [6315,] -9.720829e-01  4.499004e-01  2.779708e-01  3.941703e-01
##   [6316,]  6.492631e-01 -9.102850e-01  1.389450e+00  2.395136e+00
##   [6317,]  1.549411e-01 -9.122720e-01  1.220202e+00  2.739423e+00
##   [6318,]  8.712175e-01  9.909597e+00 -5.320902e-01  2.353676e+00
##   [6319,] -1.486217e+00  9.989690e-01 -6.909710e-01  1.294005e+00
##   [6320,]  1.281325e+00  1.463243e+00 -5.770178e-01  7.511133e-01
##   [6321,]  4.902446e-01  1.941133e-01 -6.665601e-02  5.976685e-01
##   [6322,]  1.029121e+00  6.531119e-03 -1.129225e-01  1.010102e-01
##   [6323,] -5.490177e-01 -3.035791e-01  7.537320e-01 -2.056555e-02
##   [6324,] -1.425997e+00 -9.075619e-01 -1.583729e+00  3.223268e+00
##   [6325,] -1.258717e+00 -1.301536e+00 -3.656397e-01  3.220296e+00
##   [6326,] -2.980431e-01  1.054867e+00 -7.358053e-01  2.184779e+00
##   [6327,] -1.541388e+00  3.578203e-02 -1.442876e-01  7.839917e-01
##   [6328,] -6.135409e-01 -8.393554e-01  1.018954e+00  3.036616e+00
##   [6329,] -1.452991e+00  2.392516e-01  1.220868e+00  6.306846e-01
##   [6330,]  1.048124e-01 -4.402135e-01 -1.500780e-02  1.023998e+00
##   [6331,] -1.712892e+00  1.027792e+00  2.522195e-01  7.880888e-01
##   [6332,]  7.754811e-02 -2.347794e-01  1.026002e+00  1.023480e+00
##   [6333,]  2.011610e-01  1.442410e-01 -2.017559e+00  1.099224e+00
##   [6334,] -7.592432e-03  9.197501e-01  1.191703e+00  2.660419e+00
##   [6335,]  5.605112e-01 -7.311213e-01 -1.445552e+00  6.147396e-01
##   [6336,]  9.191094e-01 -1.734004e-01 -6.445799e-01  1.530098e+00
##   [6337,] -1.935560e+00  1.097881e-01  6.193631e-01  2.008915e+00
##   [6338,]  7.693932e-01 -3.708039e-01 -4.472823e-01  1.239620e+00
##   [6339,] -8.050696e-01  2.457534e+00  1.115878e+00  3.694864e-01
##   [6340,]  5.795316e-01 -2.342034e-01  1.239717e+00  5.927084e-01
##   [6341,]  1.213092e+00  3.599545e-01  1.078845e+00  2.753659e+00
##   [6342,] -2.952816e+00  8.510992e-01 -1.177250e+00  9.596406e-01
##   [6343,] -1.017508e-01  1.200859e+00  1.309272e+00  2.278903e+00
##   [6344,] -1.031899e+00  3.122650e+00  1.516967e-02  8.067455e-02
##   [6345,] -5.476124e-01 -4.482559e-01 -4.854220e-01  1.570920e+00
##   [6346,] -3.529922e-01 -1.324082e+00  1.470141e+00  3.762096e-01
##   [6347,]  1.143130e+00  8.132133e-01  1.096820e+00  2.642481e+00
##   [6348,] -1.759382e+00  6.668960e-02  1.125965e-01  9.130373e-01
##   [6349,]  2.627951e-01 -3.566841e-01 -1.312051e+00  2.022865e-01
##   [6350,]  1.010030e+00  3.311801e+00  3.599897e-02  2.352042e+00
##   [6351,] -5.728690e-01 -5.255754e-01 -3.510485e-01  1.106424e+00
##   [6352,]  8.529362e-01  2.336691e+00  1.560197e-02  1.979342e+00
##   [6353,]  6.080271e-01  7.765406e-01  1.145350e+00  6.674199e-01
##   [6354,] -5.987661e-02 -5.045115e-01  1.360357e+00  2.470544e+00
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##   [6355,] -7.848416e-02  2.345992e-01 -8.263362e-02  5.800778e-01
##   [6356,]  3.711554e-02  3.890747e-01 -6.605864e-01  1.236734e+00
##   [6357,] -1.825794e-01 -9.923178e-01  1.261412e+00  8.088325e-01
##   [6358,]  9.956622e-01  2.418997e+00  1.360181e+00  1.902103e+00
##   [6359,]  6.793319e-02 -4.919053e-01 -1.464828e+00  2.847059e+00
##   [6360,] -7.199931e-01  2.870092e+00  6.392716e-02  2.386691e+00
##   [6361,]  8.129770e-01 -3.882737e-01  1.029569e+00  2.969000e+00
##   [6362,]  2.926768e-01  1.888052e+00 -1.279493e+00  1.985889e-01
##   [6363,] -1.256036e+00  1.127811e+00 -1.257015e-01  3.005847e+00
##   [6364,]  6.022512e-01  8.983865e-02  8.898907e-01  5.614673e-01
##   [6365,] -9.371482e-02  1.243765e+00  3.807734e-02  1.400694e+00
##   [6366,] -5.286878e-01 -9.583743e-01 -4.795867e-01  2.940208e+00
##   [6367,]  9.865524e-02 -3.749274e-01 -4.062170e-01  7.786111e-01
##   [6368,]  4.989755e-01  5.605726e-01  3.294890e-02  2.197778e+00
##   [6369,] -6.044062e-01 -7.894508e-01 -3.929481e-01  2.773037e+00
##   [6370,] -9.720358e-01 -1.445850e+00 -1.333861e+00  2.766139e+00
##   [6371,]  4.298680e-01 -1.354197e+00  2.356764e-01  2.114999e+00
##   [6372,] -1.533408e+00  7.212457e-01 -1.710573e-01  6.851881e-01
##   [6373,]  4.119488e-01  3.507022e+00 -3.941239e-01  5.894613e-01
##   [6374,]  1.326422e+00  1.289680e+00  9.690804e-01  1.004616e+00
##   [6375,] -8.215063e-01 -6.873530e-01  1.407790e+00  2.326657e+00
##   [6376,]  1.295194e-01 -6.594070e-01  1.096293e+00  8.968378e-01
##   [6377,]  2.711855e-02  2.099002e+00  9.979197e-01  7.647894e-01
##   [6378,] -3.366356e-01 -7.009799e-01  2.702397e-01  2.302292e-01
##   [6379,] -3.424674e-01 -2.139871e-01 -1.332170e+00  1.878502e+00
##   [6380,]  6.656527e-01  4.471725e-03 -3.954517e-01  9.027858e-01
##   [6381,]  7.383820e-02  1.478718e+00  1.648041e-01  1.173385e+00
##   [6382,]  2.462613e-01 -1.313084e-01  7.806708e-01  1.536717e+00
##   [6383,]  1.126232e+00  4.853212e-03  8.104429e-01  2.225830e+00
##   [6384,]  1.050868e+00  3.339684e+00 -6.112590e-01  5.599210e-01
##   [6385,] -2.821388e-01  9.743645e-01  1.041155e+00  8.325224e-01
##   [6386,] -2.301038e-01 -8.745764e-01  1.305843e-01  1.761450e+00
##   [6387,] -6.701078e-01 -6.916382e-01 -1.864974e+00  1.004250e+00
##   [6388,]  2.135947e-02  3.046095e-01 -2.099406e-01  1.002486e+00
##   [6389,]  4.107660e-01  4.770431e-01 -2.018322e-01  1.892525e+00
##   [6390,] -8.961432e-01 -1.083643e+00 -1.220228e+00  1.968109e-01
##   [6391,] -9.787494e-01 -7.946883e-01  1.282425e-01  4.821095e-01
##   [6392,] -9.446921e-01  2.238270e+00  1.906229e-01  2.611515e-01
##   [6393,] -2.837474e-01  1.955506e+00  1.255175e+00  2.362855e+00
##   [6394,]  1.043421e+00 -6.124461e-02  1.625365e+00 -1.307886e-01
##   [6395,] -2.242495e+00  5.527837e-01 -4.478863e-01  1.391661e+00
##   [6396,]  5.392003e-01 -1.487660e-01 -1.841924e+00  8.799392e-01
##   [6397,]  1.164632e+00 -1.506748e-01  1.033886e+00  2.279022e+00
##   [6398,]  2.304652e-01 -5.551128e-01  7.362418e-01  2.949199e+00
##   [6399,] -7.655604e-01 -7.514899e-01 -2.989403e-01  1.041392e+00
##   [6400,] -6.779847e-01  2.677302e-01  5.166069e-01  2.517803e+00
##   [6401,]  9.943496e-01  2.455868e+00  1.326350e+00  1.957282e-01
##   [6402,] -1.538680e+00  4.086572e-01  1.126575e+00  8.544285e-01
##   [6403,]  1.347102e-02 -1.095507e-01 -1.200463e-01  6.510348e-01
##   [6404,] -1.645307e+00 -8.499528e-02  3.366619e-01  2.336809e+00
##   [6405,]  9.031993e-01  2.073264e+00  2.194306e-01 -2.969208e-01
##   [6406,] -3.823170e-01  3.581121e-01  3.708855e-01  3.428727e+00
##   [6407,]  2.775533e-01  1.412199e+00  1.169319e+00  5.108021e-01
##   [6408,] -5.239964e-01 -1.460277e-01 -3.768653e-01  1.427703e+00
##   [6409,] -1.835886e+00  7.569180e+00 -6.475333e-01  2.770221e+00
##   [6410,] -8.363999e-01 -3.759856e-01 -1.116485e+00  4.636844e-01
##   [6411,]  4.320501e-01 -1.518657e+00  1.627259e+00  2.103167e+00
##   [6412,]  1.100844e+00 -1.347978e-01  1.354033e+00  2.400426e+00
##   [6413,] -5.549617e-01 -8.980990e-02  9.685417e-01  1.194256e+00
##   [6414,]  1.537061e-01 -3.374016e-01  1.115867e+00  2.815202e+00
##   [6415,] -6.263642e-01  1.004099e+00  7.985513e-01  1.335486e+00
##   [6416,] -3.121246e-01  2.320479e+00  8.158493e-02  4.873448e-01
##   [6417,]  7.909060e-02 -4.651414e-01 -9.556054e-01  1.562195e+00
##   [6418,]  6.109024e-02 -7.113856e-01  7.963714e-01  1.471805e+00
##   [6419,]  7.627576e-01 -1.408685e-01  1.079681e+00  2.870507e+00
##   [6420,] -8.896784e-01 -1.759239e-01  1.346932e+00  2.393802e+00
##   [6421,] -7.581815e-01 -1.508719e+00 -1.137790e+00  2.505499e+00
##   [6422,]  3.948037e-01 -1.040956e+00 -9.154026e-01  2.262208e+00
##   [6423,] -1.107182e+00 -4.419491e-01 -8.247839e-01 -9.946534e-04
##   [6424,]  1.214261e-01 -1.082792e+00 -1.333932e+00  7.481666e-01
##   [6425,]  6.523870e-01 -1.098481e-01 -3.707036e-01  1.001372e+00
##   [6426,]  8.328086e-01  5.916005e-01 -1.885401e+00  1.137693e+00
##   [6427,] -8.209617e-01 -1.761237e-01  1.155595e+00  7.741957e-01
##   [6428,]  1.323994e+00 -8.552084e-01  1.289249e+00  2.472041e+00
##   [6429,]  1.389484e+00  2.261961e-01  8.682832e-01  1.199754e+00
##   [6430,]  1.004980e-01  4.307737e-01 -2.150525e+00  1.403202e+00
##   [6431,]  5.748642e-01  3.588125e-01  5.065229e-01  2.644328e+00
##   [6432,]  1.209789e+00  1.264186e+00 -1.864572e+00  6.781429e-01
##   [6433,]  5.418279e-02 -2.290562e-01  1.129457e+00  7.680977e-01
##   [6434,] -1.504151e+00  2.097657e+00  7.827601e-01  1.098055e+00
##   [6435,]  5.684562e-01  4.038122e-01  2.881032e-01  4.598557e-01
##   [6436,] -1.537375e+00  3.422709e-01  2.267958e-01  5.908765e-01
##   [6437,]  6.075409e-01 -6.163205e-01 -8.087033e-02  5.455063e-01
##   [6438,]  1.051561e+00 -2.384834e-01  1.411476e+00  2.275775e+00
##   [6439,]  1.245536e+00 -1.513812e-01  1.243614e+00  6.447953e-01
##   [6440,]  7.835858e-01  1.501481e+00  1.621927e+00  1.462433e+00
##   [6441,] -1.736384e-01 -1.081565e+00  9.561963e-02  2.612539e+00
##   [6442,] -7.512724e-01 -2.209007e-01 -4.478297e-01  1.106149e+00
##   [6443,] -3.136132e+00 -8.513259e-01  1.469462e+00  3.673094e-01
##   [6444,] -2.391352e+00  1.238741e+00 -2.186535e-01  7.094948e-01
##   [6445,] -2.530325e+00  1.213964e-01 -4.859994e-01  6.596377e-01
##   [6446,]  8.135077e-01  1.715069e-01 -2.346607e-01  1.371605e+00
##   [6447,]  1.121621e-01  1.249723e+00 -8.623395e-02  1.012296e+00
##   [6448,] -2.586963e-01 -6.796941e-01  1.241194e+00  6.887391e-01
##   [6449,]  6.983847e-01 -7.329922e-02 -1.629647e+00  7.352963e-01
##   [6450,] -4.382557e-02  3.446293e+00 -4.784908e-01  1.128685e+00
##   [6451,]  9.162509e-01  3.718058e-01 -6.642136e-01  1.429192e+00
##   [6452,] -5.800580e-01  5.188359e-01 -2.698465e-01  3.596577e+00
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##   [6453,]  6.466323e-01 -7.105826e-01 -1.588169e-01  2.726557e+00
##   [6454,]  2.423651e-01  1.633882e+00  6.521439e-03  2.042690e+00
##   [6455,] -1.097469e+00  2.520175e+00  1.283391e+00  2.202361e+00
##   [6456,] -9.602960e-01 -1.114968e+00 -5.352322e-01  1.014953e+00
##   [6457,]  8.248119e-01  3.982856e-01 -4.359966e-01  1.137455e+00
##   [6458,]  8.563020e-01  8.048864e-01  7.134182e-01  1.484891e+00
##   [6459,]  1.267221e+00  6.209798e-01 -7.553908e-01  1.049801e+00
##   [6460,]  5.593624e-01 -7.929831e-01  1.391233e+00  2.401386e+00
##   [6461,]  5.497621e-02 -6.609416e-01 -1.887265e-01  2.832369e+00
##   [6462,]  2.287839e-01  2.101439e+00  9.720265e-02 -1.532389e-01
##   [6463,] -2.339806e+00  1.162349e+00  9.873169e-01  8.662632e-01
##   [6464,]  1.253526e+00 -1.740505e-01  1.241720e+00  2.513838e+00
##   [6465,]  1.760106e-01 -5.807614e-01 -5.957427e-01  1.155938e+00
##   [6466,]  1.354706e+00  5.137355e-01  1.113036e+00  8.391225e-01
##   [6467,]  3.917150e-02  4.017000e-01 -2.486053e-01  9.704641e-01
##   [6468,] -4.135645e-01  2.094347e+00 -1.442788e+00  3.309777e-01
##   [6469,] -5.545365e-01 -6.366999e-01 -1.220904e+00  3.373756e+00
##   [6470,] -5.057596e-01  1.499262e+00 -8.229049e-01  1.398809e+00
##   [6471,]  3.217021e-01  8.725491e-01  1.316767e+00  2.260395e-01
##   [6472,] -6.063267e-01  6.780799e-01 -1.965914e+00  1.089054e+00
##   [6473,] -3.284429e-01 -1.487878e+00  2.580827e-01  1.804128e-01
##   [6474,]  3.232009e-01  1.527401e+00 -2.814785e-02  1.766144e-01
##   [6475,] -9.037393e-01 -1.472477e+00 -4.145974e-02  2.600788e+00
##   [6476,] -2.923669e+00 -4.634743e-01  1.161560e+00  9.215249e-01
##   [6477,]  7.819517e-02  1.112607e+00 -1.909597e+00  2.917326e+00
##   [6478,] -1.490015e+00  9.931413e-01 -2.665264e-01  1.010507e+00
##   [6479,] -2.262242e-01  1.347506e-01 -8.821511e-01  3.016393e-01
##   [6480,] -2.761264e+00  4.752877e-01  8.336640e-01  1.424122e+00
##   [6481,] -1.359688e+00  4.862875e-01 -2.575643e-01  8.668866e-01
##   [6482,] -7.632540e-01 -1.145918e+00  1.264461e+00  2.807217e+00
##   [6483,]  1.438665e+00  4.373306e-01 -4.439386e-01  1.175537e+00
##   [6484,] -1.422947e+00  3.213658e-02  1.226817e+00  6.727343e-01
##   [6485,]  3.134839e-01 -2.624943e-01 -1.180761e+00 -1.728843e-01
##   [6486,]  1.151666e+00 -1.032635e-01 -2.625266e-02  2.502998e+00
##   [6487,] -1.780965e+00  9.807585e-01  1.188912e+00  1.769942e+00
##   [6488,]  8.411950e-01  3.720158e-01 -7.943259e-01  1.347552e+00
##   [6489,] -9.068994e-01 -1.119164e+00 -9.483109e-01  3.874735e-01
##   [6490,] -2.136586e-01 -1.082246e+00  1.258396e+00  7.422009e-01
##   [6491,] -4.695757e-01 -1.214523e-01 -5.610491e-01  1.412620e+00
##   [6492,]  4.389841e-01  4.853252e-01 -9.874910e-01  1.714546e+00
##   [6493,]  4.023644e-01  4.873466e-01  7.145218e-01  1.239008e-01
##   [6494,] -9.432573e-01  4.158301e-01 -1.900023e+00  9.061912e-01
##   [6495,]  2.203037e-01  9.827725e-02 -1.330532e+00  1.161532e+00
##   [6496,] -8.821733e-01  1.203987e+00 -1.503694e+00  2.343661e+00
##   [6497,]  7.910215e-01  4.848745e-01 -6.291315e-01  1.023734e+00
##   [6498,] -2.236562e-01 -1.099865e+00 -5.947327e-02  2.313574e-01
##   [6499,] -2.481101e+00  1.599337e+00 -1.417515e+00  2.775611e+00
##   [6500,]  1.341539e+00  7.613676e-01  8.476726e-01  2.825760e+00
##   [6501,] -1.475798e+00  3.090013e+00  1.251559e+00  2.460490e+00
##   [6502,] -7.714601e-01 -3.422078e-01 -1.641411e+00  5.763712e-01
##   [6503,] -1.649360e+00  1.447046e+00 -8.838961e-02  3.070080e-01
##   [6504,]  7.589773e-01  1.638435e-01  9.157315e-01  1.088310e+00
##   [6505,] -1.456970e-01 -9.507973e-01  9.245459e-01  4.538483e-01
##   [6506,] -1.421711e+00  4.612116e-01 -5.816393e-01  1.082489e+00
##   [6507,]  8.857982e-01  2.706815e-01  8.891192e-01  3.209296e+00
##   [6508,]  1.986884e-01  2.047466e+00 -1.463201e+00 -1.325237e-01
##   [6509,] -1.596136e-01  1.081807e+00 -1.847030e+00  6.886896e-01
##   [6510,] -6.952292e-02 -4.667191e-01 -3.037798e-01  1.134503e+00
##   [6511,]  5.308874e-01 -2.293321e-02 -1.470443e+00  8.768675e-01
##   [6512,]  1.026847e-01 -7.639958e-01  1.132861e+00  2.851462e+00
##   [6513,]  1.360924e-01  5.180987e-01  7.989919e-01  1.360485e+00
##   [6514,]  1.276007e+00 -3.710722e-01 -6.893509e-01  2.648267e+00
##   [6515,] -2.908552e-01 -1.295631e-01 -1.699759e-01  6.763681e-01
##   [6516,] -9.606094e-01 -4.019649e-01  8.448549e-01  3.903053e-01
##   [6517,]  8.952356e-01  3.406671e-01 -1.529973e+00  1.582389e+00
##   [6518,] -2.386374e+00  1.776480e-01  1.138627e+00  8.237857e-01
##   [6519,]  6.400313e-01  7.872192e-01  9.157088e-01  3.122197e+00
##   [6520,] -4.147816e-01  9.424896e-01 -1.222597e+00  2.330188e+00
##   [6521,] -2.383816e-01  6.449435e-01  7.344204e-01  8.679202e-01
##   [6522,]  6.398094e-02  1.411047e+00  1.127118e+00  2.596524e+00
##   [6523,]  6.257712e-01 -4.414328e-01 -3.903332e-02  5.457129e-01
##   [6524,] -7.637115e-01 -8.700226e-01 -1.894155e-01  2.852350e+00
##   [6525,]  1.145393e+00 -2.832389e-01  5.859410e-01  2.477817e+00
##   [6526,] -5.304504e-01  2.129680e+00  1.339364e+00  6.072583e-03
##   [6527,] -1.805841e-01 -2.653912e-01  1.516469e+00  1.677151e-01
##   [6528,] -8.978484e-01  3.179735e+00  1.115160e+00  6.741874e-01
##   [6529,]  5.968089e-01 -6.940744e-01  1.047243e+00  1.029427e+00
##   [6530,] -1.763720e+00  8.146930e-01 -2.672584e-01  1.196384e+00
##   [6531,] -5.886474e-01  1.156628e+00 -5.116208e-01  2.748799e+00
##   [6532,]  2.372160e-01  8.709617e-01  1.388339e+00  3.154332e-01
##   [6533,] -9.710882e-01  1.155309e+00  7.660655e-01  3.041729e-01
##   [6534,]  6.121426e-01  3.193055e-01  4.079087e-02  8.894087e-01
##   [6535,] -1.602763e+00 -1.494061e+00 -5.755708e-02  9.139632e-01
##   [6536,] -1.516912e+00 -1.006261e+00  1.009587e+00  3.255622e+00
##   [6537,] -4.754176e-01  6.882845e-01 -5.350361e-01 -1.155710e-01
##   [6538,] -4.299592e-01 -4.097373e-01 -1.262326e+00  1.446754e+00
##   [6539,] -8.437745e-01  2.262516e+00 -6.145980e-01  8.892981e-01
##   [6540,]  7.555791e-01  2.064605e-01 -5.777317e-01  2.945415e+00
##   [6541,]  1.200532e+00 -1.004216e+00  2.775659e-02  2.404068e+00
##   [6542,] -1.749355e-01  2.160162e-01  1.001738e+00  2.856713e+00
##   [6543,] -9.629512e-01  9.388215e-01  2.878456e-01  2.124846e+00
##   [6544,] -6.358039e-01 -8.987080e-02  2.197352e-01  1.377702e+00
##   [6545,]  1.273572e+00  3.384694e-01 -1.262187e+00  1.017902e+00
##   [6546,] -5.944385e-01 -1.128665e+00 -1.662792e+00  2.729631e+00
##   [6547,]  1.168773e+00  2.188575e-03 -1.000647e+00  5.846658e-01
##   [6548,]  2.163809e-01 -3.214057e-01  9.923648e-01  1.128721e+00
##   [6549,] -7.982727e-01  2.342047e-01  1.117770e+00  8.294564e-01
##   [6550,]  6.066396e-01 -1.170531e-01  5.447318e-01  8.719082e-01
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##   [6551,] -2.443305e+00 -3.726195e-01  6.928021e-02  3.895934e-01
##   [6552,] -1.593646e+00  7.922804e-01  1.439391e+00  1.996251e+00
##   [6553,] -1.289043e+00  8.487961e-01 -2.011711e+00  1.215861e+00
##   [6554,] -7.701276e-03 -6.644457e-01  1.156159e+00  2.894442e+00
##   [6555,]  1.133260e+00 -8.855644e-01  1.375389e+00  2.402362e+00
##   [6556,]  5.434652e-01 -7.110591e-01  1.276586e+00  5.619203e-01
##   [6557,]  8.661671e-01  2.086471e-02  9.017321e-01  1.206179e+00
##   [6558,]  6.846555e-01 -7.930720e-01 -1.542807e-01  7.642079e-01
##   [6559,] -8.634804e-01  9.428967e-01 -1.592442e+00  2.808719e+00
##   [6560,]  6.113379e-01  5.351359e-01  7.005769e-02  8.932007e-01
##   [6561,] -6.742076e-02  1.120912e+00 -9.922449e-02  2.427935e+00
##   [6562,]  1.476582e+00  2.433127e+00  8.655808e-01  1.237592e+00
##   [6563,]  1.221355e+00  1.506153e+00 -1.242486e+00  4.514890e-01
##   [6564,] -1.433231e+00  1.519775e+00  8.651053e-02  5.814513e-01
##   [6565,]  1.272207e+00 -2.949261e-01 -4.388549e-02  2.634841e+00
##   [6566,]  2.925881e-01 -2.118300e-01 -1.130197e+00  2.129165e+00
##   [6567,]  9.266526e-01  9.313342e-01 -1.925621e-01  1.069328e-01
##   [6568,]  7.512782e-02 -6.506927e-01 -7.096983e-02  2.570290e+00
##   [6569,]  1.380663e+00  1.051801e+00 -1.422045e-01  7.628465e-01
##   [6570,] -9.072841e-01  1.443811e+00  1.207950e+00  4.973492e-01
##   [6571,] -4.909073e-01 -3.515170e-01 -2.145251e+00  1.479853e+00
##   [6572,]  6.508709e-01  5.608679e-02 -1.595353e+00  7.267917e-01
##   [6573,] -1.607351e+00  2.411952e-01  1.206958e+00  6.789575e-01
##   [6574,] -4.005577e-02 -1.413671e+00  1.312485e-01  2.163439e+00
##   [6575,] -6.636507e-01 -1.992780e-01 -2.107109e-01  1.090720e+00
##   [6576,]  7.170061e-01 -6.600713e-01  1.144610e+00  8.657930e-01
##   [6577,]  1.201065e+00  1.221439e+00  3.111474e-01  2.792705e+00
##   [6578,] -2.629019e+00 -2.311704e-01 -1.351587e-01  3.300697e-01
##   [6579,]  8.117527e-01  4.807144e-01 -2.299611e-01  3.155527e+00
##   [6580,] -6.560370e-01  3.959851e-01  1.198220e+00  2.512482e+00
##   [6581,] -2.293855e-01 -6.300253e-01  3.369043e-01  7.310337e-01
##   [6582,] -4.600439e-01 -4.818598e-02 -1.781344e-02  5.517215e-02
##   [6583,]  5.394955e-01 -4.306637e-01  1.321997e+00  5.585006e-01
##   [6584,] -7.459649e-01  8.551278e-01  8.622316e-01  1.099338e+00
##   [6585,]  9.921474e-02  7.707273e-01 -5.354523e-01  1.148730e+00
##   [6586,]  1.073343e+00 -3.362495e-01  1.802266e-01  3.075698e-01
##   [6587,] -8.200057e-01 -3.536979e-01 -1.909041e+00  1.424615e+00
##   [6588,] -1.527243e+00 -4.317878e-01 -5.244369e-01  5.360931e-01
##   [6589,]  2.051530e-01  1.675573e+00  1.271663e+00  2.012566e+00
##   [6590,] -8.526003e-01  2.029866e+00  6.862370e-01  8.694623e-01
##   [6591,] -1.990462e-01 -3.200468e-01 -1.300188e+00  8.362808e-01
##   [6592,]  8.140390e-01  6.777854e-01 -8.261130e-01  1.415057e+00
##   [6593,] -5.882835e-01  4.215118e-01  1.081088e+00  8.344555e-01
##   [6594,] -1.458777e+00  5.587871e-01  1.202870e+00  2.676588e+00
##   [6595,]  2.665121e-01 -7.955198e-02 -1.710728e+00  1.238483e+00
##   [6596,]  5.908773e-01 -3.613173e-01  6.576236e-01  6.959534e-01
##   [6597,]  1.332820e+00  5.826065e-01 -1.797011e+00  1.027166e+00
##   [6598,] -4.655839e-01  1.922550e-01 -9.531664e-01  1.634796e+00
##   [6599,]  5.408846e-01 -1.074954e+00  1.248042e+00  2.675672e+00
##   [6600,] -5.541878e-01 -1.327328e-01 -2.044149e+00  1.335706e+00
##   [6601,] -3.089932e-01 -6.942241e-02  1.648450e+00  1.835417e+00
##   [6602,] -5.907206e-01  1.103639e+00 -5.280604e-01  9.260310e-01
##   [6603,] -1.587294e-01  5.514191e-01  1.347114e+00  2.281778e+00
##   [6604,] -4.752318e-01  5.814777e-01 -3.841029e-01  1.403588e+00
##   [6605,] -9.213044e-02 -9.222529e-01 -6.842696e-01  2.461156e-01
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##   [6607,]  6.132093e-01  5.999946e-01  2.209188e-01  9.830856e-01
##   [6608,] -5.243690e-02 -9.515875e-01 -6.065666e-01  3.620766e-01
##   [6609,] -2.367784e+00  7.864213e-01 -1.940678e+00  1.067279e+00
##   [6610,]  1.331613e+00  4.670709e-02 -1.517887e+00  9.553281e-01
##   [6611,] -7.208613e-01  2.739475e-01 -1.649773e+00  5.193949e-01
##   [6612,] -3.900599e-01  1.629180e+00 -4.322381e-02  2.101510e+00
##   [6613,]  9.726991e-01 -9.010864e-01  1.658403e+00 -9.193053e-02
##   [6614,] -3.037780e-02 -1.136249e+00 -1.035100e+00  5.814862e-01
##   [6615,] -2.193254e+00  4.983535e-01 -1.980860e+00  3.086569e+00
##   [6616,] -7.780672e-01 -1.765820e+00 -7.745874e-01  2.454812e+00
##   [6617,]  8.130992e-02  8.756746e-01 -1.273656e-01  7.945932e-01
##   [6618,] -3.045771e-02  1.387851e-01  1.389988e-01  2.359258e+00
##   [6619,] -1.622824e-01 -6.402868e-01  1.204645e+00  7.206350e-01
##   [6620,]  2.338470e-01  1.976607e-01  9.021332e-01  1.232326e+00
##   [6621,] -8.756183e-01  1.737808e+00  1.034944e+00  8.151580e-01
##   [6622,]  9.275700e-01  1.153845e+00  7.455502e-01  1.463851e+00
##   [6623,] -8.277775e-01 -6.545611e-01  1.556352e+00  2.061895e-01
##   [6624,]  6.651800e-01 -2.682584e-01  1.132917e+00  8.839281e-01
##   [6625,] -9.080362e-01 -5.438326e-01  1.275212e+00  5.342418e-01
##   [6626,] -1.310026e+00  7.439866e-01 -1.090849e+00  7.640864e-01
##   [6627,] -8.041220e-01  2.483772e+00  2.395608e-02  2.313478e+00
##   [6628,]  3.791361e-01  1.578793e-01 -1.629628e+00  2.366972e+00
##   [6629,] -2.538928e+00  1.402881e+00  2.102012e-01  7.734755e-01
##   [6630,] -4.836712e-02 -7.759408e-01  1.173783e+00  7.723058e-01
##   [6631,]  8.173796e-02 -8.001712e-02  1.070500e+00  2.881634e+00
##   [6632,]  2.189106e-01 -4.575535e-01 -6.124981e-01  1.081632e+00
##   [6633,]  2.933266e-01 -9.130601e-02 -4.794601e-01  3.129491e+00
##   [6634,]  1.822551e-01 -3.916521e-01  1.647513e-01  1.338992e+00
##   [6635,]  9.966403e-04 -1.078737e+00 -1.919469e-01  2.870529e+00
##   [6636,] -1.274147e+00  5.249481e-01  1.042178e+00  2.920329e+00
##   [6637,]  3.321469e-01  2.945029e-01 -9.607059e-01  2.039727e-01
##   [6638,]  6.795704e-01 -1.994690e-01  1.138483e+00  2.681911e+00
##   [6639,] -4.029146e-01 -1.137337e-01  1.353018e+00  4.066687e-01
##   [6640,]  3.160469e-01 -6.840836e-01  2.556267e-01  2.846440e-01
##   [6641,] -8.174517e-01  2.256507e+00 -1.803531e+00  5.267711e-01
##   [6642,] -6.528146e-01  7.243874e-01 -1.210285e+00  1.247341e+00
##   [6643,] -4.073070e-01  1.340424e+00  1.245712e+00  3.674210e-01
##   [6644,]  2.453209e-01 -6.355735e-01  1.742839e+00 -2.705520e-01
##   [6645,] -2.105511e-02  8.192964e-01  1.162915e+00  2.712052e+00
##   [6646,]  4.499097e-01  2.537663e-01 -1.301104e+00  4.849392e-01
##   [6647,]  1.168138e+00  7.297843e-01  1.161134e+00  2.439480e+00
##   [6648,]  1.383007e-01  6.949002e-01  9.759025e-01  1.054419e+00
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##   [6649,]  4.241748e-01 -8.498259e-01  1.551558e+00  2.162646e+00
##   [6650,] -2.394552e+00  7.049556e-01  1.247923e+00  6.340308e-01
##   [6651,] -1.632666e+00  3.788610e-01 -1.221002e-01  5.674141e-01
##   [6652,]  1.662136e-01  1.335863e+00  1.408117e+00 -7.847382e-02
##   [6653,]  1.174558e+00  5.385865e-01  1.069597e+00  8.396980e-01
##   [6654,]  8.486201e-01 -3.477535e-02  9.481148e-01  3.093313e+00
##   [6655,] -8.414424e-01 -1.646650e+00  1.492932e+00  2.363420e+00
##   [6656,]  1.107949e+00  9.647823e-01 -3.103721e-02  5.439752e-01
##   [6657,] -1.075043e+00 -1.547754e-01 -2.241372e-01 -1.318124e-01
##   [6658,] -1.365101e+00  2.400312e-01 -1.381701e+00  2.616366e+00
##   [6659,] -9.701687e-01  8.991820e-01 -1.383836e+00  7.353338e-01
##   [6660,] -1.719656e+00 -5.753683e-01  1.371500e+00  6.022935e-01
##   [6661,]  4.840429e-01 -1.404496e+00  1.417138e+00  4.331308e-01
##   [6662,]  7.226037e-01 -5.798529e-01 -5.801569e-02  7.461439e-01
##   [6663,] -4.422908e-02  1.822882e+00  1.017088e+00  8.606344e-01
##   [6664,] -1.534923e-01  1.066197e+00  5.820441e-01  2.328771e+00
##   [6665,]  1.329975e+00  4.225003e-01  1.195826e+00  2.723613e+00
##   [6666,] -8.611040e-01  1.152932e-01  6.468201e-01  4.199314e-01
##   [6667,] -1.758174e+00  1.322335e+00 -8.682130e-01  2.049006e+00
##   [6668,] -6.242027e-01 -4.789721e-01 -3.476378e-01  1.182897e+00
##   [6669,] -7.049639e-01 -4.441510e-01 -1.519071e+00  9.667090e-01
##   [6670,]  2.175898e-01  1.674064e+00  9.545635e-01  3.075996e+00
##   [6671,]  8.750831e-01  3.491047e-01 -4.792269e-01  1.247996e+00
##   [6672,]  1.042651e+00  6.189922e-01 -3.378939e-01  2.328791e+00
##   [6673,] -2.240484e-01 -2.514985e-01 -1.518188e-01  5.651395e-01
##   [6674,] -7.568575e-01  4.473132e-01  1.133170e+00  2.775307e+00
##   [6675,] -8.741138e-02  7.685733e-01 -1.210323e+00  2.631074e-01
##   [6676,]  1.189074e+00  1.230791e-01 -1.218386e+00  6.425091e-01
##   [6677,]  1.556667e-01 -2.102887e-01  1.033798e+00  1.002741e+00
##   [6678,]  5.065230e-03  1.017521e+00  4.319896e-01  1.065818e+00
##   [6679,]  7.380691e-01 -2.236105e-01 -5.428249e-01  9.256023e-01
##   [6680,] -7.950716e-01  3.019226e+00 -1.490449e-01  2.363524e+00
##   [6681,] -9.563101e-01 -1.631812e-01  4.024343e-01  1.763992e+00
##   [6682,]  7.716332e-01 -3.602515e-01  1.026415e+00  1.036463e+00
##   [6683,] -2.478486e-02 -4.218260e-01  1.260967e+00  7.261495e-01
##   [6684,]  1.345348e+00 -1.313261e-02  1.080859e+00  9.083201e-01
##   [6685,] -1.630802e+00  3.308875e+00  1.041317e+00  9.130635e-01
##   [6686,] -9.804986e-01 -5.006095e-01  1.485484e+00  2.886620e-01
##   [6687,]  1.628310e-01  1.806594e-01 -1.531199e+00  1.318729e+00
##   [6688,] -2.257373e+00  5.798668e-01 -4.173669e-01  1.114694e+00
##   [6689,]  2.876741e-01 -2.430828e-02  9.878745e-01  3.558853e-01
##   [6690,]  5.573300e-01 -1.235799e+00  1.035139e-01  2.090596e+00
##   [6691,]  6.863255e-01  2.963978e-01  6.059458e-01  1.364857e+00
##   [6692,]  2.265549e-01  7.141119e-01 -8.988583e-01 -8.281946e-02
##   [6693,]  4.621771e-02 -5.389515e-01  1.084784e+00  9.191754e-01
##   [6694,]  1.314113e+00  5.964188e-01  4.483996e-01  2.583698e+00
##   [6695,]  6.681273e-01  6.188741e-01 -3.964311e-01  1.006490e+00
##   [6696,]  5.914925e-01 -4.367876e-01  1.063900e+00  2.886054e+00
##   [6697,] -2.643570e-01 -6.356262e-02 -1.428496e+00  7.040866e-01
##   [6698,] -7.064842e-01  9.299077e-01  1.214003e+00  4.184896e-01
##   [6699,] -5.558853e-01 -7.889146e-01  1.083812e+00  2.955689e+00
##   [6700,]  7.381414e-01 -1.295193e-01 -2.116062e-01  8.499768e-01
##   [6701,]  5.651337e-01 -2.299492e-01  2.931191e-01  2.590135e+00
##   [6702,]  2.190858e-02 -9.279520e-02  5.183813e-01  3.016103e+00
##   [6703,] -3.195664e-02 -3.322090e-01 -1.417922e+00  1.205556e+00
##   [6704,]  1.055920e-01  3.941767e-01 -7.028713e-01  1.213165e+00
##   [6705,] -1.295359e+00 -3.391211e-01 -8.293339e-02  2.551469e+00
##   [6706,]  6.869092e-01  1.315423e+00 -5.160960e-01  1.068667e+00
##   [6707,]  5.667597e-01  3.920347e-01 -1.242520e+00  1.032028e+00
##   [6708,] -5.454687e-01  1.127000e+00  3.752262e-01  7.749312e-01
##   [6709,] -1.595290e-02 -1.058657e+00  1.323446e+00  2.529798e+00
##   [6710,] -7.707155e-01 -7.199405e-01 -2.545302e-01  2.577536e+00
##   [6711,] -7.332381e-01  1.480465e+00 -1.909578e-01  6.758241e-01
##   [6712,]  1.072833e+00 -3.033790e-01 -1.262709e+00  2.229191e+00
##   [6713,]  4.224489e-01 -1.100834e+00  2.851953e-01  2.603034e-01
##   [6714,] -1.790866e+00 -1.867094e+00  1.284711e+00  8.750622e-01
##   [6715,] -6.523334e-01 -1.764947e-01  1.462711e+00  2.212055e+00
##   [6716,] -2.208828e+00  9.768755e-01 -6.632864e-01  3.284058e+00
##   [6717,]  3.524450e-01  1.266346e+00  1.069681e+00  6.825732e-01
##   [6718,] -8.646515e-01  2.597882e+00 -1.436111e+00  1.357900e-01
##   [6719,] -1.406742e+00  1.857358e+00  4.530020e-01  1.080038e+00
##   [6720,]  6.162438e-01 -1.277385e-01  1.136210e+00  8.842959e-01
##   [6721,] -8.036471e-01 -7.582691e-02 -1.772016e-01  1.811193e+00
##   [6722,] -1.311551e+00  6.782193e-01  8.819412e-01  3.087515e+00
##   [6723,] -2.022310e+00  1.339776e+00 -1.482075e+00  1.911514e+00
##   [6724,]  1.299825e+00 -2.481251e-01  1.984788e-01  8.877321e-01
##   [6725,]  1.024280e+00  8.537516e-01 -8.669339e-01  2.169364e+00
##   [6726,]  8.374738e-01  1.466318e-01 -2.412670e-01  1.331625e+00
##   [6727,]  7.969539e-02  6.683631e-01  1.592491e+00 -8.085299e-02
##   [6728,] -5.528644e-01  1.379234e+00  9.905414e-01  8.317372e-01
##   [6729,] -5.968134e-01  4.482620e-01 -2.223123e+00  1.356619e+00
##   [6730,]  6.010205e-01  1.111417e+00 -4.164570e-01  8.631115e-01
##   [6731,] -9.435305e-01 -1.227516e+00  2.006317e-01  4.947081e-01
##   [6732,] -1.649086e+00 -5.443263e-01 -1.479857e+00  3.933900e-01
##   [6733,] -1.766590e+00 -4.574338e-01  1.596982e-01 -4.229230e-02
##   [6734,] -5.883126e-01 -8.687288e-01  2.467489e-01  1.231751e+00
##   [6735,] -4.876064e-01 -4.096148e-01 -1.643750e+00  1.265411e+00
##   [6736,] -5.626612e-01  5.392513e-01  1.067203e+00  8.982845e-01
##   [6737,] -8.210000e-01 -6.422975e-02  1.432783e+00  2.333440e+00
##   [6738,]  1.430933e+00  4.197040e-01  5.234286e-01  1.169133e+00
##   [6739,]  8.431020e-02  6.961750e-01  1.493932e-01 -4.748435e-02
##   [6740,] -1.330609e-01  9.761436e-01  7.070696e-03  5.834465e-01
##   [6741,] -4.837535e-01  8.782405e-01 -9.513542e-02  2.894603e-01
##   [6742,] -3.832818e-01 -1.088211e+00  1.643935e-01  1.867375e+00
##   [6743,] -1.776593e-01  9.714626e-01 -5.133467e-01  2.832398e+00
##   [6744,] -1.288079e+00 -4.845058e-03  1.560475e+00  1.926625e+00
##   [6745,]  2.034498e-01 -4.077892e-01  1.032137e+00  1.083071e+00
##   [6746,] -8.506514e-01 -1.417867e+00  1.662418e-01  3.137084e-01
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##   [6747,]  4.955341e-01 -6.215674e-01  1.306901e+00  5.510998e-01
##   [6748,] -1.442571e+00  1.972784e+00  8.129206e-01  1.528051e+00
##   [6749,]  7.499640e-01 -3.753559e-02  1.035049e+00  2.868453e+00
##   [6750,] -7.414886e-01 -1.300779e+00 -1.646281e+00  7.429722e-01
##   [6751,]  5.495951e-01 -1.649196e-01 -8.074333e-01  5.916991e-01
##   [6752,] -1.676934e-01 -4.735874e-01 -6.966615e-02  1.292368e-01
##   [6753,] -4.205580e-01  4.646773e-01 -1.591890e-01  1.558293e+00
##   [6754,]  8.748643e-01  5.940709e-01  9.363950e-01  1.340337e+00
##   [6755,]  1.212342e+00  5.989482e-01 -8.252534e-02  2.469379e+00
##   [6756,] -1.164076e+00  8.199079e-01  1.467980e+00  2.910576e-02
##   [6757,] -3.387962e-01  2.406221e+00 -1.585890e-01  1.976319e-01
##   [6758,]  5.917929e-01 -2.512890e-02 -5.773610e-01  1.032721e+00
##   [6759,]  6.868752e-02 -9.535614e-01 -1.532602e+00  2.684001e+00
##   [6760,] -1.297732e+00  6.897081e-01 -9.470640e-01  8.011478e-01
##   [6761,] -6.793900e-01  7.798026e-01  3.670740e-01  2.537350e+00
##   [6762,]  7.117496e-01 -4.067110e-01  1.099865e+00  8.894821e-01
##   [6763,]  1.462732e+00 -5.708571e-02 -7.014397e-02  1.021971e+00
##   [6764,] -1.643428e+00 -3.025999e-01  1.231186e-01  8.065115e-01
##   [6765,] -9.078301e-02 -1.902923e-02  4.818286e-02  9.085709e-01
##   [6766,]  5.888253e-01 -2.952119e-01 -1.842239e+00  2.821414e+00
##   [6767,]  1.018274e+00  1.469452e+00 -1.781494e-01  2.273218e+00
##   [6768,] -4.182141e-01 -6.705519e-01  8.106127e-01  2.575732e-01
##   [6769,]  2.462379e-01 -8.031057e-02  7.992546e-01  1.446184e+00
##   [6770,] -3.282668e-02 -7.061618e-01 -2.606232e-01  1.000719e+00
##   [6771,] -8.092515e-01  4.743383e-01  8.807036e-02  6.400539e-01
##   [6772,] -1.291828e+00 -1.497562e+00  1.010782e+00  1.287730e+00
##   [6773,]  1.102641e+00 -6.288634e-01  1.324620e+00  2.200368e+00
##   [6774,] -7.475099e-01  1.906011e+00 -2.114779e+00  1.735916e+00
##   [6775,]  7.191999e-01 -5.224663e-01  1.129499e+00  2.827335e+00
##   [6776,] -1.589904e+00 -9.740711e-01  1.537604e-01  3.373351e-01
##   [6777,]  7.973449e-01  2.562163e-01 -3.845217e-01  1.055058e+00
##   [6778,]  6.726644e-01  4.229069e-01 -1.869919e+00  9.129722e-01
##   [6779,] -5.382140e-01 -9.627756e-01 -8.588817e-01  1.119394e+00
##   [6780,] -1.779953e-02  2.110460e-01  1.128338e+00  2.686520e+00
##   [6781,]  8.040370e-01 -6.669555e-02  1.226103e-01  1.344866e+00
##   [6782,]  1.201390e+00 -6.029753e-01  1.274917e+00  6.269332e-01
##   [6783,]  7.064735e-01  2.210774e-01 -1.066838e-02  9.983389e-01
##   [6784,]  6.584648e-01  7.344235e-01  9.290834e-01  2.956743e+00
##   [6785,]  4.690533e-01 -4.507732e-01  1.170354e+00  7.524327e-01
##   [6786,] -2.482054e+00 -8.523387e-01 -5.237461e-01  6.301588e-01
##   [6787,]  4.057369e-01  6.582453e-01  3.834916e-01  7.151709e-01
##   [6788,]  1.695809e-01 -2.152925e-01  8.499179e-01  1.267762e+00
##   [6789,] -1.101731e+00  3.522914e-01  3.575415e-01  3.682799e-02
##   [6790,] -9.246014e-01 -1.047679e+00  1.196270e+00  2.955403e+00
##   [6791,]  3.494625e-01  1.320452e+00  1.348126e+00  1.570406e-01
##   [6792,] -2.497009e+00 -1.117041e-01 -1.353988e-01  7.198257e-01
##   [6793,] -9.262989e-01  1.677813e+00  1.039609e+00  9.153439e-01
##   [6794,] -1.499110e+00  2.168514e+00  1.039917e-01  2.346936e+00
##   [6795,] -1.491359e-01 -1.073080e+00 -9.215351e-01  6.409025e-01
##   [6796,]  4.849234e-03 -1.220017e+00  1.488613e+00  2.327620e+00
##   [6797,]  7.458796e-01 -9.304433e-02 -2.591420e-01  2.684819e+00
##   [6798,] -1.369525e+00  1.389509e-01 -2.626343e-01  9.976872e-01
##   [6799,] -1.274921e+00  3.698062e-01  8.733088e-01  1.286009e+00
##   [6800,] -1.752980e+00  1.015697e+00  1.180616e-01  2.027280e+00
##   [6801,]  1.254993e+00  7.210582e-01 -1.983760e+00  9.931953e-01
##   [6802,] -8.182195e-01  2.786790e-01  1.051259e+00  8.491067e-01
##   [6803,] -2.436440e+00  2.766681e-01  1.041620e+00  9.381673e-01
##   [6804,] -6.212698e-01 -2.284350e-01 -6.858115e-01  3.232009e+00
##   [6805,] -3.328474e-01  6.585113e-01 -2.038245e-01  6.626612e-01
##   [6806,] -8.902489e-03  3.427394e-02  4.532658e-02  1.382528e+00
##   [6807,]  5.190731e-01 -6.506805e-01  1.345837e+00  4.940094e-01
##   [6808,]  3.602981e-03  9.020037e-01  6.744436e-01  2.562672e+00
##   [6809,]  1.140138e+00  1.066938e+00  1.007243e+00  8.320740e-01
##   [6810,]  4.806769e-01 -7.752906e-01  5.119073e-02  4.673115e-01
##   [6811,] -1.568673e+00  3.975513e-01  1.606273e-01  1.981486e+00
##   [6812,]  1.118467e+00  5.840176e-01 -1.073837e-01  2.461887e+00
##   [6813,]  1.446508e-02 -4.781987e-01 -8.975753e-01  5.628615e-01
##   [6814,]  1.481382e-01 -8.380654e-02 -1.604378e-01  3.128028e+00
##   [6815,]  1.306128e+00  2.212410e-01  4.611814e-01  9.764400e-01
##   [6816,] -1.227583e+00 -1.714624e-01 -1.557057e+00  1.523594e+00
##   [6817,] -1.384626e+00 -2.395528e-01  5.373244e-01  1.642043e+00
##   [6818,]  1.394270e+00  9.294038e-01  1.621873e-01  1.126123e+00
##   [6819,]  7.412181e-01 -2.549189e-01 -4.332112e-01  1.133637e+00
##   [6820,]  6.488797e-03  1.003709e-01 -3.660677e-01  3.214527e+00
##   [6821,]  8.481522e-01  1.913646e+00  1.649426e-01  1.646515e+00
##   [6822,]  6.047200e-02  8.418107e-02  1.037398e+00  1.008978e+00
##   [6823,] -8.337508e-02 -7.173327e-01 -1.116869e+00  2.323276e+00
##   [6824,] -9.692985e-01 -8.593670e-01  1.368094e+00  5.317904e-01
##   [6825,] -1.283200e+00  6.847072e-01 -1.704171e+00  1.482799e+00
##   [6826,] -1.630838e+00  1.427719e+00 -1.920137e+00  2.841978e+00
##   [6827,] -1.619733e+00 -9.061270e-01 -9.422684e-02  9.492051e-01
##   [6828,]  2.625799e-01  5.694366e-03 -6.648275e-01  3.073778e+00
##   [6829,] -2.016244e-01 -7.750038e-01  8.139536e-01  5.688051e-01
##   [6830,] -1.591207e+00  5.536977e-02 -1.694426e+00  6.259619e-01
##   [6831,] -7.294400e-01 -7.487136e-01 -4.412073e-01  8.678342e-01
##   [6832,] -2.405209e+00  1.474893e+00  7.899131e-01  1.174658e+00
##   [6833,]  2.187912e-01 -1.520603e-01 -5.402970e-01  1.372940e+00
##   [6834,]  6.750452e-01 -4.056719e-02  1.028724e+00  9.563587e-01
##   [6835,] -2.198631e+00  1.316152e-02 -4.085595e-01  2.799740e+00
##   [6836,] -1.551020e+00  1.353053e+00 -2.059239e+00  3.042434e+00
##   [6837,] -1.647073e+00  4.594878e-01 -9.197869e-01  5.874226e-01
##   [6838,] -1.032167e+00  1.564999e+00  1.009875e+00 -1.330424e-01
##   [6839,]  1.061672e+00  1.578838e+00 -1.797865e+00  4.987224e-01
##   [6840,]  5.720776e-01  5.496390e-01  1.489361e-01  2.904035e+00
##   [6841,]  9.787360e-01  9.748010e-01 -2.090229e-01  1.056543e-01
##   [6842,] -1.131618e-01 -1.571470e+00  1.540357e+00  2.225284e+00
##   [6843,]  4.867886e-01  1.907010e+00 -5.750317e-01  5.966155e-01
##   [6844,] -1.648670e+00  1.716214e+00  1.086652e+00  2.600930e+00
```

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##   [6845,]  1.086940e+00 -1.865413e-01  2.367410e-01  2.290588e+00
##   [6846,] -1.566395e+00  1.690923e-01  1.166373e+00  7.685747e-01
##   [6847,]  6.523547e-01 -2.658685e-01  1.057628e+00  8.852453e-01
##   [6848,]  1.369159e+00  6.638634e-01 -1.280691e-01  1.024815e+00
##   [6849,] -5.677625e-01 -6.297773e-01 -1.868395e+00  1.036047e+00
##   [6850,]  1.907141e-01 -4.211580e-01  9.896935e-01  3.099749e+00
##   [6851,]  2.393952e-01  1.065142e+00 -6.429064e-01  3.606337e-01
##   [6852,]  5.274197e-01 -2.559674e-01  1.047460e+00  9.245036e-01
##   [6853,]  8.131057e-01  4.795924e-01 -3.171659e-01  1.422048e+00
##   [6854,]  8.713423e-01 -2.308494e-01 -1.314488e+00 -6.549481e-02
##   [6855,] -1.494720e+00  4.584313e-01 -1.557573e+00  6.907559e-01
##   [6856,] -3.579468e-01  2.278551e-01 -2.130223e+00  1.670121e+00
##   [6857,]  4.293944e-02  1.102534e-01 -1.060234e+00  1.461228e+00
##   [6858,]  1.965582e-02 -3.074303e-01  1.082183e+00  2.826534e+00
##   [6859,] -3.123679e+00 -4.641364e-01  2.361189e-01  2.236115e+00
##   [6860,] -5.606096e-01  6.046664e-02 -2.023936e+00  1.570711e+00
##   [6861,]  1.150301e+00  1.185422e+00  9.605139e-01  8.770405e-01
##   [6862,] -1.383950e+00  2.339318e-01  7.507461e-02  1.999538e+00
##   [6863,]  1.166725e+00 -2.406990e-01 -6.213236e-01  5.644682e-01
##   [6864,]  9.432713e-02 -2.490132e-02 -6.192917e-01  1.131341e+00
##   [6865,]  8.279707e-02  5.279597e-01  6.538837e-01  6.795992e-01
##   [6866,] -3.959854e-01  1.276128e+00 -1.139446e+00  5.751055e-01
##   [6867,]  1.131055e+00  6.694929e-01  8.138672e-01  2.167762e+00
##   [6868,] -6.108451e-01  9.953415e-01  8.543633e-02  1.346585e+00
##   [6869,] -4.213627e-01  1.358410e+00  1.326397e+00  1.694725e-01
##   [6870,] -9.290399e-01  9.543253e-01  8.251525e-01  1.106255e+00
##   [6871,]  7.486954e-01  1.263758e-02 -1.939713e+00  9.697052e-01
##   [6872,] -7.628503e-01 -3.194150e-01  1.398589e+00  4.135611e-01
##   [6873,]  5.344235e-01  1.404487e-01 -9.478495e-01  7.208384e-01
##   [6874,]  1.523793e+00  1.420512e-01 -3.503616e-01  9.844465e-01
##   [6875,]  6.514595e-01  7.579056e-01 -3.367731e-01  9.628429e-01
##   [6876,]  6.521480e-01  1.886730e-01 -5.125854e-01  8.634116e-01
##   [6877,]  5.960372e-01 -5.565600e-01  1.226312e+00  2.636173e+00
##   [6878,] -1.872690e-01 -1.453866e+00  1.294220e+00  7.546701e-01
##   [6879,]  9.127395e-01  4.625189e-01 -1.511591e+00  1.352982e-01
##   [6880,] -7.113619e-01  8.050093e-01  1.251979e+00  6.477432e-01
##   [6881,]  1.476228e+00  7.802903e-01 -5.779745e-01  1.152806e+00
##   [6882,]  8.376758e-01  8.132559e-02  6.874157e-02 -1.673762e-01
##   [6883,]  6.466696e-01 -4.611466e-01 -1.196608e+00  6.756763e-01
##   [6884,]  5.729758e-01  8.198414e-01 -3.106451e-01  8.036881e-01
##   [6885,]  6.377427e-01 -7.874399e-02  9.364610e-01  8.453171e-01
##   [6886,]  6.501155e-01 -1.222867e-01 -1.328932e+00  9.287183e-01
##   [6887,]  4.363780e-01 -2.362556e-01  1.316882e+00  6.522970e-01
##   [6888,]  1.087223e+00  3.557742e+00  1.845304e-01  5.226075e-01
##   [6889,] -9.816014e-01 -1.331770e+00 -2.837529e-02  6.528275e-01
##   [6890,] -9.005270e-02  1.097652e+00  1.256841e-01  2.151303e+00
##   [6891,] -1.671857e+00  3.241320e-01 -1.506635e+00  2.473169e-01
##   [6892,]  1.568427e+00  4.904780e-01  7.500814e-01  1.385331e+00
##   [6893,]  4.594652e-02 -7.235921e-01 -1.039112e+00  2.772166e+00
##   [6894,]  1.414396e+00 -1.198639e-02  1.089687e+00  2.895513e+00
##   [6895,]  7.800198e-01  3.404790e-01  1.015737e+00  1.019804e+00
##   [6896,]  9.047320e-01 -3.705838e-01  7.171921e-01  1.251225e+00
##   [6897,]  6.007421e-01  4.959772e-01 -3.887746e-01  1.143160e+00
##   [6898,]  8.804276e-01  3.709762e-01  8.288803e-01  1.285144e+00
##   [6899,]  6.303754e-01  3.461221e-01 -4.449047e-01  8.082385e-01
##   [6900,]  1.256565e+00  4.275504e-01 -1.270913e-01  7.185415e-01
##   [6901,]  1.006756e-01 -5.639425e-01  1.073183e+00  2.882916e+00
##   [6902,] -1.165231e-01 -8.293774e-01 -1.598690e+00  5.177857e-01
##   [6903,]  5.956348e-01  6.929218e-02 -6.111531e-01  1.058967e+00
##   [6904,]  1.347882e+00 -3.920032e-01  1.113046e+00  8.745828e-01
##   [6905,]  7.363969e-01  5.688754e-01  8.485193e-01  1.272094e+00
##   [6906,]  1.082426e+00 -3.009981e-01 -4.140429e-02  5.034047e-01
##   [6907,]  3.479551e-01 -1.812156e-01  1.294356e+00  4.901322e-01
##   [6908,] -7.126370e-02  1.562341e+00  1.204040e+00  2.479087e+00
##   [6909,]  6.146849e-01  3.958442e-01 -3.989854e-01  7.648611e-01
##   [6910,] -1.307829e-01  1.487826e+00 -1.292060e+00  3.461522e-01
##   [6911,]  7.129553e-01 -2.348170e-01  1.064510e+00  9.166982e-01
##   [6912,] -5.041828e-01  2.284696e-01 -1.833521e+00  1.520852e+00
##   [6913,] -2.400447e+00 -2.454959e-01 -1.444965e+00  8.888726e-01
##   [6914,]  5.094294e-03  3.995487e-01  7.791758e-01 -2.980493e-01
##   [6915,]  3.250921e-01  7.215277e-01  2.141872e-01  1.489429e+00
##   [6916,] -1.501818e+00  8.872290e-01  1.195168e+00  2.444814e+00
##   [6917,] -8.541184e-01 -2.118383e-01  1.274592e+00  6.322572e-01
##   [6918,]  1.120533e+00  1.195968e+00 -1.451511e+00  5.998325e-01
##   [6919,] -7.600788e-01  9.319519e-01 -1.501947e+00  5.052409e-01
##   [6920,]  1.562420e+00  1.132794e+00  9.754609e-01  3.195330e+00
##   [6921,] -9.020739e-01  6.579206e-01 -6.276839e-01  1.042371e+00
##   [6922,] -4.035145e-02 -1.618127e-01 -1.560951e+00  3.038609e+00
##   [6923,] -3.099329e+00 -4.679292e-01 -2.151022e-01  9.197286e-01
##   [6924,] -3.645937e-02 -8.753350e-01  5.483535e-01  7.389973e-01
##   [6925,] -3.319434e-01 -6.067312e-01  1.674908e+00  1.817367e+00
##   [6926,] -1.058709e+00  3.515841e-01  1.732124e-01  2.815419e+00
##   [6927,] -2.066912e-01  7.300438e-01  1.208677e+00  5.877658e-01
##   [6928,]  6.753271e-01 -2.740972e-01 -5.609084e-01  1.227331e+00
##   [6929,] -3.911058e-01  1.368172e+00  1.530064e+00 -2.102089e-01
##   [6930,] -1.002616e+00  3.478320e-01 -1.167309e+00  2.825214e-01
##   [6931,] -6.624052e-01 -4.119356e-01 -9.092694e-01  8.653134e-01
##   [6932,] -1.106609e+00  9.456495e-01 -2.528642e-01  5.964328e-01
##   [6933,] -2.416142e+00 -7.164424e-01 -1.520128e+00  5.440748e-01
##   [6934,]  5.397715e-01 -1.992697e-01  9.976217e-02  2.388160e+00
##   [6935,] -7.247000e-01  1.747372e+00  1.027463e+00  2.796280e+00
##   [6936,]  7.616391e-01 -1.879988e-01  1.064525e-01  2.715200e+00
##   [6937,] -9.022810e-03 -6.447392e-01  1.323105e+00  5.457033e-01
##   [6938,]  6.842149e-01  4.944442e-02 -3.345919e-01  8.335818e-01
##   [6939,] -1.453669e+00  9.021289e-01  1.315561e+00  2.323134e+00
##   [6940,] -1.876853e-02  1.362306e-01  1.230281e+00  6.156249e-01
##   [6941,] -1.145954e+00  9.587531e-01  8.159201e-01  8.768709e-01
##   [6942,] -5.457155e-01  2.490044e+00 -1.354879e+00  1.779697e+00
```

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##   [6943,]  2.359697e-01 -3.612418e-01  1.656765e+00  1.790709e+00
##   [6944,]  1.088164e+00  3.190015e+00  1.044246e+00  5.324440e-01
##   [6945,] -7.704504e-01 -2.273317e-01 -1.512729e+00  1.265571e+00
##   [6946,]  1.443112e+00  3.138043e-01  1.029582e+00  2.882198e+00
##   [6947,]  1.415330e+00  7.615980e-01  1.061272e+00  8.585759e-01
##   [6948,] -1.165242e+00  8.752192e-01 -3.322281e-02  2.648821e+00
##   [6949,] -2.831341e+00  2.174004e-01 -1.603555e+00  1.167884e+00
##   [6950,]  9.199866e-01  4.406035e+00  1.408855e+00  4.998440e-01
##   [6951,] -4.381204e-01  8.948294e-01  5.817431e-01  2.795856e-02
##   [6952,] -1.179640e-01 -5.088400e-01  3.296059e-02  9.984702e-01
##   [6953,] -3.280581e-01  1.171547e+00 -3.285372e-01  4.582408e-01
##   [6954,]  8.760163e-01 -4.610487e-02  3.232991e-01  1.221885e+00
##   [6955,]  9.643637e-02  2.924027e-02 -3.308467e-01  2.872130e+00
##   [6956,] -2.931221e+00  1.644038e+00 -1.944954e+00  1.059905e+00
##   [6957,] -3.068573e+00  2.810450e-01  1.000715e+00  1.109801e+00
##   [6958,] -1.750307e-01 -4.306516e-01 -1.775926e+00  8.407158e-01
##   [6959,]  6.342454e-01 -5.648560e-02  1.159894e+00  7.412550e-01
##   [6960,] -9.794247e-01  1.146018e+00  1.309850e-01 -3.349053e-02
##   [6961,]  6.748932e-01 -9.385898e-01  1.321118e+00  2.467485e+00
##   [6962,]  1.316681e+00 -3.596687e-01  3.482231e-01  2.601923e+00
##   [6963,] -3.462680e-02 -1.311425e-01 -1.581406e+00  1.031430e+00
##   [6964,] -5.267176e-02 -9.623239e-01 -1.232200e+00  8.804981e-01
##   [6965,]  6.724258e-01 -2.413888e-01 -4.154601e-01  8.044502e-01
##   [6966,] -1.672885e+00 -9.864841e-01  2.457690e-01  1.408508e-01
##   [6967,]  1.374052e+00  1.055147e+00 -6.108161e-01  9.159181e-01
##   [6968,]  1.177150e+00  1.509315e-01  1.431080e-01  6.273874e-01
##   [6969,] -7.069732e-01 -2.877202e-01 -2.242020e+00  1.701401e+00
##   [6970,] -1.166554e+00 -1.732385e-01  6.345621e-01  1.762106e+00
##   [6971,]  1.239031e+00  6.142990e-01 -2.641978e-01  2.756354e+00
##   [6972,]  6.521505e-01  2.904395e-01  6.196568e-01  1.031935e+00
##   [6973,]  8.663768e-01  1.000514e+00 -5.533362e-01  1.580225e+00
##   [6974,] -2.399781e-01  6.629945e-01 -2.286242e-01  6.809322e-01
##   [6975,] -1.197539e+00  1.719272e+00 -7.046799e-01  1.410428e+00
##   [6976,]  7.822958e-01  9.624819e-01 -1.890964e+00  1.067081e+00
##   [6977,]  1.005291e-01 -7.545133e-01 -1.187604e+00  7.467154e-01
##   [6978,]  3.542052e-02  1.294263e-01  1.004318e+00  1.062207e+00
##   [6979,]  1.448666e+00  1.191840e+00  8.278510e-01  1.287649e+00
##   [6980,] -8.788207e-01 -1.114143e+00  1.323326e+00  7.071185e-01
##   [6981,]  1.951736e-02 -8.270197e-01  7.394724e-01  2.947910e+00
##   [6982,]  5.180637e-01  8.831076e-01  1.109938e+00  6.858058e-01
##   [6983,] -5.571946e-01 -1.786118e-01 -5.609223e-02  1.381946e+00
##   [6984,] -2.649530e+00 -8.725501e-01  3.263273e-01  2.056956e+00
##   [6985,] -1.043602e+00  4.573381e-01  1.557064e+00  1.889502e+00
##   [6986,] -9.727795e-01  1.976886e+00  3.887915e-01 -1.437383e-01
##   [6987,] -4.826392e-01  2.969284e+00 -1.474941e+00  1.263559e-01
##   [6988,] -5.708224e-01 -7.491677e-01 -1.462807e+00  1.256121e+00
##   [6989,] -1.019856e-01 -1.241519e+00 -1.112079e+00  2.334663e+00
##   [6990,]  1.851279e-01  4.543270e-01 -1.341217e+00  1.295375e+00
##   [6991,] -1.463095e+00  4.444734e-01 -5.371216e-01  1.366604e+00
##   [6992,]  3.039153e-01 -6.165586e-01  1.488448e-01  2.898787e-01
##   [6993,]  2.823791e-01  6.594649e-01  1.242138e+00  4.402532e-01
##   [6994,]  6.051246e-01  4.336178e-01 -1.641846e-01  5.583375e-01
##   [6995,]  4.953145e-01 -7.125323e-01 -4.433427e-01  2.084201e+00
##   [6996,] -1.614900e+00 -1.337953e+00 -1.529181e+00  8.796636e-01
##   [6997,] -1.543290e+00  1.182770e+00 -1.377550e-01  5.139507e-01
##   [6998,] -2.537794e-02  1.384614e+00  6.627787e-01 -2.458785e-01
##   [6999,] -5.427967e-01 -2.014260e-01  5.763591e-01  1.870000e+00
##   [7000,] -1.022836e+00  1.320319e+00 -5.609595e-02  2.020777e+00
##   [7001,]  4.879387e-01  7.877533e-01  1.143935e+00  6.953536e-01
##   [7002,]  7.357802e-01 -3.193808e-01 -2.236875e-01  9.234782e-01
##   [7003,] -2.804610e+00  7.685119e-01 -6.551018e-01  1.277141e+00
##   [7004,]  1.303486e-01  1.081340e-01  1.556709e+00 -9.188438e-03
##   [7005,]  7.651851e-01 -1.867748e-01 -9.028046e-01  2.726858e+00
##   [7006,]  1.183354e+00  8.910470e-02  1.227823e+00  6.580694e-01
##   [7007,] -4.975061e-02 -8.937089e-01 -2.415261e-01  9.471278e-01
##   [7008,] -7.590764e-01 -8.638936e-01  1.717079e-01  3.056473e+00
##   [7009,] -9.189853e-01  3.015145e+00 -5.078820e-01  8.255603e-01
##   [7010,] -9.657612e-01 -3.854206e-01 -1.931652e+00  1.076155e+00
##   [7011,] -6.899754e-01 -5.893960e-01  8.542853e-01  1.454786e+00
##   [7012,] -2.588051e-01  1.487110e+00  1.747089e-01  3.060653e-01
##   [7013,] -1.049334e+00  2.139422e+00  9.457387e-01 -1.027447e-01
##   [7014,] -1.270978e-01 -8.613061e-01  1.289945e+00  5.704384e-01
##   [7015,] -1.165318e-01 -1.196184e+00 -9.419038e-01  2.316858e+00
##   [7016,]  1.275781e-02 -1.761035e-01 -8.755334e-01  8.143929e-01
##   [7017,] -9.205855e-01  2.330419e+00 -1.064720e+00  2.512617e-01
##   [7018,]  2.426117e-01 -1.222252e+00  4.122806e-01  1.694071e+00
##   [7019,] -9.757191e-01  2.926135e-01 -1.209779e+00  2.975705e+00
##   [7020,]  1.454233e+00 -4.389526e-01  1.058136e+00  9.852607e-01
##   [7021,]  1.155445e-01 -7.706446e-01 -5.016843e-01  8.034482e-01
##   [7022,] -9.286018e-01 -4.896930e-01  1.630317e+00 -6.250154e-03
##   [7023,] -8.941075e-01 -3.994797e-03 -1.636819e+00  3.130157e+00
##   [7024,]  3.809730e-02 -1.265249e+00  3.188979e-02  5.625409e-01
##   [7025,] -9.243746e-01  1.573140e+00  4.716613e-02  6.503361e-01
##   [7026,] -6.432860e-01 -5.490242e-01 -5.100929e-01  1.316759e+00
##   [7027,]  2.287033e-01  6.308406e-02 -1.756089e+00  1.363839e+00
##   [7028,]  9.986673e-01  6.013209e-01 -1.486766e+00  8.214649e-02
##   [7029,] -4.929809e-01 -3.524408e-01  7.906139e-01  1.534930e+00
##   [7030,]  3.434874e-01  9.946534e-02 -7.638293e-01  3.274524e+00
##   [7031,] -5.972629e-01 -8.876769e-01 -1.477399e+00  9.566348e-01
##   [7032,] -7.393304e-01 -1.060927e+00 -1.418613e+00  2.606279e+00
##   [7033,] -2.882858e-01 -1.033965e+00 -1.384191e+00  5.039759e-01
##   [7034,]  4.423698e-01  1.282953e+00  2.178950e-01  2.117306e+00
##   [7035,] -2.390177e-02 -3.165303e-01 -5.522483e-01  1.027548e+00
##   [7036,]  1.316540e+00  8.025592e-01 -6.539656e-01  1.026760e+00
##   [7037,]  2.351050e-02  7.406655e-01 -4.385373e-01  1.465519e+00
##   [7038,]  6.816387e-02 -1.236653e-01  1.141198e+00  2.914641e+00
##   [7039,] -2.812095e-03 -2.577821e-01  1.124061e+00  9.169349e-01
##   [7040,]  5.355014e-01 -1.328170e+00 -7.610389e-01  1.537216e-01
```

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##   [7041,]  4.001813e-01  2.453568e+00  9.908734e-01  8.901539e-01
##   [7042,] -7.119980e-01  6.548008e-01 -2.108112e+00  1.278090e+00
##   [7043,]  1.027818e+00  4.279137e+00 -4.217348e-01  6.288860e-01
##   [7044,] -8.490257e-01  1.129122e-01  1.432794e+00  4.368103e-01
##   [7045,] -1.832206e+00  7.636066e-01  9.426159e-01  2.347980e+00
##   [7046,]  1.385252e+00  3.330718e-01  1.062873e+00  2.872539e+00
##   [7047,]  2.686872e-01  1.422385e+00  7.294290e-02  2.627328e-02
##   [7048,]  1.354904e+00  1.142235e+00  4.001530e-01  1.160551e+00
##   [7049,] -1.266184e+00  9.040950e-01  9.619039e-01  2.991602e+00
##   [7050,] -1.083059e-01  9.557365e-01  1.225712e+00  2.646093e+00
##   [7051,]  7.304094e-01 -1.447616e-01  1.151857e+00  8.392948e-01
##   [7052,]  2.250738e-01  8.963376e-01  3.516711e-01  1.430578e+00
##   [7053,] -2.117852e+00  4.683500e-01  7.848193e-01  1.497396e+00
##   [7054,]  1.080400e-01  1.252903e-01 -1.769051e+00  1.068190e+00
##   [7055,] -6.830377e-01  2.313159e+00  1.278460e+00  2.396538e+00
##   [7056,] -7.912991e-02 -1.094531e+00 -1.160349e+00  4.652567e-01
##   [7057,] -1.959969e+00  5.983463e-01  1.406830e+00  2.019090e-01
##   [7058,] -1.279062e-01 -1.983601e+00  2.305994e-01  2.876516e-01
##   [7059,]  7.316196e-01  5.119095e-01 -5.679746e-02  1.172737e+00
##   [7060,]  3.701906e-01 -1.743236e+00  3.733736e-01  1.921090e+00
##   [7061,]  4.611262e-01 -1.539014e-01 -2.257476e-01  7.101459e-01
##   [7062,] -1.638814e+00  6.363490e-01  1.380510e+00  2.377291e-01
##   [7063,]  5.680734e-01  2.077060e+00 -4.395438e-01  8.421308e-01
##   [7064,]  1.226413e+00 -6.183095e-02  8.625600e-01  2.690754e+00
##   [7065,]  1.333131e+00  3.231603e-01 -4.521142e-01  1.186045e+00
##   [7066,]  6.403981e-02  7.682249e-01 -1.624836e+00  7.269545e-01
##   [7067,]  2.749952e-01 -2.059157e-01 -4.118601e-01  3.115399e+00
##   [7068,] -2.719602e+00  4.106739e-02  8.175998e-01  1.480305e+00
##   [7069,] -2.070711e-01 -3.518102e-01 -1.879217e-01  2.391047e+00
##   [7070,]  1.305313e+00  1.680901e+00 -6.506802e-02  8.362285e-01
##   [7071,] -1.109625e+00  6.156694e-02 -4.106877e-01  7.757959e-01
##   [7072,] -1.088033e+00  1.055408e+00  7.498723e-01  1.397918e+00
##   [7073,] -9.420245e-01  5.331470e-01  6.058038e-01  7.519546e-01
##   [7074,]  1.279930e+00  2.017454e-01  1.262606e+00  6.169143e-01
##   [7075,] -6.979738e-01  4.703185e-01 -1.776273e-01  8.409389e-01
##   [7076,] -9.928749e-01 -7.940224e-01  1.261007e+00  2.869156e-01
##   [7077,]  8.650709e-01 -5.499490e-02 -1.455592e+00  1.380617e+00
##   [7078,]  7.820396e-01  2.972373e-01  9.030905e-01  1.147797e+00
##   [7079,] -4.062012e-01  1.702309e+00  3.090027e-02 -5.244867e-02
##   [7080,]  5.842792e-01  7.247008e-01  1.882317e-01  7.041068e-01
##   [7081,] -8.593289e-01 -1.146157e-01 -1.333326e+00  3.485172e-01
##   [7082,] -1.030996e+00  2.409052e+00 -2.588544e-01  5.961806e-02
##   [7083,] -6.724166e-02 -3.533475e-01  5.780909e-01  6.181274e-01
##   [7084,]  2.065900e-01 -7.646367e-01  1.635085e+00  1.904483e+00
##   [7085,] -7.997707e-01  1.011335e+00  2.667674e-01  2.285138e+00
##   [7086,]  5.974373e-01 -4.676590e-01 -2.050128e-01  8.092193e-01
##   [7087,]  3.114122e-01  1.283296e+00  1.316688e+00  1.478986e-01
##   [7088,]  7.773262e-01  1.345736e+00  1.383166e+00  6.368535e-03
##   [7089,]  6.291009e-01 -6.248310e-01 -1.968538e-01  8.572998e-01
##   [7090,]  1.209930e-01  3.315773e-01 -1.855029e+00  1.467166e+00
##   [7091,]  1.593747e+00  5.329488e-01  8.498032e-01  1.267319e+00
##   [7092,] -1.225277e-01  7.250596e-01  1.128585e+00  7.811400e-01
##   [7093,] -6.866384e-01  6.855978e-01  9.646564e-01  1.135555e+00
##   [7094,] -1.755168e+00  1.009480e+00  1.967639e-01  2.008141e+00
##   [7095,]  1.945050e-01  5.324158e-01 -1.631643e+00  1.441760e+00
##   [7096,]  2.760345e-01  7.188923e-01  6.628171e-01  1.610546e+00
##   [7097,] -2.518144e-01  7.337885e-01 -9.468506e-02  4.725120e-01
##   [7098,] -2.943769e-01 -1.001942e+00 -8.196625e-01  4.980093e-01
##   [7099,] -9.097663e-01 -7.942809e-03 -5.482720e-01  9.511635e-01
##   [7100,]  8.849129e-01  1.150906e+00  5.992655e-01  1.363757e+00
##   [7101,]  4.775479e-02 -8.784682e-01  4.170602e-02  2.406433e+00
##   [7102,]  4.378264e-01 -5.023302e-01  1.263907e+00  2.508735e+00
##   [7103,] -1.344656e+00 -1.612961e+00  8.234598e-01  2.960956e+00
##   [7104,]  8.368477e-01  4.431873e-01 -5.926622e-01  1.340658e+00
##   [7105,] -1.660790e-01  4.731886e-01 -1.274490e+00  1.016813e+00
##   [7106,]  7.507298e-01 -2.230961e-01  1.072630e+00  9.013876e-01
##   [7107,] -1.634216e+00 -2.977598e-01  1.211803e+00  2.700845e+00
##   [7108,] -2.251688e-01  1.802369e+00 -1.631086e+00  2.447075e-01
##   [7109,]  4.015392e-02 -2.337956e-03 -2.241625e-01  1.022231e+00
##   [7110,] -6.384728e-01 -1.211835e+00 -3.401962e-01  3.126952e+00
##   [7111,]  5.801766e-01 -7.336802e-01  1.018725e+00  2.442835e+00
##   [7112,] -9.404588e-01  1.132058e+00  4.519373e-01  3.384996e-01
##   [7113,] -7.251657e-01 -7.576939e-01 -1.725785e+00  1.083041e+00
##   [7114,] -6.037739e-01 -1.994897e-01 -5.660799e-01  1.493461e+00
##   [7115,]  7.230911e-01  6.110033e-01 -4.204186e-01  2.680298e+00
##   [7116,]  3.406259e-01  3.701604e+00  1.185008e+00  2.456353e+00
##   [7117,]  1.863424e-01 -5.872528e-02 -5.379776e-01  1.193841e+00
##   [7118,]  1.236009e+00  1.375421e+00 -1.371690e+00  7.666256e-01
##   [7119,]  6.989460e-01 -5.521758e-01  5.823060e-01  2.533013e+00
##   [7120,] -8.198322e-01 -5.036850e-01 -5.109179e-01  2.933476e+00
##   [7121,]  7.177467e-01  6.219827e-01 -4.865586e-01  1.430070e+00
##   [7122,]  1.093093e+00 -2.939061e-01  1.356664e-01  3.651304e-01
##   [7123,] -9.660218e-01 -1.636678e+00  1.469586e+00  2.474200e+00
##   [7124,]  1.505774e+00  6.427960e-01  8.772112e-01  1.228481e+00
##   [7125,] -6.185099e-01 -6.480749e-01 -4.774529e-01  1.400898e+00
##   [7126,] -1.714196e+00 -4.043453e-01 -1.608077e+00  5.387596e-01
##   [7127,] -3.308321e-01  1.394964e+00 -1.299486e+00  3.168220e-01
##   [7128,]  8.447233e-01  8.571401e-01 -4.284083e-01  1.207225e+00
##   [7129,] -7.669279e-03  5.660367e-01  1.155340e+00  2.404868e+00
##   [7130,]  8.942972e-02  1.498190e-01  6.401757e-02  1.075951e+00
##   [7131,]  4.608266e-01 -9.531877e-01 -8.850943e-02  6.575435e-01
##   [7132,] -1.314187e+00  1.464475e+00 -4.126381e-02  8.565499e-01
##   [7133,]  9.823926e-02 -3.423664e-01  9.660553e-01  1.165093e+00
##   [7134,]  1.182894e+00 -3.075428e-01 -9.925181e-01  2.927684e-01
##   [7135,] -9.087931e-01  2.788261e+00  2.066095e-01  1.226988e+00
##   [7136,]  6.084898e-02 -4.174029e-01 -2.287008e-01  9.336202e-01
##   [7137,]  7.785752e-02  5.577120e-01  8.431375e-01  1.233255e+00
##   [7138,]  6.041647e-01  1.162923e+00 -6.802939e-02  6.427634e-01
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##   [7139,] -1.308372e-01 -8.999898e-01  1.127482e+00  2.818602e+00
##   [7140,] -8.960668e-01 -1.379400e+00 -1.065123e-01  8.451263e-01
##   [7141,]  1.084509e+00  2.836826e+00  2.587596e-01  3.030552e-01
##   [7142,]  2.904801e-03 -4.793372e-01  1.351001e-01  2.381519e+00
##   [7143,]  3.930763e-01 -7.970095e-01  1.423617e-01 -6.883689e-02
##   [7144,] -8.143040e-01 -1.431772e-01 -1.306122e+00 -7.640954e-02
##   [7145,] -1.313475e+00  8.137633e-01 -6.085466e-01  1.156959e+00
##   [7146,] -4.255007e-01 -4.546113e-01  5.479153e-01  1.678229e+00
##   [7147,]  1.205666e+00  8.560990e-01 -2.341038e-01  6.197142e-01
##   [7148,] -8.639944e-01  4.109118e-01  3.311845e-01  2.266198e+00
##   [7149,]  1.441538e+00  9.588142e-02 -3.123470e-01  9.958322e-01
##   [7150,]  6.192093e-01  1.195475e+00 -6.455970e-01  1.005793e+00
##   [7151,] -5.094393e-01 -4.233258e-01  1.012586e+00  3.098557e+00
##   [7152,] -1.623083e+00  7.695403e-01  1.097383e+00  7.246679e-01
##   [7153,] -1.270247e+00 -3.460446e-01 -2.218472e+00  1.630771e+00
##   [7154,]  8.003925e-01  1.626240e+00  2.281960e-01 -3.447736e-01
##   [7155,]  1.025975e+00 -1.469201e-01  1.496113e+00  1.978739e+00
##   [7156,]  1.232319e+00  1.034689e+00 -2.664282e-01  8.631430e-01
##   [7157,]  8.484256e-01  5.179668e-01 -4.320446e-02  1.202515e+00
##   [7158,]  6.791883e-01 -8.154879e-02 -1.868102e-01  9.172589e-01
##   [7159,] -9.872815e-01 -3.686667e-01 -3.979294e-01  7.197623e-01
##   [7160,] -4.396427e-01  2.478300e+00 -6.501007e-01  1.573620e+00
##   [7161,] -6.305761e-01 -1.210896e+00 -1.479357e+00  2.655439e+00
##   [7162,]  1.403740e-01  2.010113e+00  6.646465e-01  1.630431e+00
##   [7163,]  1.265874e-01 -4.983576e-04 -1.551025e+00  3.028318e+00
##   [7164,] -6.512896e-02 -5.856584e-01 -1.305330e+00  2.936732e+00
##   [7165,] -1.595840e+00  1.154555e+00 -2.687205e-01  8.014639e-01
##   [7166,]  7.482070e-03 -8.017041e-01  1.333593e+00  5.631447e-01
##   [7167,] -1.707287e+00  2.780805e-01  1.177047e+00  7.566151e-01
##   [7168,]  6.618410e-01  9.187456e-01  7.840438e-01  1.366509e+00
##   [7169,] -2.472582e-01  2.595720e+00  1.042609e+00  7.012636e-01
##   [7170,] -7.542718e-01  1.323429e-01  1.178508e+00  1.093322e+00
##   [7171,]  8.046528e-01  9.602523e-01 -4.609128e-01  3.122856e+00
##   [7172,] -6.807365e-01 -1.751429e-01 -1.097732e+00  1.502054e+00
##   [7173,]  6.665733e-01  3.202204e-01  1.140991e+00  2.605426e+00
##   [7174,] -1.857583e+00 -4.520644e-01  1.176454e+00  8.841822e-01
##   [7175,] -1.182183e-02 -1.017336e+00 -9.873683e-01  7.647517e-01
##   [7176,]  5.579548e-01 -1.452101e-01  9.842814e-01  1.014774e+00
##   [7177,] -2.569624e+00 -1.095316e+00  1.457011e+00  4.310397e-01
##   [7178,]  1.377385e+00  2.374370e-01  1.022226e+00  2.977089e+00
##   [7179,] -1.622673e-01  1.774626e+00 -7.033282e-01  4.444716e-01
##   [7180,]  1.285139e+00  1.212960e+00 -3.053990e-01  9.936847e-01
##   [7181,] -1.197376e+00  9.836459e-01  2.576174e-01  1.648596e+00
##   [7182,]  8.033681e-01  8.239667e-01 -1.644924e+00  3.021439e+00
##   [7183,] -2.958317e-01 -4.105382e-01  1.100449e+00  2.471574e+00
##   [7184,]  1.324985e+00 -2.590612e-02 -4.921062e-01  9.806269e-01
##   [7185,] -2.656451e+00  7.594266e-01 -7.409092e-01  1.665377e+00
##   [7186,] -7.846061e-01 -2.621893e-01 -3.700092e-01  3.092093e+00
##   [7187,] -6.800427e-01  2.416079e-01 -1.941705e+00  1.079189e+00
##   [7188,] -6.107056e-01  7.077459e-01 -2.730555e-01  2.930856e+00
##   [7189,] -1.402198e+00 -6.293275e-01  9.324286e-02  4.041105e-01
##   [7190,]  5.594287e-01  6.908230e-01 -1.647222e+00  2.640586e+00
##   [7191,]  6.436372e-01 -6.545233e-02  1.126100e+00  2.712897e+00
##   [7192,] -1.739417e+00  1.556385e+00 -4.775190e-02  8.121181e-01
##   [7193,]  1.136541e+00  5.194871e-01  1.241575e+00  2.446574e+00
##   [7194,]  4.049389e-01 -8.334378e-01  1.530232e+00  2.133445e+00
##   [7195,]  2.507476e-02 -6.112840e-01  1.072851e+00  2.992006e+00
##   [7196,]  1.394302e+00  2.452815e-01 -1.809669e+00  1.015470e+00
##   [7197,] -6.736039e-01  1.062105e+00 -5.097815e-01  6.658054e-01
##   [7198,] -2.086086e-01  5.803826e-01 -1.941497e+00  9.058901e-01
##   [7199,] -2.221571e+00 -8.069599e-01  1.160053e+00  8.958001e-01
##   [7200,] -6.202319e-01 -2.734585e-01 -1.603631e+00  1.175493e+00
##   [7201,] -6.705072e-01  6.446800e-02  1.249702e+00  6.753163e-01
##   [7202,]  1.142179e+00 -4.307227e-02  1.399781e+00  2.799579e-01
##   [7203,]  5.803982e-01 -3.549156e-01 -1.828037e+00  9.412311e-01
##   [7204,]  3.429699e-02 -6.729835e-01 -1.300601e+00  2.622506e+00
##   [7205,] -7.194353e-01 -7.497702e-01  1.132672e+00  9.405170e-01
##   [7206,] -1.703381e+00  6.084783e-02 -1.515456e-01  2.256594e+00
##   [7207,] -1.477993e+00 -1.040606e+00 -1.639137e+00  3.543197e+00
##   [7208,] -4.312407e-01  1.319718e+00  7.363801e-01  4.693070e-01
##   [7209,]  1.250719e+00  9.706095e-01  1.073443e+00  6.814110e-01
##   [7210,] -3.444060e-02 -1.453832e-01 -1.202276e+00  1.032261e+00
##   [7211,] -5.228560e-01  1.443264e+00  1.640805e+00  1.719938e+00
##   [7212,]  2.018592e-02  5.804246e-01  5.708092e-01  7.540507e-01
##   [7213,]  1.357354e+00  9.701520e-01  8.993452e-01  1.179512e+00
##   [7214,] -1.028491e+00  8.380127e-02 -4.801348e-02  2.350700e+00
##   [7215,]  7.322881e-01 -3.765654e-01  9.195980e-01  1.170610e+00
##   [7216,]  9.416686e-01  8.783999e-01  1.503862e+00  1.769844e+00
##   [7217,]  7.923842e-01 -3.463309e-01  8.817281e-01  9.741722e-01
##   [7218,]  9.183007e-01  7.975219e-01 -3.698496e-01  1.327208e+00
##   [7219,]  1.268555e-01 -6.229253e-01  1.126526e+00  8.836400e-01
##   [7220,] -8.293532e-01  1.223164e+00 -4.917409e-01  6.563818e-01
##   [7221,] -9.226996e-01  5.301596e-01 -5.916897e-01  9.799019e-01
##   [7222,] -1.195323e-01  8.579969e-01  1.143972e+00  4.998197e-01
##   [7223,]  5.438494e-01  6.460133e-01 -6.965379e-02  2.328257e+00
##   [7224,]  5.148750e-01 -6.712279e-01 -1.488736e+00  2.591904e+00
##   [7225,]  8.353297e-01 -3.872458e-01 -1.545594e+00  1.019841e+00
##   [7226,]  9.106714e-01 -1.142982e-01  8.833809e-01  3.144713e+00
##   [7227,]  6.653897e-02 -4.946945e-01 -2.168318e-01  9.350614e-01
##   [7228,] -8.192613e-01  1.763488e+00  1.222058e+00  4.276076e-01
##   [7229,]  6.897179e-01 -8.153993e-02  1.088567e+00  8.736298e-01
##   [7230,]  7.290377e-01 -2.003442e-01 -3.153167e-01  1.038612e+00
##   [7231,]  4.546856e-01 -9.691510e-02  5.982149e-01  7.487482e-01
##   [7232,]  6.253183e-01 -1.722959e-01  2.923192e-01  2.713056e+00
##   [7233,] -1.309578e-01  2.109497e+00 -4.845268e-01  5.340605e-01
##   [7234,]  1.233421e-01 -4.797042e-01  1.080539e+00  2.931055e+00
##   [7235,] -7.878684e-01  4.005676e-01  1.040476e+00  8.890777e-01
##   [7236,] -1.171956e+00  6.117434e-01  9.336475e-02  2.003014e+00
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##   [7237,]  2.124186e-01  2.003989e+00 -9.807565e-01  1.663508e-01
##   [7238,]  1.265101e+00  1.231555e-01 -1.890287e-01  7.217989e-01
##   [7239,]  6.865054e-01  1.639356e-01 -5.466530e-01  2.883148e+00
##   [7240,]  7.960470e-01 -4.497383e-01  7.281244e-01  9.605395e-01
##   [7241,] -7.893106e-01 -3.992101e-01 -1.603500e+00  5.238183e-01
##   [7242,] -1.401008e+00  1.375694e+00  1.002085e+00  2.746300e+00
##   [7243,] -5.002494e-01 -6.918047e-04 -1.583740e-02 -2.619538e-01
##   [7244,]  3.774115e-02 -7.235852e-01  1.106813e+00  9.690623e-01
##   [7245,]  9.140100e-01  1.014672e+00  7.622516e-01  1.421226e+00
##   [7246,]  1.572388e-01  3.048715e-01  2.960361e-01  1.032977e+00
##   [7247,] -9.418501e-03 -8.645324e-01  7.562450e-01  2.641623e+00
##   [7248,]  8.143417e-02 -5.778417e-01 -3.679851e-01  3.126842e+00
##   [7249,]  5.606606e-01  2.019116e+00  9.597475e-01  8.169131e-01
##   [7250,]  1.183623e+00 -2.159750e-01  1.188630e+00  2.615456e+00
##   [7251,]  5.101355e-02 -3.725607e-01 -1.703389e+00  6.561306e-01
##   [7252,] -4.298186e-01 -2.853113e-01 -2.216096e+00  3.484016e+00
##   [7253,] -1.893225e+00  9.746312e-01 -1.238922e+00  2.188303e+00
##   [7254,]  1.282544e+00  7.727357e-01  1.187070e+00  2.658691e+00
##   [7255,]  6.865515e-01 -2.044588e-01 -1.849250e-01  9.221883e-01
##   [7256,] -1.047741e+00 -1.003189e+00  1.533306e+00  2.163356e+00
##   [7257,] -7.120238e-01 -7.653376e-01  1.111981e+00  9.612300e-01
##   [7258,] -2.047740e-01 -2.634399e-01  1.327658e+00  4.476327e-01
##   [7259,] -7.710521e-01  1.542071e+00 -4.198206e-01  1.033162e+00
##   [7260,] -3.171339e-01  1.332134e+00 -5.248923e-01  1.339949e+00
##   [7261,]  9.730785e-01  3.093994e-01 -7.709627e-02  7.944880e-05
##   [7262,] -9.479299e-01  1.509924e+00 -1.365199e+00  1.983713e+00
##   [7263,]  2.475137e-01 -1.057965e+00 -1.327634e+00  5.968163e-02
##   [7264,]  4.536990e-01 -4.843591e-01 -4.778400e-02  2.517492e+00
##   [7265,]  1.634289e-01  2.280313e-01  9.394007e-01  1.256401e+00
##   [7266,] -1.544906e+00  2.193416e+00 -1.893428e+00  5.946276e-01
##   [7267,]  8.591168e-02  6.901913e-01  2.507929e-01  1.109893e+00
##   [7268,] -8.300507e-02 -1.074213e+00  6.096810e-02  2.443320e+00
##   [7269,] -7.319478e-01 -2.652034e-01  1.224491e+00  2.946643e+00
##   [7270,] -1.570173e+00  9.472569e-01  1.130113e+00  8.302146e-01
##   [7271,]  7.920442e-01  3.725681e-01  9.894034e-01  1.055027e+00
##   [7272,]  1.389930e+00  9.455677e-01  3.669105e-02  1.095548e+00
##   [7273,]  6.392534e-01  8.365324e+00 -2.165932e-01  2.851643e+00
##   [7274,] -6.640288e-01  9.164272e-01 -3.870997e-01  1.013489e+00
##   [7275,]  1.337920e-01 -7.866092e-01  1.000162e+00  1.190940e+00
##   [7276,] -6.669593e-01 -4.394467e-01  9.483005e-01  3.158746e+00
##   [7277,] -5.551913e-01 -2.979706e-01  5.936948e-01  1.832534e+00
##   [7278,]  8.193320e-01  2.533931e+00  1.246963e+00  2.228570e-01
##   [7279,]  7.888200e-01  1.096256e-01  8.622852e-01  1.161856e+00
##   [7280,]  3.878354e-01  1.745516e+00  1.283998e+00  2.555978e-01
##   [7281,]  1.177116e+00  1.021030e-01 -4.364384e-01  7.362700e-01
##   [7282,] -7.797716e-01 -7.349716e-01  8.661840e-01  3.378825e+00
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##   [7284,] -3.121796e+00  1.235317e+00 -4.353475e-01  9.548998e-01
##   [7285,] -9.664759e-01  1.493144e+00 -1.499919e+00  7.591235e-01
##   [7286,] -9.515273e-02  1.287576e-01 -1.979166e+00  1.109700e+00
##   [7287,]  1.218323e+00 -8.978784e-01  1.430128e+00  2.326079e+00
##   [7288,]  6.807766e-02 -8.126359e-01  6.174621e-01  2.518162e+00
##   [7289,] -1.600980e+00 -7.019085e-01  1.453942e+00  3.630695e-01
##   [7290,]  6.431729e-01 -5.171251e-01  2.846242e-01  7.839595e-01
##   [7291,] -7.753467e-01 -8.970488e-01 -1.653783e+00  7.082014e-01
##   [7292,]  1.107102e+00  8.394179e-01  9.929317e-01  2.364570e+00
##   [7293,] -8.288288e-02 -1.203638e-01  1.309062e+00  2.297519e+00
##   [7294,]  5.178904e-01 -2.575067e-02  1.181599e+00  6.821812e-01
##   [7295,]  1.000162e+00 -7.148574e-01  1.460081e+00  2.687685e-01
##   [7296,] -9.192382e-01 -1.347384e-01 -5.043397e-01  9.079368e-01
##   [7297,]  6.661526e-01 -9.697505e-02 -2.716856e-01  8.193601e-01
##   [7298,] -2.407140e-02  2.015104e+00  9.785907e-01  7.523945e-01
##   [7299,] -8.997982e-02  1.772345e-01  1.141299e+00  6.831597e-01
##   [7300,]  6.917778e-01  3.503041e-01  2.927292e-01  3.209188e+00
##   [7301,] -5.816483e-01  3.156481e+00  3.807364e-01  8.487923e-01
##   [7302,]  3.752650e-01 -1.292726e+00  1.835516e+00  1.671764e+00
##   [7303,]  1.243826e+00 -2.109786e-01  1.087984e+00  9.153027e-01
##   [7304,] -1.015710e+00 -6.744249e-01 -2.354202e-01  9.670856e-01
##   [7305,] -1.510761e-01 -1.155516e+00 -1.179279e+00  2.441364e+00
##   [7306,]  1.926142e-01 -7.813941e-01 -4.015531e-01  1.576890e+00
##   [7307,]  7.594421e-01 -1.794535e-01 -3.319059e-01  1.105786e+00
##   [7308,]  1.191932e+00  1.981004e+00 -2.609672e-01  8.502804e-01
##   [7309,]  1.399593e+00  1.289446e+00 -1.317388e+00  2.803145e+00
##   [7310,] -1.946364e-01  1.646583e+00  1.216470e+00  6.751523e-01
##   [7311,] -7.203571e-01 -1.859660e-01  6.989374e-01  3.594161e+00
##   [7312,]  1.172462e+00  2.792179e-01  1.363930e+00  3.754774e-01
##   [7313,]  1.867112e-01 -4.372602e-01 -2.004521e+00  1.197636e+00
##   [7314,]  1.373193e+00  9.205417e-01 -6.256304e-01  9.096696e-01
##   [7315,]  7.061946e-01  1.638540e-01  5.628914e-01  8.188485e-01
##   [7316,]  7.137333e-01 -6.895366e-02 -1.364660e+00  9.826592e-01
##   [7317,]  9.789304e-02  2.250345e-01 -1.162507e+00  1.440012e+00
##   [7318,]  8.334449e-01  2.458542e-01 -5.068774e-01  1.201931e+00
##   [7319,]  1.286829e+00  6.585812e-02  6.720367e-01  9.204833e-01
##   [7320,] -3.680105e-01 -1.104843e-01 -7.510208e-01  2.200419e-01
##   [7321,] -1.256588e-01  1.745335e+00 -1.565232e+00  2.433075e+00
##   [7322,] -3.362264e-02 -5.421084e-01  1.282519e+00  6.924868e-01
##   [7323,]  8.130005e-01  8.886054e-01  8.693914e-01  1.351054e+00
##   [7324,]  4.024799e-01  4.057124e-01  1.086652e+00  7.127707e-01
##   [7325,] -9.887337e-01  1.626185e+00  1.438107e+00  1.862649e+00
##   [7326,]  8.562514e-01  2.006285e-01  7.647476e-01  3.210133e+00
##   [7327,] -1.259277e+00  9.398887e-01 -4.276742e-01  5.375998e-01
##   [7328,]  6.769855e-03 -1.021971e+00  1.120802e-02  2.553586e+00
##   [7329,]  3.061719e-01  6.534530e-01 -1.132370e-02  1.952419e-01
##   [7330,] -3.278621e-01 -1.074924e+00  1.399385e+00  4.685224e-01
##   [7331,] -8.975292e-01 -1.396505e+00  1.084096e+00  2.037534e+00
##   [7332,]  1.195279e+00 -4.392595e-01 -1.214184e-01  2.432950e+00
##   [7333,]  1.560144e+00  7.675882e-01  8.059768e-01  1.369508e+00
##   [7334,] -2.117536e+00  1.767376e+00 -3.422683e-01  1.755775e+00
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##   [7335,]  1.528895e+00  1.712364e+00 -1.649594e+00  1.283245e+00
##   [7336,] -6.300633e-01 -7.161843e-01  3.642896e-01  1.119422e+00
##   [7337,]  1.882042e-01 -1.760062e-01 -3.755403e-01  1.079707e+00
##   [7338,]  8.718583e-01  2.482258e-01 -1.847402e+00  1.176365e+00
##   [7339,]  5.219543e-01 -5.658610e-01  1.166161e+00  8.496936e-01
##   [7340,]  4.108642e-01 -3.919191e-01 -1.111236e+00  5.551806e-01
##   [7341,] -4.165753e-01 -4.939115e-01  6.381804e-01  1.485979e+00
##   [7342,]  5.187472e-02  1.540386e-01  9.599393e-01  1.024265e+00
##   [7343,] -4.234913e-01 -2.904288e-02 -6.569495e-01  3.244989e-01
##   [7344,]  4.581670e-01 -6.857709e-01 -8.611292e-01  4.133059e-01
##   [7345,]  5.362496e-01 -2.855807e-01  1.399751e+00  2.301994e+00
##   [7346,] -9.137057e-01 -4.265651e-01  1.822994e-01  2.251832e-01
##   [7347,]  8.173667e-02  5.517277e-01 -3.168342e-01  8.482936e-01
##   [7348,] -4.633188e-02 -9.467651e-01  1.052054e+00  3.007987e+00
##   [7349,]  1.329322e-01  4.613813e-01  7.628824e-01  3.390650e+00
##   [7350,]  1.262743e+00 -2.310659e-01  4.611841e-01  2.645382e+00
##   [7351,] -1.507011e+00 -5.564956e-01  1.415349e+00  3.985473e-01
##   [7352,] -7.623370e-02  7.532435e-03 -2.571503e-01  4.098246e-01
##   [7353,]  1.177554e+00  2.721700e-01 -1.772737e+00  7.342890e-01
##   [7354,] -3.539089e-01  6.357142e-01  4.954573e-01  1.749497e-01
##   [7355,] -4.119367e-01 -8.678536e-02 -2.121610e+00  1.470850e+00
##   [7356,] -9.367154e-01 -1.093670e+00 -8.681527e-02  2.907618e+00
##   [7357,] -9.907010e-02 -5.970918e-01  1.193432e+00  2.879956e+00
##   [7358,] -5.933910e-02  2.924411e-01 -2.049003e+00  1.216528e+00
##   [7359,]  5.793105e-01  3.251852e-01  2.147574e-01  5.012331e-01
##   [7360,] -1.324140e-01  1.159915e+00 -1.667045e+00  2.606284e+00
##   [7361,] -2.229600e-02  1.416867e+00  1.680248e-02  4.916642e-01
##   [7362,] -1.106526e+00 -2.067210e+00  1.509297e+00  2.413747e+00
##   [7363,] -6.013346e-02 -3.923666e-01  9.768873e-01  3.047325e+00
##   [7364,] -1.567007e+00  1.472928e+00 -2.209534e-01  4.634594e-01
##   [7365,]  4.663067e-01  4.056279e-01  7.073654e-01  4.888748e-01
##   [7366,]  1.481686e+00  3.753415e-01 -1.555312e-02  3.107455e+00
##   [7367,] -1.283285e+00 -1.530489e+00  9.607426e-01  1.319699e+00
##   [7368,]  1.230128e+00 -1.174082e+00  1.487987e+00  2.194524e+00
##   [7369,] -8.531008e-02 -6.247951e-01 -1.425636e+00  8.413128e-01
##   [7370,]  7.951890e-01 -4.527029e-01  1.098783e+00  2.905060e+00
##   [7371,]  1.308677e-01  1.089122e+00  1.736365e-01  1.080777e+00
##   [7372,]  1.160513e-02  6.959659e-02 -7.953319e-01  1.384153e+00
##   [7373,]  5.771430e-01  8.767173e-01 -1.246669e-01  2.429784e+00
##   [7374,] -2.325208e-01 -8.422959e-02 -1.672853e+00  5.429763e-01
##   [7375,]  7.203979e-01 -5.542184e-01  8.175232e-01  1.102925e+00
##   [7376,]  6.026733e-01 -1.087806e-01  1.064895e+00  8.839536e-01
##   [7377,] -1.177629e-01 -1.597781e+00  9.699591e-01  1.971941e+00
##   [7378,]  3.533276e-01 -1.482661e-01 -6.382529e-01  3.299124e+00
##   [7379,]  3.957789e-01 -5.734011e-01 -1.605117e+00  4.838767e-01
##   [7380,] -1.014652e+00  1.557085e+00 -2.167790e+00  1.203393e+00
##   [7381,] -1.024315e-01 -8.908167e-03  1.025091e+00  9.471104e-01
##   [7382,] -1.566346e-01 -1.009009e+00  5.961081e-01  2.677413e+00
##   [7383,]  9.426942e-01 -4.528893e-01  8.607060e-01  1.970240e+00
##   [7384,]  4.774151e-02 -5.030046e-01  4.126717e-01  8.915932e-01
##   [7385,] -1.112777e+00  1.260567e+00  2.213047e-01  2.362390e+00
##   [7386,] -2.507085e+00  1.760978e+00 -1.897717e+00  8.486208e-01
##   [7387,]  4.954811e-01  8.131050e-02  3.643920e-01  2.450600e+00
##   [7388,] -3.256230e-01 -1.264578e+00  1.480493e+00  4.307637e-01
##   [7389,]  1.394278e+00 -5.710699e-01  1.214498e+00  6.669003e-01
##   [7390,] -5.233211e-01  1.025400e-01 -2.068275e+00  1.246626e+00
##   [7391,]  1.144872e+00  3.912467e-01  8.790465e-01  4.793598e-01
##   [7392,]  6.576289e-01  5.810396e-01 -3.085908e-01  8.646301e-01
##   [7393,]  1.315178e+00  7.238585e-01  9.959902e-01  2.899075e+00
##   [7394,] -9.702906e-01  1.090309e+00 -1.045599e+00  4.244621e-01
##   [7395,] -5.177595e-01 -7.865770e-01 -1.070030e+00  1.179236e+00
##   [7396,] -7.409029e-01 -7.986432e-01  7.686634e-02  1.275920e+00
##   [7397,]  1.084815e+00  8.784532e-01  1.347670e+00  3.665665e-01
##   [7398,] -2.236000e+00  1.612142e-01  1.897870e-01  1.354147e+00
##   [7399,]  6.504332e-01 -6.554671e-01  1.121319e+00  8.309184e-01
##   [7400,] -1.897921e+00  3.625177e-01  1.654564e+00 -2.146299e-01
##   [7401,] -8.083253e-01 -5.483671e-01 -1.467597e+00  2.524770e+00
##   [7402,]  1.416232e+00  3.866589e-01  8.781017e-01  3.114878e+00
##   [7403,]  4.347383e-01  8.499132e-01 -5.740964e-01  7.858232e-01
##   [7404,] -9.482499e-01 -1.642334e+00  5.802707e-01  2.484526e+00
##   [7405,]  8.347115e-01 -9.474478e-02  4.748233e-01  1.606391e+00
##   [7406,] -1.770220e+00  9.640978e-01 -6.813440e-02  3.741213e-01
##   [7407,] -5.258752e-01 -1.256289e-01  7.583531e-01  1.497919e+00
##   [7408,]  6.605953e-01 -2.330680e-01 -1.814067e-01  2.567228e+00
##   [7409,] -1.572743e+00 -4.543282e-01  1.565083e+00  2.078377e+00
##   [7410,] -1.363419e-01 -6.900638e-01  1.145823e+00  9.622516e-01
##   [7411,]  6.211026e-01  5.038858e-01  1.111456e-02  2.529381e+00
##   [7412,] -4.837759e-02  1.953611e+00 -3.732574e-01  8.870509e-01
##   [7413,] -7.409646e-02 -1.065211e+00  1.187398e+00  8.694815e-01
##   [7414,]  3.203210e-01  8.325174e-01 -1.633041e+00  4.469750e-01
##   [7415,] -1.765828e+00  5.389557e-01 -1.712357e+00  5.847723e-01
##   [7416,] -1.303449e+00  6.002040e-01  1.350323e+00  4.207762e-01
##   [7417,] -6.198756e-01 -5.368260e-01 -3.298724e-01  1.180996e+00
##   [7418,]  2.334308e-01 -1.721468e-01  8.951815e-01  3.234994e+00
##   [7419,]  4.524988e-01 -1.452468e+00  1.449378e-01  3.299374e-01
##   [7420,]  1.330802e+00 -5.510675e-03 -9.616355e-02  2.676749e+00
##   [7421,]  2.125204e-01 -2.166186e-01  9.784035e-01  3.161444e+00
##   [7422,] -2.761943e-02 -1.991018e-01  8.979631e-01  1.298693e+00
##   [7423,]  6.124152e-01 -4.980012e-02  9.878671e-01  2.981918e+00
##   [7424,] -1.154647e+00  2.567645e+00  1.304701e+00  2.314916e-01
##   [7425,] -4.886652e-02 -7.869759e-01  1.173653e+00  7.705692e-01
##   [7426,] -1.728562e+00  8.996913e-01 -1.063002e+00  7.254161e-01
##   [7427,]  5.529038e-01  8.167937e-01 -1.794807e+00  6.794462e-01
##   [7428,]  1.297711e+00  7.865518e-01 -3.621702e-01  1.007442e+00
##   [7429,] -1.776459e-01 -4.694414e-01  9.597190e-01  4.806909e-01
##   [7430,] -6.256200e-01 -7.251641e-01  1.156903e+00  9.431334e-01
##   [7431,]  5.992046e-01  9.333157e-01 -3.771861e-01  2.687164e+00
##   [7432,] -3.503076e-01 -6.248450e-01  1.371595e+00  4.666838e-01
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##   [7433,] -2.418735e+00 -2.693003e-01 -2.018650e-01  8.857760e-01
##   [7434,]  6.585266e-01  1.258587e+00 -5.105505e-01  1.354822e+00
##   [7435,] -8.117293e-01  1.558128e+00  9.582685e-01  2.841445e+00
##   [7436,]  6.663992e-01 -7.331904e-01  1.244812e+00  2.580057e+00
##   [7437,] -4.787826e-01  2.861182e+00 -3.341743e-01  1.426231e-01
##   [7438,]  1.198840e+00 -4.757540e-01 -1.776077e-01  7.676292e-01
##   [7439,]  1.256187e+00 -4.639599e-02 -2.183578e-01  8.149665e-01
##   [7440,]  7.566090e-02  7.720871e-01 -1.261629e-01  7.755490e-01
##   [7441,] -4.048077e-01 -1.439850e+00 -6.138901e-01  1.768001e-01
##   [7442,]  8.979084e-01  1.130526e+00 -4.584705e-01  2.042808e+00
##   [7443,]  5.576637e-01  1.338915e+00  1.130378e+00  6.445108e-01
##   [7444,] -4.712332e-01  2.094531e+00 -4.555052e-02  4.388135e-01
##   [7445,]  6.635842e-01  5.915925e-01  9.214574e-01  1.017187e+00
##   [7446,] -1.377490e+00 -8.597818e-01 -1.955169e+00  3.144472e+00
##   [7447,] -3.197432e-01  1.921769e+00  5.955695e-02  1.714874e+00
##   [7448,] -8.472310e-01 -7.448821e-01  1.152809e+00  1.029357e+00
##   [7449,]  5.681242e-02 -1.066549e-01 -1.364290e+00  7.023317e-01
##   [7450,]  3.110983e-02 -6.429145e-01  1.257930e+00  6.476742e-01
##   [7451,] -3.507709e-01  6.580865e-01 -4.426303e-01  5.898761e-01
##   [7452,]  9.169285e-01  1.937011e+00 -3.210207e-01  1.557993e+00
##   [7453,]  1.132232e+00  1.517630e-01 -1.360856e+00  2.480666e+00
##   [7454,] -5.951567e-01 -8.892119e-01  1.044831e+00  1.030494e+00
##   [7455,]  9.529758e-01 -5.826451e-02 -1.217395e+00  1.704311e+00
##   [7456,]  7.257374e-01 -5.825638e-01  1.135486e+00  2.746084e+00
##   [7457,] -2.780637e+00  1.029785e+00  3.870942e-01  1.621842e+00
##   [7458,]  7.226942e-01 -5.122592e-01 -5.344890e-01  9.591760e-01
##   [7459,]  1.374801e+00  5.035352e-01  9.276373e-01  1.057423e+00
##   [7460,]  3.333001e-01  1.062293e+00  1.434647e+00  1.987921e+00
##   [7461,]  1.034348e+00 -9.847320e-02  6.963093e-02  3.845231e-01
##   [7462,] -6.537064e-01  1.103391e+00 -6.444135e-01  5.012101e-01
##   [7463,] -5.407719e-01  6.870194e-01  1.768401e+00 -4.623462e-01
##   [7464,]  7.135518e-01  4.603640e-01 -1.782330e+00  7.901319e-01
##   [7465,] -7.037561e-01  1.481696e+00 -9.200934e-01  7.207455e-01
##   [7466,] -1.902434e-01  1.673504e+00  1.266704e+00  2.230982e+00
##   [7467,] -7.839458e-01  2.904623e-01  1.530191e+00  1.963169e+00
##   [7468,]  1.089751e-01 -9.484062e-01  1.146029e+00  7.508430e-01
##   [7469,]  1.102718e+00  6.348644e-01  1.140444e+00  5.695095e-01
##   [7470,] -1.269479e+00 -1.248791e+00  1.671517e+00  2.095422e+00
##   [7471,] -1.806037e+00  1.515309e+00  1.459863e+00  1.179755e-01
##   [7472,]  5.680789e-01 -1.215053e+00  7.492831e-01  4.022538e-01
##   [7473,] -1.099944e+00 -7.791360e-01  1.379808e+00  2.565389e+00
##   [7474,] -1.970276e-01  1.136360e+00  1.442807e+00  9.792953e-02
##   [7475,]  1.037900e+00  2.055000e-01  6.648219e-02 -1.806567e-01
##   [7476,]  9.583006e-02 -9.617606e-01  1.309316e+00  2.588252e+00
##   [7477,] -1.589813e-01  9.028256e-01 -5.111067e-01  2.689861e+00
##   [7478,] -1.039023e+00  2.668476e+00  1.025274e+00  5.643234e-01
##   [7479,]  4.680448e-01 -5.752660e-01  1.346202e+00  4.865700e-01
##   [7480,]  1.146654e+00  2.535194e-01 -2.203047e-01  2.533006e+00
##   [7481,] -2.076198e-01 -9.428587e-01 -1.537006e-02  2.581396e+00
##   [7482,]  1.011922e+00 -6.324268e-01  1.060823e+00  2.090550e+00
##   [7483,]  1.388360e+00  2.246437e-01  9.904812e-01  1.041884e+00
##   [7484,]  6.630115e-01  7.960432e-01 -6.879875e-01  1.338351e+00
##   [7485,]  1.307837e+00  8.650995e-02  4.974133e-01  7.774410e-01
##   [7486,] -7.981343e-01 -1.245062e+00  1.080839e+00  1.114991e+00
##   [7487,]  1.739438e-01 -7.756299e-02 -1.069221e+00  3.060981e+00
##   [7488,] -6.579577e-01 -1.287819e+00  1.241989e+00  2.838530e+00
##   [7489,] -1.418005e+00  8.593426e-01  9.145291e-01  1.198927e+00
##   [7490,]  5.946483e-01  6.172636e-01 -1.670474e+00  6.831052e-01
##   [7491,]  9.034820e-01  3.118097e-01 -3.917339e-01  1.283732e+00
##   [7492,] -1.389473e-01 -5.421699e-01  1.027973e+00  1.009143e+00
##   [7493,]  2.800114e-01  2.082967e-01  7.724314e-01  1.369424e+00
##   [7494,]  8.636391e-01 -2.743039e-02  1.239965e+00 -1.183179e-01
##   [7495,] -1.464205e+00  1.637444e+00 -1.268764e-01  2.377697e+00
##   [7496,] -6.966177e-01 -3.449587e-01 -1.301866e-01  1.227789e+00
##   [7497,]  2.951580e-01  1.822589e+00  1.218933e+00  3.645658e-01
##   [7498,] -5.519698e-02  1.140342e+00 -1.570780e-01  2.778338e+00
##   [7499,] -5.977402e-02 -3.498181e-01  6.908868e-01  9.891394e-01
##   [7500,] -1.113709e-01  6.170133e-01  1.322568e+00  5.340576e-01
##   [7501,] -5.605960e-01 -2.788279e-01 -2.625665e-01  1.130647e+00
##   [7502,]  1.035170e-01 -4.164810e-01  9.068726e-01  1.364402e+00
##   [7503,] -1.483659e+00  1.078794e-01  1.205687e+00  7.396689e-01
##   [7504,]  4.318021e-01 -4.867245e-01 -1.438704e+00  5.699238e-01
##   [7505,]  3.648219e-01  1.250268e-01 -1.145663e+00  5.140654e-01
##   [7506,]  3.266914e-01  3.269479e-01 -2.195874e-01  3.268756e+00
##   [7507,]  4.629627e-01 -7.004981e-01 -4.470192e-01  6.713292e-01
##   [7508,] -4.416339e-01  2.420736e+00  1.376682e+00 -4.328475e-03
##   [7509,] -3.147936e-01 -8.407889e-01  1.326610e+00  5.367129e-01
##   [7510,] -1.308873e+00  2.037919e-01 -1.814337e-01  7.444277e-01
##   [7511,]  6.580673e-01  2.645108e-01 -1.123070e+00  2.734049e+00
##   [7512,] -7.327852e-01 -6.242713e-01 -3.657012e-01  1.138520e+00
##   [7513,]  1.211973e-01  1.771899e+00  1.495950e+00  1.775677e+00
##   [7514,] -5.442848e-02 -4.475839e-01 -1.198463e-01  1.181526e+00
##   [7515,] -4.072019e-01  1.477730e+00 -7.011910e-01 -3.385771e-01
##   [7516,] -5.143923e-01 -2.391827e-01 -1.552859e+00  1.260365e+00
##   [7517,]  1.252043e-01 -2.778513e-02  1.038870e+00  3.069727e+00
##   [7518,]  9.500595e-02 -3.526906e-01 -2.615191e-01  2.905017e+00
##   [7519,] -2.283778e+00 -2.279499e-01  9.881984e-01  1.220831e+00
##   [7520,] -1.219415e+00 -9.010668e-01 -8.037511e-01  1.973021e+00
##   [7521,] -7.229986e-01  2.374464e-01 -1.052275e+00  7.454265e-01
##   [7522,]  1.132710e+00 -6.395145e-01  6.337599e-01  2.119453e+00
##   [7523,] -7.877000e-01  1.281714e+00  6.375534e-02  2.037384e-01
##   [7524,] -1.530071e+00  1.018433e+00 -1.778220e+00  2.699721e+00
##   [7525,]  8.249093e-01  6.401829e-01  7.598665e-01  1.482556e+00
##   [7526,]  2.098158e-01  4.662909e-02  8.497026e-01  1.366006e+00
##   [7527,]  1.019343e-01  9.428914e-02 -1.793535e+00  1.062508e+00
##   [7528,]  5.081764e-01  3.101157e-02  2.251986e-01  5.115824e-01
##   [7529,] -7.215788e-01  5.152471e-01 -1.262175e-01  6.061662e-01
##   [7530,] -1.017933e+00 -1.318679e+00 -1.437542e+00  2.654159e+00
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##   [7531,] -2.302862e+00 -9.216663e-01  2.628716e-02  2.495624e+00
##   [7532,] -2.697392e+00  5.643573e-02 -6.847547e-01 -2.183113e-01
##   [7533,] -1.845094e+00  1.545678e+00  1.077273e+00  2.466446e+00
##   [7534,]  1.047298e+00 -1.736238e-01  1.415608e+00  2.159708e+00
##   [7535,] -1.141499e+00  2.042023e-02 -4.735215e-01  2.169485e-01
##   [7536,]  2.110310e-01  5.382930e-03 -6.997688e-01  1.130243e+00
##   [7537,]  5.700442e-01 -9.102986e-01  1.416750e-01  2.280682e+00
##   [7538,]  1.176606e+00  5.321881e-01  2.842722e-01  2.636865e+00
##   [7539,] -9.252526e-01  8.897696e-01  1.378331e+00  1.885849e-01
##   [7540,] -1.273860e-01  5.468163e-01  9.782723e-01  9.546553e-01
##   [7541,] -1.504202e+00  7.426132e-01 -1.618203e+00  2.327485e+00
##   [7542,]  4.706725e-01  1.830394e+00  9.141224e-01  1.010666e+00
##   [7543,]  1.737074e-01 -4.763864e-01 -3.266836e-01  3.140999e+00
##   [7544,]  5.861191e-01  5.006661e-01  3.969728e-01  2.908379e+00
##   [7545,]  4.760051e-02 -5.438039e-01 -1.535613e+00  2.673231e+00
##   [7546,] -5.082214e-02 -8.463185e-01  1.345190e+00  6.146305e-01
##   [7547,] -7.273566e-01  1.334080e+00 -1.030698e+00  5.475085e-01
##   [7548,] -7.035818e-01 -7.362889e-01  2.082950e-01  7.182177e-01
##   [7549,]  4.357221e-01 -1.211785e+00  1.680882e+00  1.938494e+00
##   [7550,] -1.473183e-01 -2.078294e-01 -3.197932e-01  5.374740e-01
##   [7551,]  5.919858e-01 -7.952388e-01  1.228473e+00  7.558590e-01
##   [7552,]  5.315742e-02  2.191718e+00  5.697904e-01  2.713208e+00
##   [7553,]  3.905447e-01  1.755829e+00  1.278454e+00  2.636210e-01
##   [7554,] -6.413200e-01  2.865007e-01 -1.232435e+00  2.258053e+00
##   [7555,] -1.010872e+00  1.049027e+00  3.812866e-01  3.921957e-01
##   [7556,]  4.756119e-01  6.221196e-01  1.256268e+00  5.320525e-01
##   [7557,]  1.286755e+00  8.152294e-02 -1.926019e+00  9.891508e-01
##   [7558,]  6.955874e-01 -1.067632e-01  2.071250e-01  2.798310e+00
##   [7559,]  1.966692e-01  2.235802e-01 -7.972427e-01  3.166578e+00
##   [7560,] -8.061606e-02  1.408390e-01 -1.965491e-01  6.303492e-01
##   [7561,] -7.317358e-01 -5.976027e-01 -1.113879e+00  1.309538e+00
##   [7562,] -1.565132e+00 -1.474240e+00  1.146663e-01  2.623058e+00
##   [7563,]  1.000162e-01  4.456905e-01  6.789203e-01  1.499860e+00
##   [7564,]  1.468144e+00  8.294601e-01 -2.068235e+00  1.226570e+00
##   [7565,] -1.060328e+00 -1.715903e+00  3.453214e-01  2.019808e+00
##   [7566,] -8.687527e-01 -4.171360e-01 -1.883872e+00  1.315248e+00
##   [7567,] -6.448842e-01 -2.028982e-01 -1.898227e+00  1.341691e+00
##   [7568,] -1.362646e+00  7.077869e-01  1.183888e+00  6.800800e-01
##   [7569,] -9.230980e-01  1.876133e+00  6.714292e-02 -7.488825e-02
##   [7570,]  1.163498e+00 -2.370745e-01  1.025848e+00  2.273349e+00
##   [7571,] -1.343190e-01 -9.822365e-01  1.435987e+00  2.524115e+00
##   [7572,]  4.339535e-01  1.434034e+00 -1.799246e+00  5.792435e-01
##   [7573,]  3.894446e-01 -2.227318e-01 -2.279586e-01  2.912210e-01
##   [7574,]  1.056214e+00  1.143496e+00  1.309386e+00  3.428864e-01
##   [7575,] -4.732927e-02 -5.882189e-01 -1.151091e-01  2.228072e+00
##   [7576,] -4.017619e-01  7.340990e-01 -4.225206e-01  1.094172e+00
##   [7577,] -4.551435e-01  1.013614e+00  1.454497e+00  2.030703e+00
##   [7578,]  1.499201e-01 -2.725093e-01  1.094465e+00  9.656592e-01
##   [7579,] -3.206896e-01  2.965365e+00  2.537915e-01  8.828040e-02
##   [7580,] -7.521024e-01 -7.582823e-01  1.081346e+00  1.067135e+00
##   [7581,]  1.186605e+00 -4.208355e-01  1.284417e+00  2.461987e+00
##   [7582,]  4.939558e-01  1.535158e+00 -4.555586e-01  9.776624e-01
##   [7583,] -8.740522e-01 -1.334449e+00 -1.407967e+00  6.368082e-01
##   [7584,] -1.854194e-02  2.027381e-02 -1.636549e+00  8.526514e-01
##   [7585,]  6.042950e-01 -2.876759e-02  9.718824e-01  1.118768e+00
##   [7586,] -1.902871e+00  1.520151e+00  1.086868e-01  4.329278e-01
##   [7587,] -8.915365e-01 -9.913691e-01  1.204856e+00  9.060512e-01
##   [7588,] -8.332105e-01 -4.766378e-01 -5.275944e-01  1.443043e+00
##   [7589,] -9.872587e-02 -8.229888e-01 -2.569473e-01  1.034800e+00
##   [7590,]  1.057864e+00 -2.843542e-02  1.422056e+00  2.299687e+00
##   [7591,]  5.747790e-01 -3.361452e-01 -1.403059e+00  7.237304e-01
##   [7592,]  8.336225e-01  5.400611e-01 -1.985662e+00  1.103513e+00
##   [7593,]  1.313583e-01  1.646055e+00 -6.614200e-01 -2.187255e-01
##   [7594,]  1.299945e+00 -1.344287e-01 -8.419447e-01  2.876935e+00
##   [7595,]  8.606205e-01 -6.369547e-02  1.257355e-01  2.979465e+00
##   [7596,] -2.465319e-01  1.737826e+00  9.395243e-01  9.935322e-01
##   [7597,] -2.415825e+00  1.251832e+00  1.004936e-01  6.308035e-01
##   [7598,]  1.037357e+00 -2.294254e-01  7.788881e-01  2.090507e+00
##   [7599,] -2.385572e-01  1.660694e+00  1.620158e-01  3.275134e-02
##   [7600,] -1.355002e+00  1.088885e+00 -1.702492e-01  2.756651e+00
##   [7601,]  6.009149e-01 -4.438418e-01 -1.536388e-01  2.654076e+00
##   [7602,]  1.046249e+00  8.586609e-01  1.283781e+00  2.165907e+00
##   [7603,] -2.361971e+00  9.817024e-01  1.020527e+00  7.979101e-01
##   [7604,] -8.982736e-01  1.652995e+00  2.145387e-01  2.329580e+00
##   [7605,]  9.413047e-01  1.936971e+00  1.444403e+00  1.235338e-02
##   [7606,] -9.360212e-01 -1.425811e+00  1.391591e+00  2.575863e+00
##   [7607,] -1.645276e+00 -5.812525e-01  1.182821e+00  8.144042e-01
##   [7608,]  5.601458e-01 -9.409382e-01  1.406583e+00  2.386831e+00
##   [7609,] -7.288663e-01  2.780517e+00 -3.136066e-01  6.799345e-01
##   [7610,]  3.334058e-05 -5.061209e-01 -4.485020e-01  1.319285e+00
##   [7611,] -1.725063e-02 -1.828569e-01 -1.505841e+00  1.035401e+00
##   [7612,]  3.330244e-01 -1.135490e+00  4.814643e-01  2.733978e-01
##   [7613,]  9.555519e-01 -1.454515e-01  5.991924e-01  1.408923e+00
##   [7614,]  6.507004e-01  1.516437e+00 -2.689763e-01  1.026212e+00
##   [7615,] -6.265283e-01  5.052142e-02  1.191208e+00  6.937066e-01
##   [7616,]  5.482917e-01  6.561947e-01  1.220921e+00  6.899690e-01
##   [7617,] -8.483014e-01 -5.396636e-02 -6.373864e-01  1.100049e+00
##   [7618,]  7.056163e-01 -4.822301e-01 -3.001957e-01  1.054459e+00
##   [7619,]  5.273202e-01 -2.412157e-03 -3.094214e-01  2.474617e+00
##   [7620,] -1.392408e+00 -1.199459e+00 -3.282035e-01  1.270671e+00
##   [7621,]  3.654209e-01  3.454626e+00  1.376297e+00  3.029277e-01
##   [7622,]  2.740481e-02  2.657535e-01  1.189370e+00  6.531247e-01
##   [7623,] -1.455495e+00  8.961931e-01 -1.735663e+00  3.218335e+00
##   [7624,] -5.935933e-01  1.686662e-02 -1.686852e+00  3.065229e+00
##   [7625,] -4.802331e-01 -3.951300e-02 -7.279545e-01  1.631412e+00
##   [7626,]  3.857830e-01  1.369524e-01 -1.462945e-02  1.579556e+00
##   [7627,] -1.656179e+00  6.066474e-01  1.268450e+00  5.877649e-01
##   [7628,] -5.814571e-01  2.292811e+00 -1.809774e+00  1.509958e+00
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##   [7629,]  2.452813e-01  4.159813e-01 -1.147666e+00  1.992692e+00
##   [7630,]  3.022815e-01 -5.718269e-01  8.392498e-01 -2.607261e-01
##   [7631,]  4.569461e-01  3.327229e-01  9.710871e-02  3.226362e-01
##   [7632,] -7.564653e-01  1.155737e+00 -2.453466e-01  2.097551e+00
##   [7633,] -7.326967e-01  1.488135e+00 -6.108897e-01  8.770005e-01
##   [7634,] -1.095185e+00 -1.813059e+00  1.419557e+00  6.316398e-01
##   [7635,]  6.582765e-01 -1.032733e+00  1.128393e-02  2.491187e+00
##   [7636,] -8.942041e-02 -1.239304e+00 -1.077461e+00  2.259755e+00
##   [7637,]  6.353046e-01  1.454097e-02  1.010148e+00  3.023823e+00
##   [7638,] -6.378801e-01  1.281617e+00  9.166643e-01  1.291522e+00
##   [7639,]  5.959314e-01  7.781663e-01  6.521773e-01  2.469308e+00
##   [7640,] -4.220608e-01  8.856236e-01 -2.683755e-02  2.068237e+00
##   [7641,]  7.838566e-01 -1.262458e-01 -1.229287e+00  1.048611e+00
##   [7642,] -2.478764e+00  5.678656e-01 -2.473859e-01  2.698506e+00
##   [7643,] -2.726108e+00  8.621485e-01 -2.605437e-01  1.501721e+00
##   [7644,] -1.415373e-01 -5.181825e-02 -2.494606e-01  1.003769e+00
##   [7645,]  7.655802e-01 -2.528003e-01  1.815050e+00  1.459449e+00
##   [7646,]  1.282300e+00  1.487752e-01  8.936222e-01  2.872319e+00
##   [7647,]  8.017240e-01  3.234586e-01 -7.367194e-01  1.246151e+00
##   [7648,]  2.401310e-01 -7.573566e-01  1.551255e+00  2.000414e+00
##   [7649,] -1.179487e-01 -1.104328e+00 -1.238524e+00  2.531043e+00
##   [7650,] -2.663823e-02  2.141847e-01 -3.021634e-01  1.107329e+00
##   [7651,] -2.414905e+00  3.937620e-01  1.037981e+00  9.903133e-01
##   [7652,]  5.489397e-01  6.045331e-01  4.064102e-01  2.346236e+00
##   [7653,]  1.381952e+00  7.720460e-01 -2.060000e-01  1.197862e+00
##   [7654,] -9.797640e-01  1.759267e+00  3.635596e-01  2.191835e+00
##   [7655,] -1.513118e+00  2.017967e-01  1.071883e+00  9.089302e-01
##   [7656,] -1.635582e+00  1.586155e+00 -3.365404e-02  3.250207e-01
##   [7657,] -7.786078e-01 -7.698947e-01  1.834602e-01  9.928801e-01
##   [7658,]  9.701430e-01  9.500614e-01 -1.667112e+00  3.381137e-01
##   [7659,]  2.210852e-01 -7.111799e-01 -1.036954e+00  1.068728e+00
##   [7660,]  1.057941e+00  9.358367e-02  1.634033e-01  2.266301e+00
##   [7661,]  6.602551e-02 -4.294736e-01 -1.277979e-01  2.534330e+00
##   [7662,] -6.641498e-01  8.143404e-01  1.018172e+00  9.968432e-01
##   [7663,] -8.858873e-01 -1.067748e-01  9.260280e-01  1.340188e+00
##   [7664,] -1.818989e+00  1.489867e+00  2.546136e-01  6.118845e-01
##   [7665,] -7.641857e-01 -5.076612e-01 -1.655632e+00  1.240494e+00
##   [7666,]  5.152711e-01  7.820232e-01  1.134328e+00  5.767710e-01
##   [7667,] -1.663563e+00 -3.080421e-02 -1.558475e+00  4.296474e-01
##   [7668,] -6.000107e-01  8.176458e-01  1.139601e+00  6.460126e-01
##   [7669,]  4.597201e-01 -8.130602e-03  1.249974e-01  3.812986e-01
##   [7670,] -1.496650e+00  1.958636e+00  1.080154e+00  7.186122e-01
##   [7671,]  8.571141e-01  4.239436e-01  8.854708e-01  1.223257e+00
##   [7672,]  1.571498e+00  3.373646e-01 -4.070987e-01  2.966674e+00
##   [7673,] -1.432292e+00  1.157181e-01  9.063873e-01  1.338242e+00
##   [7674,]  1.244573e+00  2.404716e+00  1.198832e+00  9.564640e-01
##   [7675,] -8.263592e-01 -1.162995e+00  1.148608e+00  8.680810e-01
##   [7676,] -1.019710e+00  1.004801e+00  4.843067e-01  3.678663e-01
##   [7677,]  7.269499e-01  2.261588e-02  1.100789e+00  2.804469e+00
##   [7678,]  7.902737e-01  1.021065e+00  9.227780e-01  3.063828e+00
##   [7679,]  6.591441e-01 -2.843421e-01 -1.108207e+00  8.369099e-01
##   [7680,]  6.037567e-01 -3.906160e-01 -1.070213e+00  2.493976e+00
##   [7681,]  2.154168e-01 -2.773892e-02 -8.176132e-01  1.438994e+00
##   [7682,]  1.466490e+00 -2.991855e-01  8.646659e-01  1.201826e+00
##   [7683,] -1.538200e-01 -1.453126e+00 -1.185105e-01  3.639233e-01
##   [7684,] -1.127893e+00  9.796466e-01 -3.093427e-01  1.457419e+00
##   [7685,] -1.271328e+00  1.136848e-01 -2.692582e-02  2.302244e+00
##   [7686,] -1.225525e+00  1.809120e-02 -2.354693e-01  9.139739e-01
##   [7687,] -6.161534e-01  9.973449e-01 -1.429733e-01  2.393569e+00
##   [7688,]  2.014024e-01  1.612796e+00  2.380069e-02  1.725157e+00
##   [7689,] -5.978550e-01 -2.392790e-02 -6.462325e-01  1.251201e+00
##   [7690,] -1.424836e-01  1.028149e+00 -1.753088e+00  6.855943e-01
##   [7691,] -5.925536e-01  8.135901e-01 -3.998464e-01  5.952620e-01
##   [7692,]  6.323389e-02 -6.946478e-01  4.357419e-01  9.001197e-01
##   [7693,] -1.803611e+00 -3.592813e-01  1.452062e+00  2.278748e+00
##   [7694,]  9.239070e-03  6.728324e-01  1.126951e+00  7.564001e-01
##   [7695,] -1.369578e+00  7.656993e-01 -3.410579e-01  8.429375e-01
##   [7696,]  1.278261e+00  5.938054e+00  1.821748e-01  1.071882e+00
##   [7697,]  6.268796e-01 -1.311989e-01  1.199167e+00  6.199124e-01
##   [7698,] -9.248147e-01  1.899175e-01  6.182831e-01  2.337772e+00
##   [7699,] -2.814001e-01 -1.132975e+00  2.466733e-02  2.408367e+00
##   [7700,] -2.232715e+00  9.693809e-02 -1.858868e+00  9.092243e-01
##   [7701,]  5.714840e-01  1.416942e-01 -5.320978e-02  2.428025e+00
##   [7702,] -1.750558e-01 -3.309917e-01 -1.788383e-01  2.747110e+00
##   [7703,] -1.390390e+00 -1.572044e-01  1.228659e+00  7.224575e-01
##   [7704,] -1.542752e+00 -6.554736e-01  9.760846e-01  1.214074e+00
##   [7705,]  1.790815e-01  5.324105e-01  4.889600e-01  1.159213e+00
##   [7706,] -9.814610e-01 -5.657600e-01  1.255382e+00  7.421684e-01
##   [7707,] -2.942289e+00 -8.671635e-01  8.692966e-02  2.616251e+00
##   [7708,]  4.786165e-01 -9.310163e-01  1.638016e+00  1.970620e+00
##   [7709,] -1.368704e-01 -7.770718e-01  1.521446e+00  2.149507e-01
##   [7710,]  6.175608e-01  1.227714e+00 -2.047206e-01  2.751362e+00
##   [7711,] -1.673801e+00  8.088249e-01 -1.365733e+00  8.655395e-01
##   [7712,]  5.840585e-01  5.831241e-01 -6.158726e-02  5.589313e-01
##   [7713,]  1.675733e-01 -8.284904e-01  8.750547e-02  9.099326e-01
##   [7714,]  6.097778e-01  5.271744e-01 -5.578792e-01  7.195361e-01
##   [7715,] -5.959965e-02  2.858092e+00 -3.013182e-01  2.354047e+00
##   [7716,]  2.921876e-02  1.670904e-01 -1.784048e+00  2.796097e+00
##   [7717,]  1.297913e+00  3.352716e-01  9.905826e-01  2.838838e+00
##   [7718,]  5.685498e-01  1.571750e-01 -7.984117e-02  2.432705e+00
##   [7719,] -3.127306e+00  4.440777e-01 -3.199016e-01  9.313582e-01
##   [7720,] -5.112605e-01 -2.132359e-01 -5.994802e-01  1.512725e+00
##   [7721,]  1.671539e-01 -3.241696e-01  9.953738e-01  3.146076e+00
##   [7722,] -2.271316e+00  1.077132e+00  7.613990e-01  1.419389e+00
##   [7723,] -8.193901e-01  3.047034e+00 -6.583755e-02  5.685946e-01
##   [7724,]  5.091183e-01  3.067481e+00 -5.151122e-01  7.912928e-01
##   [7725,]  4.770244e-01 -7.595826e-01  4.803622e-03  4.775186e-01
##   [7726,] -1.604989e+00  9.948223e-01  1.044093e+00  7.952793e-01
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##   [7727,] -5.270853e-02 -1.059049e+00 -1.311176e+00  2.359801e+00
##   [7728,] -9.531416e-01 -9.770760e-01  1.093241e+00  1.086159e+00
##   [7729,]  3.618184e-01  2.667979e+00 -2.483812e-01  2.212744e+00
##   [7730,]  8.565879e-01 -2.866786e-01  1.013125e+00  1.126004e+00
##   [7731,] -4.767100e-01  1.114133e+00  7.104186e-01  2.780528e+00
##   [7732,] -8.028362e-01  1.110275e-02  8.912363e-01  1.263182e+00
##   [7733,]  3.162770e-01  9.482955e-01  7.741723e-01  1.493799e+00
##   [7734,] -1.660607e+00  2.545610e-01  1.255910e+00  5.579413e-01
##   [7735,] -2.064933e+00  7.183189e-01  1.595386e+00 -6.209448e-02
##   [7736,] -7.676593e-01  7.769957e-01  3.576543e-01  2.299514e+00
##   [7737,] -1.931210e-01  4.286782e-01  1.222614e+00  2.585360e+00
##   [7738,] -3.515962e-01 -1.258932e+00  1.220399e-01  3.186650e-01
##   [7739,]  3.756202e-01  1.758245e+00  2.262752e-01  2.000669e-01
##   [7740,] -1.876235e+00  3.024409e-01 -1.458251e+00  8.717198e-01
##   [7741,]  1.333427e+00  9.720814e-01  1.091300e+00  9.525598e-01
##   [7742,] -3.376926e-01  1.288730e+00 -1.622955e+00  2.746186e-01
##   [7743,]  5.003510e-01 -1.245236e+00 -7.576301e-01  6.799529e-01
##   [7744,]  6.366912e-02 -3.798166e-01 -9.578793e-01  9.287103e-01
##   [7745,] -1.751407e+00 -2.074577e-01 -2.769337e-02  5.733275e-01
##   [7746,]  3.831553e-01 -2.897620e-02  1.350126e+00  2.700062e-01
##   [7747,]  1.321432e+00 -3.357443e-01  1.797232e-01  6.360794e-01
##   [7748,] -1.668656e+00  5.473956e-01  1.095960e+00  2.406473e+00
##   [7749,] -2.425542e-01  2.368263e+00 -4.486247e-02  4.116491e-01
##   [7750,]  8.610423e-01  9.141306e-01  1.534321e+00  1.941200e+00
##   [7751,]  3.385155e-01 -7.003210e-02 -7.659411e-01  2.043321e+00
##   [7752,]  1.204193e+00 -4.867642e-01 -1.350935e-01  5.975551e-01
##   [7753,] -7.241405e-01 -2.590164e-01  6.421239e-01  1.747043e+00
##   [7754,] -1.026807e+00  1.431847e+00  1.180681e+00  1.662288e+00
##   [7755,] -4.918672e-01  5.993103e-01 -4.441417e-01  2.647745e+00
##   [7756,]  7.577220e-02  1.126183e+00 -1.864824e+00  8.700092e-01
##   [7757,] -1.481318e+00 -1.290211e+00 -1.623531e+00  3.033420e+00
##   [7758,]  2.412172e-02 -9.373084e-01  1.150256e+00  9.115465e-01
##   [7759,]  8.018816e-01 -4.517304e-01 -3.354097e-01  1.083160e+00
##   [7760,] -2.403723e+00 -2.580667e-01 -1.267777e+00  2.333727e-01
##   [7761,] -2.037147e+00  6.443329e-01  8.992867e-01  1.281790e+00
##   [7762,]  4.929557e-01  1.897115e+00  2.128396e-01  6.883167e-01
##   [7763,]  6.647227e-01  2.556815e-01 -5.791015e-01  9.163308e-01
##   [7764,] -1.455603e-01 -1.007689e+00  1.462118e+00  4.631478e-01
##   [7765,] -1.155188e+00  5.361000e-02  6.715358e-02  2.044713e-01
##   [7766,]  3.553375e-02 -5.260399e-01  1.095409e+00  8.953568e-01
##   [7767,] -1.025337e+00 -1.387182e+00  1.180692e-01  2.640108e+00
##   [7768,]  7.615986e-01  2.204663e-02  1.024989e+00  3.074531e+00
##   [7769,] -7.471262e-01 -1.185956e+00  1.276753e+00  2.658209e+00
##   [7770,] -2.175930e-01 -9.759755e-01 -8.570365e-02  7.297260e-01
##   [7771,]  9.313119e-01  8.894351e-01 -4.991238e-01  1.404787e+00
##   [7772,]  1.963286e-01 -1.210156e-01 -1.440065e+00  6.620705e-02
##   [7773,] -2.428867e+00  1.751161e-01  1.038764e-01  4.587644e-01
##   [7774,]  8.349172e-01  2.979138e-01 -1.674090e+00  1.113696e+00
##   [7775,]  6.269503e-01 -5.249277e-01 -1.399876e+00  2.423400e+00
##   [7776,] -7.488569e-01 -8.038637e-01  3.432986e-01  1.060147e+00
##   [7777,]  7.201554e-01  2.834461e-01  8.445267e-01  1.414075e+00
##   [7778,] -7.008346e-01 -1.234630e+00 -7.938608e-02  7.079654e-01
##   [7779,]  2.328906e-01  6.954822e-01 -1.993115e+00  3.220879e+00
##   [7780,] -2.142082e+00  1.191230e-01 -1.743771e+00  1.356813e+00
##   [7781,] -7.441048e-01 -2.889139e-01  3.688408e-01  6.817791e-01
##   [7782,] -8.075200e-01  1.036754e+00  9.172868e-01  3.705192e-01
##   [7783,]  2.578065e-01  3.629186e-01 -5.359376e-01  1.498715e+00
##   [7784,]  1.920693e-02 -5.077969e-01 -1.947163e-01  2.948700e+00
##   [7785,] -1.531801e+00 -2.765515e-01  6.576307e-01  7.811298e-01
##   [7786,]  5.107888e-01  2.856055e-01 -5.494700e-01  8.860096e-01
##   [7787,] -2.869759e-02 -1.165297e-02 -5.306338e-01  7.581993e-01
##   [7788,] -8.436849e-01  1.821800e-01 -1.211221e+00  9.679851e-02
##   [7789,]  1.122065e+00  1.248524e-01  1.315197e+00  5.093958e-01
##   [7790,] -5.987737e-02 -1.364071e+00  1.503890e+00  2.357972e+00
##   [7791,]  1.442486e+00  2.303057e-01  1.013816e+00  8.901760e-01
##   [7792,] -9.063960e-01  1.685191e+00 -1.658209e-01  7.013025e-01
##   [7793,]  3.386543e-01 -5.659358e-01 -3.606292e-01  1.456988e-01
##   [7794,]  5.617222e-01 -5.233759e-01  1.126437e+00  5.968885e-01
##   [7795,]  1.355972e+00  1.001261e+00  1.012517e+00  2.766453e+00
##   [7796,] -8.136748e-01 -4.158755e-01  3.279921e-01  2.753134e+00
##   [7797,]  1.063487e+00  4.829248e-01 -5.345462e-02  4.162088e-01
##   [7798,]  1.053042e+00 -9.371929e-01 -6.683648e-01  1.723573e-01
##   [7799,] -1.912080e-01 -7.957220e-01 -2.175678e-01  7.869499e-01
##   [7800,] -9.727927e-01  1.432200e+00 -3.492770e-01  4.822062e-01
##   [7801,]  8.310103e-01  6.042301e-01 -2.151229e+00  1.424052e+00
##   [7802,]  7.396845e-01  1.760385e-01 -1.630541e+00  8.349627e-01
##   [7803,]  9.109620e-02  1.343189e+00 -4.211874e-01  1.462569e+00
##   [7804,] -1.615264e+00  5.421620e-01  1.531871e+00  2.078502e+00
##   [7805,]  1.120272e+00  1.403573e+00  1.554218e-01  7.799681e-01
##   [7806,] -1.426620e+00  6.127081e-01  4.044200e-03  4.904748e-01
##   [7807,]  7.697834e-01  1.089440e-01 -4.358074e-03  2.724389e+00
##   [7808,] -8.471096e-01  1.554367e+00 -7.288349e-02  2.456695e+00
##   [7809,]  6.088006e-01 -3.162390e-01 -1.058425e+00  1.066140e+00
##   [7810,]  5.559995e-01  2.338534e+00 -9.379250e-01  6.862874e-01
##   [7811,]  1.504178e-01  1.459310e-01  9.840124e-01  1.035662e+00
##   [7812,]  7.932434e-01  1.337317e+00  1.543035e+00  1.835348e+00
##   [7813,]  6.775027e-01  1.023763e+00  1.690944e-01  3.012790e+00
##   [7814,] -3.547238e-01  1.040361e+00  1.326347e+00  1.871498e+00
##   [7815,]  5.967163e-01  6.957452e-01 -1.314628e-01  5.493054e-01
##   [7816,] -3.359485e-01 -1.958723e-01  1.535720e+00  3.373716e-02
##   [7817,] -7.226468e-01  4.275221e-02 -7.188597e-02  1.424939e+00
##   [7818,]  4.023528e-01 -4.159655e-01  1.556467e+00  1.197721e-01
##   [7819,] -2.319955e+00  1.436264e-02 -3.030046e-01  6.697284e-01
##   [7820,]  1.222689e+00  1.512755e-01  1.136278e+00  7.720856e-01
##   [7821,]  7.744875e-01  3.176262e-01  9.939904e-01  2.869174e+00
##   [7822,] -1.643593e+00  2.707932e-01 -1.279476e+00  5.273916e-01
##   [7823,] -2.599575e+00  5.819547e-01  6.758531e-01  2.596693e-01
##   [7824,]  7.174370e-01 -1.219470e-01  8.947962e-01  2.867950e+00
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##   [7825,] -2.166602e+00  1.519152e+00  7.577446e-01  3.206957e+00
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##   [7827,] -8.768261e-01  2.834776e+00 -2.312812e-01  5.186305e-01
##   [7828,]  7.777951e-01 -5.024505e-02 -2.063353e+00  1.241099e+00
##   [7829,]  5.988570e-01 -4.683143e-01  4.463708e-01  7.984312e-01
##   [7830,]  4.087546e-01  1.145808e+00  5.395568e-01  2.362794e+00
##   [7831,]  6.641433e-01  1.428503e-01 -3.685229e-01  1.042053e+00
##   [7832,]  1.043272e-01 -2.211055e-01 -4.731363e-01  8.243727e-01
##   [7833,] -3.658388e-01  1.336200e+00 -1.072749e+00  2.313787e-01
##   [7834,]  9.914459e-02  7.996639e-01  1.470820e+00  9.586523e-03
##   [7835,] -8.910859e-01 -1.558545e-01 -7.551210e-01  3.152020e+00
##   [7836,] -1.512986e+00  7.240214e-01 -9.221733e-02  5.244095e-01
##   [7837,]  5.287584e-01  6.987240e-01 -1.436555e+00  2.331615e+00
##   [7838,] -6.449808e-01 -1.065586e+00 -1.418325e+00  2.616219e+00
##   [7839,] -1.106727e-01 -5.027327e-01  1.238826e-01  4.794488e-01
##   [7840,] -8.241551e-01 -6.704823e-01 -6.846357e-01  1.434678e+00
##   [7841,]  8.037366e-01  9.231906e-01 -1.328525e-01  1.108136e+00
##   [7842,] -1.529273e+00  3.121495e+00  9.632294e-01  9.531580e-01
##   [7843,] -1.220545e+00  1.500757e-01 -6.958113e-01  1.608027e+00
##   [7844,]  1.193945e+00 -1.870594e-01  1.180614e+00  6.754599e-01
##   [7845,]  1.205361e-01 -4.962378e-01 -1.371658e+00  1.042860e+00
##   [7846,]  9.156731e-03  2.978949e-01  1.052836e-01  2.295801e+00
##   [7847,]  5.717410e-01 -9.699663e-01 -1.146499e-01  3.064057e-01
##   [7848,] -1.039608e+00 -6.874776e-01  4.159242e-02  3.872502e-01
##   [7849,]  1.040364e+00 -9.931926e-01  9.290076e-01  2.147909e-02
##   [7850,] -4.399646e-02 -1.328298e+00  1.296266e-01  2.389966e+00
##   [7851,] -5.990764e-01  3.314581e-01  7.628996e-01  1.558895e+00
##   [7852,] -9.406221e-01  1.338070e+00 -1.194823e+00 -1.602747e-02
##   [7853,] -1.343993e-02 -7.462535e-02  9.719355e-01  1.136147e+00
##   [7854,] -8.363496e-01  3.776361e-01  2.415272e-01  2.108892e+00
##   [7855,] -1.289231e+00  6.168327e-02  1.093834e+00  2.838977e+00
##   [7856,] -1.836906e-01  1.513844e+00  1.016667e+00  9.004181e-01
##   [7857,] -3.944334e-01  1.643147e-01  6.504477e-01  3.427234e+00
##   [7858,] -2.112627e+00  8.284770e-01  6.890485e-01  1.739091e+00
##   [7859,] -8.059366e-01 -5.610222e-02 -1.669636e+00  1.524334e+00
##   [7860,]  9.714492e-02 -1.097545e+00 -4.619006e-02  2.572575e+00
##   [7861,]  4.170587e-01  2.271684e-01 -1.446461e+00  6.625237e-01
##   [7862,] -8.759500e-01  2.225443e-02  1.308452e+00  2.448667e+00
##   [7863,] -1.200419e+00  3.661052e-01  1.131305e-01  6.797538e-02
##   [7864,] -8.299547e-01  7.072753e-01  1.171614e+00  6.089447e-01
##   [7865,]  1.353466e+00  9.792777e-01 -2.212719e-01  1.162156e+00
##   [7866,] -9.629937e-01  8.817264e-01  6.888686e-01  5.332700e-01
##   [7867,]  4.176218e-01 -9.179160e-01  1.466370e+00  3.203811e-01
##   [7868,] -2.589293e-02 -8.104378e-01  1.201702e+00  2.832096e+00
##   [7869,] -1.464454e+00 -1.133473e-01  1.463513e+00  3.221986e-01
##   [7870,]  1.598819e-01  1.415219e+00  4.429994e-01  1.791904e+00
##   [7871,] -8.710348e-01 -2.262839e-01 -1.236192e-01  3.179820e+00
##   [7872,] -3.674470e-02 -9.979656e-01 -9.578683e-01  3.783558e-01
##   [7873,] -5.448995e-01  9.540958e-01 -1.404573e+00  9.429761e-01
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##   [7875,]  1.072803e-01  2.099179e-01  9.709908e-01  1.133497e+00
##   [7876,] -1.740158e+00 -3.136377e-02  9.028478e-02  3.056621e-01
##   [7877,] -2.022265e-01 -6.836934e-01  3.916014e-01  5.878880e-01
##   [7878,]  3.139483e-01  1.265277e+00  1.130817e+00  5.852927e-01
##   [7879,] -1.009360e+00  8.933711e-01  1.323476e+00  2.243903e+00
##   [7880,] -5.126570e-02 -9.333452e-01  4.483530e-01  9.142466e-01
##   [7881,] -1.315670e-01  5.406482e-01 -1.751507e-01  2.336780e-01
##   [7882,] -1.008709e-01  2.025741e+00 -1.939332e+00  7.118163e-01
##   [7883,]  4.942271e-01 -5.439111e-01  1.501961e-01  4.015789e-01
##   [7884,]  4.440417e-02  4.949477e-01  4.407362e-01  1.014665e+00
##   [7885,]  1.327426e+00  5.250111e-01 -1.747410e+00  5.646080e-01
##   [7886,] -8.968427e-01  5.749367e-01  1.100107e+00  6.986873e-01
##   [7887,]  5.142425e-01 -7.786027e-01 -3.684910e-01  7.522881e-01
##   [7888,]  6.859996e-01  2.286716e+00 -1.297153e+00  8.997081e-01
##   [7889,]  6.891301e-01  2.111072e-01  9.228056e-01  1.127104e+00
##   [7890,] -1.714828e-01 -8.320269e-03  1.401728e+00  5.056797e-01
##   [7891,]  1.144385e+00  1.472953e-01 -1.231585e+00  6.718517e-01
##   [7892,]  4.459598e-01  2.559532e-01  1.159044e+00  2.616426e+00
##   [7893,] -6.079584e-02  6.269726e-01  1.256214e+00  4.822512e-01
##   [7894,] -5.021028e-01  3.538564e-01  1.186039e+00  2.643151e+00
##   [7895,] -1.812093e+00  1.164950e+00 -1.027264e+00  5.676857e-01
##   [7896,]  6.906549e-01  3.962526e-01  1.282919e-01  8.435188e-01
##   [7897,]  3.888103e-01 -9.617766e-01  3.051170e-01  1.862935e+00
##   [7898,] -4.511984e-01  8.553282e-01 -1.315349e+00  2.769733e+00
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##   [7900,]  5.362863e-01  2.106949e-01  1.255219e+00  4.467124e-01
##   [7901,] -6.287836e-01 -7.248303e-01 -1.385282e+00  1.116624e+00
##   [7902,] -8.765141e-02  2.214500e-01 -4.151792e-01  9.601823e-01
##   [7903,]  1.418035e+00 -7.281709e-02 -4.359479e-01  7.235226e-01
##   [7904,]  5.464376e-01  2.399795e-02 -1.075617e+00  9.068690e-01
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##   [7906,]  4.193997e-01  1.774178e-01  1.414185e+00  3.338453e-01
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##   [7909,]  5.156792e-01 -4.707358e-01  1.122022e+00  8.597030e-01
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##   [7911,]  1.174035e+00  5.180992e-01  1.256760e+00  5.479438e-01
##   [7912,]  1.104036e+00 -3.384117e-01  7.540228e-01  5.463994e-01
##   [7913,] -6.290074e-01 -7.233414e-01 -5.765747e-01  1.114804e+00
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##   [7917,] -1.585472e+00  1.032729e+00 -5.947585e-01  2.921652e+00
##   [7918,] -2.543776e+00 -1.743435e-01 -1.793533e-02  5.820633e-01
##   [7919,]  2.774052e-03 -3.943200e-01 -1.652721e-01  1.073165e+00
##   [7920,] -8.181051e-01 -6.605289e-01 -1.720381e+00  1.078793e+00
##   [7921,]  1.430360e+00  3.634094e-02 -1.604643e-01  2.580616e+00
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##   [7924,]  5.732203e-01 -3.296544e-01  1.249530e+00  6.575993e-01
##   [7925,] -2.595268e-01  6.892677e-01  6.462353e-01  4.091886e-01
##   [7926,]  2.178647e-01  9.383913e-01 -7.937008e-01  1.244201e+00
##   [7927,] -1.073837e+00  1.598776e+00 -5.574332e-01  1.076212e+00
##   [7928,]  1.103247e+00  1.906572e+00  1.272574e+00  3.891370e-01
##   [7929,] -1.178092e+00  5.835063e-01 -1.261702e+00  1.260139e-01
##   [7930,]  4.024573e-01  8.745321e-01 -1.549721e-01  5.051138e-01
##   [7931,] -2.481796e+00  2.923154e-01  1.250206e+00  6.051589e-01
##   [7932,] -1.272614e+00  1.241566e+00 -1.960407e+00  2.939414e+00
##   [7933,] -1.556267e-01  8.312190e-01  6.477841e-01  2.284507e+00
##   [7934,] -5.466736e-01  2.092103e+00 -2.883813e-01  3.609201e+00
##   [7935,] -1.054736e+00  9.215528e-01 -1.712431e+00  4.840977e-01
##   [7936,]  6.754175e-01 -1.046931e+00 -9.097357e-02  7.054468e-01
##   [7937,]  2.612042e-01  5.914062e-01 -2.221340e+00  1.494771e+00
##   [7938,]  1.255886e+00 -1.118182e+00 -2.617499e-01  3.903488e-01
##   [7939,]  3.530295e-01 -2.143594e-01  7.861524e-01  3.332017e+00
##   [7940,]  1.380402e+00  9.193493e-01 -7.593346e-01  1.085141e+00
##   [7941,]  1.534622e+00  1.801344e+00  9.792502e-01  1.197446e+00
##   [7942,]  3.375815e-02 -1.397922e-01 -3.875937e-01  2.776881e+00
##   [7943,] -2.376646e+00 -4.740849e-02 -8.058596e-01  2.781928e+00
##   [7944,]  1.324140e+00  4.434673e-01 -4.808879e-01  7.278269e-01
##   [7945,] -2.683987e-01  1.040400e+00  1.181439e+00  1.396889e-01
##   [7946,]  4.731723e-01  1.525333e+00  1.262548e+00  2.299673e+00
##   [7947,] -1.607876e+00  1.195286e-01  1.546272e+00  2.057383e+00
##   [7948,]  7.048727e-01 -5.616911e-01 -1.584693e+00  2.726561e+00
##   [7949,] -7.642755e-01  1.118193e+00 -1.666775e+00  2.596081e+00
##   [7950,] -8.248533e-02  3.214003e-01 -1.853616e+00  2.785330e+00
##   [7951,]  6.359325e-01 -1.070417e-01 -1.325813e+00  2.755105e+00
##   [7952,] -9.789053e-01  1.980695e+00  6.430261e-01  2.178801e+00
##   [7953,] -7.084549e-01  1.102872e+00  1.080626e+00  7.351001e-01
##   [7954,] -2.207027e-01 -1.624154e+00  1.189911e+00  6.458961e-01
##   [7955,]  2.752708e-01  2.944259e-01 -1.750468e+00  1.296742e+00
##   [7956,]  1.723772e-01 -7.635509e-01 -5.354934e-01  9.276787e-01
##   [7957,]  1.194168e+00  1.095881e+00  1.156400e+00  6.646003e-01
##   [7958,] -6.012345e-01 -6.270250e-01 -3.954333e-02  3.044081e+00
##   [7959,] -1.163612e+00  4.150507e-01  2.772393e-01  1.099663e+00
##   [7960,] -5.665072e-01 -7.356162e-01 -1.181539e+00  3.329231e+00
##   [7961,] -6.862644e-01 -9.899353e-01 -1.440795e+00  9.365460e-01
##   [7962,] -2.471687e+00 -2.335982e-01 -1.713056e-01  7.194369e-01
##   [7963,]  3.766743e-01 -2.994481e-01  1.242871e+00  5.561428e-01
##   [7964,]  4.149345e-01  1.615967e+00  1.175000e+00  5.130924e-01
##   [7965,] -9.316485e-02 -4.075902e-01  4.561753e-01  1.107851e+00
##   [7966,]  8.197618e-01 -3.574528e-01 -3.866914e-01  1.143158e+00
##   [7967,] -1.364199e-01 -7.651337e-02 -4.036974e-01  2.625684e+00
##   [7968,]  1.161067e+00 -1.235469e-01 -1.680639e+00  5.299666e-01
##   [7969,]  3.656152e-01  2.123689e-01  1.440587e+00  1.335891e-01
##   [7970,] -9.712385e-01 -1.616691e+00 -1.531489e+00  9.031194e-01
##   [7971,]  5.780809e-01  6.433992e-01  1.204215e+00  5.781986e-01
##   [7972,]  8.685372e-02  1.315042e-03 -1.978950e+00  1.111554e+00
##   [7973,]  1.255858e+00  4.967391e+00  1.003141e+00  8.697032e-01
##   [7974,]  1.315612e+00  8.878045e-01 -3.494645e-01  1.058761e+00
##   [7975,]  6.831192e-01 -2.944217e-01  2.418813e-01  8.060336e-01
##   [7976,] -6.753467e-01  2.092988e+00  9.203936e-01  5.997472e-01
##   [7977,] -7.369854e-01 -1.790076e-01 -2.260467e+00  1.656666e+00
##   [7978,] -2.095146e+00  2.477917e-01 -5.518862e-01  1.283564e+00
##   [7979,] -8.230904e-01 -1.027072e+00  1.099404e+00  1.075152e+00
##   [7980,] -1.014577e+00  8.379113e-01  3.660907e-02  3.560407e-01
##   [7981,]  8.616302e-02  3.159461e-01  9.495431e-01  1.368341e+00
##   [7982,] -3.096330e-01  1.318785e+00 -3.802099e-01  3.799797e-01
##   [7983,] -7.075091e-01 -1.607709e+00  1.246273e+00  8.620297e-01
##   [7984,]  1.297360e+00  7.047322e-01  5.177434e-02  1.114246e+00
##   [7985,]  2.953420e-01  1.600000e+00 -1.417029e+00  1.930611e+00
##   [7986,]  3.170359e-01  2.691205e+00 -2.555409e-01  3.621624e-01
##   [7987,]  4.687302e-01  2.038173e+00 -5.429419e-01  6.469908e-01
##   [7988,]  5.152313e-01 -7.305176e-01  1.444534e+00  2.388031e+00
##   [7989,] -1.172611e+00  4.534804e-01  9.596244e-01  1.114318e+00
##   [7990,] -2.471514e-01  8.933703e-01 -5.033216e-02  4.777041e-01
##   [7991,] -6.699091e-01 -1.000547e+00  1.205839e+00  2.848484e+00
##   [7992,]  1.011745e+00  9.634717e-01  1.267776e+00  3.696158e-01
##   [7993,] -5.356197e-01  9.826234e-01 -3.191568e-01  1.086882e+00
##   [7994,]  6.231997e-01  3.384500e-01  8.804546e-01  1.214624e+00
##   [7995,] -6.357569e-01 -4.395762e-01 -1.481988e+00  9.149320e-01
##   [7996,]  6.383528e-01 -8.385829e-01 -1.654410e+00  6.785225e-01
##   [7997,]  1.470378e+00 -2.084369e-01 -2.027226e-01  2.710451e+00
##   [7998,]  1.219971e+00 -4.030191e-01  1.124027e+00  8.418041e-01
##   [7999,]  7.404162e-01 -9.185838e-01 -4.377130e-02  2.592765e+00
##   [8000,] -7.871094e-01 -1.148490e+00 -3.111332e-01  2.761595e+00
##   [8001,] -2.856611e-01 -8.443961e-01  2.703486e-01  5.608733e-01
##   [8002,] -7.782634e-01 -2.045088e-01 -5.381048e-01  2.872953e+00
##   [8003,] -7.252476e-01  1.204712e+00 -3.972967e-01  5.350565e-01
##   [8004,]  4.357138e-01 -6.200032e-02 -2.373418e-01  2.163852e+00
##   [8005,] -7.888529e-01  3.273627e-01  8.819076e-01  1.143340e+00
##   [8006,]  3.385294e-01  6.821610e-01  1.283119e+00  5.380567e-01
##   [8007,] -7.158883e-01  9.116952e-01  9.518961e-01  1.098831e+00
##   [8008,]  1.300263e+00  3.481026e-01 -1.583812e+00  1.049485e+00
##   [8009,] -1.183695e-01 -3.260197e-01  1.227438e+00  6.483012e-01
##   [8010,] -9.967042e-01 -3.349396e-01 -3.127097e-01  2.528081e+00
##   [8011,] -4.484143e-01 -3.136608e-01  7.764966e-01  1.630410e+00
##   [8012,] -6.839478e-02 -1.350147e+00  7.868307e-01  6.253480e-01
##   [8013,] -2.059946e-01  1.093021e+00  1.270598e+00  3.022735e-01
##   [8014,] -2.085332e-01  1.845810e+00  9.872300e-01  8.858828e-01
##   [8015,] -1.382558e+00  1.856937e+00  9.472153e-01  8.070802e-01
##   [8016,]  1.812513e-01 -3.814145e-01 -1.185329e+00  3.026861e+00
##   [8017,] -8.188338e-02 -1.627504e+00 -6.300380e-01  5.245943e-01
##   [8018,] -7.709939e-02 -2.395555e-01 -1.869166e+00  9.064563e-01
##   [8019,]  7.340353e-01  7.486341e-03  1.183063e+00  2.700815e+00
##   [8020,]  1.178710e+00  6.047899e-03 -1.527909e-01  2.608501e+00
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##   [8021,]  1.019940e+00 -7.544939e-01  1.405107e+00  3.240953e-01
##   [8022,] -8.330294e-01  1.043774e+00 -1.895508e+00  1.060706e+00
##   [8023,] -2.429543e+00  3.398404e-01 -1.291480e+00  4.749046e-01
##   [8024,]  6.718862e-01  1.178983e-01 -3.386723e-01  7.148320e-01
##   [8025,]  7.929998e-01 -1.764111e-02  9.076627e-01  1.144960e+00
##   [8026,] -1.499446e+00 -1.855156e+00 -2.839247e-02  7.338589e-01
##   [8027,] -1.872108e+00  1.539717e+00  1.123619e+00  5.423046e-01
##   [8028,]  3.921343e-01 -8.084967e-01  9.098486e-02  2.226898e-01
##   [8029,] -3.105925e+00 -1.271815e+00 -1.121417e+00  2.137649e+00
##   [8030,] -1.007071e+00  1.988326e-02  3.473300e-02  3.313918e-01
##   [8031,]  1.045481e+00  1.354000e+00  1.280413e+00  2.326582e-01
##   [8032,] -8.332843e-01 -1.685648e+00  1.403042e+00  5.538672e-01
##   [8033,] -6.173327e-01  1.124138e+00  4.870269e-01  2.950325e+00
##   [8034,] -6.945345e-01  2.260228e+00 -2.226922e-01  9.000060e-01
##   [8035,]  8.378704e-01 -9.849913e-02  1.609090e+00  1.796033e+00
##   [8036,] -8.278337e-01  1.872774e+00  8.131805e-01  2.369541e+00
##   [8037,]  5.300958e-01  5.875766e-01  6.103222e-03  2.807021e+00
##   [8038,]  1.391613e+00  2.593096e-01 -6.962105e-01  1.149987e+00
##   [8039,] -2.371134e+00  6.800093e-01 -4.136878e-01  6.560026e-01
##   [8040,]  1.342469e+00  1.087192e+00  9.749826e-01  1.019465e+00
##   [8041,] -1.947701e-01  2.272060e+00  8.804884e-01  2.189310e+00
##   [8042,]  5.802396e-01 -6.376074e-01 -1.674298e+00  6.733311e-01
##   [8043,]  5.808499e-02  1.650033e+00  1.415033e+00  1.864210e+00
##   [8044,]  2.039636e-01  6.689159e-01  5.796669e-01  3.040577e+00
##   [8045,] -2.309462e+00  7.820933e-02  7.694974e-01  2.817265e+00
##   [8046,]  1.093500e+00 -3.094064e-01  1.289802e+00  5.415425e-01
##   [8047,]  1.839014e-01  1.016677e-01 -7.347633e-01  1.269628e+00
##   [8048,] -7.172120e-01  1.383392e+00 -1.181351e-01  9.287526e-01
##   [8049,] -1.305657e+00 -6.869142e-01 -1.627855e+00  3.558778e+00
##   [8050,]  1.450811e+00  6.300820e-01 -5.220484e-01  1.186798e+00
##   [8051,]  1.908590e-01  3.465162e-03  9.358498e-01  1.121826e+00
##   [8052,] -1.518911e-01 -5.965071e-01  1.344095e+00  4.341707e-01
##   [8053,] -1.042330e+00 -2.327989e-02 -1.196004e+00  6.341872e-01
##   [8054,] -2.321211e+00  1.830544e+00 -4.289454e-01  9.101447e-01
##   [8055,] -6.078539e-01  2.592835e-01  7.687709e-01  1.534332e+00
##   [8056,]  1.052003e+00 -8.617828e-01  9.486096e-01  2.192159e+00
##   [8057,] -5.371920e-02 -1.598322e+00  2.747687e-02  6.204467e-01
##   [8058,] -8.834541e-01  1.148569e+00 -3.644556e-01  4.998756e-01
##   [8059,]  1.345307e-01  1.441000e-01 -4.517633e-01  1.143522e+00
##   [8060,] -1.422697e+00  2.045693e-01 -1.565021e+00  4.006736e-01
##   [8061,]  4.707143e-01  7.670381e-01  1.353016e+00  4.113322e-01
##   [8062,] -1.416404e-01 -1.107534e+00 -7.486416e-01  3.313492e-01
##   [8063,]  1.814560e-01  4.398939e-02  1.740665e+00 -3.462739e-01
##   [8064,]  1.340903e+00  4.802233e-01  1.158026e+00  6.577841e-01
##   [8065,]  1.252499e+00  2.362337e-01 -2.523644e-01  6.062075e-01
##   [8066,]  1.063884e+00 -7.969530e-01 -2.193656e-01  2.480539e-01
##   [8067,] -7.408597e-01  6.532106e-01  6.554797e-01  1.775530e+00
##   [8068,]  7.725269e-01 -2.831347e-01  1.063977e+00  9.429757e-01
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##   [8070,]  1.961439e-01  1.901538e-01 -4.500218e-01  1.422381e+00
##   [8071,] -7.192583e-01 -1.238085e+00 -2.901384e-01  1.094199e+00
##   [8072,] -7.522024e-01  3.306142e+00  1.110532e+00  2.391183e+00
##   [8073,] -2.449840e+00 -6.785692e-01  1.278933e+00  7.594204e-01
##   [8074,] -1.152772e+00  2.483603e+00 -1.126294e+00 -4.625277e-02
##   [8075,] -1.265629e+00 -8.730539e-01  1.454051e+00  3.521467e-01
##   [8076,]  6.033513e-01 -1.801884e-01  6.817594e-01  1.073250e+00
##   [8077,]  6.326001e-01 -2.420718e-01 -1.372135e+00  2.687811e+00
##   [8078,]  4.661147e-01  7.960446e-01  9.343128e-01  5.044220e-01
##   [8079,] -7.542910e-01 -3.467577e-01  1.091601e+00  9.154965e-01
##   [8080,] -4.934385e-01  1.349967e+00  1.289837e+00  2.695978e+00
##   [8081,]  1.180607e+00  2.656667e-01  5.175061e-01  5.329424e-01
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##   [8085,]  1.157186e+00 -2.914091e-01 -1.609234e+00  2.450359e+00
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##   [8087,]  5.977969e-01  4.883596e-01 -1.586699e+00  6.506023e-01
##   [8088,] -4.643828e-01 -6.217985e-02 -1.971255e+00  1.799960e+00
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##   [8090,]  5.666463e-01  2.380411e-02 -1.758197e+00  9.843065e-01
##   [8091,] -8.767416e-01 -9.032233e-01 -1.745028e+00  1.215648e+00
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##   [8093,]  5.257575e-01 -3.375754e-01 -2.324909e-01  8.804077e-01
##   [8094,] -1.355921e+00 -1.251448e+00 -1.827757e+00  1.086062e+00
##   [8095,]  9.511565e-01  1.451090e+00  1.257649e-01  1.029056e-01
##   [8096,] -8.810778e-01  1.654568e-01  1.094504e+00  8.755660e-01
##   [8097,] -2.957927e+00  2.087015e+00 -1.769478e+00  1.045111e+00
##   [8098,]  1.494157e+00  7.443823e-01  9.481251e-01  1.052144e+00
##   [8099,]  1.267284e+00  5.712228e-01  3.499569e-02  6.459213e-01
##   [8100,] -1.543784e+00  8.696637e-01  1.111741e+00  7.094307e-01
##   [8101,] -1.067740e+00  1.205840e-02  1.706802e+00 -2.705854e-01
##   [8102,] -1.369771e+00  1.439278e+00  1.171354e+00  2.577727e+00
##   [8103,]  4.783330e-01  2.831940e-01  5.352967e-02  4.640870e-01
##   [8104,]  1.422706e+00  7.946977e-03  1.016308e+00  2.939034e+00
##   [8105,] -1.725086e+00  5.013976e-01  2.957952e-01 -2.205368e-01
##   [8106,] -6.541977e-01  7.633492e-01 -3.399508e-02  1.219118e+00
##   [8107,] -3.685943e-03  9.032972e-01  1.176870e+00  5.548222e-01
##   [8108,] -8.497774e-01  1.390176e+00  5.745716e-02  1.945905e+00
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##   [8110,]  6.245352e-01  8.151129e-01 -1.255541e+00  6.575433e-01
##   [8111,]  1.390877e-01  5.430298e-01  4.595556e-01  1.197921e+00
##   [8112,] -8.060712e-01 -4.232057e-01  1.247848e+00  2.781111e+00
##   [8113,]  6.721412e-01 -1.854123e-01 -2.900534e-01  3.067236e+00
##   [8114,] -1.429965e+00  5.314845e-01 -4.424712e-01  1.143731e+00
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##   [8116,]  5.261872e-01 -4.775270e-01  1.247624e+00  6.426457e-01
##   [8117,] -7.161464e-01  3.599811e-01 -7.529818e-01  1.257131e+00
##   [8118,] -1.476453e+00  7.915444e-01 -1.308996e+00  1.083732e+00
```

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##   [8119,] -6.826205e-01 -1.512826e-01  1.253085e+00  6.346593e-01
##   [8120,] -9.175460e-01 -2.284136e-01 -2.812201e-01  1.221871e+00
##   [8121,] -1.252189e-01 -7.724192e-01  1.986050e-01  4.050917e-01
##   [8122,]  1.319119e+00  4.729424e-02 -5.148472e-01  9.823543e-01
##   [8123,] -7.589977e-02  1.861919e-01 -1.548594e+00  6.332739e-01
##   [8124,]  5.983002e-01 -7.533970e-01 -1.059003e+00  2.453029e+00
##   [8125,] -1.750754e+00  5.695452e-01 -1.476535e-01  2.198832e+00
##   [8126,]  1.111323e+00  1.959192e+00 -8.147981e-02  4.131083e-01
##   [8127,]  1.304052e+00 -7.571359e-03  1.340398e+00  2.476258e+00
##   [8128,] -1.818623e+00 -7.759948e-01  2.305973e-01  3.093107e-01
##   [8129,] -6.101650e-01  7.654086e-01  1.128929e+00  2.653820e+00
##   [8130,] -7.392591e-01  3.768965e-01 -6.372535e-01  3.013389e+00
##   [8131,] -3.114717e-01  1.542457e+00  1.238451e+00  4.299332e-01
##   [8132,] -1.230142e+00  1.831551e+00  1.402573e+00 -4.730789e-03
##   [8133,] -7.662158e-01  6.851531e-01 -2.301872e-01  2.212503e+00
##   [8134,] -2.629838e-01 -8.524299e-01 -1.346730e+00  1.395184e-01
##   [8135,] -7.667037e-01  1.726315e+00 -9.686253e-01  2.331008e+00
##   [8136,] -1.691610e+00 -4.458254e-01 -4.923476e-02  5.845640e-01
##   [8137,]  6.152932e-01  3.900895e-01 -2.437142e-01  7.447280e-01
##   [8138,] -1.117756e+00  9.520802e-01 -8.835319e-01  1.475059e+00
##   [8139,] -4.362620e-01  3.561402e-01  1.736465e-01 -4.245790e-01
##   [8140,]  5.157066e-01 -1.571784e-01  1.440793e+00  3.145136e-01
##   [8141,]  5.605267e-01 -7.132368e-02 -2.055889e-01  9.719067e-01
##   [8142,] -8.136018e-01 -7.283359e-01  3.930045e-01  3.276995e+00
##   [8143,]  1.412204e+00  9.257554e-02 -1.088240e+00  2.592172e+00
##   [8144,] -1.098190e+00  1.041922e+00  1.191602e+00  6.512142e-01
##   [8145,]  7.334954e-01  1.137949e+00 -4.221422e-01  1.194973e+00
##   [8146,]  1.357253e+00  2.207789e-01  1.029451e+00  2.821009e+00
##   [8147,] -2.068969e-02 -1.090781e+00 -4.457794e-02  2.601772e+00
##   [8148,]  5.295206e-01 -8.711646e-01  1.486859e+00  2.215800e+00
##   [8149,]  8.705047e-01  4.887675e-01 -4.241658e-01  1.330673e+00
##   [8150,]  1.187856e+00  7.013353e-01 -2.821169e-01  8.679017e-01
##   [8151,]  5.506671e-02 -3.456535e-02 -1.774007e+00  2.828848e+00
##   [8152,]  5.821216e-01 -1.103872e-01  1.056766e+00  2.893752e+00
##   [8153,]  1.028152e-01 -8.491153e-01 -2.181502e-01  2.923215e+00
##   [8154,] -6.508595e-01  7.394566e-01  1.156481e+00  2.562182e+00
##   [8155,]  9.164850e-01  1.453589e+00  1.349597e-01  3.224489e-01
##   [8156,]  1.171030e+00 -2.875600e-01 -1.718884e+00  6.620275e-01
##   [8157,] -9.618967e-01 -8.385205e-01  1.578291e+00  1.253164e-01
##   [8158,]  2.403991e-01  5.667345e-02 -1.888537e+00  1.520486e+00
##   [8159,] -1.471735e+00  1.450126e+00 -6.859218e-01  6.647246e-01
##   [8160,]  7.145817e-01 -8.061856e-01  1.374338e+00  2.536543e+00
##   [8161,]  2.632680e-01 -2.188330e-02  3.845910e-01  1.254162e+00
##   [8162,] -6.500471e-01 -5.617950e-01  1.350391e+00  2.693361e+00
##   [8163,]  1.059681e-01  1.569567e+00  9.375724e-01  1.067569e+00
##   [8164,] -7.044068e-01 -2.707073e-02  4.153114e-01  5.584625e-01
##   [8165,] -8.232444e-01  2.655178e-01  1.294961e-01  1.566832e-01
##   [8166,] -8.726391e-01 -5.467830e-01 -3.436661e-01  3.150178e+00
##   [8167,]  1.165258e+00 -2.854055e-01  8.808913e-01  5.825420e-01
##   [8168,] -7.387700e-02  4.754199e-01 -9.344087e-01  7.116946e-01
##   [8169,] -1.699432e+00  8.529648e-01 -2.934980e-01  2.578726e+00
##   [8170,]  1.774025e-01  6.434903e-01 -4.752343e-01  1.152749e+00
##   [8171,]  1.432812e+00  8.994951e-01  8.923612e-01  1.098152e+00
##   [8172,]  1.274594e+00  7.465144e-01  2.563414e-01  6.626158e-01
##   [8173,] -5.630321e-02  7.042025e-01  1.130064e+00  2.328007e+00
##   [8174,]  5.903669e-01  1.170399e+00  9.334100e-01  9.984738e-01
##   [8175,]  1.090517e+00  1.492595e+00  1.184106e+00  3.651013e-01
##   [8176,] -4.684639e-01  1.643982e+00  9.546861e-01  1.029611e+00
##   [8177,] -5.497884e-02 -9.912937e-02  1.000864e+00  3.070308e+00
##   [8178,] -2.338500e+00  6.188139e-01  2.229304e-01  7.614298e-01
##   [8179,]  6.931102e-01  9.128754e-01 -1.853576e+00  8.076451e-01
##   [8180,]  8.318899e-01  6.010113e-01  8.874608e-01  1.273402e+00
##   [8181,]  7.851506e-01  9.649509e-01  2.827761e-01  1.063280e+00
##   [8182,]  1.090283e-02  4.224364e-01  8.674954e-02  1.020829e+00
##   [8183,] -9.107578e-01 -8.034682e-01 -4.756106e-02  2.691557e+00
##   [8184,] -7.701036e-01 -5.910828e-01 -1.702812e+00  9.986044e-01
##   [8185,]  7.025981e-01  3.513782e-01 -2.002651e-01  2.941373e+00
##   [8186,]  9.458777e-01  1.139406e+00  7.514681e-01  1.496767e+00
##   [8187,]  1.816796e-01  8.583678e-01  7.568306e-01  1.401974e+00
##   [8188,] -1.647212e-01  5.702210e-01  4.772037e-02  2.449678e+00
##   [8189,]  3.903840e-01  1.917897e+00  1.343373e+00  1.698156e-01
##   [8190,]  1.152474e+00  3.086693e-01 -4.635295e-02  2.554677e+00
##   [8191,]  8.097329e-01  8.449380e-01 -1.879666e-01  1.221255e+00
##   [8192,]  1.679363e-01 -2.654091e-01 -1.986239e+00  3.021013e+00
##   [8193,] -2.956307e+00  2.512700e-01 -2.780249e-01  9.300931e-01
##   [8194,] -4.943238e-01  6.052830e-01 -1.387309e+00  1.370202e+00
##   [8195,] -1.559900e+00 -1.611290e+00  4.564033e-01  1.024472e+00
##   [8196,]  2.081561e-01 -1.138277e+00 -5.475255e-01 -2.827240e-02
##   [8197,] -1.099343e-01 -1.844654e-01  1.223986e+00  6.763678e-01
##   [8198,] -6.466346e-01 -4.172329e-01 -6.058395e-01  1.457043e+00
##   [8199,] -9.898636e-02  4.477714e-02  2.803956e-01  2.235191e+00
##   [8200,] -8.334792e-01 -1.546600e-01  1.079923e-01  2.552919e-01
##   [8201,] -5.604354e-02 -2.680859e-02 -1.357961e-01  6.452789e-01
##   [8202,] -1.635491e+00  1.129372e-01 -2.009550e-01  8.854262e-01
##   [8203,]  9.084982e-02 -2.465569e-01 -1.403229e+00  1.101246e+00
##   [8204,] -7.590906e-01  8.962656e-01  1.175299e+00  5.872830e-01
##   [8205,]  3.975362e-01  7.487991e-01 -8.614992e-02  4.082117e-01
##   [8206,] -2.208838e-01 -1.001963e+00  1.342137e+00  2.558736e+00
##   [8207,] -4.757363e-01  1.795132e+00 -6.953827e-03  7.788489e-02
##   [8208,] -5.593509e-01 -1.425373e-02  3.545893e-01  6.049821e-01
##   [8209,] -2.125062e-02 -8.506365e-01  4.737125e-01  3.065457e+00
##   [8210,] -9.821693e-01  8.986027e-01 -1.535286e+00  6.975637e-01
##   [8211,]  7.937249e-01 -2.040905e-01  9.350795e-01  3.152899e+00
##   [8212,]  1.365046e+00  9.450425e-02 -1.738876e+00  2.889158e+00
##   [8213,] -1.143011e+00 -7.207178e-01 -1.430715e+00  2.661872e-01
##   [8214,] -1.563565e-01 -8.451781e-01 -1.186325e+00  8.423618e-01
##   [8215,] -1.511269e+00  2.386350e+00  1.027065e+00  7.394271e-01
##   [8216,]  1.338830e+00 -2.091396e-01  1.193393e-01  7.006601e-01
```

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##   [8217,]  1.433987e+00  8.893177e-02  3.525326e-02  8.030531e-01
##   [8218,] -1.576255e-01  2.118536e+00  1.215190e+00  3.264107e-01
##   [8219,] -5.810903e-01 -6.710526e-02  2.045184e-01  1.832641e+00
##   [8220,]  5.541190e-01  6.495566e-01  7.055986e-01  2.358967e+00
##   [8221,]  4.637316e-01  2.427865e-01 -7.751708e-02  2.613537e+00
##   [8222,] -5.580052e-01 -3.836305e-01 -1.752288e+00  1.099577e+00
##   [8223,]  4.555458e-01 -2.115816e-01 -3.017300e-02  4.871953e-01
##   [8224,] -1.946155e-01  2.690970e+00 -2.978100e-02  9.950089e-01
##   [8225,] -3.720822e-01 -1.028026e+00 -1.425407e+00  2.867220e-01
##   [8226,] -3.335534e-01  3.180863e+00 -2.540844e-01  2.975342e-01
##   [8227,] -3.715728e-01  1.552443e+00 -2.302210e-01  2.224147e-01
##   [8228,]  5.618709e-01 -3.127315e-01 -1.538499e+00  9.407158e-01
##   [8229,]  3.298803e-01  1.475622e+00  1.315449e+00  2.052908e+00
##   [8230,] -1.397878e+00  5.014690e-01  1.078702e+00  8.079884e-01
##   [8231,]  5.790083e-01 -4.460015e-01  1.094281e+00  2.850164e+00
##   [8232,] -1.320695e+00  2.563222e-02  1.321398e+00  3.553491e-01
##   [8233,] -8.073322e-01  2.837124e-01  8.250577e-01  2.396983e+00
##   [8234,] -7.894894e-02 -6.460512e-01 -1.851927e+00  2.895166e+00
##   [8235,] -1.460638e+00  5.520453e-01  9.834764e-01  1.068585e+00
##   [8236,] -1.539959e+00  1.242250e+00  1.135188e+00  5.621837e-01
##   [8237,] -5.088313e-02  3.096361e-01  1.059219e+00  7.984751e-01
##   [8238,] -6.292697e-02 -9.805019e-01 -1.149775e+00  1.070841e+00
##   [8239,]  1.629784e-01 -2.851348e-01 -2.393619e-01  2.774726e+00
##   [8240,] -2.048081e+00  4.397775e+00 -1.159417e-01  1.725582e+00
##   [8241,] -1.342520e+00  5.911211e-02  1.401926e+00  2.140882e+00
##   [8242,]  3.802195e-01  2.411105e+00  1.228038e+00  3.386738e-01
##   [8243,] -1.413680e+00  7.216664e-01 -1.541019e-01  2.420357e+00
##   [8244,]  2.879212e-01 -9.959774e-01  1.585786e+00  2.065093e+00
##   [8245,] -7.264413e-01  1.573844e+00 -1.243513e-01  6.726210e-01
##   [8246,] -5.064145e-01  1.741605e+00  7.202604e-01 -3.745743e-01
##   [8247,] -1.333732e+00 -3.741923e-01 -4.755611e-02  6.067045e-01
##   [8248,]  1.230262e+00 -5.938103e-01  1.185122e+00  7.159007e-01
##   [8249,]  9.757575e-01  3.603297e-01  8.184142e-01  3.329976e+00
##   [8250,]  4.693490e-01 -1.248514e-01 -3.154174e-01  3.985779e-01
##   [8251,]  6.587826e-01 -7.919650e-01  1.380326e+00  2.425642e+00
##   [8252,] -4.268779e-01  1.077584e+00  4.759792e-01 -8.470198e-02
##   [8253,]  2.327797e-01  1.702887e+00  1.384826e+00  3.681932e-01
##   [8254,]  6.114055e-01 -9.259167e-02 -8.595977e-01  6.492190e-01
##   [8255,] -9.144624e-03 -4.165879e-01  1.120023e+00  8.943823e-01
##   [8256,]  6.533882e-01 -6.946677e-01 -1.558795e-01  2.739978e+00
##   [8257,]  8.163926e-01  1.540960e-01  8.041379e-01  1.327397e+00
##   [8258,]  1.161257e+00 -3.768159e-01  7.877474e-01  2.498720e+00
##   [8259,] -9.588000e-01 -1.259273e+00 -9.437872e-01  2.301419e+00
##   [8260,] -1.607089e+00 -2.257620e-01 -2.146618e-01  9.216030e-01
##   [8261,]  2.134124e-01  2.778994e-01 -6.701910e-01  1.385039e+00
##   [8262,]  6.463768e-01  6.121688e-02 -2.074112e-01  6.277120e-01
##   [8263,]  3.832211e-01  2.611001e+00 -3.308062e-01  4.253417e-01
##   [8264,]  1.111525e+00  1.952073e-01 -2.010005e-01  2.452871e+00
##   [8265,] -1.234888e+00 -5.852797e-01 -5.803167e-01  1.713579e+00
##   [8266,]  7.343226e-01 -1.308766e-01 -1.034033e+00  2.979156e+00
##   [8267,] -6.919637e-01 -7.170735e-01 -1.082295e+00  3.222392e+00
##   [8268,]  1.200508e+00  1.316740e+00  5.782939e-01  8.068491e-01
##   [8269,] -1.116026e+00  9.061315e-01 -3.120085e-02  2.418824e+00
##   [8270,] -1.522263e+00 -2.402904e-01  1.464542e+00  2.228483e+00
##   [8271,] -2.238464e+00  2.055585e-01 -2.313445e-01  9.400406e-01
##   [8272,]  5.618949e-01 -2.671756e-01  1.124088e+00  2.818985e+00
##   [8273,]  6.135121e-01 -8.331693e-02 -2.030422e-01  7.803423e-01
##   [8274,] -1.632446e+00  1.654280e-01 -1.206454e+00  1.018267e-01
##   [8275,]  7.317550e-01  3.436801e-01  2.732115e-01  1.004196e+00
##   [8276,] -2.225946e-01  1.626552e-01 -3.432476e-03  2.310965e+00
##   [8277,] -8.552394e-01 -7.817658e-01  2.452172e-01  2.190570e+00
##   [8278,] -5.418612e-01 -5.883330e-01 -2.031987e+00  1.322704e+00
##   [8279,] -6.218761e-01 -1.028766e+00 -3.676265e-02  8.765598e-01
##   [8280,]  1.799633e-02 -4.661225e-01 -1.464552e+00  8.962440e-01
##   [8281,] -3.517165e-01  4.724465e-02  6.162869e-01  1.727706e+00
##   [8282,] -8.375477e-01  6.218922e-01  1.193928e+00  7.535385e-01
##   [8283,]  2.567351e-01  3.861532e-01  1.521633e+00 -9.654309e-02
##   [8284,] -2.573873e-01 -2.873682e-01 -1.366350e+00  6.798121e-01
##   [8285,] -8.590559e-01  1.850392e-02 -1.562004e+00  1.387455e+00
##   [8286,]  9.514132e-02 -6.710527e-02 -5.749860e-01  1.026690e+00
##   [8287,] -7.374683e-02 -1.124249e+00  1.257819e+00  2.695503e+00
##   [8288,] -1.454651e+00  5.873837e-01 -2.990848e-01  1.062136e+00
##   [8289,]  1.279976e+00 -1.359150e-01  1.099288e+00  8.770073e-01
##   [8290,] -2.959913e+00 -2.089425e-01 -1.731883e+00  7.945263e-01
##   [8291,]  7.402228e-06  2.121204e-01  1.753468e-01  1.193831e+00
##   [8292,]  6.626042e-01 -3.273977e-01 -4.329851e-01  1.220780e+00
##   [8293,]  4.771932e-01 -7.460097e-01  7.038993e-01  2.302868e+00
##   [8294,]  6.981231e-01 -6.449255e-01  1.110146e+00  9.294685e-01
##   [8295,]  6.078194e-01  1.104038e-02  1.163188e+00  6.929764e-01
##   [8296,] -1.370914e+00  1.474859e+00 -7.107840e-01  1.586802e+00
##   [8297,] -1.564955e+00 -8.564366e-02 -1.613398e+00  2.493312e+00
##   [8298,] -2.480424e-01  5.670094e-01  1.110889e+00  4.616474e-01
##   [8299,]  7.824399e-01  7.312558e-01 -1.675298e+00  1.129883e+00
##   [8300,]  8.997914e-01  1.613548e+00  1.389105e+00  1.895392e+00
##   [8301,]  5.374205e-01 -1.841510e-01  1.045652e+00  9.500243e-01
##   [8302,] -1.825230e+00  2.389523e-01 -1.258239e+00  9.292732e-02
##   [8303,]  1.120954e+00  1.567977e+00  1.024440e+00  8.245792e-01
##   [8304,]  7.305589e-01  1.009551e-01  2.214269e-01  1.177744e+00
##   [8305,] -2.008129e+00  9.029612e-01  1.494957e+00  9.828914e-02
##   [8306,]  7.096152e-01 -3.049790e-01  7.742428e-02  1.090399e+00
##   [8307,] -6.794252e-01  9.158610e-01  1.035680e-01  6.303454e-01
##   [8308,]  3.891886e-01  1.394202e-02 -6.038128e-01  1.569083e+00
##   [8309,]  5.594876e-01 -3.748376e-01  4.046319e-01  9.355644e-01
##   [8310,] -8.975437e-01  7.359640e-02 -1.088279e+00  2.395638e+00
##   [8311,] -1.700136e-01 -3.567916e-01  1.375202e+00  2.346920e+00
##   [8312,]  5.959723e-01 -3.699473e-01  1.398330e+00  4.719758e-01
##   [8313,] -1.602840e+00 -3.659286e-02 -2.230463e-01  6.182058e-01
##   [8314,]  1.340870e+00  1.094519e+00  9.079487e-01  1.040344e+00
```

```
##   [8315,] -5.519388e-01 -6.454790e-01 -3.396102e-01  1.080942e+00
##   [8316,] -7.295495e-01  1.098507e+00 -6.554854e-01  5.289966e-01
##   [8317,] -1.335163e-01  4.024992e-01  1.498879e+00  2.004424e+00
##   [8318,]  4.356956e-01 -5.623763e-02  1.325580e+00  2.515238e+00
##   [8319,] -1.714305e+00 -1.825825e-01 -3.083283e-01  1.101952e-01
##   [8320,]  1.111857e+00  1.009541e-02  1.385765e+00  3.435427e-01
##   [8321,] -5.042360e-01  3.625827e-02 -1.632310e+00  3.115258e+00
##   [8322,]  3.625945e-02 -4.894564e-01  9.159141e-01  1.397105e+00
##   [8323,]  2.343460e-01 -6.594759e-01 -3.396813e-01 -2.285914e-01
##   [8324,]  3.536697e-01  1.002117e-01 -1.981971e+00  1.450942e+00
##   [8325,] -1.520994e-01 -1.304825e+00  1.471237e+00  3.378901e-01
##   [8326,] -1.777763e-01 -1.104371e+00  1.350387e+00  2.459732e+00
##   [8327,]  1.107879e+00  7.216265e-01  1.290763e+00  2.274843e+00
##   [8328,]  4.713178e-01  5.147950e-01 -1.589651e-01  2.261447e+00
##   [8329,] -1.440474e-01 -1.504672e+00  2.238193e-01  2.929479e-01
##   [8330,] -6.449816e-01 -2.496396e-01 -1.439188e+00  1.138056e+00
##   [8331,] -8.080613e-01 -3.462945e-01 -3.243585e-01  2.095703e+00
##   [8332,]  4.707994e-02 -4.765808e-01 -1.866756e+00  9.593256e-01
##   [8333,] -9.148863e-01 -2.138814e+00  1.872577e-01  2.330856e+00
##   [8334,] -2.489663e+00  7.089116e-01  1.127048e+00  4.222822e-01
##   [8335,]  7.247690e-01 -1.276050e-01 -1.276702e+00  2.735929e+00
##   [8336,]  1.137955e+00 -1.416991e-02  4.029914e-01  2.479598e+00
##   [8337,] -1.325362e+00 -1.047822e+00  8.853729e-01  1.471802e+00
##   [8338,]  1.290433e+00  5.990069e-01 -1.998711e+00  1.059354e+00
##   [8339,] -9.356243e-01  2.321516e-01 -5.503716e-02  1.917644e-01
##   [8340,] -6.075462e-01 -6.293222e-01 -2.055843e-01  3.022499e+00
##   [8341,]  9.105100e-01  1.845815e+00 -1.359643e-01  1.863140e+00
##   [8342,]  6.424422e-01 -4.227443e-02  5.529308e-02  1.178190e+00
##   [8343,] -5.526589e-01  1.624620e+00  8.908931e-01  1.058388e+00
##   [8344,] -3.580026e-01 -7.768114e-01  1.474917e+00  2.258608e+00
##   [8345,] -1.661577e+00  8.888716e-01  1.173706e+00  6.307910e-01
##   [8346,]  8.079539e-01 -2.573144e-01 -3.105315e-01  1.012809e+00
##   [8347,] -2.262975e-01 -1.107349e+00 -1.319189e+00  4.243464e-01
##   [8348,]  4.638511e-01  4.050559e-02 -1.262552e+00  7.438365e-01
##   [8349,] -1.378897e+00 -6.947913e-01 -1.689996e-01  1.358414e+00
##   [8350,]  1.496656e-01  3.867154e-01 -4.236483e-01  1.235018e+00
##   [8351,]  5.519001e-01 -5.221025e-02 -5.402783e-01  9.392395e-01
##   [8352,] -8.427362e-01  5.196088e-01  1.064409e+00  8.136918e-01
##   [8353,] -5.032013e-01  7.519365e-01  5.217703e-03  1.154670e+00
##   [8354,]  1.357078e+00  1.039726e+00  8.600806e-01  1.085057e+00
##   [8355,]  5.775968e-01 -6.461987e-01  1.451368e+00  2.339166e+00
##   [8356,]  4.286327e-02 -5.744011e-01  1.348031e+00  2.498484e+00
##   [8357,] -2.232101e-01  4.999463e-01 -2.966287e-01  3.435743e-01
##   [8358,] -1.497162e+00 -8.619576e-01  1.453146e+00  1.994330e+00
##   [8359,] -1.228747e+00  5.686478e-01 -1.347389e-01  2.779701e+00
##   [8360,] -1.087960e+00  1.306681e+00 -2.967991e-03  1.805791e+00
##   [8361,] -1.939264e+00  1.698532e+00 -3.219456e-01  3.235803e-01
##   [8362,] -5.888788e-01 -8.975727e-01 -1.495655e+00  3.008446e+00
##   [8363,] -9.322858e-02 -1.154866e+00  2.262505e-02  2.430794e+00
##   [8364,]  1.071544e+00  1.196045e-01  1.280174e+00  2.387068e+00
##   [8365,]  6.159415e-01  8.047390e-01  1.049495e-01  9.767515e-01
##   [8366,]  1.127590e+00  3.739375e-01  1.131496e+00  7.136278e-01
##   [8367,] -2.098460e-01  2.244309e+00 -5.944599e-01  8.618352e-01
##   [8368,]  1.444726e+00  1.188970e-01  8.896163e-01  1.180525e+00
##   [8369,] -1.599081e-01 -4.988376e-01  1.043204e+00  9.656847e-01
##   [8370,]  2.115521e-01 -8.356280e-01 -4.191171e-01  2.880260e+00
##   [8371,]  5.188959e-01  3.945479e-01  1.220272e+00  5.257155e-01
##   [8372,] -5.110241e-02 -5.166296e-01 -1.777664e+00  2.759779e+00
##   [8373,]  4.672444e-01  1.812183e+00  1.097676e+00  5.697045e-01
##   [8374,] -7.796650e-01  8.089356e-01  9.415539e-01  1.001856e+00
##   [8375,]  1.788536e-01 -6.657867e-01 -7.848094e-01  1.208438e+00
##   [8376,] -2.377585e+00  3.873684e-01 -1.530871e+00  1.009825e+00
##   [8377,] -1.162691e+00  8.478242e-01  1.670092e+00 -2.105311e-01
##   [8378,] -9.368625e-01  1.322941e+00 -1.575063e+00  2.685715e+00
##   [8379,] -2.874153e-02 -3.260969e-01 -5.871040e-02  5.307620e-01
##   [8380,]  1.156316e+00 -1.314159e-01  1.139145e+00  7.308826e-01
##   [8381,]  4.328458e-01 -8.895879e-01  1.485475e+00  3.457026e-01
##   [8382,]  1.130512e+00  1.301153e+00  4.383900e-01  3.553798e-01
##   [8383,] -6.837549e-01  6.467300e-01 -1.480419e-01  2.552083e+00
##   [8384,] -9.355490e-01  7.142923e-01 -8.870356e-01  3.036775e-01
##   [8385,]  2.804321e-02 -5.291884e-01 -3.920936e-01  1.179431e+00
##   [8386,]  7.220324e-02 -1.032528e-02 -5.674613e-01  9.830156e-01
##   [8387,] -8.266260e-01  2.662822e+00  8.699760e-01  8.628718e-01
##   [8388,]  9.370624e-01  2.047373e+00  2.675922e-01  4.266659e-01
##   [8389,] -1.697072e+00 -9.079444e-01  2.020001e-01  2.878177e-01
##   [8390,] -6.045862e-02  2.920052e-01  1.321092e+00  4.359119e-01
##   [8391,] -8.450667e-01 -6.291420e-01 -2.410063e-01  8.734524e-01
##   [8392,] -7.447056e-01  8.385448e-01 -2.146279e+00  1.240397e+00
##   [8393,] -1.541082e+00  2.438448e+00 -1.966266e+00  8.189789e-01
##   [8394,]  2.881401e-01 -1.558860e+00 -5.866999e-01  1.124294e-01
##   [8395,]  6.728271e-01 -3.819075e-01 -9.344079e-02  8.502552e-01
##   [8396,]  1.301570e+00  1.022960e-01  9.456129e-01  1.101556e+00
##   [8397,]  1.321703e+00  3.279621e-01 -4.084211e-01  2.948891e+00
##   [8398,] -7.685933e-01 -1.103943e+00  4.933061e-01  1.187720e+00
##   [8399,] -3.301493e-01  9.483767e-02  1.195479e+00  6.202216e-01
##   [8400,]  1.903327e-01  1.066094e-01 -5.686910e-01  1.291627e+00
##   [8401,] -7.931558e-01  9.292438e-02 -1.516268e+00  3.428013e+00
##   [8402,] -9.939564e-02 -8.465921e-01 -1.122707e+00  2.043690e+00
##   [8403,]  7.532697e-01 -2.820780e-01 -1.362297e+00  2.898507e+00
##   [8404,]  5.493849e-01  1.259179e+00 -1.955689e-02  6.125875e-01
##   [8405,] -1.105321e+00  2.246044e+00  7.595420e-01  2.149088e+00
##   [8406,]  4.992844e-01 -4.623988e-01 -1.379846e+00  4.029922e-01
##   [8407,]  6.522769e-01  6.583539e-01 -4.155097e-01  2.542620e+00
##   [8408,] -8.405514e-01  4.814050e-02 -1.447317e-01  6.917312e-01
##   [8409,] -1.678856e+00 -2.810933e-04 -6.865228e-01 -2.247165e-01
##   [8410,]  4.710971e-01 -3.447346e-02  1.363023e-01  2.063576e+00
##   [8411,] -6.908741e-01  1.401501e+00  8.161542e-01  1.088169e+00
##   [8412,]  7.415726e-01  4.317833e-02 -3.724674e-02  3.266231e+00
```

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##   [8413,]  1.374279e-01 -7.067101e-01  1.182395e+00  2.733092e+00
##   [8414,]  1.254756e+00  1.516974e+00 -4.819493e-01  2.523680e+00
##   [8415,]  1.758698e-01  1.204887e+00 -8.339582e-01  1.194954e+00
##   [8416,]  1.192668e+00  3.459865e-01  1.185861e+00  2.564011e+00
##   [8417,]  1.058020e+00  3.038612e+00  3.723092e-01  2.080025e+00
##   [8418,]  1.337853e+00  8.618987e-01 -9.597827e-02  9.662921e-01
##   [8419,] -5.374004e-01  4.722754e-01  8.763785e-01  3.505013e+00
##   [8420,]  3.637773e-01 -2.106860e-02 -9.797592e-01  5.104673e-01
##   [8421,] -2.532734e-02 -1.480950e-01  1.282974e+00  5.636507e-01
##   [8422,]  5.235231e-01 -3.006641e-01 -2.010309e-01  2.721949e+00
##   [8423,]  6.473575e-01 -2.134863e-01  4.055187e-01  2.626110e+00
##   [8424,] -1.776311e+00  2.645340e-03 -2.279527e-01  5.425280e-01
##   [8425,]  6.302476e-02 -9.550117e-01  1.187811e+00  8.860090e-01
##   [8426,] -8.185956e-02  7.779972e-01 -1.865484e+00  2.650250e+00
##   [8427,] -3.610126e-01 -3.187840e-01  1.293719e-01  4.328504e-01
##   [8428,]  6.023219e-01 -9.562773e-02  1.229707e+00  5.634468e-01
##   [8429,] -1.881990e-01 -1.237060e+00  1.468915e+00  3.602233e-01
##   [8430,] -1.745345e+00  1.175842e+00 -4.818931e-01  7.234813e-01
##   [8431,]  8.499918e-01  3.773065e-01  7.834059e-01  1.416967e+00
##   [8432,] -3.241016e-01 -2.012922e-01 -1.440617e+00  5.135704e-01
##   [8433,]  8.559491e-01  9.259001e-01  8.257564e-01  1.278253e+00
##   [8434,] -2.004783e-01  2.289051e+00 -9.783712e-02  2.524577e+00
##   [8435,] -8.233719e-01 -8.196675e-01  1.410650e+00  4.581051e-01
##   [8436,]  3.080313e-01  2.831808e+00  5.778893e-01  2.040465e+00
##   [8437,]  4.322279e-01  6.196684e-01  2.591427e-01  2.595207e+00
##   [8438,] -1.250349e+00  1.330801e-01 -7.929564e-01  1.619796e-01
##   [8439,] -8.360753e-01 -5.337014e-01 -5.003532e-02  2.511876e+00
##   [8440,] -1.776389e+00  2.394416e-01  1.606043e+00 -1.408648e-01
##   [8441,]  5.791473e-01 -1.006917e-01  1.320600e+00  2.515233e+00
##   [8442,] -8.101028e-01  9.484319e-03 -2.030779e+00  3.300187e+00
##   [8443,] -1.187633e-01 -5.619032e-02  1.226482e+00  6.674063e-01
##   [8444,] -1.556191e+00 -2.003758e+00 -1.140598e+00  2.558737e+00
##   [8445,]  5.327844e-01 -1.037519e+00 -4.156138e-02  5.833923e-01
##   [8446,]  5.586455e-01 -3.912738e-01 -3.718028e-02  5.042370e-01
##   [8447,] -8.812960e-01  1.080770e+00 -1.255147e-01  6.927992e-01
##   [8448,] -1.842848e+00  1.970403e+00 -9.703194e-01  5.455350e-01
##   [8449,] -7.276576e-01 -1.695414e+00  8.943513e-01  2.416754e+00
##   [8450,] -5.600685e-01  1.091778e+00  9.202876e-01  1.082571e+00
##   [8451,]  4.949987e-01  8.733663e-01 -4.983912e-01  6.863753e-01
##   [8452,]  1.043025e+00 -5.116905e-01 -1.502929e+00  3.181425e-01
##   [8453,] -9.197855e-01  3.116037e+00 -3.179508e-02  2.171628e+00
##   [8454,] -1.632888e+00 -1.469479e+00 -1.100930e+00  8.190089e-01
##   [8455,] -7.241874e-01  2.241162e-02  1.525369e+00  2.063068e+00
##   [8456,] -1.585552e+00  1.963240e-01  1.348307e+00  4.955260e-01
##   [8457,] -1.219821e-01 -6.532824e-01 -1.598406e+00  2.788270e+00
##   [8458,] -2.649648e+00  6.800440e-01 -9.678149e-01  1.685359e+00
##   [8459,]  5.923974e-02  3.850766e-01 -1.037890e+00  3.186136e+00
##   [8460,] -9.519218e-01 -1.569575e+00 -1.289518e+00  2.452824e+00
##   [8461,] -6.207837e-01 -4.038308e-01 -1.864472e+00  1.603479e+00
##   [8462,]  5.844215e-01 -3.324392e-01 -9.977512e-02  6.688415e-01
##   [8463,] -1.533283e+00 -7.131450e-01  1.228467e+00  7.929840e-01
##   [8464,] -6.260971e-01 -1.431197e+00  1.116838e+00  1.080429e+00
##   [8465,] -5.738848e-02  3.945823e-02 -2.108755e-01  2.528040e+00
##   [8466,] -2.191266e+00  2.932437e+00 -7.999411e-01  1.308582e+00
##   [8467,]  8.033398e-01 -5.607012e-01 -5.023988e-01  9.278240e-01
##   [8468,] -6.531830e-02 -6.762067e-01  1.229199e+00  7.267411e-01
##   [8469,] -6.962441e-01 -3.521013e-01 -2.117072e+00  1.412850e+00
##   [8470,]  6.746364e-01 -9.870237e-01  1.348497e+00  5.995827e-01
##   [8471,] -9.602763e-01  4.673278e-01  5.789419e-01  2.091709e+00
##   [8472,]  4.088433e-01  9.848771e-01  2.005595e-01  3.937899e-01
##   [8473,]  3.365010e-01 -7.402651e-01  1.489905e+00  2.212844e+00
##   [8474,]  8.470060e-01  2.068967e-01 -6.064919e-01  1.490037e+00
##   [8475,]  7.543585e-01 -7.367902e-02  1.042716e+00  9.298378e-01
##   [8476,] -4.848358e-01  1.121380e+00  1.528865e+00 -4.359857e-02
##   [8477,] -5.666191e-01 -7.700052e-01  9.167886e-01  1.315514e+00
##   [8478,] -2.734359e+00  5.571254e-01 -2.781841e-01  1.469569e+00
##   [8479,]  6.409630e-01  1.196708e-01 -3.922345e-01  7.942147e-01
##   [8480,]  8.683818e-01  2.883225e+00 -1.276281e+00 -1.972887e-01
##   [8481,]  5.832511e-01 -5.245418e-01 -1.596663e+00  4.849036e-01
##   [8482,] -1.790937e+00  1.018978e+00 -2.947845e-01  6.239853e-01
##   [8483,] -2.192393e-01  1.167778e+00 -2.150345e-01  5.800093e-01
##   [8484,]  5.382280e-01 -3.569731e-01 -4.478913e-01  8.578707e-01
##   [8485,]  2.986106e-02  2.088161e+00  9.235345e-01  8.831415e-01
##   [8486,]  5.975031e-01  3.494992e-01  1.195963e+00  6.856991e-01
##   [8487,]  8.648824e-01 -1.336003e-01 -3.053401e-01  3.087169e+00
##   [8488,]  1.795558e-02 -7.884911e-01 -4.314794e-01  2.700965e+00
##   [8489,]  1.333120e+00 -1.992486e-01  1.420722e-01  7.966737e-01
##   [8490,]  4.754126e-01  4.840735e-01 -2.119440e-01  7.796404e-01
##   [8491,] -3.046899e-01 -1.235436e+00  3.245372e-01  2.263202e+00
##   [8492,] -8.530061e-01  1.761677e+00 -1.674047e+00  2.878930e-01
##   [8493,] -9.383089e-01 -2.662822e-01  7.902067e-02  3.040668e+00
##   [8494,]  1.970233e-01  2.602623e-01 -8.996799e-01  1.866695e+00
##   [8495,]  2.261087e-01 -2.611196e-01 -7.145757e-03  9.597330e-02
##   [8496,] -1.435826e+00  7.550029e-01 -2.521085e-01  1.206959e+00
##   [8497,] -2.437243e-01  6.145046e-01 -2.565205e-01  6.258377e-01
##   [8498,]  1.136774e+00  1.720389e-01  4.280193e-01  6.948869e-01
##   [8499,] -6.588996e-01  6.475213e+00  9.272302e-01  1.449101e+00
##   [8500,]  4.171404e-01  1.515787e+00  3.503775e-01  3.755901e-01
##   [8501,]  6.689174e-01 -2.422154e-01  8.716635e-01  1.265633e+00
##   [8502,] -8.724172e-01 -6.712368e-01  4.406355e-01  5.516919e-01
##   [8503,]  6.085423e-01  3.046446e-01 -4.323708e-01  1.105948e+00
##   [8504,] -1.230770e-01  2.714034e-01 -1.199235e+00  5.585152e-01
##   [8505,]  1.050706e+00 -1.026480e+00  1.686812e+00 -7.192926e-02
##   [8506,] -5.934243e-01  7.761043e-01 -4.240571e-01  9.277211e-01
##   [8507,]  1.446084e-01 -1.694047e-01  7.173758e-01  3.143157e+00
##   [8508,] -1.314841e+00  9.398991e-01  5.968131e-01  1.037714e+00
##   [8509,] -1.009759e+00 -8.874879e-01 -3.476324e-01  2.735814e+00
##   [8510,] -4.778067e-01 -5.010667e-01 -6.318163e-01  1.961690e+00
```

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##   [8511,]  1.369278e-02  8.400470e-01 -3.756824e-01  8.540975e-01
##   [8512,] -9.205544e-01 -5.743970e-01 -1.498874e+00  2.988434e+00
##   [8513,] -8.540999e-01 -6.781358e-01 -4.274068e-01  7.962804e-01
##   [8514,]  4.260753e-01  1.554948e+00 -3.087858e-01  6.548001e-01
##   [8515,]  1.320877e+00  3.395482e-01 -1.441209e+00  7.013141e-01
##   [8516,]  2.925241e-01  1.720068e+00  1.713356e+00 -4.172930e-01
##   [8517,]  1.411073e+00  9.370101e-01  8.546848e-01  1.185789e+00
##   [8518,]  2.536356e-01  7.921869e-01 -3.600799e-01  3.314254e+00
##   [8519,]  2.632321e-01 -1.084890e+00  1.042560e-01  1.924621e+00
##   [8520,] -1.977298e-01 -8.986481e-01 -1.242587e+00  2.149594e+00
##   [8521,]  5.725885e-01 -3.989455e-01  1.374558e+00  4.321800e-01
##   [8522,]  1.497426e+00 -1.182499e-01  1.011009e+00  9.740538e-01
##   [8523,]  4.700714e-01 -4.886421e-01  1.328155e+00  2.550677e+00
##   [8524,] -2.666869e+00  1.048847e+00 -9.317637e-01  1.665540e+00
##   [8525,] -7.335329e-01  1.285870e+00  1.125174e+00  5.957125e-01
##   [8526,]  3.376370e-01  3.498695e+00  1.166957e+00  2.442099e+00
##   [8527,] -1.031681e+00  3.244754e+00 -1.509063e-01  2.175995e+00
##   [8528,]  1.270052e+00  1.826229e-01 -1.393930e+00  6.878393e-01
##   [8529,]  5.100468e-01 -7.663819e-01  1.447199e+00  2.286627e+00
##   [8530,]  6.681520e-02 -2.209716e-02 -3.365080e-01  1.526936e+00
##   [8531,] -1.343017e+00  4.699484e-01 -2.657508e-01  9.013872e-01
##   [8532,] -1.477267e+00 -8.001306e-01  1.070056e+00  1.126011e+00
##   [8533,] -6.386098e-01  5.456051e-01 -2.600290e-01  8.185780e-01
##   [8534,] -2.394918e+00 -1.781766e-01  8.083078e-01  5.218557e-01
##   [8535,] -1.324493e-01  1.447126e+00  1.430002e+00  2.106333e+00
##   [8536,]  1.034788e+00  1.009618e+00  9.400351e-01  2.860918e-01
##   [8537,]  7.280617e-01  2.740734e-01 -1.779434e+00  2.746143e+00
##   [8538,] -1.231042e+00 -9.059449e-01  8.310469e-01  1.513229e+00
##   [8539,]  1.373746e+00  1.355063e+00 -1.772350e+00  9.278133e-01
##   [8540,] -5.713849e-01 -1.913540e-01 -1.679878e-01  3.179414e+00
##   [8541,]  5.105834e-01 -8.616973e-01  2.217219e-01  2.588060e+00
##   [8542,] -8.465867e-01  1.808183e-02  7.999621e-01  2.142437e-01
##   [8543,] -7.448995e-01 -8.323227e-01 -1.222341e-01  2.881766e+00
##   [8544,] -1.661071e-02 -7.746711e-01  1.267788e+00  7.142898e-01
##   [8545,] -1.504847e+00  2.389363e+00 -1.562893e+00  2.317969e+00
##   [8546,]  1.300030e+00  6.099438e-03 -1.873568e-01  9.074057e-01
##   [8547,] -5.728626e-01  2.041640e+00 -2.192350e-01  7.940509e-01
##   [8548,]  2.304687e-01 -1.052638e+00 -1.102195e+00  1.469099e-02
##   [8549,] -3.113681e-02  2.964182e+00 -2.654052e-02  2.543494e+00
##   [8550,] -1.419524e+00  8.529660e-01 -1.829442e-01  2.603806e+00
##   [8551,] -2.313113e+00  1.721797e-03  4.953626e-01  3.005187e+00
##   [8552,] -4.995540e-01 -8.032332e-01  9.185151e-01  1.269175e+00
##   [8553,] -6.310519e-01 -2.961514e-01  8.936530e-01  3.258958e+00
##   [8554,] -6.358194e-01  2.007690e+00  1.590209e+00 -2.980879e-01
##   [8555,]  1.215255e+00 -2.762090e-01  1.230274e+00  2.547834e+00
##   [8556,] -1.275245e+00  8.755709e-02  1.061760e+00  2.879621e+00
##   [8557,]  1.130147e+00 -3.945175e-01 -2.620724e-01  2.401024e+00
##   [8558,] -6.946840e-01 -3.258203e-01 -2.060543e+00  3.252303e+00
##   [8559,] -3.644400e-01 -2.781271e-01 -1.507992e+00  2.114844e-01
##   [8560,] -9.993022e-01 -1.316172e+00  7.664442e-01  2.738001e+00
##   [8561,] -2.409544e+00 -1.551508e-01  1.285270e+00  5.291292e-01
##   [8562,]  8.023569e-02 -7.990629e-01 -1.063277e+00  2.842662e+00
##   [8563,]  7.878272e-01 -1.068724e-01  1.026537e+00  3.028609e+00
##   [8564,] -2.111841e-01 -1.660009e-01  9.576938e-02  8.177997e-01
##   [8565,] -1.131131e+00  2.074687e+00  2.982930e-01  1.343624e+00
##   [8566,] -6.118591e-01 -1.945683e-01  4.429716e-01  3.086943e+00
##   [8567,] -6.886281e-01 -8.290731e-01 -1.570317e-01  9.639178e-01
##   [8568,]  2.651168e-01 -9.412367e-02  5.824291e-01  1.819554e+00
##   [8569,] -6.733388e-01  1.832649e+00  1.064169e+00  6.016385e-01
##   [8570,]  4.800580e-01 -7.595314e-01  1.457749e+00  2.312064e+00
##   [8571,] -1.764368e-01  6.459062e-01 -1.943049e-01  2.368037e-01
##   [8572,]  6.880386e-01  1.406839e-01 -1.555348e+00  2.558682e+00
##   [8573,]  1.085406e+00  2.108828e+00 -2.062563e-01  2.430990e+00
##   [8574,]  1.314667e+00  5.356945e-01  7.988689e-02  1.015289e+00
##   [8575,] -1.885273e-01 -1.649345e+00 -1.147728e+00  2.257899e-01
##   [8576,]  2.054956e-01 -9.974416e-03  8.301446e-01  3.302217e+00
##   [8577,] -8.032363e-01  6.256449e-01  1.289984e+00  3.529220e-01
##   [8578,] -1.785990e+00  1.106813e+00  1.233444e+00  2.496256e+00
##   [8579,]  1.024538e+00  1.769322e-02  1.310932e+00  4.220873e-01
##   [8580,] -5.312001e-01 -1.127467e+00  1.104716e+00  2.972428e+00
##   [8581,] -7.986509e-01  3.838310e-01 -8.780724e-01  4.411441e-02
##   [8582,]  1.398251e-01 -5.459901e-01  6.374825e-01  1.212983e+00
##   [8583,]  5.192634e-01 -9.184473e-01 -6.437038e-02  5.733978e-01
##   [8584,]  2.207388e-01  4.023872e-01  1.010730e+00 -3.133359e-01
##   [8585,]  1.428927e+00  3.698667e-01  9.508769e-03  1.140134e+00
##   [8586,]  6.274560e-01 -7.129460e-01 -9.665932e-01  2.305623e+00
##   [8587,]  4.345827e-02  3.408953e-01  1.004783e+00  1.005516e+00
##   [8588,] -1.761456e-01 -6.116081e-01  1.337386e+00  4.753542e-01
##   [8589,]  1.969699e-01 -1.493452e-01 -4.087240e-01  1.110523e+00
##   [8590,]  1.366162e+00 -1.520886e-01 -1.821305e-01  2.381007e+00
##   [8591,]  6.876413e-01  9.018131e-02  9.234510e-01  3.162707e+00
##   [8592,] -7.434954e-01  2.550706e-01 -2.344502e-02  3.497808e+00
##   [8593,] -1.757953e+00  4.016329e-01  1.355740e+00  3.419935e-01
##   [8594,]  1.060084e+00  4.747031e-01  1.174385e+00  5.730185e-01
##   [8595,]  1.080671e+00  1.218261e+00 -2.020823e-01  5.553921e-01
##   [8596,] -3.290304e-01  1.007066e+00  4.209802e-02  2.621360e-01
##   [8597,] -2.977867e-01 -1.791150e-01 -1.159723e-01  1.719407e-01
##   [8598,] -3.778465e-01 -3.486191e-01  7.043567e-01  1.616730e+00
##   [8599,]  6.497512e-01  4.293287e-02 -1.461973e+00  1.179825e+00
##   [8600,]  3.864011e-01 -1.028927e+00  1.561337e+00  1.299336e-01
##   [8601,]  1.301495e+00  2.408874e-01 -9.315867e-01  6.789653e-01
##   [8602,] -2.359683e+00  6.012289e-01  1.128730e+00  7.369293e-01
##   [8603,] -1.378209e+00 -5.916618e-01 -5.996082e-01  1.798067e+00
##   [8604,]  7.681917e-02 -3.113468e-01 -6.481359e-01  3.114078e+00
##   [8605,]  6.493648e-02  6.776198e-01  5.199570e-01  2.721292e+00
##   [8606,]  2.355168e-01  1.459058e+00  1.350639e+00 -6.582347e-04
##   [8607,]  1.319043e+00  4.099925e-01  4.915209e-01  2.859193e+00
##   [8608,]  8.970589e-02 -2.578526e-01 -2.742821e-01  1.017954e+00
```

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##   [8609,] -6.186026e-01 -6.186442e-01 -1.372792e-01  9.479416e-01
##   [8610,]  1.070220e+00 -4.453045e-02 -8.594282e-02  4.595816e-01
##   [8611,] -1.548653e+00  1.182723e+00  1.298019e+00  3.083530e-01
##   [8612,]  8.221063e-01 -8.110868e-02 -1.161429e+00  1.258242e+00
##   [8613,] -1.094574e+00  1.447479e+00  7.084030e-01  1.648852e+00
##   [8614,] -8.382895e-01  1.007513e+00  1.354741e+00  2.888888e-01
##   [8615,]  4.947050e-01 -2.874640e-01  1.126146e+00  8.302484e-01
##   [8616,]  6.312620e-01  3.244509e-01  7.441057e-01  7.743296e-01
##   [8617,]  4.869450e-01  3.555993e-01  1.046902e+00  8.893295e-01
##   [8618,] -4.905837e-01 -3.690167e-01 -3.917980e-01  3.094321e+00
##   [8619,]  2.758926e-02 -4.502602e-04 -2.360461e-01  9.009302e-01
##   [8620,] -2.941169e-01  3.337853e+00 -2.318336e-01  2.910644e-01
##   [8621,]  2.051828e-01 -1.433285e-01 -1.395306e+00  1.310516e+00
##   [8622,] -1.493500e+00  1.579880e-01 -1.701675e-02  6.821539e-01
##   [8623,] -3.274925e-01 -8.923704e-01  6.337917e-03  4.872009e-01
##   [8624,]  6.735078e-01 -1.827894e-01 -1.272496e+00  7.752647e-01
##   [8625,] -1.779673e-01  1.445653e+00 -1.635759e+00  5.541507e-01
##   [8626,]  5.665168e-01  7.614894e-02  4.438048e-02  9.739556e-01
##   [8627,]  6.289263e-01 -5.103158e-01 -9.222832e-01  6.082291e-01
##   [8628,] -6.614755e-01  1.612397e+00 -3.913777e-01  8.428957e-01
##   [8629,]  2.430312e-01 -5.185557e-01 -4.094460e-01  1.120711e+00
##   [8630,] -6.211080e-01 -4.587979e-01  1.053117e+00  1.007686e+00
##   [8631,] -4.366574e-01  1.556490e+00  1.525947e+00 -1.094521e-01
##   [8632,]  1.345253e+00  1.300222e+00  7.553247e-01  2.949994e+00
##   [8633,]  1.144374e+00  1.772235e-01 -1.164308e-01  2.540570e+00
##   [8634,] -8.549009e-01 -1.943996e+00  1.795665e-01  2.292190e+00
##   [8635,]  1.384039e+00  8.585890e-02 -1.769957e+00  2.936811e+00
##   [8636,] -5.224763e-01 -4.239205e-01 -2.023014e+00  1.610360e+00
##   [8637,] -1.479179e+00  1.015209e+00 -5.132868e-02  8.516530e-01
##   [8638,] -2.102387e+00  9.849770e-01 -7.146579e-01  1.553305e+00
##   [8639,] -4.839887e-02  2.471717e-01  1.266049e+00  5.528014e-01
##   [8640,] -9.715934e-01  7.918027e-01  8.959795e-01  1.247110e+00
##   [8641,]  4.196072e-01 -5.475902e-02 -1.024171e+00  3.730706e-01
##   [8642,]  1.193145e+00  7.825591e-01  1.110590e+00  7.686630e-01
##   [8643,] -5.886350e-01  1.365627e+00 -1.081984e+00  2.521569e+00
##   [8644,]  6.491959e-01  1.225275e-01 -1.707713e+00  9.430238e-01
##   [8645,] -5.217774e-02  4.555086e-01 -1.472733e+00  5.099010e-01
##   [8646,] -1.237628e+00  1.887741e-01  1.820075e-01  9.037731e-01
##   [8647,]  8.066028e-01 -6.458022e-02 -5.866373e-01  9.997089e-01
##   [8648,] -1.005241e+00  1.892706e+00 -1.031172e+00  2.330216e+00
##   [8649,] -8.151349e-02  1.693222e+00  1.176270e+00  2.401019e+00
##   [8650,] -7.674509e-01  9.848770e-01 -7.935354e-01  1.637178e+00
##   [8651,]  5.724882e-01 -2.351610e-01 -1.412895e+00  2.341752e+00
##   [8652,]  6.602552e-02 -7.862329e-01  1.095996e-01  2.820873e+00
##   [8653,]  2.948129e-01  9.858530e-01 -4.387472e-01  1.409068e+00
##   [8654,] -7.931114e-02 -1.340880e+00 -1.384764e+00  5.461900e-01
##   [8655,]  2.874411e-02 -7.883054e-01 -6.522877e-02  2.640556e+00
##   [8656,] -1.767434e-01 -2.917710e-01  1.177164e+00  7.270476e-01
##   [8657,]  1.032131e+00 -5.311377e-01  1.495640e+00  2.186832e+00
##   [8658,] -2.476587e+00  1.558899e+00  9.808656e-01  9.733170e-01
##   [8659,]  7.480676e-01 -6.010413e-01  1.164862e+00  8.364434e-01
##   [8660,] -1.802771e+00  8.301451e-01 -2.202335e-01  2.324827e-01
##   [8661,]  5.138375e-01 -1.204659e+00 -4.217893e-01  3.780236e-01
##   [8662,] -2.948231e-01  1.133866e-02 -7.963907e-01  1.276145e-01
##   [8663,] -5.799514e-01 -1.485037e-01 -5.239088e-02  1.338036e+00
##   [8664,] -1.561140e+00  5.988673e-01 -4.067035e-01  1.139090e+00
##   [8665,] -2.803226e-01 -9.357957e-01 -1.033038e-02  5.827444e-01
##   [8666,]  1.452810e+00  6.336219e-01  9.378803e-01  1.102301e+00
##   [8667,] -1.714012e-01 -1.281235e+00  1.470443e-01  3.698676e-01
##   [8668,]  8.462908e-01  5.760885e-01 -1.190212e-01  3.016200e+00
##   [8669,] -2.607440e+00  2.092676e-01  1.342346e+00  2.345586e+00
##   [8670,]  2.440348e-01  1.044446e-01  3.982876e-01  3.074947e+00
##   [8671,] -1.615355e+00  5.242990e-01  1.392998e+00  4.449555e-01
##   [8672,] -1.606861e+00 -1.330435e+00 -1.727545e+00  8.983692e-01
##   [8673,] -7.374027e-01 -1.273957e+00 -8.662468e-01  5.729820e-01
##   [8674,]  1.195259e+00  7.097004e-01 -5.032540e-01  2.693706e+00
##   [8675,] -7.337045e-01 -9.472615e-01  1.215804e+00  8.689873e-01
##   [8676,] -2.441020e+00 -2.859144e-01 -8.133868e-01  2.401633e+00
##   [8677,] -6.901104e-01  4.731941e-01  1.097877e+00  2.747389e+00
##   [8678,]  4.945149e-01  1.287422e+00 -4.449228e-01  6.966747e-01
##   [8679,]  3.487473e-01  7.208090e-01  7.760792e-01  1.890330e-01
##   [8680,]  6.606225e-01 -2.933666e-01  1.105265e+00  8.828304e-01
##   [8681,] -1.535517e+00  1.442335e+00 -3.987292e-01  8.130683e-01
##   [8682,] -5.066535e-02 -5.741087e-01  1.024259e+00  7.676201e-01
##   [8683,] -8.046892e-02  2.768233e-01  1.228898e+00  2.620351e+00
##   [8684,]  5.664916e-01  1.621754e+00  1.065082e+00  1.308387e+00
##   [8685,] -1.206290e-01 -1.253672e+00  1.657877e-01  2.319524e+00
##   [8686,]  7.752492e-01 -1.348319e-01 -1.172624e+00  1.011186e+00
##   [8687,]  5.235161e-01 -1.166377e+00  1.413535e+00  4.416721e-01
##   [8688,] -8.228167e-01 -7.632102e-01  8.710296e-01  1.436061e+00
##   [8689,] -1.157287e+00  1.780496e+00  1.340744e+00  1.566443e-01
##   [8690,]  2.175721e-01  1.467946e+00  1.520345e+00  1.671808e+00
##   [8691,]  1.195041e+00  3.727003e-01 -2.088735e-01  4.272335e-01
##   [8692,]  4.880158e-01 -1.165284e+00  2.033001e-01  1.371920e-01
##   [8693,] -1.623197e+00  1.719607e+00 -2.287856e-01  2.401311e+00
##   [8694,] -1.526758e-01  2.154823e+00 -2.645987e-01  5.829278e-01
##   [8695,] -1.767605e+00 -9.533103e-01 -1.363585e+00  7.896430e-01
##   [8696,] -1.641136e-01  9.372032e-02 -1.605548e+00  7.341148e-01
##   [8697,] -7.541722e-01  1.814241e+00  1.064000e+00  6.148012e-01
##   [8698,] -1.086530e-01 -1.008254e+00  6.743096e-02  4.533887e-01
##   [8699,] -1.430078e+00  1.654756e+00 -3.843882e-01  1.044173e+00
##   [8700,] -6.392658e-01  7.559306e-01 -1.657445e-01  7.118079e-01
##   [8701,] -8.928437e-02 -1.654913e-01 -1.122628e+00  1.135671e+00
##   [8702,] -1.566649e+00  4.300804e-01 -1.941375e+00  1.049211e+00
##   [8703,] -3.219628e-01  4.969084e-01  1.310621e+00  4.515571e-01
##   [8704,] -7.425031e-01 -6.436557e-01 -3.291934e-01  1.105192e+00
##   [8705,]  2.042188e-01 -7.082830e-01  1.121431e+00  2.885814e+00
##   [8706,] -1.410486e-01 -1.031857e+00 -6.834324e-01  2.169433e+00
```

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##   [8707,]  1.303216e+00  2.785993e-01  1.056871e+00  9.676448e-01
##   [8708,] -1.517977e+00  4.899659e-01 -1.511701e+00  1.200321e+00
##   [8709,] -1.117497e+00  1.689019e+00  7.560205e-01  2.086007e+00
##   [8710,]  6.867870e-01 -9.485212e-02  1.217536e+00  2.588318e+00
##   [8711,] -4.544570e-01 -7.831125e-01  8.755041e-01  1.374474e+00
##   [8712,] -9.213544e-01  1.800176e-01  1.155840e+00  2.214067e+00
##   [8713,] -5.147052e-01  2.173196e+00  1.305071e+00  5.223632e-02
##   [8714,] -9.163839e-01 -1.677229e+00 -7.420065e-01  2.351099e+00
##   [8715,] -2.366150e+00  1.360801e+00 -1.379218e+00  9.451236e-01
##   [8716,] -9.191575e-01 -9.570636e-02 -1.141248e-01  7.349878e-01
##   [8717,]  8.349405e-01  1.384754e-01  8.519883e-01  1.258336e+00
##   [8718,] -1.420825e+00  4.353586e-02 -9.006474e-01  8.446623e-01
##   [8719,]  5.360294e-01 -1.140527e-01  5.444138e-01  9.264772e-01
##   [8720,] -7.621259e-01 -2.193205e-01 -8.489802e-01  1.593070e+00
##   [8721,]  7.670704e-02 -5.048834e-01 -3.335507e-01  9.412616e-01
##   [8722,]  1.076022e+00 -7.422688e-01  1.191244e+00  4.431383e-01
##   [8723,]  2.058836e-01 -8.402651e-01  1.424471e+00  4.995220e-02
##   [8724,]  8.547878e-02 -7.651275e-01 -2.637122e-01  9.691841e-01
##   [8725,]  6.087679e-01 -4.603459e-01  2.869914e-01  2.661481e+00
##   [8726,] -1.894739e+00  1.643808e+00 -2.596534e-01  4.526133e-01
##   [8727,] -4.422992e-01  1.645545e+00 -1.986044e-01  1.933155e+00
##   [8728,]  1.168997e+00  6.074230e-01 -1.223849e-01  6.702713e-01
##   [8729,]  1.257751e+00  1.130744e+00  1.547877e-01  9.201079e-01
##   [8730,] -9.769729e-01 -3.077203e-01 -1.134089e-02  2.356907e+00
##   [8731,] -1.317612e+00  1.281637e+00  9.162393e-01  1.252980e+00
##   [8732,] -2.779339e-01  1.375589e+00  1.146506e+00  2.340139e+00
##   [8733,] -9.891600e-01 -8.721666e-01  1.169146e+00  2.850550e+00
##   [8734,] -8.425514e-01 -1.702245e+00  9.224652e-01  5.012958e-01
##   [8735,] -8.255680e-01 -2.928280e-01  8.587159e-01  9.670862e-01
##   [8736,] -8.851469e-01  2.901326e+00  3.626886e-01  2.287560e+00
##   [8737,]  6.566629e-01 -1.037613e+00  1.405084e+00  2.394999e+00
##   [8738,] -9.123973e-01  1.065638e+00 -3.095936e-01  2.928766e+00
##   [8739,] -7.922644e-01  2.652469e+00  8.677477e-01  1.104084e+00
##   [8740,]  2.155173e-01  2.388243e-01 -4.607937e-01  2.993706e+00
##   [8741,]  1.475929e+00  1.088100e-01  8.742998e-01  1.246581e+00
##   [8742,]  1.282537e+00  1.668240e-01  9.797768e-02  2.706089e+00
##   [8743,]  1.006819e-01  1.138845e+00  5.404912e-01  8.864636e-01
##   [8744,] -1.037209e+00  1.409545e-01 -3.450463e-01  2.876548e+00
##   [8745,] -1.949816e-01  1.459055e+00 -1.153908e-01  3.527184e-01
##   [8746,]  4.060493e-02  1.332309e+00 -1.644351e+00  6.408588e-01
##   [8747,]  1.082317e+00 -3.015122e-01  1.482426e+00  1.144415e-01
##   [8748,] -1.322406e+00  5.692750e-01 -5.294794e-01  1.388677e+00
##   [8749,]  3.213283e-01 -6.244544e-01  5.412067e-01  3.336434e-01
##   [8750,] -4.533384e-01 -5.526700e-01  7.371807e-01  1.617185e+00
##   [8751,]  1.452196e+00  2.490334e-01 -1.924738e+00  1.282745e+00
##   [8752,]  3.790631e-02 -1.112694e+00 -1.163115e+00  2.376026e+00
##   [8753,]  1.308184e+00 -6.596041e-02  3.707546e-01  2.598575e+00
##   [8754,]  6.796885e-02  3.688509e-01  1.012574e+00  8.795107e-01
##   [8755,]  1.212929e+00 -7.178495e-01  8.174245e-01  4.873900e-01
##   [8756,] -8.791350e-01  7.610800e-01  9.487598e-01  9.736177e-01
##   [8757,] -9.514656e-01  2.100827e+00  1.316587e+00  2.463536e-01
##   [8758,]  1.434287e-01  9.458011e-01  4.634104e-01  1.234290e+00
##   [8759,]  1.367773e-01 -1.113958e-02  9.621635e-01  1.178639e+00
##   [8760,] -1.562271e+00  3.352290e-01 -4.368544e-01  1.074347e+00
##   [8761,]  1.076195e+00 -2.744804e-01 -1.179455e+00  2.275910e+00
##   [8762,]  1.152213e+00 -3.684222e-02  1.254597e+00  2.543485e+00
##   [8763,] -7.023735e-01 -3.098452e-01  1.169251e+00  8.178114e-01
##   [8764,] -8.133498e-01  7.205966e-02 -8.812112e-01  2.021536e+00
##   [8765,] -1.290921e-01 -1.216814e+00  1.349983e+00  2.547556e+00
##   [8766,]  9.785397e-01  2.666711e-01  7.568105e-01  1.495968e+00
##   [8767,]  5.592905e-01 -2.278709e-01 -7.750762e-01  5.948818e-01
##   [8768,]  1.193706e+00  4.470462e-01  1.087995e+00  2.607676e+00
##   [8769,] -4.966267e-01  4.362021e-01  9.718081e-01  2.612792e-01
##   [8770,]  2.641385e-01  4.522523e-02 -1.302781e+00  1.474980e+00
##   [8771,] -2.463583e-01 -9.983886e-01  1.191998e-01  2.280411e+00
##   [8772,] -1.270945e-01 -2.404975e-01  1.276932e+00  2.474267e+00
##   [8773,]  7.911374e-02  4.424300e-01 -1.668640e+00  1.066221e+00
##   [8774,] -8.903879e-01 -3.830486e-01 -1.411027e+00  9.153769e-01
##   [8775,] -8.956997e-01 -1.055361e+00 -1.564993e+00  2.456554e+00
##   [8776,] -2.911349e+00 -8.475015e-01  1.189970e+00  9.080001e-01
##   [8777,]  7.343710e-01 -4.699867e-01 -1.736335e+00  7.475998e-01
##   [8778,]  1.195897e+00  1.656532e+00  1.312858e+00  4.032988e-01
##   [8779,] -8.246610e-01  2.045324e+00  7.694202e-01  2.075221e+00
##   [8780,] -1.253187e-01  5.336391e-01  1.194281e+00  7.387545e-01
##   [8781,] -6.174360e-01  1.112804e+00  9.598960e-01  9.572923e-01
##   [8782,] -7.826591e-02 -1.050232e+00 -1.194674e+00  2.424157e+00
##   [8783,] -1.448991e+00  1.606464e+00 -5.049412e-01  2.765614e+00
##   [8784,]  7.035158e-02  2.905710e-02 -1.643441e+00  1.512147e+00
##   [8785,] -1.625973e-01  1.978443e+00 -5.772158e-02  4.470752e-01
##   [8786,]  6.718228e-01  2.280699e+00  7.461718e-01  1.062335e+00
##   [8787,]  9.718893e-01  2.328426e-01  6.888583e-01  1.591912e+00
##   [8788,]  1.151678e+00  1.150191e+00  1.088946e-01  8.397390e-01
##   [8789,]  1.374242e+00  2.302296e-01  9.845591e-01  1.016576e+00
##   [8790,] -6.895664e-01  1.152165e-02  1.255179e+00  6.320458e-01
##   [8791,] -6.436875e-01  1.512703e+00  4.716817e-01  8.164686e-01
##   [8792,]  8.878027e-01  2.133570e+00  1.343958e-01  2.169737e+00
##   [8793,]  1.058191e+00  1.204903e-02 -1.373103e+00  2.261909e+00
##   [8794,]  8.851188e-01  1.089304e+00 -7.906214e-01  1.309334e+00
##   [8795,]  6.581098e-01  2.517900e-01 -4.967958e-01  7.865171e-01
##   [8796,] -7.543758e-01  8.880489e-01  5.719060e-01  2.392990e+00
##   [8797,]  1.760763e-02  6.242059e-01 -1.729591e+00  9.124965e-01
##   [8798,]  9.443374e-01  3.098009e+00 -1.039996e+00  8.652871e-02
##   [8799,] -1.723110e+00 -3.149752e-01  1.639365e-02  2.460078e+00
##   [8800,]  5.279160e-01  3.290456e-01 -1.113165e+00  2.759961e+00
##   [8801,] -1.180711e+00 -1.461649e+00  1.753123e-01  2.295614e+00
##   [8802,] -3.027158e-01  2.847559e+00 -4.117631e-01  3.221665e-01
##   [8803,] -8.632336e-01  6.086192e-01  1.151611e+00  5.738949e-01
##   [8804,]  4.666981e-01  6.959579e-01  1.186021e+00  6.321443e-01
```

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##   [8805,] -4.819142e-02 -7.862167e-01  1.172043e+00  7.725173e-01
##   [8806,]  1.501607e+00  9.870593e-01  8.879236e-01  1.105489e+00
##   [8807,] -1.381496e+00 -2.276921e-01  1.443061e+00  1.746790e-01
##   [8808,]  5.056198e-01  4.007404e-01 -8.976597e-01  3.352141e-01
##   [8809,] -6.078919e-01  1.178745e+00  6.107928e-01  8.811680e-01
##   [8810,]  2.973223e-01 -3.664844e-01 -4.556937e-01  1.308786e+00
##   [8811,] -5.872283e-02 -4.109735e-01 -2.479405e-01  9.666827e-01
##   [8812,]  1.895679e-02  3.511955e-01 -1.835242e+00  9.528841e-01
##   [8813,] -9.112354e-01  1.656516e+00 -2.964235e-01  2.540054e-01
##   [8814,]  8.396867e-03 -4.616764e-01 -1.222399e+00  2.385877e+00
##   [8815,] -5.306781e-01 -5.979333e-01  8.535201e-01  3.032666e+00
##   [8816,]  8.272362e-01  3.632141e-01 -6.153663e-01  1.323904e+00
##   [8817,]  7.320219e-01  1.147279e+00  8.788298e-01  1.031754e+00
##   [8818,] -2.772060e-01  1.594807e+00  2.426765e-01  4.839994e-01
##   [8819,] -4.709494e-02 -1.433082e+00 -5.917622e-01  2.360363e+00
##   [8820,] -7.573489e-01  1.937505e+00 -1.839393e+00  8.386715e-01
##   [8821,] -4.227781e-01  1.135039e+00 -1.177157e+00  2.846306e-01
##   [8822,]  8.522764e-01  6.190624e-01 -1.955304e+00  1.377837e+00
##   [8823,] -1.346239e+00  7.152123e-01  9.014912e-01  9.200375e-01
##   [8824,]  5.190247e-01 -8.058101e-01  2.477726e-01  2.150639e+00
##   [8825,]  1.363158e-01  1.719853e-01 -5.403606e-01  9.393732e-01
##   [8826,] -1.564081e+00 -1.447061e+00  1.222180e+00  8.549509e-01
##   [8827,]  1.014805e+00  5.315168e-01  1.501947e+00  2.003850e+00
##   [8828,]  8.227855e-01  8.234833e-02  9.741724e-01  3.041812e+00
##   [8829,]  5.615156e-01 -3.307639e-01 -1.350868e+00  6.797203e-01
##   [8830,]  3.625992e-01 -1.199191e+00  1.795234e+00  1.755395e+00
##   [8831,]  5.221390e-01 -4.288149e-01  1.396175e+00  4.108048e-01
##   [8832,] -2.749837e-02  2.638412e-01  1.036263e+00  9.369008e-01
##   [8833,] -8.670543e-01 -1.256286e+00 -1.488722e+00  2.712387e+00
##   [8834,] -1.045443e+00  1.454350e+00  1.284281e+00  3.729589e-01
##   [8835,]  7.956238e-01  2.909128e-01 -2.005175e+00  1.105178e+00
##   [8836,] -5.824301e-01  7.107551e-01  2.919123e-01  9.624412e-01
##   [8837,] -1.830664e+00  3.626100e-01  1.127860e+00  4.699389e-01
##   [8838,] -5.724212e-01 -5.829119e-01 -2.018884e+00  1.258352e+00
##   [8839,]  5.347219e-01  8.148299e-01 -3.857606e-02  5.582052e-01
##   [8840,]  1.394674e+00  1.433636e+00  1.149278e+00  2.826018e+00
##   [8841,]  3.449872e-01  1.353981e+00  6.808221e-01  1.612416e+00
##   [8842,] -8.885204e-01  2.693258e+00  2.874416e-01  1.963820e+00
##   [8843,]  6.975342e-01  9.742268e-01  9.860429e-01  1.001425e+00
##   [8844,]  1.171726e+00  1.406617e-01  1.134539e+00  7.825370e-01
##   [8845,]  1.508361e+00  3.875773e-01 -4.985293e-01  2.810892e+00
##   [8846,]  1.283192e+00 -2.068775e-01  8.160460e-01  4.127108e-01
##   [8847,] -2.604878e+00 -9.248321e-01  1.587511e-01  3.455024e-01
##   [8848,]  6.606395e-02  1.665858e-01 -2.020761e+00  1.097259e+00
##   [8849,]  1.469613e+00  1.629517e-01  2.316349e-01  1.080060e+00
##   [8850,]  9.911370e-01 -7.641065e-02 -1.162293e+00  2.625257e-01
##   [8851,]  5.949181e-01  1.747657e-02 -8.400486e-01  6.178868e-01
##   [8852,]  5.646666e-01 -2.779241e-01 -2.512791e-01  9.679006e-01
##   [8853,]  5.001980e-01  1.027906e-01 -2.490289e-01  6.073769e-01
##   [8854,] -3.369245e-01  3.555746e+00  1.459501e+00  7.962906e-02
##   [8855,] -1.150458e+00  1.121587e-01  1.680451e+00 -2.433718e-01
##   [8856,]  5.635803e-01 -6.119168e-02 -1.458289e-01  6.096227e-01
##   [8857,]  1.050070e+00  1.421668e+00  1.321929e+00  3.483350e-01
##   [8858,] -2.252032e-01  4.759665e-01 -3.330726e-02  4.676675e-01
##   [8859,] -3.973656e-02  2.189972e+00 -5.968668e-01  7.588201e-01
##   [8860,]  1.345423e+00  2.792901e-02 -4.922842e-01  2.712410e+00
##   [8861,]  4.775284e-01  3.159262e-01 -3.097451e-02  3.936215e-01
##   [8862,] -5.074724e-01  6.132410e-01  9.786397e-01  2.656874e+00
##   [8863,]  7.802714e-01 -4.226783e-02  1.632845e-01  2.985036e+00
##   [8864,] -1.514957e+00  1.749086e+00  1.160147e+00  4.640273e-01
##   [8865,] -5.308276e-01  1.975967e+00  1.067313e+00  2.745722e+00
##   [8866,]  7.335622e-01 -5.085240e-01  1.218654e+00  2.737699e+00
##   [8867,] -2.957580e+00 -6.865399e-01 -9.075429e-02  7.940194e-01
##   [8868,]  4.419755e-01  1.312003e+00 -1.879926e+00  8.076981e-01
##   [8869,]  7.092273e-01  1.102380e-01 -6.679960e-01  1.112221e+00
##   [8870,] -8.715275e-01  2.223208e+00 -2.370646e-01  9.119560e-02
##   [8871,]  1.295674e+00 -1.013121e-01  1.242184e+00  6.331097e-01
##   [8872,]  1.587622e-01 -2.007941e-01  9.911759e-01  1.024461e+00
##   [8873,] -2.452867e-01  4.976578e-01  9.958844e-01  8.863970e-01
##   [8874,] -1.271702e+00  1.038478e+00 -2.031592e+00  1.270702e+00
##   [8875,]  1.688350e-01 -2.737996e-01 -1.895114e+00  1.290800e+00
##   [8876,] -1.124263e+00  3.908825e-01 -1.037463e+00  2.128092e+00
##   [8877,]  1.401903e+00  2.185478e+00 -6.951559e-01  1.082176e+00
##   [8878,] -1.379095e+00  8.198972e-01 -1.750117e+00  1.012016e+00
##   [8879,]  1.551969e+00  4.559038e-01 -4.507924e-01  2.952135e+00
##   [8880,]  6.910058e-01  1.970731e-01  4.868272e-01  2.692788e+00
##   [8881,] -3.315478e-02 -2.623594e-01 -3.477895e-01  1.062772e+00
##   [8882,]  7.172012e-01 -7.028110e-01 -1.688131e+00  6.800434e-01
##   [8883,] -7.959837e-01  3.456148e-01  8.401927e-01  2.418500e+00
##   [8884,]  5.382035e-01 -5.769022e-01  7.513525e-02  3.235203e-01
##   [8885,] -8.660485e-02 -7.228483e-01  1.298256e+00  2.511552e+00
##   [8886,]  2.228710e-01  2.248136e-01  8.468959e-01  1.232049e+00
##   [8887,]  8.381597e-01 -5.937595e-02 -1.140361e+00  1.196363e+00
##   [8888,]  3.993284e-02 -3.748828e-02 -3.960908e-01  1.239852e+00
##   [8889,]  8.094668e-01 -8.387638e-02  1.052938e+00  2.888281e+00
##   [8890,] -7.497269e-01  1.087389e+00  6.950141e-01  2.440620e+00
##   [8891,]  3.694873e-01 -4.377605e-01  4.067753e-01  7.380566e-02
##   [8892,] -2.518146e+00 -6.311102e-01  2.104685e-01  1.740683e-01
##   [8893,]  1.290692e+00  9.149757e-01  8.236514e-01  1.181759e+00
##   [8894,]  7.427461e-01 -3.100051e-01  9.676598e-01  1.091504e+00
##   [8895,] -1.578146e+00  3.898527e-01 -1.881223e-01  2.312222e+00
##   [8896,]  7.972044e-02 -8.141428e-01  9.883774e-01  3.114482e+00
##   [8897,] -9.129750e-01 -7.379676e-01 -1.486346e+00  6.308729e-01
##   [8898,]  1.332607e+00  6.913064e-01 -4.388475e-01  9.294046e-01
##   [8899,]  1.015866e+00 -3.391440e-01 -1.674791e-01  2.926418e-01
##   [8900,] -6.455146e-02 -2.035096e-01  1.084817e+00  9.866414e-01
##   [8901,]  6.639453e-03  1.245726e+00  1.054089e+00  8.077588e-01
##   [8902,]  5.588622e-01  6.945556e-02  1.238530e+00  2.516395e+00
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##   [8903,] -2.332579e+00  1.971332e-01 -1.629128e+00  2.734418e+00
##   [8904,]  6.923730e-01  1.395055e+00  1.114531e-01  2.867111e+00
##   [8905,] -1.223713e+00  9.423972e-02 -6.948531e-01  1.597412e+00
##   [8906,]  9.031020e-01  2.193139e+00  1.252723e+00  1.374004e-01
##   [8907,]  5.565487e-01  6.466941e-01 -6.375290e-01  1.033101e+00
##   [8908,]  1.649339e-01 -2.828196e-01  3.104335e-01  1.000507e+00
##   [8909,] -8.810711e-01  9.158381e-01  8.503414e-01  2.869805e+00
##   [8910,]  4.923066e-01 -2.085268e-01 -1.649966e+00  5.228004e-01
##   [8911,]  6.436320e-01 -4.970036e-01  1.245744e+00  2.552025e+00
##   [8912,] -5.597217e-01 -9.826838e-01  9.877205e-01  1.288823e+00
##   [8913,]  1.201685e+00  6.125895e-01  1.067565e+00  7.882410e-01
##   [8914,]  6.385480e-01  4.011120e-01  3.719714e-01  7.902767e-01
##   [8915,] -1.922227e-01 -1.764070e-02 -1.564183e+00  4.154864e-01
##   [8916,] -8.400912e-01 -4.241277e-01  1.322811e+00  4.846344e-01
##   [8917,]  7.912847e-01  2.844883e-03 -4.613581e-01  1.227041e+00
##   [8918,]  1.260390e+00  2.490345e-02  1.213482e+00  2.551658e+00
##   [8919,]  1.097442e+00  2.256940e+00  1.150874e+00  2.414542e+00
##   [8920,]  4.823477e-01  9.364008e-01  1.170908e+00  5.979945e-01
##   [8921,] -2.025510e-01  7.099086e-01 -4.851074e-01  2.164090e+00
##   [8922,] -1.950547e+00 -4.962461e-01  6.078548e-01  1.872360e+00
##   [8923,]  6.094409e-02  2.914390e-01  5.177605e-02  1.122097e+00
##   [8924,]  6.740307e-01  1.260213e-01 -7.300818e-01  1.259071e+00
##   [8925,]  1.071594e+00 -8.840820e-01  1.459390e+00  2.251649e+00
##   [8926,] -9.722421e-01 -4.206672e-01 -2.200789e-01  2.919943e+00
##   [8927,] -3.261468e+00  1.174936e-01 -4.623977e-01  3.244183e+00
##   [8928,]  1.189505e+00  1.251103e-01 -9.782642e-01  5.138177e-01
##   [8929,] -7.467319e-01 -2.840472e-01 -1.377725e+00  1.087286e+00
##   [8930,] -1.494761e-01 -1.786938e+00  1.369589e+00  6.049714e-01
##   [8931,] -8.273805e-01 -9.530392e-01 -1.331104e-01  2.874824e+00
##   [8932,] -2.400140e+00  1.215642e+00  1.167646e+00  2.542452e+00
##   [8933,] -2.436653e-01  3.697616e-01 -6.046336e-01  8.070754e-02
##   [8934,]  1.256736e+00  5.898925e-01  1.227551e+00  2.693173e+00
##   [8935,]  7.916417e-01  7.718755e-01 -2.000956e+00  3.072660e+00
##   [8936,]  1.345514e+00  4.974127e-01  9.236902e-02  9.561448e-01
##   [8937,]  1.193134e+00  1.150709e+00 -2.375183e-01  6.715702e-01
##   [8938,]  9.031393e-01  1.565598e-01  7.805050e-01  3.273232e+00
##   [8939,]  3.184251e-03 -5.001986e-01  4.597910e-01  3.143817e+00
##   [8940,] -6.409915e-01 -7.730415e-01 -4.275900e-01  8.600623e-01
##   [8941,]  3.788868e-02 -3.583785e-01  1.110614e+00  9.068072e-01
##   [8942,]  1.388947e+00 -8.429536e-02  7.226948e-01  6.624722e-01
##   [8943,]  6.566522e-01  1.400695e+00 -5.340459e-01  7.922587e-01
##   [8944,]  4.404054e-02  4.857798e-01 -6.080423e-01  1.119394e+00
##   [8945,]  2.909937e-01  6.904522e-01 -1.435675e+00 -5.877833e-02
##   [8946,] -1.088995e+00 -3.519941e-01  1.344867e+00  3.410791e-01
##   [8947,] -8.628722e-01  2.056571e-01  1.524468e+00  1.229294e-01
##   [8948,] -5.021264e-01  1.167465e-01  1.509943e+00  2.027371e+00
##   [8949,]  1.405822e+00 -1.198088e-01  1.047933e+00  9.166646e-01
##   [8950,]  5.166733e-01 -6.122430e-01  1.254664e+00  6.116932e-01
##   [8951,] -6.759490e-01  2.295477e+00 -2.890062e-01  1.068740e+00
##   [8952,] -7.000767e-01  1.678178e+00  1.126140e+00  6.896443e-01
##   [8953,] -1.549785e+00  1.980620e-01  7.386684e-02  7.831487e-01
##   [8954,] -1.427459e+00 -4.032494e-01  1.008686e+00  1.274308e+00
##   [8955,]  7.010029e-01  6.636100e-02 -6.606221e-01  9.893981e-01
##   [8956,] -1.411211e+00  4.262804e-01  1.044809e+00  9.617221e-01
##   [8957,] -2.278942e-01  1.094812e+00 -1.859759e+00  7.029977e-01
##   [8958,]  1.880682e-01 -4.871270e-02 -5.549775e-01  1.030377e+00
##   [8959,] -1.354450e-01 -9.785630e-01  1.155414e-01  2.327901e+00
##   [8960,]  6.472123e-01  2.557706e-02 -6.538369e-01  3.026577e+00
##   [8961,]  2.830936e-01  1.206304e+00  4.670091e-01  2.078069e+00
##   [8962,]  4.267303e-02 -3.786520e-02 -8.225938e-01  1.447076e+00
##   [8963,] -1.042236e+00  1.766486e-01 -1.545922e+00  2.228387e-01
##   [8964,] -2.872645e+00  1.893903e-01 -1.357026e+00  1.065337e+00
##   [8965,] -1.490560e+00  1.191684e+00  2.745490e-01  2.649297e+00
##   [8966,]  1.214413e+00  3.242165e-01 -1.197776e+00  5.870173e-01
##   [8967,] -1.172859e+00  1.380781e+00  7.892692e-01  1.240709e+00
##   [8968,] -1.026177e+00  2.024276e+00  1.199519e+00  4.818739e-01
##   [8969,]  8.014593e-01  2.623141e+00 -3.319109e-01  1.428230e-01
##   [8970,]  1.736712e-01 -2.814350e-01  5.578359e-01  1.239016e+00
##   [8971,]  5.142425e-01 -7.786027e-01 -3.684910e-01  7.522881e-01
##   [8972,]  4.214379e-01  1.920639e+00  3.096741e-01  2.369601e+00
##   [8973,] -1.310885e+00  3.899396e-01  1.027948e-01  7.347238e-01
##   [8974,] -6.128020e-01  4.880841e-02  1.101921e+00  8.395631e-01
##   [8975,] -6.159832e-01  2.069523e-01 -4.046934e-01  3.123051e+00
##   [8976,] -2.540073e-01  1.877069e+00  1.193989e+00  3.896391e-01
##   [8977,]  9.603508e-01  2.331383e+00  1.258852e+00  1.434476e-01
##   [8978,] -3.906022e-01  8.498461e-01 -6.268681e-01  7.597919e-03
##   [8979,] -2.094951e+00 -1.326058e-01 -1.853839e+00  9.884566e-01
##   [8980,]  8.236320e-01 -3.794686e-01  6.439599e-01  2.991386e+00
##   [8981,]  1.380003e-01 -3.476827e-01  9.886052e-01  1.147401e+00
##   [8982,]  1.091495e+00  1.037430e+00  2.246593e-01  3.817054e-01
##   [8983,] -4.585123e-01 -4.413507e-01  8.244784e-01  1.409132e+00
##   [8984,] -6.933450e-01 -9.287569e-02  7.598568e-01  1.517216e+00
##   [8985,] -1.302283e+00 -5.620985e-01 -8.009399e-01  1.538755e+00
##   [8986,]  3.372777e-01 -6.159317e-01  3.576819e-01  1.470732e-02
##   [8987,] -1.903960e+00  5.321369e-01  5.284570e-01  2.792768e-01
##   [8988,] -2.361880e+00  1.439471e+00 -9.734309e-01  2.632127e+00
##   [8989,]  6.385334e-01 -5.664298e-01  4.223013e-01  5.476659e-01
##   [8990,]  6.440508e-01  2.630601e-01 -1.265419e-01  8.519340e-01
##   [8991,]  7.915331e-02 -8.546514e-01  1.310971e+00  2.562605e+00
##   [8992,] -2.567877e-01  5.918974e-01 -4.958988e-01  1.328734e-01
##   [8993,]  9.088214e-01 -4.169654e-01  2.597915e-01 -6.320360e-02
##   [8994,]  8.524336e-01  3.534918e-01 -4.737521e-01  1.478019e+00
##   [8995,]  8.783416e-01  1.836714e+00  1.450305e+00 -6.406871e-03
##   [8996,] -5.630922e-02 -9.446782e-01  6.829129e-01  2.502033e+00
##   [8997,] -1.856421e+00  1.194001e+00  1.301600e-01  4.932067e-01
##   [8998,]  5.073195e-01 -3.413579e-01 -9.913889e-01  3.381347e-01
##   [8999,]  5.009839e-01 -7.723783e-01 -1.097560e+00  3.521329e-01
##   [9000,]  5.860975e-01 -3.664161e-01 -3.092856e-01  7.635898e-01
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##   [9001,]  4.641215e-01 -4.730531e-01  2.316211e-02  4.664414e-01
##   [9002,] -2.349576e+00 -2.220598e-02 -7.146673e-02  8.355465e-01
##   [9003,]  4.383444e-02 -1.168732e-02 -5.679505e-01  9.272488e-01
##   [9004,] -2.213281e+00  2.492369e-01  7.982866e-01  1.460724e+00
##   [9005,]  6.877626e-01  1.607233e-01 -4.789418e-02  1.057852e+00
##   [9006,] -1.059967e-01 -4.041504e-01  1.092223e+00  8.879333e-01
##   [9007,]  3.771666e-01 -9.836868e-01 -1.444708e+00  2.215591e+00
##   [9008,] -2.369342e+00  1.814456e+00 -2.017844e+00  2.848262e+00
##   [9009,] -8.585081e-02  7.729574e-01  1.169767e+00  6.491426e-01
##   [9010,]  1.237649e+00 -1.095533e-01  6.535319e-02  2.720074e+00
##   [9011,]  6.985017e-01  6.543024e-02 -1.772980e+00  2.582916e+00
##   [9012,] -7.287577e-01 -7.903081e-01  1.304444e+00  2.537983e+00
##   [9013,]  6.416909e-01 -9.118788e-01  1.249139e+00  6.626693e-01
##   [9014,] -8.959637e-01  2.027298e+00 -4.465319e-01  9.837406e-01
##   [9015,]  1.521003e+00  6.045003e-01 -2.440986e-01  2.896690e+00
##   [9016,]  1.177032e+00  4.846244e-01  1.092535e+00  8.326195e-01
##   [9017,]  8.519884e-01  6.961113e-02 -1.405750e-01  1.231657e+00
##   [9018,]  3.474454e-01  2.353724e+00  7.152322e-01  4.604584e-01
##   [9019,]  1.771364e-01 -1.487759e-01 -1.740132e+00  1.000663e+00
##   [9020,] -1.039939e+00  1.769628e+00 -6.592282e-01  1.123799e+00
##   [9021,]  8.715663e-01  6.765680e-01  8.147428e-01  1.382460e+00
##   [9022,]  1.385827e+00  5.493008e-01  1.303955e-01  9.114199e-01
##   [9023,] -9.328856e-01  7.044213e-01 -7.652794e-01  1.617875e+00
##   [9024,]  4.278888e-01  1.436483e+00 -1.483225e-01  5.935462e-01
##   [9025,] -7.786334e-02 -3.780317e-01 -1.137523e+00  6.665064e-01
##   [9026,]  2.938503e-03  1.626932e+00  4.166488e-01  6.179749e-01
##   [9027,]  1.412982e+00  3.806751e-01  1.107337e+00  8.102162e-01
##   [9028,] -5.728216e-01  6.728316e-02  2.383722e-01  2.412210e+00
##   [9029,] -7.860862e-01 -5.240089e-01 -1.751205e-01  2.654816e+00
##   [9030,] -1.326775e-01 -3.060958e-01  6.850089e-01  6.101320e-01
##   [9031,]  5.106304e-01  4.708299e-01  9.655971e-01  9.727950e-01
##   [9032,]  7.439081e-01 -1.546229e-01 -5.057514e-02  9.711295e-01
##   [9033,]  1.989094e-02 -2.448528e-01 -1.535512e+00  1.114418e+00
##   [9034,]  4.513505e-01  1.335314e+00  7.187754e-01  9.380515e-01
##   [9035,] -1.374687e+00 -3.399143e-01  7.384022e-01  3.505342e+00
##   [9036,] -1.784326e-01  9.916055e-01 -1.810861e+00  6.324363e-01
##   [9037,]  6.120007e-01  4.754021e-01 -1.362912e+00  8.212317e-01
##   [9038,]  7.108512e-01  2.510638e+00 -1.099618e+00 -1.237479e-01
##   [9039,] -2.928753e-01 -4.254175e-01 -2.228074e-01  6.022888e-01
##   [9040,] -8.814808e-01 -9.012946e-01  1.248909e+00  7.433834e-01
##   [9041,] -1.825505e+00  2.410485e+00 -2.089511e-01  2.534932e+00
##   [9042,] -1.067086e-01 -1.113727e-01 -1.041886e+00  6.627138e-01
##   [9043,] -1.488535e-02 -5.263305e-01  5.891257e-01  2.559078e+00
##   [9044,] -7.333857e-01  1.332601e+00  1.353945e+00  2.199951e+00
##   [9045,]  3.001271e-01 -3.328245e-01 -4.585334e-01  1.317740e+00
##   [9046,]  9.479207e-02 -4.334250e-01 -5.088117e-01  1.304677e+00
##   [9047,] -2.421172e-01 -3.608244e-01 -3.093542e-01  6.832259e-01
##   [9048,]  7.206952e-01  3.955199e-02  1.127662e+00  8.420054e-01
##   [9049,] -1.560640e+00  9.947934e-01 -3.488569e-01  2.304597e-01
##   [9050,] -7.980262e-02  4.346900e-01  5.078348e-01  2.211560e+00
##   [9051,]  1.264528e+00  1.906331e+00  9.909728e-01  6.693033e-01
##   [9052,] -8.473569e-02  7.412943e-01 -5.381540e-01  8.059440e-01
##   [9053,] -2.085133e-01 -1.358560e+00 -1.535262e+00  2.477537e+00
##   [9054,] -2.710504e-01  1.794582e+00  1.786282e-01  4.658456e-01
##   [9055,]  7.186247e-01  9.144520e-01 -1.477256e-02  1.489193e+00
##   [9056,] -1.456103e+00  3.808929e-01  5.062826e-01  3.739966e-01
##   [9057,]  1.354530e+00  2.603180e-01 -9.102405e-01  1.071691e+00
##   [9058,] -5.656098e-01  2.531490e+00  7.521071e-01 -9.695520e-02
##   [9059,]  3.532435e-01 -5.926794e-01 -5.300024e-01 -1.655380e-01
##   [9060,]  4.856235e-01 -3.765479e-01  7.259402e-01  3.088721e-01
##   [9061,] -8.235492e-01  1.351003e-01  1.168562e+00  2.641394e+00
##   [9062,]  6.826150e-01  4.971735e-01  1.077450e+00  9.931318e-01
##   [9063,] -8.603916e-01 -6.024048e-01  9.891310e-02  2.231496e+00
##   [9064,] -2.737009e-01 -1.606615e+00  2.343782e-01  2.878717e-01
##   [9065,] -6.896192e-01  2.695489e-01  1.375115e+00  2.375220e+00
##   [9066,]  3.225208e-01 -3.453398e-01  8.759534e-01  1.376710e+00
##   [9067,] -1.752135e+00  1.280568e+00  2.242454e-01 -3.722050e-03
##   [9068,]  4.501642e-01  1.852357e+00 -9.164364e-02  2.215196e+00
##   [9069,] -9.482493e-01 -1.173312e+00 -1.292547e+00  7.027151e-01
##   [9070,]  4.161283e-01 -1.406471e+00  1.706425e-01  2.526697e-01
##   [9071,]  1.239967e+00 -2.168763e-02  6.137570e-01  6.624228e-01
##   [9072,]  1.371300e+00 -3.414989e-01  1.569467e-01  2.596097e+00
##   [9073,]  1.371838e+00  4.800400e-01  9.465577e-01  1.043259e+00
##   [9074,]  5.251879e-01 -8.917360e-01 -1.014536e+00  2.128654e+00
##   [9075,]  1.098666e+00  1.822770e-01 -1.001951e+00  5.710988e-01
##   [9076,] -7.920868e-01 -1.937885e+00  1.607646e+00  2.223932e+00
##   [9077,] -7.830020e-01  7.955108e-02 -8.264933e-01  3.632001e-01
##   [9078,]  4.969859e-02 -4.688915e-01  2.303322e-01  8.946362e-01
##   [9079,] -4.523732e-01  1.654553e+00  1.412827e-01 -1.314938e-01
##   [9080,]  2.038232e-01  5.281025e-01 -8.465694e-01  1.707320e+00
##   [9081,] -4.029400e-01  1.169380e+00 -1.115984e-01  2.210122e+00
##   [9082,]  5.703912e-01 -7.848275e-01 -1.450293e+00  6.319585e-01
##   [9083,]  7.484881e-01  9.498652e-02 -2.183533e-01  2.830930e+00
##   [9084,] -7.830232e-01 -3.741021e-01 -8.823862e-01  1.210828e+00
##   [9085,] -2.366159e-01  1.045045e+00 -1.204811e+00  4.806917e-01
##   [9086,]  5.567276e-01  2.833531e-01  1.152560e+00  7.035274e-01
##   [9087,] -1.652039e+00  1.064473e+00 -1.519912e-01  4.698612e-01
##   [9088,]  1.321865e+00 -2.455039e-02  6.620815e-01  2.951606e+00
##   [9089,]  1.283118e+00  2.794885e-01 -1.174887e-01  6.290087e-01
##   [9090,] -2.143673e+00  2.366175e+00 -3.640607e-01  1.169302e+00
##   [9091,] -2.489904e-01  9.965674e-01  9.601994e-01  9.277532e-01
##   [9092,] -1.627885e+00  1.791411e+00 -5.104136e-01  2.532572e+00
##   [9093,]  7.975751e-01  4.471137e-01  8.467494e-01  1.208981e+00
##   [9094,] -1.003690e+00 -1.614650e+00 -5.855091e-01  2.128931e+00
##   [9095,]  2.297388e-01 -1.031634e-01 -6.098771e-01  1.510085e+00
##   [9096,]  1.237747e+00 -4.533130e-01 -4.865729e-02  5.769997e-01
##   [9097,]  1.325424e+00  1.049177e-01  6.967728e-01  1.168727e+00
##   [9098,]  3.933275e-01 -8.096507e-01 -9.602837e-01  1.943705e+00
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##   [9099,]  5.403967e-01 -1.404606e-02 -3.723961e-01  9.277086e-01
##   [9100,]  1.002438e+00  1.832734e-01  1.202037e+00 -4.377601e-02
##   [9101,] -1.766592e+00  1.579633e-01  1.294639e+00  5.899653e-01
##   [9102,] -1.003464e+00 -1.529213e+00  5.684597e-01  2.388180e+00
##   [9103,]  1.998537e-01 -2.565830e-01 -1.428219e-02  1.291310e+00
##   [9104,]  5.500677e-01 -8.116775e-01  1.055303e-01  3.192137e-01
##   [9105,]  1.369957e+00  3.306624e-01  8.979616e-01  3.012777e+00
##   [9106,]  1.547355e-01  1.810658e-01 -2.859595e-01  2.862589e+00
##   [9107,] -2.549000e+00 -7.477514e-01  1.304318e+00  1.924941e+00
##   [9108,]  9.630237e-01 -4.492698e-01  1.667863e+00 -8.156327e-02
##   [9109,]  4.542280e-01 -7.705159e-01 -4.192011e-02  2.235335e+00
##   [9110,]  3.762525e-01  1.364200e+00 -1.194665e-01  2.189198e+00
##   [9111,]  7.152924e-01 -1.133004e-01 -3.259107e-01  9.339078e-01
##   [9112,] -3.856788e-01 -2.361142e-01 -1.989101e+00  1.532463e+00
##   [9113,] -1.223458e+00 -8.524596e-01  7.754336e-01  1.551525e+00
##   [9114,] -1.500533e+00  6.436828e-01 -5.506525e-01  1.801372e+00
##   [9115,]  7.609682e-01  2.667390e-01  9.596835e-01  1.084276e+00
##   [9116,]  8.892384e-01  2.210767e-01 -6.158373e-01  3.047583e+00
##   [9117,] -7.394852e-01  1.644597e+00  1.083392e+00  7.122925e-01
##   [9118,]  6.388483e-01 -5.090370e-02 -9.537665e-01  8.269288e-01
##   [9119,] -1.085879e+00 -2.321159e-01  4.268983e-01  1.855681e+00
##   [9120,] -9.867173e-01 -2.131095e+00  3.589288e-01  2.129856e+00
##   [9121,] -1.539141e+00 -3.997108e-01  1.200651e-01  3.171242e-01
##   [9122,] -2.523949e+00  7.526025e-01 -1.545189e+00  2.301360e+00
##   [9123,] -1.330403e-01 -1.242453e+00 -1.039279e+00  6.343948e-01
##   [9124,] -5.171234e-02 -1.747824e-01  5.524520e-01  2.612575e+00
##   [9125,]  8.169296e-01 -3.325052e-01  1.704471e+00  1.704433e+00
##   [9126,] -8.873167e-01 -5.346053e-01 -1.961490e+00  1.230213e+00
##   [9127,]  5.556712e-01  5.647253e-01 -4.085583e-01  6.642899e-01
##   [9128,]  4.626379e-01 -8.025104e-02 -1.566124e+00  7.047232e-01
##   [9129,]  1.341278e+00 -2.443876e-01 -3.431467e-01  1.011853e+00
##   [9130,]  1.776389e-01  1.394159e+00  1.000738e+00  1.173797e+00
##   [9131,] -2.030955e+00 -1.134406e+00  1.477119e+00  3.881166e-01
##   [9132,]  1.363365e+00 -1.162600e-01  4.500205e-01  2.628451e+00
##   [9133,] -1.305471e+00  3.280645e-01  4.001372e-01  1.187128e+00
##   [9134,] -2.184263e-01 -6.562359e-02  9.121212e-01  4.463545e-01
##   [9135,] -6.579803e-01  3.967188e-01 -7.873196e-01  1.386319e+00
##   [9136,]  6.842805e-01 -2.494550e-01  1.165205e+00  7.362354e-01
##   [9137,]  4.171438e-01  2.221386e-01  1.134433e+00  7.115899e-01
##   [9138,] -2.051403e-01  2.119133e+00 -1.727933e-01  4.988824e-01
##   [9139,] -2.903396e-01  2.526999e+00  1.335229e+00  1.906989e+00
##   [9140,]  2.122505e-01 -2.698675e-01  9.913049e-01  1.124696e+00
##   [9141,] -2.418379e-01  9.678927e-01 -2.188991e-01  4.684172e-01
##   [9142,]  1.372815e+00  7.410053e-01  1.579638e-03  2.846450e+00
##   [9143,] -5.971376e-01 -8.799550e-01 -1.226645e+00  9.367415e-01
##   [9144,]  6.616759e-01 -5.418976e-01 -1.756835e+00  2.723781e+00
##   [9145,]  5.181405e-02  1.193989e+00 -1.888120e+00  1.076663e+00
##   [9146,] -1.440054e+00  6.595485e-01  1.152092e-01  3.267961e+00
##   [9147,] -1.022537e+00  1.122169e+00  5.551043e-01  1.532747e+00
##   [9148,] -3.837482e-01  1.917958e-01  1.343142e+00  4.699876e-01
##   [9149,]  6.024496e-01 -5.324445e-01 -9.121743e-01  5.509677e-01
##   [9150,] -3.395926e-01  1.520550e+00 -2.153328e+00  3.595086e+00
##   [9151,] -1.657000e+00  5.178121e-01 -1.157912e-01  1.130896e-01
##   [9152,]  3.177714e-01  1.164039e-01 -6.307353e-02  1.393986e+00
##   [9153,]  1.324186e+00 -4.891178e-02 -2.877780e-01  8.062601e-01
##   [9154,] -9.634221e-01  9.063626e-01  1.353976e+00  2.967377e-01
##   [9155,]  6.778088e-01  1.063923e+00  9.811136e-01  1.058490e+00
##   [9156,]  6.506385e-03 -1.191434e-01 -1.200422e+00  1.354844e+00
##   [9157,]  7.188973e-01  8.887479e-02  4.691785e-02  2.914516e+00
##   [9158,]  5.771622e-01 -1.340867e-01  1.081148e+00  1.019435e+00
##   [9159,] -7.258413e-01  7.877269e-01 -1.229740e-01  5.287094e-01
##   [9160,] -1.900762e-01  2.047583e-01 -1.685539e+00  4.783563e-01
##   [9161,]  1.298403e+00 -3.235256e-02 -1.684571e-01  6.543695e-01
##   [9162,]  8.280119e-02  1.040945e+00 -1.822770e-01  8.287464e-01
##   [9163,]  2.104568e-01 -3.419534e-01 -8.207117e-01  1.356426e+00
##   [9164,] -7.882312e-01  5.944857e-01  2.293644e-01  8.507541e-01
##   [9165,] -1.983096e-01  2.791935e+00 -5.324130e-01  7.289179e-01
##   [9166,] -6.699835e-01 -4.685660e-01 -3.386455e-01  1.090386e+00
##   [9167,] -6.942158e-01  1.808652e-01  1.026258e-01  2.943834e-01
##   [9168,]  1.742506e-01 -2.721872e-01  7.607553e-01  1.565296e+00
##   [9169,] -1.837900e+00  1.030394e+00 -3.527966e-01  7.898423e-01
##   [9170,]  8.534945e-01  1.193941e+00  2.928307e-02  1.236050e+00
##   [9171,]  1.251151e+00  8.810453e-02  3.819555e-02  8.052695e-01
##   [9172,]  6.296192e-01  6.990970e-01  1.483466e-01  8.931440e-01
##   [9173,] -6.690666e-01  5.429403e-01 -1.281218e+00  5.583639e-01
##   [9174,]  5.119436e-01 -1.105162e+00  9.571641e-02  2.343647e+00
##   [9175,]  5.511774e-01  3.296594e-01 -1.295545e-01  7.626739e-01
##   [9176,] -2.244695e-01  1.016594e+00  1.160953e+00  5.600150e-01
##   [9177,] -8.169049e-01  9.118646e-01  1.315705e+00  2.279695e+00
##   [9178,]  6.511492e-01  1.222124e-01 -1.493701e+00  8.513575e-01
##   [9179,] -1.437257e+00 -6.438923e-02  1.026609e+00  1.054839e+00
##   [9180,] -1.029090e+00 -8.382334e-01  1.574088e+00  2.024178e+00
##   [9181,] -1.544047e+00  5.953866e-01  1.687235e-01  1.185570e+00
##   [9182,]  4.894754e-01 -1.364670e+00  1.669766e+00  2.037122e+00
##   [9183,] -8.126343e-03 -6.935897e-01 -4.155411e-01  1.278092e+00
##   [9184,]  1.370250e+00 -4.956901e-01  1.262735e+00  2.598424e+00
##   [9185,] -6.414583e-01  8.046757e-01  2.888506e-01  2.312830e+00
##   [9186,] -2.662087e-01  8.657440e-01 -1.444424e+00  1.884949e+00
##   [9187,]  2.075337e-01  9.694128e-01 -1.891836e+00  1.194664e+00
##   [9188,] -3.354756e-01  1.176901e+00  1.266475e+00  3.463835e-01
##   [9189,]  3.842075e-01  1.810778e-01 -2.788226e-01  5.344201e-01
##   [9190,] -6.224064e-01  5.713048e-01  1.033723e+00  8.824086e-01
##   [9191,]  7.224192e-01  3.288884e-01 -1.466414e-01  1.172861e+00
##   [9192,] -2.335231e-01  7.385429e-01  1.068554e+00  9.015300e-01
##   [9193,] -5.008639e-01  1.784312e-01  7.199986e-01  1.340094e+00
##   [9194,]  4.456916e-01 -7.076383e-01  1.058580e+00  3.994138e-01
##   [9195,]  7.345175e-01 -6.382059e-01  1.244366e+00  2.633507e+00
##   [9196,] -1.985035e-01  6.112258e-01  1.384370e+00  2.422425e-01
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##   [9197,] -2.921278e-01  8.932540e-01  9.169471e-01  3.690496e-01
##   [9198,] -2.244729e+00  8.352835e-02  1.173033e+00  7.366255e-01
##   [9199,]  1.481816e+00  8.493393e-01 -4.610408e-01  9.918475e-01
##   [9200,] -2.615301e-01  1.977868e+00 -6.690058e-02  1.112194e-01
##   [9201,]  1.314427e+00  1.223425e-01 -1.391218e+00  9.497724e-01
##   [9202,]  6.036775e-01 -1.382411e-01 -7.516637e-02  7.253896e-01
##   [9203,]  5.146362e-01 -3.637378e-01  1.164715e+00  2.704729e+00
##   [9204,]  9.971469e-01  4.599307e-01  1.628056e+00 -1.850636e-01
##   [9205,]  5.857200e-01 -5.890028e-01  1.410551e+00  2.285937e+00
##   [9206,]  1.362250e-01  2.417136e+00  1.485317e+00 -2.313318e-01
##   [9207,] -2.134143e-01  1.482257e+00  6.558586e-02  5.962913e-01
##   [9208,] -6.948063e-01  1.236997e+00 -1.796178e+00  8.652988e-01
##   [9209,] -1.487939e+00  8.598965e-01  9.833064e-01  1.037207e+00
##   [9210,]  1.047841e+00  1.068249e+00  5.942526e-01  3.028481e-01
##   [9211,]  1.793981e-01  1.605152e-01  1.547380e+00  9.442193e-02
##   [9212,] -9.250029e-01  1.869246e-01  1.923006e-01  5.301975e-01
##   [9213,]  3.398667e-01 -1.190577e+00  1.649587e+00  1.937657e+00
##   [9214,] -7.204754e-01  8.149091e-01  1.060076e-01  2.328479e+00
##   [9215,] -2.405420e-01  1.457802e+00 -1.584114e+00  4.137602e-01
##   [9216,] -9.310067e-01  5.677416e-01 -6.901403e-01  1.261992e+00
##   [9217,]  2.234632e-01 -1.567311e-01 -3.306417e-01  1.147973e+00
##   [9218,]  5.838240e-01  5.329520e-01 -3.380014e-01  7.598626e-01
##   [9219,]  8.408236e-02 -2.811717e-01 -1.905505e+00  9.722281e-01
##   [9220,]  7.578307e-01  2.266021e-02 -1.562134e+00  9.904515e-01
##   [9221,] -2.082859e+00 -1.253964e-01  1.119753e+00  8.852384e-01
##   [9222,] -2.109025e+00  1.267895e+00  6.189066e-01  1.684334e+00
##   [9223,]  6.436270e-01  8.990454e-01 -3.632832e-01  2.524724e+00
##   [9224,] -6.900496e-01  4.857271e-01 -1.319506e+00  6.140050e-01
##   [9225,]  1.343288e+00  8.803625e-01  8.663829e-01  1.267801e+00
##   [9226,] -2.873355e-03  3.450103e-01 -9.658847e-01  6.123053e-01
##   [9227,]  7.140534e-01  3.132527e-01  9.989863e-01  8.938583e-01
##   [9228,] -1.210198e-01  1.785758e+00  9.814254e-01  9.125198e-01
##   [9229,]  7.175810e-01 -6.876664e-01 -1.192481e+00  7.097331e-01
##   [9230,]  9.691620e-02 -5.433647e-01  1.140216e+00  8.256738e-01
##   [9231,] -6.309485e-01  1.619149e+00 -4.676589e-01  9.302092e-01
##   [9232,]  1.385982e-01 -7.337046e-01  9.371774e-01  8.979059e-01
##   [9233,] -1.562524e-01 -1.810035e-01 -3.879278e-01  7.192580e-01
##   [9234,]  4.586696e-01  4.207806e-01  1.192741e+00  2.448346e+00
##   [9235,] -1.894121e+00  1.495058e+00  2.862692e-01  2.307572e+00
##   [9236,] -6.038613e-02 -3.071496e-01  9.892177e-01  1.020841e+00
##   [9237,] -1.481441e+00  2.818311e-01  1.584104e-01  3.044943e-01
##   [9238,]  9.610431e-01  1.259254e+00  4.378925e-01  1.352389e-01
##   [9239,] -1.366498e+00  1.771909e+00 -2.381692e-01  9.530127e-01
##   [9240,]  6.782465e-01 -5.164704e-01  1.197734e+00  2.723242e+00
##   [9241,] -9.616332e-01 -1.746140e+00 -1.363165e+00  2.205997e+00
##   [9242,] -1.582619e+00  2.929943e-01 -6.475547e-01  4.555552e-01
##   [9243,] -7.612715e-01  1.845476e+00  9.616969e-01  9.001593e-01
##   [9244,] -2.912049e+00  1.784791e+00 -5.328842e-01  1.580810e+00
##   [9245,]  2.269308e-01 -4.326479e-01 -3.190241e-01  2.971829e+00
##   [9246,] -9.701925e-01  1.344840e+00 -1.837817e-01  1.004030e+00
##   [9247,]  1.231571e+00 -1.345668e-01  3.132510e-01  2.686601e+00
##   [9248,] -2.305259e+00  3.532775e-01  1.099828e+00  1.009769e+00
##   [9249,]  1.991946e-01  2.027248e-01 -2.111394e+00  1.393691e+00
##   [9250,] -7.853187e-01  1.677462e+00  2.057360e-02  2.652261e+00
##   [9251,] -1.682632e+00  1.474232e+00  1.142870e+00  4.690107e-01
##   [9252,]  9.878840e-01  3.245771e-01  7.045079e-01  1.536887e+00
##   [9253,]  1.419670e+00  2.168887e-01  1.105770e+00  8.120655e-01
##   [9254,] -6.940488e-03  5.761138e-01 -1.470417e+00  1.165446e+00
##   [9255,] -6.452835e-01  1.124033e+00  1.744272e-01  2.609274e+00
##   [9256,] -2.147112e+00  1.590763e-01  8.917224e-01  1.379932e+00
##   [9257,]  6.353274e-01 -1.480678e-01 -1.255731e+00  7.844186e-01
##   [9258,]  8.125648e-01  1.629623e+00  1.410380e+00 -1.368854e-01
##   [9259,] -2.363335e+00 -1.468375e-01  1.041057e+00  1.051584e+00
##   [9260,]  6.989283e-01 -2.828854e-01 -5.036043e-01  8.305190e-01
##   [9261,] -6.124932e-01 -3.689559e-01  8.884147e-01  1.437758e+00
##   [9262,] -8.398509e-01  6.908681e-01  2.515077e-01  2.361926e+00
##   [9263,] -2.524439e-01  6.097331e-01 -4.932029e-01  1.818940e+00
##   [9264,] -3.701878e-01  9.750190e-01  1.147362e+00  2.062045e+00
##   [9265,] -5.060241e-01 -8.101189e-02 -5.960268e-01  1.531400e+00
##   [9266,] -7.005862e-02 -2.921609e-01 -1.676258e+00  2.441970e+00
##   [9267,]  4.621837e-01 -5.698592e-01 -1.226801e-02  2.025816e+00
##   [9268,] -1.482375e-01 -2.305475e-01 -2.550832e-01  9.796045e-01
##   [9269,] -1.837585e+00 -1.833812e-02  1.379773e+00  4.076174e-01
##   [9270,] -1.264454e-01 -1.572867e+00 -7.441419e-03  6.649240e-01
##   [9271,]  9.879561e-01  1.916272e+00  8.471678e-01  5.847545e-01
##   [9272,] -1.211066e+00  8.731490e-02  1.082584e+00  9.690050e-01
##   [9273,]  6.564524e-01 -7.845627e-01  1.161818e+00  8.192205e-01
##   [9274,]  1.233313e+00  1.112649e-01  1.125544e+00  2.648152e+00
##   [9275,]  7.312159e-01  1.255945e+00  5.070006e-01  1.209319e+00
##   [9276,] -1.143260e+00  2.020519e+00  5.208763e-01 -2.612252e-01
##   [9277,] -8.868617e-01 -4.587292e-02 -1.084286e+00  1.033789e+00
##   [9278,] -1.570263e+00 -3.699742e-01  1.664558e-01  2.417589e-01
##   [9279,] -2.574877e-01  9.336826e-02  1.299742e+00  2.407342e+00
##   [9280,] -3.208311e-01  7.064484e-01  1.380545e+00  2.037535e+00
##   [9281,]  9.381298e-01  7.104830e-01 -1.676628e-01  1.524319e+00
##   [9282,] -1.367547e+00 -4.571911e-01  8.754122e-01  1.436831e+00
##   [9283,]  5.550487e-02 -3.447514e-01  1.012534e+00  1.064513e+00
##   [9284,] -7.620728e-01 -3.653289e-01  1.108920e+00  8.927638e-01
##   [9285,] -1.260652e+00  8.458886e-01  6.952388e-01  1.584539e+00
##   [9286,]  1.219152e-02  1.188936e-01  8.734957e-01  1.408665e+00
##   [9287,] -1.145480e+00  7.796621e-01 -7.030599e-01  1.169408e+00
##   [9288,]  8.292704e-01 -7.822981e-02 -4.204151e-01  3.135880e+00
##   [9289,]  5.494056e-01 -6.462513e-01  1.330952e+00  5.592525e-01
##   [9290,] -5.918939e-01  6.552104e-01 -4.223315e-01  1.148903e+00
##   [9291,]  7.664250e-01  3.459884e-01  9.999416e-01  2.853273e+00
##   [9292,] -9.967618e-01  1.879080e+00 -1.620570e+00  4.966394e-01
##   [9293,] -6.856949e-01  1.258830e+00  1.078795e+00  7.918383e-01
##   [9294,] -1.605559e+00  2.223074e-02 -4.197746e-01  2.801572e+00
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##   [9295,]  1.733819e-01  7.391926e-03 -1.041743e+00  1.028560e+00
##   [9296,] -8.053325e-01  1.169236e+00  8.039327e-01  2.211255e+00
##   [9297,] -1.382673e+00  9.532936e-01 -2.845543e-01  8.649313e-01
##   [9298,]  1.185053e+00  2.350021e+00 -4.721557e-01  6.562860e-01
##   [9299,] -5.398636e-01 -3.342746e-01 -4.103055e-01  1.206017e+00
##   [9300,]  4.686099e-01  8.247338e-02 -1.596680e+00  7.389748e-01
##   [9301,] -1.362404e-02  6.939313e-01 -1.583785e+00  6.314220e-01
##   [9302,]  5.971684e-01 -2.321290e-01  1.129328e+00  7.539325e-01
##   [9303,]  1.449125e-03  1.674205e+00  9.412758e-01  8.681205e-01
##   [9304,] -2.427389e+00 -6.757582e-02 -8.813419e-01  8.527510e-01
##   [9305,]  9.107180e-01  1.959168e-01  8.112527e-01  1.338264e+00
##   [9306,]  4.365563e-01 -4.846254e-01  1.284192e+00  6.461150e-01
##   [9307,]  8.786743e-01  1.767460e-02  9.268831e-01  3.076044e+00
##   [9308,] -8.018927e-01  4.894658e-01  1.087129e+00  8.515606e-01
##   [9309,] -4.295734e-02 -2.748173e-01 -1.722734e+00  2.774074e+00
##   [9310,] -1.338078e+00  1.495361e+00  7.789273e-01  1.276305e+00
##   [9311,]  6.507050e-01 -3.803678e-01  1.119346e+00  8.520720e-01
##   [9312,] -9.630686e-01  1.408426e-02  1.092150e+00  2.218029e+00
##   [9313,]  6.855038e-01  8.691464e-02  8.947154e-01  2.577727e+00
##   [9314,]  1.310529e+00  1.735211e-01  1.048392e+00  8.646849e-01
##   [9315,] -2.507538e-01  3.267338e+00  4.544051e-01  4.872115e-01
##   [9316,] -7.895265e-01  2.339954e+00 -2.411191e-01  1.451822e+00
##   [9317,]  1.810916e-01  9.392523e-01 -8.248592e-01  1.444014e+00
##   [9318,]  1.976753e-01 -7.147248e-01  1.007999e+00  1.057932e+00
##   [9319,] -8.152553e-01  6.305923e-01 -1.384949e+00  5.745329e-01
##   [9320,]  5.842498e-03 -4.608494e-01 -6.852246e-01  2.722602e+00
##   [9321,] -3.291492e-01  4.084084e-01  2.338276e-01  1.842645e+00
##   [9322,]  3.560002e-03  5.274678e-01 -1.612788e+00  1.165302e+00
##   [9323,]  3.037202e-01 -3.161750e-02  1.336457e+00  2.186245e+00
##   [9324,]  2.126528e-01  5.293953e-01 -1.452899e+00  1.153400e+00
##   [9325,] -2.134415e-01  1.466782e+00  5.649156e-01  3.914971e-01
##   [9326,] -9.892884e-01  2.535944e+00  7.419679e-01  2.032565e-01
##   [9327,] -6.245171e-01  3.919965e-01  9.727359e-01  1.060187e+00
##   [9328,] -2.848337e-01 -1.943637e+00  4.432282e-01  1.849092e+00
##   [9329,]  1.028990e+00  9.403925e-01  9.743070e-01  2.111945e+00
##   [9330,]  2.601818e-01  1.041615e+00  1.445726e+00 -1.033422e-01
##   [9331,]  3.439141e-01  2.134008e+00  1.086895e+00  2.383665e+00
##   [9332,] -6.450934e-02 -2.864045e-02  1.250971e+00  5.081859e-01
##   [9333,] -3.998611e-01  3.414841e-01  8.455438e-01  2.484070e-01
##   [9334,] -2.180649e+00  6.642500e-01  1.106494e+00  7.545980e-01
##   [9335,] -1.647551e-01 -3.167089e-01  2.342929e-01  2.771202e+00
##   [9336,]  6.809194e-01 -1.402534e-01 -2.939356e-01  3.089147e+00
##   [9337,] -2.471506e+00 -2.093815e-01 -1.475510e-01  2.567514e+00
##   [9338,]  7.033722e-01  4.018416e-01 -1.968167e+00  1.006326e+00
##   [9339,] -1.012061e+00  1.103980e+00 -8.799389e-02  6.298630e-01
##   [9340,] -8.142265e-01 -1.341191e+00 -7.039020e-02  8.227783e-01
##   [9341,]  1.516892e-03  2.117945e-01  1.058468e+00  8.947927e-01
##   [9342,]  1.306030e+00  8.720247e-01  1.003905e+00  9.220176e-01
##   [9343,] -2.862944e-01 -4.348043e-01  1.478822e+00  2.520172e-01
##   [9344,] -1.752198e+00  1.025345e+00  1.172880e+00  2.578097e+00
##   [9345,] -2.443660e+00 -1.210450e+00  2.736061e-01  2.110882e+00
##   [9346,]  3.049503e-01 -1.875069e-01 -5.136754e-02  3.391829e-01
##   [9347,] -4.545785e-01 -1.085376e-01 -2.199627e+00  3.442312e+00
##   [9348,]  2.512796e-01  3.570648e-01 -1.935641e+00  1.251769e+00
##   [9349,] -2.842378e-01 -1.579357e-01  1.436564e+00  2.909317e-01
##   [9350,]  5.838915e-01  2.217617e+00  1.265332e+00  2.536537e+00
##   [9351,]  6.293787e-01  3.917365e-02  1.076265e+00  7.679168e-01
##   [9352,]  7.347155e-01  3.239807e-01  8.578654e-01  1.247770e+00
##   [9353,]  9.214042e-01  9.408414e-01  3.881521e-01  1.949614e+00
##   [9354,] -2.602404e+00  2.657433e-01  1.918430e-01  7.971151e-02
##   [9355,]  7.736433e-01  2.769303e-01 -6.636369e-02  9.787852e-01
##   [9356,]  9.625480e-01  8.026578e-01 -3.333410e-01  1.482272e+00
##   [9357,]  5.274321e-01 -9.162168e-01 -1.228461e+00  1.971292e-01
##   [9358,] -4.486493e-01 -6.384588e-01  3.955226e-01  1.998202e+00
##   [9359,]  1.337295e+00  1.816758e-01 -1.491955e+00  8.544851e-01
##   [9360,] -1.502085e+00  3.062760e-01  1.093188e+00  9.307472e-01
##   [9361,]  8.464357e-01 -3.232820e-01  9.801605e-01  1.114924e+00
##   [9362,]  1.084043e+00  1.563676e+00  1.016821e+00  2.608578e+00
##   [9363,]  7.329950e-01 -3.495924e-01 -1.948329e+00  1.090917e+00
##   [9364,] -6.452249e-01  2.384114e-01 -1.409974e+00  7.160301e-01
##   [9365,] -1.328622e-01 -6.412227e-01 -1.801048e+00  9.172705e-01
##   [9366,]  5.340452e-01  6.187106e-01 -9.298540e-01  1.008845e+00
##   [9367,]  4.593109e-01  3.682268e-01  5.555643e-01  1.809945e+00
##   [9368,] -4.777362e-01  2.100204e+00  7.505080e-01  1.966813e+00
##   [9369,] -1.361974e+00  3.714220e-01  1.093968e+00  8.638896e-01
##   [9370,] -8.199210e-01  1.377665e+00 -1.546493e+00  4.353496e-01
##   [9371,]  1.148920e+00 -1.818902e-02  1.412442e+00  2.372104e+00
##   [9372,]  1.200813e-01 -4.876726e-01  1.000528e+00  1.185478e+00
##   [9373,] -5.617613e-02  4.783674e-02 -5.260170e-01  1.154765e+00
##   [9374,]  7.569323e-01 -2.101853e-02  1.028458e+00  9.437159e-01
##   [9375,] -3.052813e-01  2.276358e+00  1.148920e+00  5.266590e-01
##   [9376,] -6.133098e-02 -1.214741e+00  1.411332e-02  6.379329e-01
##   [9377,]  1.275006e+00 -2.033746e-01  1.162590e+00  7.274357e-01
##   [9378,] -5.683162e-01 -2.954809e-02 -6.464233e-01  3.163296e+00
##   [9379,] -1.231031e+00  9.075052e-01  3.244546e-01 -3.526142e-01
##   [9380,]  3.681147e-01  2.168221e+00  3.541092e-01  5.675661e-01
##   [9381,]  1.133938e+00 -2.193455e-01 -1.413682e+00  4.432508e-01
##   [9382,] -4.880012e-01 -2.736287e-01  1.605927e+00 -3.458318e-02
##   [9383,] -8.135363e-01  7.434798e-02  9.262527e-01  1.234429e+00
##   [9384,] -1.399367e+00 -1.571796e+00 -1.735110e-01  1.002238e+00
##   [9385,] -7.667892e-01  1.362630e+00  5.357943e-01  1.248691e+00
##   [9386,] -8.346796e-01 -1.025162e-01 -1.726295e+00  8.479268e-01
##   [9387,] -4.691687e-01 -4.986833e-01  9.373239e-01  3.198744e+00
##   [9388,] -9.469995e-01 -1.079951e+00  1.101640e+00  1.087854e+00
##   [9389,]  7.413389e-01  1.246619e+00  1.011818e+00  1.010677e+00
##   [9390,]  4.793879e-01  6.181868e-02 -5.933818e-01  2.161531e+00
##   [9391,] -5.761346e-01 -3.566666e-01 -2.637394e-01  3.365196e+00
##   [9392,] -2.603585e-01  2.531126e+00  1.259996e+00  1.992671e+00
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##   [9393,]  1.105090e+00  9.101423e-01  4.639443e-01  3.825641e-01
##   [9394,]  1.369173e+00  2.557561e-01  1.188872e-01  2.648513e+00
##   [9395,]  1.117536e+00  2.901779e-01  1.021790e+00  2.513324e+00
##   [9396,]  1.183096e+00 -1.233873e-01 -1.491866e+00  5.761527e-01
##   [9397,]  1.234515e+00 -4.849451e-01  1.290567e+00  5.824847e-01
##   [9398,] -1.361407e+00  1.010124e+00  1.014734e+00  9.390415e-01
##   [9399,]  5.201151e-01 -3.474149e-01  1.279384e+00  6.289864e-01
##   [9400,]  4.354892e-02 -2.592033e-01 -4.839389e-02  3.043729e+00
##   [9401,]  1.620800e-01  1.225092e+00  9.336927e-01  2.931610e+00
##   [9402,]  9.053117e-02  1.137789e+00  1.103460e+00  2.724949e+00
##   [9403,] -2.648522e+00  3.694844e-01 -8.637690e-03  4.120191e-01
##   [9404,] -5.621140e-02 -7.775226e-01  1.207804e+00  7.448269e-01
##   [9405,]  1.009274e-01 -4.304483e-01 -3.437035e-01  1.139539e+00
##   [9406,]  7.364311e-01  8.821117e-01  8.100504e-01  1.220667e+00
##   [9407,] -9.097505e-02 -9.366618e-01  4.751445e-01  2.573166e-01
##   [9408,]  7.160582e-02  7.504624e-01  1.038051e+00  8.282749e-01
##   [9409,] -9.085183e-01 -1.083163e+00 -1.847542e+00  1.108807e+00
##   [9410,] -1.881752e+00  1.335151e+00  6.995556e-01  1.271653e-01
##   [9411,] -6.595918e-02 -3.361831e-01 -1.604204e+00  1.136441e+00
##   [9412,]  7.493358e-01 -8.987260e-02 -1.959156e+00  1.058022e+00
##   [9413,]  9.081216e-01  1.238514e+00  8.053745e-01  1.410735e+00
##   [9414,] -8.950872e-02 -2.437975e-01  1.033858e+00  2.980297e+00
##   [9415,]  8.381316e-01  4.053538e-01 -4.909786e-01  1.371995e+00
##   [9416,] -9.019342e-02  3.116393e-01  1.077517e+00  8.327383e-01
##   [9417,] -2.054030e+00 -1.489875e-01 -1.234591e+00  1.121320e+00
##   [9418,] -2.570956e+00  1.183981e+00  1.269197e+00  6.593504e-01
##   [9419,] -1.569818e+00  1.614278e+00 -6.018995e-01  8.815867e-01
##   [9420,]  5.918123e-01  3.924359e-01  1.047586e+00  9.049482e-01
##   [9421,]  4.751617e-01  1.220239e+00 -1.066863e+00  9.173451e-01
##   [9422,]  4.396484e-01 -5.523413e-01  1.481023e+00  2.097476e-01
##   [9423,]  4.421543e-02  6.471311e-01  9.701796e-02  1.011410e+00
##   [9424,] -2.195945e-02  4.134758e-01  1.275141e+00  5.365961e-01
##   [9425,]  1.141174e+00  6.679074e-01  5.852415e-01  3.462166e-01
##   [9426,]  5.585647e-01 -3.937081e-01 -1.033712e-01  6.147688e-01
##   [9427,] -2.404476e-01  1.753677e+00  1.120301e+00  2.480737e+00
##   [9428,] -1.218856e+00 -5.280346e-01  8.119420e-01  1.571286e+00
##   [9429,]  9.218513e-01  1.241525e+00  7.184644e-01  2.387220e-02
##   [9430,]  4.441018e-01 -8.908230e-02 -1.475390e+00  4.425700e-01
##   [9431,]  6.577721e-01 -3.986790e-01  1.465685e-02  2.447273e+00
##   [9432,] -9.315890e-02 -8.713780e-01 -2.007698e-01  7.950317e-01
##   [9433,] -1.404405e-01 -1.498263e+00  4.982380e-01  2.226682e+00
##   [9434,] -1.491622e+00  6.064628e-02  1.107754e+00  9.284450e-01
##   [9435,]  5.241526e-01  1.470807e+00  9.136137e-01  1.090065e+00
##   [9436,]  6.042934e-01  1.052580e+00 -2.669993e-01  2.667200e+00
##   [9437,] -2.215217e+00  2.935566e-01  2.164714e-01  8.092527e-01
##   [9438,] -4.437709e-01 -1.061996e+00  3.728308e-01 -5.596323e-02
##   [9439,]  1.003145e+00  1.829776e+00  3.812518e-02  2.217189e+00
##   [9440,] -6.620125e-01 -9.739305e-02 -1.479311e-02  2.406608e+00
##   [9441,] -1.497804e+00 -5.864212e-01 -1.636128e+00  1.028528e+00
##   [9442,]  1.066328e+00  8.963285e-01 -1.492802e+00  3.060019e-01
##   [9443,]  1.772391e-01 -1.202147e-01 -4.971206e-01  1.312006e+00
##   [9444,] -7.693470e-01 -5.688561e-01 -5.925995e-01  1.584853e+00
##   [9445,]  7.942743e-01  1.808854e+00 -1.585391e-03  1.470066e+00
##   [9446,] -1.050215e+00  2.094413e+00  1.508539e+00  1.750863e+00
##   [9447,]  5.094105e-01 -4.336102e-01 -5.629926e-01  5.623197e-01
##   [9448,] -8.468117e-01  1.034336e+00  6.587725e-01  3.369005e-01
##   [9449,] -1.531393e-01  1.184814e+00 -1.472739e+00  2.709683e+00
##   [9450,] -1.326354e+00  1.537239e+00 -1.372603e+00 -3.309757e-01
##   [9451,] -1.248874e+00  1.547422e-01 -6.320380e-01  3.612075e+00
##   [9452,]  1.782782e-02 -1.028583e+00  1.389978e+00  2.401604e+00
##   [9453,]  1.198345e+00  1.498576e+00  1.092404e+00  6.099182e-01
##   [9454,]  6.215374e-01 -3.165232e-01 -5.455461e-01  1.112996e+00
##   [9455,] -2.560303e-02 -8.821550e-01 -1.473305e+00  3.877655e-01
##   [9456,]  3.041494e-01  4.960480e-01 -5.241421e-01  1.421898e+00
##   [9457,]  3.174367e-02 -8.750177e-01  1.037122e+00  2.998553e+00
##   [9458,]  7.509855e-01 -2.389810e-01  1.738900e+00  1.569339e+00
##   [9459,]  1.034726e-01  5.124877e-02  1.638596e+00  1.759381e+00
##   [9460,] -1.568380e+00  9.471516e-01 -5.097189e-01  8.037850e-01
##   [9461,]  3.972648e-02 -1.234508e+00  1.145324e+00  9.224631e-01
##   [9462,]  9.820369e-01 -1.753668e-01  2.512374e-01  1.146126e-01
##   [9463,]  3.657519e-01  7.648122e-01  1.335866e+00  2.982466e-01
##   [9464,] -1.208606e+00  2.034197e+00  4.863913e-01  1.891801e+00
##   [9465,]  6.577646e-01 -3.477936e-01 -8.073435e-02  2.518060e+00
##   [9466,]  2.242958e-01 -2.725506e-01  6.833149e-01  3.545212e+00
##   [9467,]  7.967929e-01 -1.775695e-01 -4.620421e-01  1.225055e+00
##   [9468,]  8.187784e-01 -5.357161e-01  1.059236e+00  1.017380e+00
##   [9469,]  5.573856e-01  7.647790e-02  1.112704e+00  7.914740e-01
##   [9470,] -2.515990e+00  6.253195e-01  1.199775e+00  2.605699e+00
##   [9471,]  1.110679e+00  3.572895e-01 -2.129592e-02  3.760124e-01
##   [9472,]  1.058867e-02 -4.984100e-01 -9.768094e-01  9.099412e-01
##   [9473,] -7.305534e-01  2.336023e-01  1.129033e+00  8.158051e-01
##   [9474,]  1.205033e+00  5.904919e-01 -5.069913e-01  2.705618e+00
##   [9475,] -8.685771e-01  7.057040e-02  1.274762e+00  6.241942e-01
##   [9476,] -2.113566e-01 -1.887833e+00  4.098985e-01  1.921777e+00
##   [9477,] -9.783002e-01  1.166078e+00  2.247684e-01 -2.362402e-01
##   [9478,]  7.741834e-01 -4.514893e-01  1.137612e+00  2.850192e+00
##   [9479,] -1.630683e+00  4.169631e-01  1.440279e+00  2.168930e-01
##   [9480,] -1.712882e+00  9.242486e-01  6.466234e-01  7.767516e-01
##   [9481,] -1.527698e+00  2.008318e+00 -4.102393e-01  4.034345e-01
##   [9482,]  7.032529e-01 -3.652403e-03 -1.038539e+00  9.868351e-01
##   [9483,]  1.325278e+00  4.568545e-01  5.631207e-01  7.682527e-01
##   [9484,] -3.615602e-02  1.235625e+00  1.025051e+00  7.329684e-01
##   [9485,] -8.516588e-01  2.011897e+00  1.342516e+00  2.020359e+00
##   [9486,] -1.511754e-02  1.254784e+00 -9.624403e-01  7.200872e-01
##   [9487,] -9.749745e-02 -7.649855e-01 -5.061731e-01  1.007597e+00
##   [9488,]  6.548428e-01 -2.077743e-01  9.187715e-01  1.223913e+00
##   [9489,]  7.899055e-02  8.065757e-01  1.024658e+00  9.286765e-01
##   [9490,]  1.238241e+00 -5.240244e-01 -1.197383e+00  3.906439e-01
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##   [9491,] -7.409792e-01 -6.458077e-01 -5.695091e-01  1.298621e+00
##   [9492,] -7.907096e-01  1.075985e-01 -1.173239e-02  1.033846e+00
##   [9493,]  1.896163e-01  7.009215e-01 -6.442929e-01  1.119029e+00
##   [9494,] -2.872045e-01  5.658864e-01 -1.773323e+00  1.843138e+00
##   [9495,] -9.632490e-01 -7.900796e-01 -1.795109e+00  2.858223e+00
##   [9496,]  1.038152e+00 -8.644517e-01  1.348139e+00  1.980931e+00
##   [9497,]  2.932402e-01  3.418344e-01 -1.117433e+00  3.789774e-01
##   [9498,] -1.189834e-01 -3.177356e-01  8.666366e-01  6.397732e-01
##   [9499,] -5.437487e-01  1.450834e+00 -2.973099e-01  8.227231e-01
##   [9500,]  1.352801e+00  3.923293e-01  9.711340e-01  1.103534e+00
##   [9501,] -2.588965e+00 -1.026777e+00 -1.394616e+00  3.091848e-01
##   [9502,] -2.387182e+00 -1.022301e-01  1.141353e+00  8.009658e-01
##   [9503,]  7.366891e-01  2.822622e-02  1.098488e+00  2.824852e+00
##   [9504,] -3.349221e-01  7.869047e-01 -2.630320e-03  4.370182e-01
##   [9505,]  4.472268e-01 -6.679175e-02 -3.253638e-02  3.404838e-01
##   [9506,] -1.261856e+00 -3.303627e-02  1.236504e-01  1.419787e-01
##   [9507,] -5.020003e-01 -2.309278e-01 -9.016788e-01  3.112980e+00
##   [9508,]  6.510811e-01 -9.041706e-01 -2.348205e-01  5.094603e-01
##   [9509,] -4.825506e-01  2.333897e+00  1.244103e+00  1.485374e-01
##   [9510,] -1.806348e-01  1.672749e+00 -3.561825e-02  2.057995e+00
##   [9511,] -2.275598e+00  6.001951e-01 -7.432571e-01  1.299083e+00
##   [9512,] -7.279286e-01  3.865703e-01  1.733385e+00 -3.301505e-01
##   [9513,] -1.506440e+00  4.481856e-01 -6.733721e-01  1.208134e+00
##   [9514,] -2.337091e+00 -7.741980e-01  1.405234e+00  2.439146e+00
##   [9515,] -1.826881e+00  1.871499e+00 -1.748232e+00  6.408854e-01
##   [9516,]  1.109394e-01 -2.938449e-01  8.387951e-01  1.411756e+00
##   [9517,]  4.979971e-02 -8.575569e-01  4.181835e-01  2.655133e+00
##   [9518,] -2.906552e-02 -6.705330e-01  1.210312e+00  8.051302e-01
##   [9519,]  2.575018e-01 -5.808532e-02  4.859772e-02  2.741107e-01
##   [9520,] -1.357506e+00  2.311955e+00  5.402302e-01  8.304276e-01
##   [9521,] -1.526059e+00 -4.867179e-02 -1.728170e+00  7.584862e-01
##   [9522,]  9.024872e-01 -3.020814e-01  1.526441e+00 -9.496533e-02
##   [9523,]  1.156105e+00 -5.006469e-01 -4.149920e-01  5.196054e-01
##   [9524,] -2.469205e-01  9.804709e-01  1.445032e+00  7.710737e-02
##   [9525,]  3.380254e-01 -1.329041e-01  3.710241e-02  2.231525e+00
##   [9526,]  1.207596e+00 -8.306339e-01 -8.406654e-01  4.337574e-01
##   [9527,]  4.264126e-01 -3.002249e-01 -1.502350e+00  5.951324e-01
##   [9528,]  7.494382e-01  9.179524e-01  6.283923e-01  1.090490e+00
##   [9529,] -5.372443e-01  6.031868e-01 -1.768002e+00  6.848924e-01
##   [9530,]  6.387618e-01 -6.228968e-01 -4.083732e-01  7.417501e-01
##   [9531,]  7.398762e-01 -5.316721e-02 -3.143516e-01  8.949344e-01
##   [9532,]  8.424179e-02  1.115382e-01  1.038885e+00  8.836809e-01
##   [9533,]  5.652449e-01 -5.258166e-01 -4.083076e-01  2.739238e+00
##   [9534,]  1.419618e+00  6.635604e-01  8.921875e-01  1.169655e+00
##   [9535,] -7.259683e-01 -6.628208e-01 -1.645780e+00  1.301027e+00
##   [9536,]  1.466211e+00 -3.859304e-02  9.775931e-01  1.066067e+00
##   [9537,]  1.364551e+00 -2.863988e-02 -1.677905e-01  6.486354e-01
##   [9538,] -6.157613e-02  1.566015e+00 -1.837692e+00  2.978250e+00
##   [9539,] -3.247636e-01 -1.434286e-01 -9.945427e-01  5.616799e-01
##   [9540,]  9.901057e-01 -5.088428e-01  7.533194e-01  1.919033e+00
##   [9541,] -4.857016e-01  1.283479e+00 -1.863236e+00  2.723296e+00
##   [9542,]  1.065480e+00  1.517275e-01 -7.483683e-01  2.045335e+00
##   [9543,]  4.082836e-01 -1.034110e+00  1.394291e+00  5.120729e-01
##   [9544,]  1.055858e+00 -1.088552e+00  1.656519e+00  2.025844e+00
##   [9545,]  1.360147e-01 -2.884863e-01 -6.858866e-01  1.217645e+00
##   [9546,]  1.999383e-01  1.891188e+00  2.512983e-01 -2.252712e-01
##   [9547,] -2.468034e+00  8.582249e-01 -2.105157e-02  6.484851e-01
##   [9548,] -8.094757e-01  7.538196e-01  1.103647e+00  8.499938e-01
##   [9549,] -8.117446e-01 -8.534406e-02  1.591718e-01  9.857542e-01
##   [9550,]  7.535288e-01  8.075392e-02  1.049899e+00  9.368735e-01
##   [9551,]  5.324691e-01  6.272731e-01  1.011169e+00  8.179145e-01
##   [9552,]  6.075611e-01 -6.924384e-02 -1.633911e+00  8.213135e-01
##   [9553,]  1.035373e+00  3.785200e-01  1.278260e+00  3.700776e-01
##   [9554,]  6.273023e-01  5.194169e-01  2.637042e-01  6.598011e-01
##   [9555,]  2.711245e-01 -1.363195e+00  3.624935e-01 -9.685723e-02
##   [9556,]  1.213375e+00  5.835821e-02  1.619453e-01  2.245266e+00
##   [9557,]  1.606780e-01  6.065941e-01 -6.034670e-01  1.281662e+00
##   [9558,]  1.234903e+00  2.864232e-01  1.005617e+00  9.644261e-01
##   [9559,]  1.623805e-01  1.090620e+00 -1.719778e+00  3.236955e+00
##   [9560,]  5.534380e-01 -7.734338e-01  1.306583e+00  2.508478e+00
##   [9561,]  7.261357e-01  2.334147e-01  9.041152e-01  1.208111e+00
##   [9562,] -2.771457e-01  1.224978e+00  2.361152e-01  2.276972e+00
##   [9563,] -2.495291e+00  8.335733e-01 -1.912960e-01  8.244746e-01
##   [9564,]  1.543274e-01  5.247770e-01 -1.580197e+00  1.256424e+00
##   [9565,] -1.544967e+00  1.675900e+00  1.226738e+00  3.763168e-01
##   [9566,] -1.508081e-01  1.194732e+00 -8.071594e-01  3.942252e-01
##   [9567,] -6.251248e-01  1.156793e+00  1.828505e-02  1.112973e+00
##   [9568,]  1.234001e+00  9.571877e-01  4.482998e-01  8.922920e-01
##   [9569,] -6.110140e-01 -4.675132e-01 -1.597410e+00  1.177401e+00
##   [9570,]  1.498287e+00  1.853539e-01  1.032302e+00  2.844569e+00
##   [9571,] -9.246389e-01  1.557621e+00  2.934535e-01  9.026722e-01
##   [9572,]  3.892564e-01 -4.768810e-01 -2.666058e-01  4.924167e-01
##   [9573,]  4.691143e-03  2.907914e-01  9.002346e-01  1.223436e+00
##   [9574,]  1.287334e+00 -2.424290e-01  1.103256e+00  8.823835e-01
##   [9575,] -6.120028e-01 -1.058235e+00 -1.411279e+00  8.920918e-01
##   [9576,] -3.361565e-02 -2.437619e-01  2.964572e-01  7.237753e-01
##   [9577,] -9.247171e-02  4.147457e-02 -1.772768e+00  6.892220e-01
##   [9578,] -1.770432e+00 -2.270472e-01  1.632442e-01  2.060618e+00
##   [9579,]  8.534942e-01  2.156210e+00  1.342033e+00  2.083710e+00
##   [9580,] -1.519338e+00  5.546682e-01  9.359458e-01  1.231105e+00
##   [9581,] -7.156951e-01  1.952125e+00 -4.242638e-02  4.444514e-01
##   [9582,] -1.915402e-02 -9.656105e-01  1.269088e+00  2.636957e+00
##   [9583,] -1.262996e+00  9.309494e-01 -4.457688e-01  1.155384e+00
##   [9584,] -1.370603e+00  1.055985e+00  1.175933e+00  6.924276e-01
##   [9585,] -9.061088e-01 -1.890853e-01 -2.839996e-01  3.102499e+00
##   [9586,]  3.625038e-01  2.657209e-01  1.096293e+00  5.533741e-01
##   [9587,] -8.004089e-01 -1.335034e+00 -3.003694e-01  8.098537e-01
##   [9588,]  2.765900e-02  2.425525e-01  8.541138e-01  1.281316e+00
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##   [9589,]  1.343380e-01 -4.265574e-01 -9.148734e-02  1.109910e+00
##   [9590,] -1.263001e+00  1.333333e+00  1.011046e+00  9.821088e-01
##   [9591,]  4.218083e-01 -1.065804e+00  1.420474e+00  2.381514e+00
##   [9592,] -5.648196e-01  1.344506e+00  8.741852e-01  1.107685e+00
##   [9593,] -4.033702e-01 -1.618605e-01 -3.579579e-01  1.724553e+00
##   [9594,] -6.917077e-01 -6.205867e-01 -4.160837e-02  2.611460e+00
##   [9595,] -7.150121e-01 -5.478017e-01  1.062142e+00  1.092343e+00
##   [9596,] -7.864145e-01  8.513087e-01  1.418659e+00  4.449458e-01
##   [9597,] -7.754822e-01 -7.854691e-01  1.088849e+00  2.870809e+00
##   [9598,] -2.675464e-01 -5.473011e-01  1.432450e+00  2.667839e-01
##   [9599,]  5.913828e-01 -9.096131e-01  3.068929e-02  5.073411e-01
##   [9600,]  5.369163e-01 -1.270983e+00  4.453527e-02  5.444374e-01
##   [9601,] -4.539200e-01  3.218816e+00  1.152915e-02  2.306780e-01
##   [9602,]  1.317866e+00  1.648436e+00 -5.256208e-01  1.000133e+00
##   [9603,] -7.852167e-01 -4.890663e-01 -2.073231e+00  3.256373e+00
##   [9604,] -4.981826e-01  9.511429e-01  8.541699e-01  1.217371e+00
##   [9605,]  1.211202e+00  1.071259e-01 -5.290280e-02  5.800377e-01
##   [9606,]  4.820048e-01 -1.720398e-02  1.297529e+00  3.961969e-01
##   [9607,] -1.439465e-01  8.046429e-01 -4.677425e-01  6.995465e-01
##   [9608,] -8.031075e-01 -2.434974e-01 -6.099815e-01  1.494074e+00
##   [9609,] -1.854685e+00  7.775559e-02 -1.074640e+00  2.873240e-01
##   [9610,] -3.690549e-01  8.541054e-01  1.535597e+00 -3.064670e-02
##   [9611,]  5.394593e-01 -8.563353e-01 -1.885745e-01  8.544084e-01
##   [9612,]  3.928969e-01  2.678348e+00 -4.052119e-01  2.174780e+00
##   [9613,] -1.064472e+00  1.036788e+00  7.059907e-01  1.458325e+00
##   [9614,]  5.396925e-01 -4.167411e-01 -2.259390e-02  5.476408e-01
##   [9615,] -7.046239e-01  1.605462e+00 -3.912251e-01  7.574088e-01
##   [9616,]  7.510850e-01 -1.853890e-02 -2.045861e+00  1.184690e+00
##   [9617,]  7.568104e-01  3.351371e-01  1.001709e+00  9.786499e-01
##   [9618,] -1.569782e+00  1.602657e-01 -1.000340e-01  7.216079e-01
##   [9619,]  7.360939e-01  6.489830e-01 -2.912167e-01  2.959868e+00
##   [9620,]  7.550930e-01  7.887275e-01 -1.970421e+00  1.291802e+00
##   [9621,] -1.150397e-01 -1.096958e+00  5.797600e-02  4.377060e-01
##   [9622,] -1.432582e+00  9.612868e-01 -3.444694e-01  2.451612e+00
##   [9623,] -5.284668e-02  1.247431e+00 -5.206780e-01  6.380373e-01
##   [9624,]  1.270609e-01  1.318930e-01 -1.635789e+00  8.858548e-01
##   [9625,] -3.768685e-01  3.040492e-01  1.195929e+00  5.432586e-01
##   [9626,]  1.623590e-01 -2.518769e-01 -6.348782e-01  3.108566e+00
##   [9627,]  6.581152e-01 -7.289597e-01 -1.468718e+00  5.539223e-01
##   [9628,] -1.486164e+00 -9.428468e-01 -3.150172e-01  1.273639e+00
##   [9629,] -1.528501e+00  5.156188e-01  1.172447e+00  6.925895e-01
##   [9630,]  1.024270e+00 -7.453240e-01 -1.096424e+00  2.562035e-01
##   [9631,]  1.196262e+00  1.162307e+00  1.055236e+00  5.944879e-01
##   [9632,] -1.011299e-01 -5.442298e-01  7.323198e-02  2.354068e+00
##   [9633,] -1.373593e+00 -9.206786e-01 -1.804959e+00  1.307982e+00
##   [9634,] -4.863596e-01 -2.697323e-01  8.234761e-01  3.396729e+00
##   [9635,]  1.357419e+00  2.526149e-01 -1.195767e-01  3.046876e+00
##   [9636,] -1.529566e+00  4.554753e-01  1.185547e+00  6.815458e-01
##   [9637,] -7.191115e-01  1.344298e+00  9.719248e-01  9.432570e-01
##   [9638,] -1.204810e-01  2.248993e-01  9.341082e-01  1.133953e+00
##   [9639,]  9.934602e-02 -1.151206e-01 -3.740526e-01  1.356654e+00
##   [9640,]  2.795643e-01 -1.399144e-01 -1.109372e+00  2.471472e-01
##   [9641,] -1.101888e+00 -8.424071e-01  1.452319e+00  2.270354e+00
##   [9642,]  7.248307e-01  1.700052e-02 -1.773619e+00  2.631457e+00
##   [9643,] -3.754354e-01  9.188246e-01  1.161885e+00  6.025435e-01
##   [9644,]  6.955730e-01  1.297413e-01 -1.657101e+00  9.294260e-01
##   [9645,]  4.022449e-02  2.059460e-01 -3.859233e-01  9.932830e-01
##   [9646,]  6.704076e-01  1.318959e+00 -4.120863e-01  1.100858e+00
##   [9647,]  1.150011e+00 -3.253701e-02 -6.302423e-01  2.514993e+00
##   [9648,] -2.445020e+00  1.020531e+00  1.033177e+00  8.063650e-01
##   [9649,]  8.242980e-01  7.590689e-01  8.545899e-01  1.281429e+00
##   [9650,]  1.084152e+00  1.592662e+00  2.243503e-01  2.263660e+00
##   [9651,]  2.222581e-01 -1.734828e-01 -6.211108e-01  1.111816e+00
##   [9652,] -9.637875e-01  2.215404e-02  1.031132e+00  1.159354e+00
##   [9653,] -8.723794e-01 -6.841805e-01  9.990331e-01  1.299364e+00
##   [9654,]  6.433692e-01 -6.978701e-01  1.196883e+00  2.729417e+00
##   [9655,] -6.976029e-01 -6.930187e-01 -1.290066e-01  7.709504e-01
##   [9656,]  6.601825e-01  4.125068e-01  4.208313e-01  7.288939e-01
##   [9657,]  6.111527e-01  2.413735e+00 -4.591234e-01  1.340426e+00
##   [9658,]  1.392045e+00  1.119336e+00  1.054924e+00  2.945650e+00
##   [9659,]  7.110416e-01 -7.971587e-01  1.226470e+00  7.277640e-01
##   [9660,] -6.859341e-01 -1.116553e+00  1.145737e+00  9.753115e-01
##   [9661,] -1.273880e-01 -5.285886e-01 -1.366778e+00  4.182145e-01
##   [9662,] -1.454501e+00  1.842529e+00 -2.030331e+00  1.142235e+00
##   [9663,]  6.137697e-01 -7.759609e-01 -1.951852e-01  8.155906e-01
##   [9664,]  7.750509e-01  4.578491e-01 -7.184543e-01  1.284649e+00
##   [9665,]  8.045049e-01  7.065137e-01  8.259724e-01  1.248693e+00
##   [9666,]  1.254462e+00  1.398942e+00  1.297528e+00  2.359583e+00
##   [9667,] -2.850477e-02  4.766063e-01  1.462983e+00  2.393847e+00
##   [9668,] -2.856579e+00  4.957324e-01  5.518851e-02  1.174894e+00
##   [9669,] -2.149988e-01 -1.090153e+00  1.298140e+00  2.579352e+00
##   [9670,] -7.933330e-01 -8.779084e-01 -3.330073e-01  2.722626e+00
##   [9671,] -4.957949e-01  4.535713e-01 -2.093532e+00  1.335087e+00
##   [9672,]  8.469950e-01  5.007232e-01  2.958717e-01 -2.437874e-01
##   [9673,] -1.903811e+00 -1.054809e-01 -1.445028e+00  1.727952e-01
##   [9674,] -2.573871e-01  1.637466e+00  9.043874e-01  8.036662e-01
##   [9675,]  2.938428e-02 -6.268199e-02 -1.704254e+00  2.992546e+00
##   [9676,] -1.595515e+00 -9.532590e-01  8.421221e-01  8.276757e-01
##   [9677,] -2.664655e+00  3.084851e-01 -1.687536e+00  1.599203e+00
##   [9678,] -1.557463e+00  2.425785e-01 -1.556367e+00  7.247425e-01
##   [9679,]  4.541440e-01  3.498192e-01 -1.125293e+00  7.662155e-01
##   [9680,] -4.366668e-01  9.390171e-01 -3.720381e-02  1.226386e+00
##   [9681,]  1.106295e+00 -1.140386e+00  1.389310e+00  4.716572e-01
##   [9682,] -7.418719e-01 -1.382773e+00 -6.540099e-01  2.578731e+00
##   [9683,]  1.382955e+00  1.678772e-01  1.156356e+00  7.185171e-01
##   [9684,] -1.791569e+00  3.553057e-02  1.342299e+00  5.152296e-01
##   [9685,]  5.937974e-01  6.902374e-02 -1.988393e+00  1.054518e+00
##   [9686,] -1.043803e+00 -1.150387e+00  1.286507e+00  2.681705e+00
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##   [9687,] -3.078954e-01  1.072445e+00  1.488135e+00  1.878253e+00
##   [9688,]  1.417584e+00  6.665355e-01  8.941013e-01  1.165197e+00
##   [9689,]  1.319799e+00  9.771759e-01  1.058064e+00  6.872777e-01
##   [9690,]  3.422574e-01  2.601967e+00  1.348392e+00  2.059644e+00
##   [9691,]  8.414341e-02 -2.838951e-01  1.226386e+00  2.643417e+00
##   [9692,]  4.438423e-01  9.062572e-01  1.126312e+00  6.233170e-01
##   [9693,] -1.427578e+00  9.495220e-01  1.152186e+00  9.297729e-01
##   [9694,]  5.271634e-01 -7.407515e-01 -4.904033e-01  8.117779e-01
##   [9695,]  6.168235e-01  9.978468e-01 -3.627209e-01  8.671563e-01
##   [9696,] -6.004466e-01  2.710557e-01 -2.193606e-01  1.319419e+00
##   [9697,] -5.050342e-01  8.539935e-01 -3.478974e-02  8.440753e-01
##   [9698,]  7.124091e-02 -3.796740e-02 -5.351003e-02  1.088217e+00
##   [9699,] -1.523688e+00 -2.493440e-01  8.891647e-01  1.311482e+00
##   [9700,]  4.592144e-01 -1.039382e+00  1.571280e+00  2.035639e+00
##   [9701,] -6.980568e-01 -4.376605e-01  1.046039e+00  1.035570e+00
##   [9702,] -3.696979e-01 -1.887960e+00  1.496651e+00  2.080293e+00
##   [9703,]  4.985565e-01 -2.838788e-01  1.465117e+00  2.292680e+00
##   [9704,]  7.859438e-01 -5.283006e-01 -2.152468e-01  2.858419e+00
##   [9705,]  1.756274e-01  8.021458e-02 -2.135702e+00  1.346949e+00
##   [9706,]  6.686879e-01 -3.576653e-02  1.066550e+00  2.785228e+00
##   [9707,]  1.419389e-01  5.372951e-01  1.004421e+00  1.040168e+00
##   [9708,] -1.659902e-01 -3.097807e-01 -1.762361e+00  2.716804e+00
##   [9709,]  1.154921e+00 -2.578188e-01  1.219873e+00  2.544979e+00
##   [9710,] -2.370841e+00  3.435211e-01 -1.818923e+00  9.024170e-01
##   [9711,]  1.347125e-02  1.056113e+00  8.666228e-01  1.307936e+00
##   [9712,] -7.258939e-01  1.268399e+00 -2.081477e+00  1.112303e+00
##   [9713,] -1.523308e+00  6.376753e-01 -7.887961e-01  1.215909e+00
##   [9714,] -3.817618e-01  1.286098e+00  5.836835e-02  2.003399e+00
##   [9715,]  8.184609e-02 -9.443933e-01  1.132662e+00  2.885114e+00
##   [9716,] -7.287615e-01 -1.161229e+00  1.140317e+00  8.896761e-01
##   [9717,]  6.076393e-01 -3.312516e-01  8.619189e-01  2.929085e+00
##   [9718,] -1.288211e-01  2.472081e+00 -3.762726e-01  3.618130e-01
##   [9719,]  1.411235e+00  9.139095e-01  2.220760e-02  1.025761e+00
##   [9720,] -9.381888e-01  2.008436e+00  5.445868e-01  2.676199e-01
##   [9721,] -1.330704e-02 -2.983874e-01 -4.022298e-01  1.064324e+00
##   [9722,] -6.709663e-01 -3.122665e-01  3.352826e-01  3.346909e+00
##   [9723,] -2.973848e+00  3.033300e-02  5.851654e-01  1.271471e+00
##   [9724,]  5.518705e-01 -1.055873e+00  1.385923e+00  4.274985e-01
##   [9725,]  6.424078e-01 -7.923277e-01 -8.704110e-01  8.386809e-01
##   [9726,] -3.705639e-02 -9.069425e-01 -2.762099e-01  3.011150e+00
##   [9727,]  7.917619e-01 -5.390986e-03 -6.810453e-01  1.183209e+00
##   [9728,] -1.000995e+00 -6.610331e-01 -1.506807e+00  9.723114e-01
##   [9729,]  4.932542e-01 -9.420554e-01  1.305443e-01  2.768407e-01
##   [9730,] -9.184233e-02 -7.151545e-01  6.000639e-01  2.477755e+00
##   [9731,] -1.937343e-02 -6.279577e-02 -1.084226e+00  1.093714e+00
##   [9732,]  1.024472e+00 -3.215471e-01 -5.304451e-03  3.212038e-01
##   [9733,]  2.760217e-02  3.191160e-01  6.990917e-01  7.047575e-01
##   [9734,]  6.457203e-01 -1.599748e-01  8.686557e-01  1.226984e+00
##   [9735,] -7.074395e-01 -2.342432e-01  9.653219e-01  1.233673e+00
##   [9736,] -5.006321e-01  1.474837e+00 -1.153821e+00  1.047132e+00
##   [9737,]  1.334522e+00  7.347649e-02  1.016244e+00  2.882939e+00
##   [9738,] -1.286240e+00  2.882786e-01 -1.693727e-01  1.679326e+00
##   [9739,] -2.845531e-01  5.368210e-01 -1.482830e+00  1.577292e-01
##   [9740,]  2.480972e-01  1.912664e+00 -4.872314e-01  2.319276e+00
##   [9741,] -4.777810e-02  3.181079e+00  1.148835e+00  1.244173e+00
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##   [9744,]  1.123523e+00  4.094144e-01  8.971815e-01  2.399305e+00
##   [9745,]  9.582707e-01  1.503538e+00  1.466713e+00  1.862615e+00
##   [9746,] -7.452428e-02 -3.549391e-01 -5.307346e-01  1.145113e+00
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##   [9755,] -1.363121e+00  4.306509e-01  1.001394e+00  2.685473e+00
##   [9756,] -1.711242e+00 -1.999865e+00  1.269987e+00  9.432441e-01
##   [9757,]  5.221027e-01  3.678698e-02 -8.758004e-01  6.638249e-01
##   [9758,] -3.221127e-02 -5.637799e-01  9.927028e-01  3.084326e+00
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##   [9762,] -7.954493e-01 -1.291762e+00 -1.484967e-01  8.906951e-01
##   [9763,] -2.206553e-01  1.361330e+00 -6.285155e-02  2.766898e-01
##   [9764,] -2.272659e-01  2.150969e+00  9.942736e-01  1.042191e+00
##   [9765,]  3.597143e-02  1.593221e+00  1.463740e+00  1.799496e+00
##   [9766,]  5.899918e-01 -3.560071e-01 -2.081105e-01  8.037374e-01
##   [9767,] -9.574764e-01 -8.710415e-01  1.103632e+00  2.935959e+00
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##   [9776,] -9.231232e-01 -1.421350e+00 -8.218439e-01  5.300590e-01
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##   [9778,]  5.230323e-01 -5.078200e-01  2.335774e-01  5.865238e-01
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##   [9780,]  1.726948e-01 -9.881641e-02 -6.670287e-01  1.537709e+00
##   [9781,]  7.734038e-02  5.653822e-01 -1.562248e+00  1.034347e+00
##   [9782,] -1.456356e+00  1.402909e+00  5.791145e-01  7.317150e-01
##   [9783,] -1.299297e+00  8.121108e-01  1.036987e+00  8.638178e-01
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##   [9787,]  5.325504e-01  3.836720e-03 -2.785724e-01  9.346605e-01
##   [9788,] -3.103850e+00  5.005174e-01  1.259241e+00  2.456748e+00
##   [9789,]  6.871882e-03  7.620608e-01 -1.517274e+00  7.205782e-01
##   [9790,] -3.338937e-01 -3.536457e-01 -1.616799e+00  4.778218e-01
##   [9791,] -7.461458e-01 -1.403776e+00 -1.611511e+00  7.141577e-01
##   [9792,] -2.364032e-01  4.696791e-01 -3.912951e-01  6.098061e-01
##   [9793,] -1.094143e-01  3.468209e-01  8.855312e-01  1.181594e+00
##   [9794,] -4.553808e-01  2.253675e+00  8.092586e-01  1.410734e+00
##   [9795,] -2.167203e-01 -8.986518e-01  1.417147e+00  2.374578e+00
##   [9796,] -1.419520e+00 -1.270956e-02 -6.902668e-02  4.068215e-02
##   [9797,]  7.153971e-01 -3.211740e-01 -1.335892e+00  9.575811e-01
##   [9798,]  1.234775e+00 -4.897459e-01  1.255509e-01  4.061518e-01
##   [9799,] -8.797395e-02 -3.376412e-02 -5.428923e-02  6.205469e-01
##   [9800,]  1.266264e+00  5.553023e-02 -1.426179e-01  2.794060e+00
##   [9801,] -8.099538e-01  9.010395e-01  1.053886e+00  7.342022e-01
##   [9802,]  4.754006e-01 -7.044097e-01 -1.495736e+00  3.118796e-01
##   [9803,]  6.405461e-01 -5.152130e-01 -1.563446e+00  7.415702e-01
##   [9804,] -4.788999e-01 -4.913534e-01 -8.041863e-01  1.506850e+00
##   [9805,] -4.810455e-01  1.038981e+00 -1.197397e+00  1.746684e+00
##   [9806,] -6.548289e-01  1.558480e-01 -5.027489e-02  6.981065e-01
##   [9807,] -1.014363e-01  1.460977e-01 -1.612733e+00  3.618505e-01
##   [9808,] -2.566825e-01  1.539471e-01  4.014458e-01  2.173131e+00
##   [9809,] -8.734971e-01  9.883050e-01  1.114435e+00  2.623853e+00
##   [9810,]  7.918552e-02 -4.143689e-01 -1.877555e-01  7.820363e-01
##   [9811,]  1.169016e+00  1.177818e-01 -1.392847e+00  7.075289e-01
##   [9812,]  6.091153e-01  5.788768e-01  5.649823e-01  1.180509e+00
##   [9813,]  7.239126e-01 -8.798037e-02 -1.712981e+00  9.890234e-01
##   [9814,]  6.048161e-01 -9.102874e-01  1.267492e+00  2.613396e+00
##   [9815,]  5.056683e-01 -3.857292e-01  1.333149e+00  4.053854e-01
##   [9816,]  6.887074e-01  2.000023e+00 -2.480160e-01  9.328937e-01
##   [9817,] -1.099038e+00 -5.050022e-01  1.198358e+00  7.963367e-01
##   [9818,]  1.064845e-01 -4.828263e-01 -2.221720e-01  8.428744e-01
##   [9819,] -1.021475e+00  5.817285e+00  7.623947e-01  2.044799e+00
##   [9820,]  5.070579e-01  3.043793e+00  1.188536e+00  2.502303e+00
##   [9821,] -5.576409e-01 -2.270583e-01 -1.772474e+00  3.148337e+00
##   [9822,]  8.488481e-01  3.191947e-01 -4.492983e-01  2.984007e+00
##   [9823,] -6.880134e-01  7.048380e-01 -1.698791e+00  8.731785e-01
##   [9824,]  1.573402e+00  3.397806e-01 -3.166022e-02  1.186284e+00
##   [9825,]  1.473738e+00  5.398246e-01  9.807195e-01  2.975978e+00
##   [9826,] -8.136100e-01 -6.658305e-01 -5.050028e-01  1.007837e+00
##   [9827,]  6.570094e-01 -1.407315e-01 -4.671827e-01  9.748595e-01
##   [9828,]  1.273865e+00 -1.843679e-02 -1.574634e+00  6.769262e-01
##   [9829,] -1.741407e+00 -6.587023e-02  1.253239e+00  3.094336e-01
##   [9830,]  1.128894e+00 -1.112398e+00  1.408195e+00  2.365841e+00
##   [9831,]  2.758266e-01  1.705535e-01 -1.174964e+00 -2.176706e-01
##   [9832,] -1.068217e+00 -1.705527e+00  1.328987e+00  7.242561e-01
##   [9833,] -1.039931e-01 -5.177006e-01 -1.783251e+00  2.831097e+00
##   [9834,]  1.400684e+00  2.812219e-01  9.993391e-01  2.921427e+00
##   [9835,]  8.404619e-01  3.632161e-01 -1.950103e+00  2.945995e+00
##   [9836,] -1.477879e+00  2.297539e-01 -9.627118e-02  8.496481e-01
##   [9837,]  5.802644e-01 -2.818092e-01 -9.941024e-01  3.993130e-01
##   [9838,]  7.918915e-01  3.827004e-01 -6.413352e-01  3.139617e+00
##   [9839,]  1.146816e+00 -2.604564e-01 -1.055856e-02  3.986326e-01
##   [9840,]  1.399452e+00  4.656855e-01 -1.188434e+00  9.108956e-01
##   [9841,] -1.044656e+00  1.801637e+00  8.845984e-02 -9.770429e-02
##   [9842,]  1.203513e+00 -1.397521e-02 -2.068183e-01  3.611942e-01
##   [9843,]  1.416204e+00  1.025955e+00 -1.745999e-01  2.947057e+00
##   [9844,]  1.067738e+00 -2.753963e-02 -1.893134e-01  4.267580e-01
##   [9845,] -1.853328e+00 -8.185706e-01  1.278575e+00  7.461261e-01
##   [9846,]  4.405414e-01 -7.360262e-01 -1.093179e+00  2.176218e+00
##   [9847,]  1.380810e-01 -5.376114e-01  1.072929e+00  9.307012e-01
##   [9848,]  1.146219e+00  7.219044e-02 -1.245695e+00  6.749666e-01
##   [9849,]  1.066906e+00  6.762105e-01  1.367403e+00  3.097487e-01
##   [9850,] -1.292031e-03 -6.201478e-01  1.212581e+00  7.749852e-01
##   [9851,] -9.496620e-01  1.385821e+00  1.315406e+00  1.985257e-01
##   [9852,] -5.809004e-02 -5.827811e-01  2.221249e-02  2.280330e+00
##   [9853,] -7.078917e-01  1.155570e+00 -4.414413e-01  6.687991e-01
##   [9854,] -1.546425e+00 -4.502100e-01  1.839602e-01  4.634827e-01
##   [9855,] -2.531259e+00  2.775878e-01 -1.240950e+00  2.041362e+00
##   [9856,]  5.408652e-01 -6.362883e-01  1.296417e+00  6.447245e-01
##   [9857,] -7.270480e-01  4.851823e-01  1.286814e+00  2.435784e+00
##   [9858,] -2.483627e+00  1.302488e+00  6.029013e-01  9.389831e-01
##   [9859,] -9.487759e-01  1.859362e-01 -1.305030e+00  2.148969e-01
##   [9860,] -2.208521e+00  4.541130e-01  1.070212e+00  1.044322e+00
##   [9861,] -1.218865e+00 -1.855285e-01  1.543724e+00  2.780760e-02
##   [9862,]  1.169375e+00  1.047326e+00 -2.709612e-01  8.526773e-01
##   [9863,]  1.177275e+00 -1.372203e-01  1.428376e+00  2.186490e+00
##   [9864,] -9.436691e-01  1.600750e+00  1.073775e+00  8.635962e-01
##   [9865,]  1.270285e+00  1.769043e-01 -1.708682e+00  2.518116e+00
##   [9866,]  1.532239e-01 -1.860814e-01 -1.066559e+00  3.011404e+00
##   [9867,] -1.685293e+00  1.140438e+00  8.086973e-01  1.383472e+00
##   [9868,]  2.371296e-01  8.603974e-01  1.652168e+00  1.707759e+00
##   [9869,]  1.888056e-01 -5.220205e-01 -1.825619e+00  9.593686e-01
##   [9870,] -1.855500e+00  1.210316e+00  1.148089e+00  5.425574e-01
##   [9871,] -1.428570e+00 -6.325090e-01  6.634926e-01  1.811261e+00
##   [9872,]  1.257690e+00  2.792941e-01  1.270931e+00  4.398642e-01
##   [9873,] -1.359512e+00  4.745714e-01  3.530810e-01  1.281407e+00
##   [9874,] -3.631337e-01  2.894629e+00 -3.760025e-01  2.048411e+00
##   [9875,] -8.863825e-01 -1.570560e+00  1.544086e+00  2.262544e+00
##   [9876,]  4.669606e-01  3.647994e-01  1.062560e+00  8.451718e-01
##   [9877,] -2.284577e+00 -1.639207e-03  4.736771e-01  1.214421e+00
##   [9878,] -1.321494e+00 -5.510976e-01 -8.050096e-01  1.503164e+00
##   [9879,] -7.463956e-01 -7.587389e-01  9.966322e-01  3.135865e+00
##   [9880,] -1.133001e-01 -2.034553e-01  5.674114e-02  3.345282e-01
##   [9881,]  2.734612e-01 -4.370117e-01  9.343480e-01  1.253036e+00
##   [9882,]  1.355881e+00  6.165200e-01 -3.561501e-01  9.947979e-01
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##   [9883,]  1.394146e+00  2.510486e-01  9.908941e-01  1.055040e+00
##   [9884,]  5.744034e-01 -1.056157e+00 -1.440669e+00  6.168289e-01
##   [9885,]  7.761438e-01 -1.128921e-01 -1.149226e+00  9.186684e-01
##   [9886,]  5.654359e-01  1.625846e-01 -1.448374e+00  2.804867e+00
##   [9887,]  6.426787e-01  1.396613e-01 -1.745807e+00  7.022646e-01
##   [9888,]  1.422221e+00  8.692088e-01 -8.173074e-01  8.532702e-01
##   [9889,]  1.404833e+00  3.618402e-01  6.173650e-03  2.765893e+00
##   [9890,]  1.192617e+00  8.051700e-01 -1.481807e+00  2.578322e+00
##   [9891,] -2.311906e+00  1.429902e+00  7.892726e-01  7.020502e-01
##   [9892,]  1.109627e+00 -5.091126e-01  1.469880e+00  2.720616e-01
##   [9893,]  3.133701e-02 -7.260646e-01 -1.627219e+00  2.592934e+00
##   [9894,] -1.599686e+00 -1.277189e-01  1.249038e+00  6.525724e-01
##   [9895,]  1.696761e-01 -7.260883e-01 -1.893426e-01  9.381301e-01
##   [9896,]  1.152225e+00  2.405856e-01  1.215492e+00  2.579100e+00
##   [9897,]  1.244228e+00  4.339939e-01 -1.464231e+00  2.757790e+00
##   [9898,]  1.192633e+00  3.207849e-01  1.050443e+00  8.662122e-01
##   [9899,] -1.167332e-01 -1.171601e+00  1.295661e+00  2.594197e+00
##   [9900,]  4.588321e-01 -9.058820e-01  3.127089e-01  2.451104e+00
##   [9901,] -1.388984e-01  1.535045e-01  1.246300e+00  3.076141e-01
##   [9902,] -6.756753e-01 -5.412763e-01 -4.719391e-01  1.053445e+00
##   [9903,] -1.257721e+00  3.574716e-01  1.276150e+00  5.192005e-01
##   [9904,] -4.643175e-01  7.479986e+00 -4.653659e-01  2.128585e+00
##   [9905,]  3.365893e-01 -2.675211e-01  1.192867e+00  2.025557e+00
##   [9906,] -5.391948e-02 -1.092772e+00  1.317028e+00  6.882197e-01
##   [9907,]  7.506307e-01  1.072199e+00  8.943344e-01  1.057510e+00
##   [9908,]  5.702965e-01 -6.485198e-02 -1.247800e+00  7.473303e-01
##   [9909,]  1.539999e-01 -4.949873e-01 -4.376026e-01  1.130588e+00
##   [9910,]  2.911382e-01  3.117432e+00  1.380333e+00  2.248168e+00
##   [9911,] -1.539210e+00  2.097205e+00  1.164529e+00  3.719828e-01
##   [9912,] -2.134140e-01 -7.081932e-02  1.022405e+00  6.579249e-01
##   [9913,] -8.039117e-01  5.740743e-01 -2.499117e-02  7.731822e-01
##   [9914,]  5.143811e-01  1.077911e+00  8.887276e-01  1.051095e+00
##   [9915,] -9.001437e-01 -1.474572e+00 -1.387116e-02  5.702060e-01
##   [9916,]  1.041200e+00  5.299179e+00  8.763927e-01  4.059218e+00
##   [9917,] -8.761413e-01 -3.952234e-02  5.071296e-01  1.974447e+00
##   [9918,]  1.397811e+00 -5.740217e-02  9.787115e-01  1.044182e+00
##   [9919,] -7.550597e-01  1.637454e+00 -4.454851e-01  8.836038e-01
##   [9920,] -4.330594e-01  1.762097e+00 -2.554507e-02  1.966318e+00
##   [9921,] -2.540558e+00  7.215735e-01  1.255927e+00  2.374665e+00
##   [9922,]  6.469374e-02  1.313642e+00 -7.544613e-01  1.793773e+00
##   [9923,] -1.302045e-01  2.521602e+00  1.160765e+00  4.286567e-01
##   [9924,] -7.021283e-01 -1.159779e+00 -1.161688e+00  2.716674e+00
##   [9925,] -1.005962e+00  1.207700e+00  2.550294e-02  4.036766e-01
##   [9926,]  1.180506e+00  2.810969e-01 -4.336438e-01  6.440038e-01
##   [9927,]  1.117959e+00 -4.457290e-01 -7.745145e-02  5.754972e-01
##   [9928,] -8.076803e-01  2.463215e+00 -1.504065e-01  2.710704e-01
##   [9929,] -3.712771e-01 -8.340328e-01 -1.090676e+00 -9.486486e-02
##   [9930,] -1.054452e-01 -1.077980e+00 -8.889136e-01  2.241003e+00
##   [9931,] -3.035068e-01 -1.263781e+00  3.691347e-01 -5.440764e-02
##   [9932,]  5.851512e-01  1.449115e+00 -2.378270e-01  6.723783e-01
##   [9933,]  1.235126e-01 -1.145963e-01  2.186224e-01  8.961507e-01
##   [9934,]  1.099336e+00  7.040763e-01  1.157722e+00  5.618100e-01
##   [9935,]  5.740739e-01  4.394076e-01 -4.497127e-01  2.560153e+00
##   [9936,] -6.484408e-01 -3.373197e-01 -1.608099e+00  1.531189e+00
##   [9937,] -6.251121e-01  1.435830e-01 -2.029501e-01  7.978085e-01
##   [9938,] -1.162868e+00 -8.343585e-01 -5.700304e-01  1.660147e+00
##   [9939,]  1.401841e+00  7.231192e-01 -3.361308e-01  1.211888e+00
##   [9940,] -3.256126e-01 -2.055853e-01  1.585347e+00  2.151489e+00
##   [9941,]  1.424942e+00  2.214129e-01 -4.289130e-01  9.591295e-01
##   [9942,]  1.966159e-01  1.654658e+00 -1.577100e+00  3.124042e-01
##   [9943,] -5.287264e-01  2.319699e+00  1.356901e+00  1.887235e-02
##   [9944,]  5.071370e-01  5.350391e-01  3.592166e-01  4.785958e-01
##   [9945,] -2.205424e+00  4.650936e-01  1.552775e-01  1.035947e+00
##   [9946,] -2.429538e+00 -1.192309e+00  1.434814e+00  5.357778e-01
##   [9947,] -2.121184e-01  5.930719e-02  1.434760e+00  2.560308e-01
##   [9948,] -8.163611e-02  5.488008e-01  3.303354e-01  5.994718e-01
##   [9949,] -1.788275e-01 -2.810589e-01 -1.620685e-01  7.095871e-01
##   [9950,]  1.336466e+00  2.173905e+00 -2.652354e-01  9.230241e-01
##   [9951,] -2.709012e-01  1.186937e+00 -1.391678e+00  3.546011e-01
##   [9952,]  6.840239e-02  7.300697e-01  1.086770e+00  8.034162e-01
##   [9953,]  5.711659e-01  7.535226e-02  1.095742e+00  8.244619e-01
##   [9954,] -7.655866e-01 -6.785728e-01 -1.097371e+00  9.905217e-01
##   [9955,]  1.145765e+00  2.322444e-01 -6.020208e-02  6.864974e-01
##   [9956,]  6.715424e-01 -6.252368e-01 -1.484522e+00  9.235957e-01
##   [9957,]  8.945857e-01  5.425813e-01  9.488080e-02  1.315738e+00
##   [9958,] -1.100713e+00  1.887345e+00  1.389647e+00  2.114683e+00
##   [9959,]  3.029783e-01  9.036252e-01 -8.517478e-01  4.800965e-01
##   [9960,] -5.277537e-02  1.760563e+00  5.650568e-02  1.003017e+00
##   [9961,] -1.318592e-01 -1.008722e-02 -3.699015e-01  5.997894e-01
##   [9962,]  8.101018e-01  6.951558e-02 -1.692754e+00  2.841951e+00
##   [9963,]  4.667688e-01 -7.231014e-01 -3.135325e-01  6.436007e-01
##   [9964,]  5.468571e-01 -8.351050e-01 -5.157827e-02  6.292651e-01
##   [9965,]  6.794109e-01  9.603921e-02  1.110085e+00  2.800623e+00
##   [9966,] -1.734394e-01  1.202595e+00 -1.752150e+00  1.021009e+00
##   [9967,]  4.508178e-02 -1.139076e+00 -9.992950e-02  8.051759e-01
##   [9968,]  1.323494e+00 -2.500237e-02 -2.601657e-02  2.521861e+00
##   [9969,]  6.161010e-01 -1.083956e+00 -4.785578e-02  6.585636e-01
##   [9970,] -1.934424e+00  2.095124e-01  7.648629e-01  1.499603e+00
##   [9971,] -2.011094e-01 -1.165777e+00 -5.049602e-01  2.133814e+00
##   [9972,]  1.130645e+00  8.610574e-01  5.011745e-01  4.162622e-01
##   [9973,] -2.066654e+00  3.742913e-01 -8.064170e-01  3.211920e+00
##   [9974,] -1.745768e+00  5.162056e-01  8.755663e-01  2.712301e-01
##   [9975,] -6.036436e-01 -2.931272e-01 -1.188452e+00  1.020246e+00
##   [9976,] -1.389812e+00 -7.286783e-01 -1.797790e+00  3.141744e+00
##   [9977,]  7.738113e-01 -5.228571e-01  5.228373e-01  2.703341e+00
##   [9978,]  5.301761e-01 -1.791813e-01 -1.368492e+00  2.684498e+00
##   [9979,] -1.358800e+00  5.261291e-01  1.151248e+00  6.859325e-01
##   [9980,] -7.909300e-01  4.676907e-01 -1.816463e+00  8.010240e-01
```

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##   [9981,] -2.720565e-01  1.723909e+00  9.523602e-01  7.642388e-01
##   [9982,] -2.869463e+00  1.067485e+00  5.155469e-01  3.085457e+00
##   [9983,] -6.249502e-01 -5.071926e-01 -5.667521e-01  1.135004e+00
##   [9984,]  4.914637e-01 -2.540723e-01  2.013655e-01  5.540565e-01
##   [9985,]  8.186460e-01  1.142771e-01 -2.551034e-01  2.895636e+00
##   [9986,] -6.741226e-02  7.695221e-01  6.708024e-01  2.512797e+00
##   [9987,]  1.376921e-01  1.908339e-01  1.008736e+00  1.178746e+00
##   [9988,]  4.737389e-01  9.070635e-01 -1.401718e+00  2.468723e+00
##   [9989,] -8.398070e-01  1.211337e+00  3.094072e-01  2.582758e+00
##   [9990,]  2.973379e-01  1.407254e+00  4.955711e-01  2.195718e+00
##   [9991,] -4.708366e-02  9.501245e-01 -1.829186e+00  1.104890e+00
##   [9992,] -9.105890e-01  1.007725e+00  6.810710e-02  5.245880e-01
##   [9993,] -9.410318e-01  8.967117e-01  1.496191e+00  1.185084e-01
##   [9994,]  1.330967e+00  6.382112e-01 -1.450673e+00  6.101514e-01
##   [9995,] -9.343116e-01  1.116406e-02  9.877634e-01  3.014505e+00
##   [9996,] -1.630662e+00  4.471851e-01 -6.822459e-02  8.858258e-01
##   [9997,] -2.019962e+00  8.044049e-01  1.267938e-01  1.571733e+00
##   [9998,] -2.270422e+00  3.922012e-02  8.320251e-01  2.695824e+00
##   [9999,]  1.085912e+00  5.664632e+00 -3.962716e-01  4.061768e+00
##  [10000,] -9.096371e-02  2.802177e+00 -3.630217e-01  1.109113e+00
##  [10001,]  1.197240e+00  8.211299e-01  1.105110e+00  7.814378e-01
##  [10002,]  4.680914e-01 -9.908589e-01  1.356185e+00  2.500577e+00
##  [10003,] -3.726171e-01 -6.649717e-01  1.647087e+00 -2.378572e-02
##  [10004,]  5.009280e-01  3.186884e-01  1.187929e+00  5.856460e-01
##  [10005,]  1.788968e-01 -8.527323e-01  9.099908e-01 -2.531553e-02
##  [10006,] -1.601334e+00  3.917016e-01 -6.801995e-01  6.780442e-01
##  [10007,]  7.855436e-01  5.520297e-02 -1.542528e+00  1.283010e+00
##  [10008,]  7.962186e-01  9.687660e-01  7.410614e-01 -2.745389e-02
##  [10009,]  6.864132e-01 -3.627127e-02 -3.152189e-01  8.788957e-01
##  [10010,] -2.890692e-01  6.649468e-01  2.824166e-01  3.424153e-01
##  [10011,] -2.386959e-01  1.657152e+00  2.764824e-01  2.319093e+00
##  [10012,]  7.346232e-01 -1.541887e-01  5.414611e-01  1.189471e+00
##  [10013,] -1.669901e+00  1.319381e+00  1.155185e+00  1.849569e+00
##  [10014,]  2.895603e-01  4.049679e-01  8.621778e-01  3.398847e+00
##  [10015,] -8.017937e-01  9.553544e-01  1.355009e+00  2.298813e+00
##  [10016,] -6.685845e-01 -9.880863e-01  1.213844e+00  2.673854e+00
##  [10017,] -1.904840e+00 -5.477850e-02  4.760728e-01  2.040496e+00
##  [10018,]  1.334163e+00  1.397493e-01  1.185567e+00  2.714970e+00
##  [10019,]  8.453628e-01  9.106524e-02  9.843136e-01  2.995662e+00
##  [10020,]  7.574226e-01  3.471359e-01  1.406215e-01  1.190898e+00
##  [10021,]  6.710174e-01  3.910017e-01 -1.889867e+00  9.162000e-01
##  [10022,]  7.286728e-01  7.474251e-01 -1.782610e+00  9.079767e-01
##  [10023,] -1.049018e-02  1.202799e+00  1.181013e+00  2.415964e+00
##  [10024,] -2.530853e+00  1.258342e+00 -1.013931e-02  7.889395e-01
##  [10025,] -5.514875e-01  8.379223e-02  1.276743e+00  2.494590e+00
##  [10026,]  1.453269e-02  5.145289e-01 -1.925138e+00  1.401796e+00
##  [10027,]  9.418846e-01  4.469656e-01 -7.451132e-01  1.358590e+00
##  [10028,] -1.624534e+00  2.638984e-01  1.175843e+00  6.576850e-01
##  [10029,] -1.153959e+00  3.827726e-01  4.371993e-01  1.829158e+00
##  [10030,]  2.009479e-01 -4.543893e-01 -1.819408e+00  2.840284e+00
##  [10031,]  1.231259e+00 -3.370592e-01  1.256257e+00  5.988132e-01
##  [10032,] -8.192823e-01  1.960126e+00 -6.579267e-01  2.420936e-01
##  [10033,]  5.237675e-02  2.082280e-01  7.292332e-01  1.544798e+00
##  [10034,]  7.440294e-01  7.099496e-01  8.771242e-01  1.199643e+00
##  [10035,]  1.088111e+00  2.213753e-01  1.176000e+00  6.092698e-01
##  [10036,]  6.764657e-01  3.031415e-01  2.387649e-01  2.779274e+00
##  [10037,]  2.615887e-02  1.409161e+00  2.478638e-01  2.581835e+00
##  [10038,]  7.233267e-01  1.862926e+00 -1.758174e-01  2.995427e+00
##  [10039,] -1.451174e+00  7.706937e-01 -4.460493e-01  8.258450e-01
##  [10040,]  2.173786e-01 -2.225381e-01  9.483210e-01  1.153284e+00
##  [10041,] -1.013613e-01  4.752408e-01  1.400548e+00  2.284574e+00
##  [10042,] -1.891589e+00  1.604778e+00  1.181053e+00  4.885407e-01
##  [10043,]  6.971687e-01 -4.281595e-01  1.001824e+00  1.068925e+00
##  [10044,] -6.606275e-01 -8.720198e-02 -1.731757e+00  1.087191e+00
##  [10045,]  1.313693e+00  1.544296e+00  4.182580e-01  6.718286e-01
##  [10046,]  1.043547e-01 -3.030855e-01 -4.835503e-01  8.221389e-01
##  [10047,]  2.685528e-02 -5.414105e-01  9.552161e-01  1.187511e+00
##  [10048,] -3.933065e-01  1.574327e+00  8.991088e-02 -3.035280e-03
##  [10049,]  4.566963e-01  9.492749e-01 -1.352390e+00  3.931078e-01
##  [10050,] -8.052497e-01 -2.627222e-01  1.085533e+00  3.024789e+00
##  [10051,]  6.501212e-02 -4.148530e-01 -1.802191e+00  8.887962e-01
##  [10052,]  2.297979e-01 -1.543060e-01  3.314633e-01 -7.975976e-02
##  [10053,]  2.003032e-01 -5.549033e-01 -4.544175e-01  1.277268e+00
##  [10054,]  7.638944e-01 -1.467164e-02 -3.127705e-01  2.744752e+00
##  [10055,]  7.759543e-01 -3.235379e-02 -1.503715e+00  2.855957e+00
##  [10056,] -8.941142e-01 -8.476928e-01 -1.046725e+00  2.078566e+00
##  [10057,] -2.997372e-01  2.986136e-01 -1.802876e+00  6.593096e-01
##  [10058,] -5.646697e-01 -8.654228e-01 -1.035410e-01  2.878692e+00
##  [10059,]  1.191910e+00 -4.571370e-01 -1.179356e-02  7.104241e-01
##  [10060,] -1.141575e+00 -1.640210e+00 -1.294859e+00  4.831958e-01
##  [10061,] -4.677772e-01  3.777856e-01  1.233127e+00  4.869635e-02
##  [10062,]  1.170626e-01  1.726386e-01 -7.315061e-01  1.403278e+00
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##  [10064,] -2.562090e-01  1.278173e+00  1.303976e+00  3.033737e-01
##  [10065,]  4.132792e-01 -1.108028e+00  3.328327e-01  1.890790e+00
##  [10066,] -2.309613e+00 -5.821946e-02 -8.729748e-02  1.156094e+00
##  [10067,] -2.061874e+00  6.608130e-01 -5.501779e-01  1.434147e+00
##  [10068,] -3.011311e-01 -1.127068e+00 -1.067299e+00  1.378708e-02
##  [10069,]  1.903510e-01 -5.813864e-01  8.976297e-01  1.024668e+00
##  [10070,] -8.775524e-01  1.747689e+00  7.231682e-01  1.300813e+00
##  [10071,]  6.222966e-01 -3.253294e-01 -1.927106e-01  2.718442e+00
##  [10072,] -6.363620e-01  1.252721e+00 -1.261268e-01  5.138810e-01
##  [10073,]  8.396396e-01  6.264807e-01 -3.707101e-01  1.173492e+00
##  [10074,]  3.800477e-01 -1.245825e+00  1.627929e+00  1.660437e-01
##  [10075,] -1.477693e+00  2.753482e+00 -6.467372e-01  8.140662e-01
##  [10076,]  5.851018e-02  1.186488e+00 -3.952534e-01  2.828561e+00
##  [10077,] -8.868310e-01 -1.474830e+00  1.100747e+00  4.353134e-01
##  [10078,]  1.309929e+00  1.251726e+00 -1.366515e+00  1.124992e+00
```

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## [10079,]  1.361136e+00 -1.975221e-01  4.242417e-01  7.729200e-01
## [10080,] -2.421446e-01 -9.075312e-01  1.566810e+00  1.577188e-01
## [10081,] -7.053630e-01  7.030026e-01 -8.892543e-01  1.027252e+00
## [10082,] -6.372326e-01  1.412051e+00  7.358850e-01  1.124873e+00
## [10083,] -1.436812e+00 -2.580118e-02  7.970499e-01  8.310430e-01
## [10084,] -3.343878e-01  3.013609e+00 -1.728941e+00  8.272540e-01
## [10085,] -3.620475e-01 -1.918591e-01  7.273877e-01  1.583124e+00
## [10086,] -1.574682e+00 -2.505838e-01  2.685090e-02  4.101994e-01
## [10087,] -2.345382e+00  1.116824e+00 -1.644178e+00  9.940079e-01
## [10088,]  1.396425e+00  1.289902e-01  1.115330e+00  7.583829e-01
## [10089,]  1.306062e+00  1.492147e+00  1.248824e+00  2.486760e+00
## [10090,] -4.485106e-01 -4.687683e-01 -1.221229e-01  3.141782e+00
## [10091,]  1.232623e+00  1.325280e+00  3.567704e-03  4.401692e-01
## [10092,] -1.486649e-01 -4.171796e-01 -3.132961e-01  9.316622e-01
## [10093,] -1.461150e+00 -2.435268e-01 -1.757474e+00  1.168045e+00
## [10094,]  2.006299e-01 -3.896281e-01  8.754634e-01  1.307295e+00
## [10095,] -9.087678e-01  1.662562e-01  1.282843e+00  4.062284e-01
## [10096,]  7.478430e-03 -3.994337e-01 -1.778290e+00  3.124530e+00
## [10097,]  5.959352e-01  2.186757e-01 -4.538334e-01  6.334748e-01
## [10098,] -3.437663e-01  2.522342e+00 -1.637771e+00  2.018281e+00
## [10099,]  1.236288e+00  2.731311e-01  1.009281e+00  2.817409e+00
## [10100,]  8.425166e-02  2.936961e-01  8.957539e-01  1.120607e+00
## [10101,] -2.304928e-01  2.687983e-02 -1.287035e+00  7.966918e-01
## [10102,] -9.046580e-01  1.391713e-01  1.004490e+00  1.293555e+00
## [10103,]  1.237621e+00  2.623831e-01 -5.639519e-02  9.353400e-01
## [10104,] -9.722907e-01  3.709713e-01  1.193009e+00  5.028429e-01
## [10105,]  1.282798e+00 -8.519088e-03  1.192829e+00  6.317856e-01
## [10106,] -1.409642e+00 -3.952961e-01  2.174849e-01  1.559244e+00
## [10107,]  3.479080e-01  2.443912e+00 -8.096444e-02  3.233507e-01
## [10108,]  4.063709e-01  7.443814e-01  4.139151e-01  2.566287e+00
## [10109,]  1.363562e+00 -1.979280e-02  1.134492e+00  2.664679e+00
## [10110,] -1.070120e+00  3.279154e-01 -3.671953e-01  9.247939e-01
## [10111,] -8.416129e-01  3.131745e-01  5.129003e-01  5.501590e-01
## [10112,]  4.742674e-01  6.785751e-01 -2.390429e-01  2.722456e+00
## [10113,]  3.461017e-01  6.771286e-01 -8.113782e-01  5.362117e-01
## [10114,] -1.686867e-01  3.215151e+00 -1.652193e+00  6.310347e-01
## [10115,]  1.246491e+00  7.227805e-01  7.865597e-01  9.157176e-01
## [10116,] -1.126077e+00  8.425783e-01 -1.541374e+00  2.373027e+00
## [10117,]  1.277213e+00  8.430811e-01  1.184747e+00  5.493369e-01
## [10118,]  1.190229e+00 -8.079974e-02  1.150912e+00  2.653261e+00
## [10119,] -3.444158e-01  1.814585e+00  8.060031e-01  3.657892e+00
## [10120,] -1.304024e-01  7.358600e-01  4.486821e-01  2.231617e+00
## [10121,]  8.251853e-01  6.725754e-02 -7.662838e-01  1.185054e+00
## [10122,] -2.727980e-01 -9.006209e-01  1.472195e+00  2.244761e+00
## [10123,] -6.312265e-01 -1.863035e-01 -5.037952e-01  1.348773e+00
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## [10125,] -9.982143e-01  9.038715e-01  9.100001e-01  4.246416e-01
## [10126,]  1.642839e-01 -1.144635e-01  8.027371e-01  1.368843e+00
## [10127,] -3.153839e-01  2.730445e+00  1.195745e+00  5.232535e-01
## [10128,] -1.104482e+00  2.357814e-01 -5.626855e-01  9.592677e-02
## [10129,]  9.885550e-01  7.571571e-01  7.213973e-01  1.563622e+00
## [10130,] -3.326098e-01 -1.714092e+00 -1.044772e+00  1.929247e+00
## [10131,]  1.109956e+00  1.226441e+00 -1.877510e+00  7.070779e-01
## [10132,] -7.962830e-01  1.886028e+00 -3.983131e-01  7.733441e-01
## [10133,] -3.423598e-01  2.413937e+00  3.410527e-01 -1.125691e-01
## [10134,]  1.313336e+00 -2.107241e-01  1.327303e+00  2.484408e+00
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## [10137,] -6.580995e-01 -4.760381e-01 -4.646485e-01  3.358783e+00
## [10138,]  1.127371e+00  4.358695e+00 -1.730155e+00  4.424779e-01
## [10139,]  6.090398e-01 -1.496834e-01 -1.699404e+00  6.006175e-01
## [10140,] -9.797350e-02 -8.453864e-01  1.066177e+00  1.054439e+00
## [10141,] -5.926530e-01  1.804392e+00 -9.023520e-02  3.079527e+00
## [10142,]  9.592793e-01  2.311058e+00  6.905379e-01 -6.567382e-02
## [10143,]  1.617111e+00  9.553060e-01 -2.842136e-01  1.340023e+00
## [10144,]  8.389265e-01  8.461674e-01 -1.378894e-02  1.197281e+00
## [10145,]  7.220450e-01  8.675399e-02 -4.054166e-01  1.077224e+00
## [10146,] -8.500172e-01  6.395363e-01 -4.796257e-01  7.121415e-01
## [10147,] -4.167566e-01  2.748021e+00  5.850179e-01  3.374790e-01
## [10148,] -9.264170e-01  1.010292e+00  1.272650e+00  2.433447e+00
## [10149,]  3.549656e-01 -6.265824e-01 -9.996058e-01  3.890285e-01
## [10150,]  1.136556e+00  8.975516e-01  1.331028e+00  2.251497e-01
## [10151,]  8.236429e-01 -2.743302e-01  9.037597e-01  1.189840e+00
## [10152,]  1.459661e+00  1.345642e+00 -2.767766e-02  1.169840e+00
## [10153,] -6.688176e-01 -1.377797e+00  1.330853e+00  2.604155e+00
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## [10155,] -1.769867e+00 -1.533976e-01 -7.830006e-01  1.581303e+00
## [10156,] -2.588812e-01 -5.599588e-01 -6.497854e-01  4.339957e-01
## [10157,] -3.336646e-01  2.330735e+00 -1.645156e-01 -1.258494e-01
## [10158,]  6.483732e-01 -3.395354e-01 -1.443722e+00  2.406697e+00
## [10159,] -6.397619e-01  4.872114e-01  1.125853e+00  7.221971e-01
## [10160,] -2.310815e-01 -1.293637e+00  1.422036e+00  4.616933e-01
## [10161,]  1.898492e-01 -4.003706e-01 -1.642006e+00  9.730685e-01
## [10162,] -6.161682e-01  7.085099e-01 -1.102585e+00  7.462489e-01
## [10163,]  1.388696e+00  6.329449e-01 -1.938947e+00  8.961356e-01
## [10164,]  1.263910e+00 -1.560961e-01 -1.900979e+00  9.181949e-01
## [10165,] -1.102196e-01 -1.044762e+00  2.282649e-01  9.736301e-01
## [10166,]  6.615444e-01 -2.181548e-01 -1.785917e+00  8.152058e-01
## [10167,] -8.850886e-01  7.597830e-01  8.170883e-01  1.952807e+00
## [10168,] -2.286761e+00  5.815753e-01  9.358181e-01  1.121991e+00
## [10169,]  1.104695e+00  7.423111e-01  5.051038e-01  2.407004e-01
## [10170,] -4.069284e-01  7.607387e-03  1.436566e+00  2.047291e-01
## [10171,] -1.268006e+00  5.966995e-01 -6.436704e-02  2.356892e+00
## [10172,]  9.185054e-01 -2.129244e-01 -1.733760e+00  1.262138e+00
## [10173,] -3.774515e-02 -8.930496e-01 -3.002393e-01  6.089972e-01
## [10174,] -1.891099e+00 -5.959955e-02  1.124868e+00 -7.414530e-02
## [10175,]  1.437721e+00  3.373360e-01  8.736800e-01  1.188146e+00
## [10176,]  2.375510e-01  9.223498e-02  1.649278e-01  3.008712e+00
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##  [10177,] -6.670231e-01  2.796196e-03  1.335203e+00  5.600717e-01
##  [10178,] -9.595416e-01 -9.887567e-01  9.991367e-01  1.038510e+00
##  [10179,]  6.706421e-01  4.567640e-02 -3.946149e-02  9.251971e-01
##  [10180,]  1.253533e-01 -5.367227e-01 -3.493301e-01  2.894532e+00
##  [10181,]  2.242021e-01  1.076921e-01  3.031087e-01  3.002315e+00
##  [10182,]  4.726977e-01  8.275910e-01  1.172629e+00  2.512475e+00
##  [10183,]  7.534888e-01  8.490862e-02  8.882604e-01  1.256751e+00
##  [10184,] -9.177124e-01  5.788412e-01 -1.286157e-02  7.512007e-01
##  [10185,] -1.055244e-01  8.688694e-01 -4.314280e-03  5.585501e-01
##  [10186,] -1.479037e+00 -2.456579e-01  1.332551e+00  2.532984e+00
##  [10187,] -1.617773e+00  1.876222e+00  1.029712e+00  6.654566e-01
##  [10188,]  1.704641e-01 -2.909582e-01 -6.315865e-01  1.322018e+00
##  [10189,]  5.700422e-02 -4.824896e-01  7.823202e-01  2.858090e+00
##  [10190,]  1.785555e+00  1.118193e+01 -5.801956e-01  4.530217e+00
##  [10191,]  1.377281e+00  3.047104e-01 -5.018591e-01  2.798524e+00
##  [10192,] -1.513900e+00 -2.045917e-01 -1.697313e+00  6.905334e-01
##  [10193,] -6.832237e-01  1.365444e+00 -3.675870e-01  7.738610e-01
##  [10194,] -2.594360e-01 -2.001083e-01 -1.502686e-01  7.261946e-01
##  [10195,]  3.319659e-01  3.362583e-02 -1.093840e-01  1.432162e+00
##  [10196,] -7.753428e-01 -1.070892e+00 -1.580923e+00  9.108147e-01
##  [10197,] -1.508291e+00 -2.194194e-01 -1.081367e+00  5.126369e-01
##  [10198,]  1.192713e+00  4.649756e-01  1.314545e+00  3.101298e-01
##  [10199,]  5.000356e-02 -1.766348e-01 -2.111322e+00  3.273910e+00
##  [10200,]  5.075707e-01 -9.849741e-01  1.558049e+00  2.051732e+00
##  [10201,] -1.971625e+00  6.501271e-01 -1.204761e-01  1.133256e-01
##  [10202,]  4.884163e-01  3.338383e-01  1.040439e+00  8.929148e-01
##  [10203,]  6.085160e-02 -6.837239e-01  1.071449e+00  1.029834e+00
##  [10204,] -1.508608e+00  5.498197e-01  1.005660e+00  8.964520e-01
##  [10205,]  6.700929e-01 -4.363665e-01 -2.014936e-01  2.807557e+00
##  [10206,] -1.376715e+00  4.097185e-01 -1.285718e-02  4.987332e-01
##  [10207,]  9.669607e-01  1.096356e+00  4.532088e-01  2.406445e-01
##  [10208,] -1.364784e+00  1.213304e+00 -6.176291e-01  8.447673e-01
##  [10209,] -1.609111e+00  1.111392e+00 -1.431275e+00  6.395847e-01
##  [10210,]  1.326132e+00  1.052531e-02  1.200935e+00  7.156206e-01
##  [10211,]  5.603630e-02 -4.214971e-02  1.032665e+00  9.927554e-01
##  [10212,]  5.331998e-03 -1.083557e+00  1.290433e+00  2.669129e+00
##  [10213,] -5.597831e-01  9.108762e-01  1.222073e+00  2.557334e+00
##  [10214,] -7.163980e-01 -4.088309e-01 -3.640591e-01  1.372555e+00
##  [10215,]  6.927307e-01  1.318071e+00 -3.337966e-02  2.737668e+00
##  [10216,]  1.330096e+00  1.040324e-01 -6.107662e-01  9.877048e-01
##  [10217,]  8.002577e-01  1.765296e-01 -4.542443e-01  1.355662e+00
##  [10218,] -6.086480e-01  1.392415e+00  6.092144e-01  2.509268e+00
##  [10219,] -6.027794e-01  4.053267e-01  1.264838e+00  2.422883e+00
##  [10220,]  5.400671e-01 -4.301547e-01 -1.176572e+00  2.683920e+00
##  [10221,]  6.285599e-02 -7.515630e-01  1.075823e+00  1.027332e+00
##  [10222,] -4.593968e-01  1.287493e+00 -7.458722e-02  1.830098e+00
##  [10223,]  3.032134e-01 -2.065072e-01  6.597607e-01  1.357348e+00
##  [10224,]  1.162484e+00 -1.421086e-01  1.403791e+00  2.280144e+00
##  [10225,]  3.323935e-01  8.080522e-01  1.413790e+00  3.307112e-02
##  [10226,]  1.354983e+00 -1.586385e-01  1.214634e+00  6.193794e-01
##  [10227,] -6.692994e-01 -1.157208e+00  1.098576e+00  1.021639e+00
##  [10228,]  1.389317e+00  5.214556e-02 -4.736529e-01  1.119646e+00
##  [10229,]  7.071902e-01 -7.536491e-01 -2.363342e-01  9.278465e-01
##  [10230,]  1.128068e-01  1.132649e+00  1.073459e+00  8.369789e-01
##  [10231,]  2.785107e-01  1.819764e+00 -4.912995e-01  5.753190e-01
##  [10232,] -1.264012e-02  5.198240e-01 -1.085618e+00  8.902343e-01
##  [10233,]  2.354782e-01 -1.623586e-02 -4.373657e-01  1.392751e+00
##  [10234,] -9.953148e-01  6.050457e-01  1.266756e+00  1.773056e-01
##  [10235,] -9.854742e-01  2.182748e+00 -2.428266e-01  3.679450e-01
##  [10236,]  7.751568e-01  7.815446e-01 -6.851870e-01  1.557060e+00
##  [10237,] -7.292831e-01  5.836688e-01 -3.002071e-01  8.304861e-01
##  [10238,] -1.004157e+00  3.879159e-01 -1.430622e+00  2.194164e+00
##  [10239,] -2.546617e+00  1.269696e+00 -1.296419e+00  4.870926e-01
##  [10240,]  6.594121e-01  7.045155e-01 -1.653001e+00  1.246528e+00
##  [10241,] -1.195082e+00  7.453563e-01 -7.830782e-03  1.510443e+00
##  [10242,] -1.372398e-01 -7.574884e-01 -1.314084e-01  9.329389e-01
##  [10243,] -2.313637e-01  4.251533e-01 -4.486680e-01  2.666236e+00
##  [10244,] -1.063845e-01 -7.216418e-02  1.223277e+00  6.040711e-01
##  [10245,]  1.618423e-01 -2.549404e-01 -4.720596e-01  3.117449e+00
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##  [10247,]  1.079850e+00  1.024673e+00  2.418168e-01  2.373414e-01
##  [10248,] -1.347162e+00  2.792007e-01  1.241851e+00  5.912105e-01
##  [10249,] -7.893389e-01 -6.088474e-01  4.427653e-01  5.436574e-01
##  [10250,] -7.472266e-01  1.039053e-01  3.067851e-02  4.708947e-01
##  [10251,]  4.809385e-01  1.354283e+00 -2.844335e-01  2.452359e+00
##  [10252,] -1.000567e+00  1.207531e+00 -1.550266e+00  5.520127e-01
##  [10253,]  8.725493e-01  7.545837e-01 -1.344798e-01  1.474465e+00
##  [10254,] -2.243129e+00 -1.961119e-01  1.074671e+00  2.955377e+00
##  [10255,]  2.759404e-01 -9.965993e-01  1.553425e+00  1.985163e-01
##  [10256,]  1.381892e+00  9.144564e-01 -4.309367e-01  9.792879e-01
##  [10257,] -5.117427e-01  2.762538e-01  1.198521e+00  2.615969e+00
##  [10258,] -1.505435e-01  6.086501e-01 -3.012634e-01  8.784943e-01
##  [10259,]  1.618861e-01  4.919716e-01 -2.076535e+00  1.241322e+00
##  [10260,] -8.719742e-01 -6.955900e-01 -1.658299e+00  7.077258e-01
##  [10261,]  8.425984e-01  1.876108e+00  4.782576e-01  1.785136e+00
##  [10262,]  2.149983e-01  2.987596e-01 -1.887324e+00  1.159196e+00
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##  [10264,]  1.097979e+00  5.368399e-01  1.307303e+00  3.818809e-01
##  [10265,]  1.068313e+00  3.498029e-01  8.999901e-01  2.396255e+00
##  [10266,]  5.848176e-02 -4.919289e-01 -1.010526e+00  6.880961e-01
##  [10267,]  1.610865e-01 -5.043445e-01  3.680077e-02  9.384159e-01
##  [10268,] -1.054085e+00 -1.239516e+00  1.208085e+00  8.282055e-01
##  [10269,] -1.788740e+00  3.243861e-01  1.444941e+00  2.098825e+00
##  [10270,] -2.193730e+00  1.867457e+00  7.791924e-01  1.277814e+00
##  [10271,]  6.762183e-01 -1.732878e-01 -6.078948e-02  6.870525e-01
##  [10272,] -6.910869e-01  2.872122e+00  8.560091e-01  8.902929e-01
##  [10273,]  1.348125e+00  1.744592e-01  9.878397e-01  3.037911e+00
##  [10274,] -1.840428e+00  1.068901e+00 -1.039706e+00  1.809141e-01
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##  [10275,]  3.750425e-02 -9.323033e-01  1.240317e+00  2.673310e+00
##  [10276,]  1.283358e+00 -4.985734e-01 -8.321692e-02  6.756122e-01
##  [10277,] -7.853498e-01  1.195987e+00  1.285728e+00  2.546439e+00
##  [10278,] -6.801440e-01  2.789813e+00 -6.131434e-01  6.407626e-01
##  [10279,] -1.281232e+00  2.468424e-01 -3.420185e-01  1.033572e+00
##  [10280,]  1.237696e+00  9.117375e-01  4.315056e-01  2.800188e+00
##  [10281,] -1.771911e+00 -3.928039e-02  1.537464e+00  4.534097e-02
##  [10282,] -4.534549e-01  4.518764e-01  1.000333e+00  9.568042e-01
##  [10283,] -5.410449e-02 -7.570531e-01  1.385904e+00  2.454658e+00
##  [10284,]  1.267583e+00  5.055352e-01  9.383752e-01  1.066403e+00
##  [10285,] -1.503258e+00  1.459098e+00  6.843215e-01  8.473263e-01
##  [10286,]  1.525485e-01  5.879948e-02  1.904470e-02  1.209360e+00
##  [10287,] -1.823974e+00  1.157719e+00  1.154948e+00  2.452691e+00
##  [10288,]  1.431584e+00  1.354142e-01 -1.816928e-01  2.800805e+00
##  [10289,] -2.570110e+00 -5.523907e-02 -1.269458e+00  5.071832e-01
##  [10290,] -9.354719e-01 -2.621987e-01 -4.794048e-01  8.580110e-01
##  [10291,] -1.021644e+00 -2.883201e-01 -7.414660e-01  8.876080e-01
##  [10292,] -1.004510e+00 -1.090141e+00 -1.735473e+00  8.800755e-01
##  [10293,]  2.103967e-01 -2.094850e-01  1.022681e+00  2.970505e+00
##  [10294,]  6.738259e-01 -3.027469e-01  8.495396e-01  1.280453e+00
##  [10295,] -1.481370e+00  9.512303e-01 -3.583610e-01  9.736948e-01
##  [10296,]  1.212041e+00  5.530933e-02  1.091818e+00  8.724718e-01
##  [10297,]  6.331398e-01  9.241913e-01 -1.257609e+00  7.707733e-01
##  [10298,] -8.553515e-01  2.391364e+00  8.546312e-01  2.010010e+00
##  [10299,] -1.944933e+00 -1.386625e-02  1.492776e-01  4.619259e-01
##  [10300,] -4.639118e-01  9.417450e-01  1.070567e+00  9.470881e-01
##  [10301,]  1.274960e+00  5.678957e-01  1.198529e+00  2.510404e+00
##  [10302,] -4.663190e-01  9.895266e-02  8.403822e-01  1.427329e+00
##  [10303,] -1.087164e-01  2.847076e-01 -1.411714e+00  6.844854e-01
##  [10304,] -7.556576e-01  1.415334e+00  1.219508e+00  3.549316e-01
##  [10305,] -1.056484e+00  1.384916e+00  1.263974e-02  2.164453e+00
##  [10306,]  7.583174e-01 -7.993405e-02 -2.377520e-01  2.932073e+00
##  [10307,] -7.589786e-03  2.587138e-01 -1.233892e-01  2.752932e+00
##  [10308,] -5.583039e-01 -3.142269e-01 -2.635607e-02  1.049006e+00
##  [10309,]  4.743881e-01  2.645415e-01 -1.327679e+00  5.450053e-01
##  [10310,] -8.318068e-01 -7.520768e-01  3.784912e-01  2.916126e+00
##  [10311,]  3.110491e-01 -5.123207e-01  9.087276e-01  3.270970e-01
##  [10312,] -9.501580e-01 -1.899800e-01 -4.413658e-01  1.149404e+00
##  [10313,]  1.350997e+00  1.093685e+00  1.062249e+00  1.006136e+00
##  [10314,] -1.168647e-01 -7.531243e-01  1.125551e+00  1.003127e+00
##  [10315,]  6.513841e-01  3.587212e-01 -1.187450e+00  8.959910e-01
##  [10316,]  3.616784e-01 -1.451526e+00  1.735632e+00  1.843862e+00
##  [10317,]  8.181432e-01 -1.879459e-01  1.023794e+00  2.995703e+00
##  [10318,] -6.615283e-01  1.121028e+00  1.344294e+00  2.331237e+00
##  [10319,]  1.339920e+00 -7.655567e-02  1.007231e+00  1.033353e+00
##  [10320,] -2.730961e+00  1.816987e-01 -5.175476e-01  1.398581e+00
##  [10321,] -5.568455e-01  8.301701e-01  8.570381e-01  1.265679e+00
##  [10322,] -5.820113e-01  3.429992e-01 -3.418686e-01  5.616042e-01
##  [10323,] -1.729119e+00  8.509452e-01  2.709036e-01  7.367915e-01
##  [10324,] -2.493170e-01  1.908354e+00 -4.942179e-01  5.813681e-01
##  [10325,]  4.794435e-01 -8.794515e-02  5.727891e-01  8.070419e-01
##  [10326,] -9.888211e-01  7.204748e-01  1.264605e+00  4.381485e-01
##  [10327,]  1.017897e+00 -2.655762e-01  3.652213e-01  2.103930e+00
##  [10328,] -1.373193e+00  1.007943e+00 -7.936377e-01  1.291897e+00
##  [10329,] -6.013547e-01  1.466147e-01  1.005020e+00  1.282613e+00
##  [10330,]  5.415894e-02  1.156859e+00 -5.306752e-01  7.684980e-01
##  [10331,]  1.270152e+00 -8.541581e-02 -1.581959e-01  7.076161e-01
##  [10332,]  4.685008e-01  8.394332e-01  1.003362e+00  9.033326e-01
##  [10333,]  2.522854e-01  7.843867e-02 -2.946777e-01  1.537537e+00
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##  [10335,] -4.106365e-01 -4.764993e-01  3.910472e-01  1.756271e+00
##  [10336,] -1.469539e-01 -3.061387e-01 -1.497270e+00  5.274308e-01
##  [10337,] -1.752777e+00 -1.935923e-01 -1.592975e+00  5.155553e-01
##  [10338,]  1.115043e+00  8.623642e-01  1.138009e+00  6.111011e-01
##  [10339,]  4.989685e-01  9.182897e-01 -3.404887e-01  3.790971e-01
##  [10340,]  6.311922e-01 -7.935237e-01 -3.461180e-01  1.096529e+00
##  [10341,] -4.944483e-03 -5.490816e-01  1.091753e+00  2.930799e+00
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##  [10343,]  7.732097e-02  1.729844e-01  6.797584e-01  1.608685e+00
##  [10344,]  1.313030e+00 -2.218053e-01 -1.195264e-01  6.522885e-01
##  [10345,] -8.305711e-01 -9.718845e-03 -1.067437e+00  4.556960e-01
##  [10346,]  1.327524e+00 -4.743589e-01  9.006321e-01  6.541139e-01
##  [10347,] -5.197826e-01  1.058017e+00 -5.493577e-01  1.137012e+00
##  [10348,] -7.246055e-01 -1.954852e-01 -1.959923e-01  7.773174e-01
##  [10349,] -1.871623e+00  4.208661e-01  1.424540e+00  2.851760e-01
##  [10350,] -4.069750e-01  8.779688e-01 -1.432928e+00  2.523833e-01
##  [10351,]  1.293351e+00  9.941929e-01  3.372994e-01  9.835113e-01
##  [10352,]  3.484060e-01  1.292571e+00 -3.069527e-01  1.743468e-01
##  [10353,]  4.379260e-01  7.144431e-01 -1.583402e+00  7.197015e-01
##  [10354,] -5.700245e-01  3.107325e-01 -5.556236e-01  1.349864e+00
##  [10355,]  6.073363e-01  5.312611e-01 -1.138386e-01  7.069747e-01
##  [10356,]  4.273670e-01 -2.962687e-01 -1.140864e+00  6.049770e-01
##  [10357,]  1.120377e+00  4.912070e-01 -5.019887e-02  5.408510e-01
##  [10358,]  2.725770e-02  2.301992e-01 -4.912073e-01  3.123713e+00
##  [10359,]  9.326437e-01  2.430486e+00  1.227101e+00  2.077803e+00
##  [10360,] -1.115760e-01  1.085799e+00  1.271812e+00  6.607187e-01
##  [10361,]  6.766903e-01 -4.406952e-01 -2.558879e-01  2.455117e+00
##  [10362,] -1.249152e+00 -2.135005e-01  2.431864e-01  1.896532e+00
##  [10363,]  1.933132e-02  1.193762e-01 -2.135202e-01  3.254904e+00
##  [10364,] -1.345780e+00  1.393408e+00 -1.775829e+00  9.545997e-01
##  [10365,]  1.146124e+00 -3.119195e-01 -9.975014e-01  3.363258e-01
##  [10366,] -1.065376e+00 -1.311322e+00 -1.380265e-02  2.528243e+00
##  [10367,] -9.302482e-01  3.122589e+00 -1.813422e+00  7.180405e-01
##  [10368,] -2.919129e+00 -2.756162e-01 -1.625649e+00  8.999293e-01
##  [10369,]  1.265501e+00  2.010315e-01 -5.436098e-01  7.181269e-01
##  [10370,]  8.140785e-01  7.746240e-03 -4.636645e-01  1.373942e+00
##  [10371,]  7.820249e-01 -2.019840e-01  9.180423e-01  1.194034e+00
##  [10372,] -7.072563e-01  1.019698e+00  1.124258e+00  2.570434e+00
```

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## [10373,] -9.922585e-01  2.028717e+00 -1.932682e+00  9.380169e-01
## [10374,] -1.683368e+00  5.181803e-01  1.217990e+00  5.455260e-01
## [10375,] -3.978875e-01 -1.060666e+00 -1.072923e+00  2.443982e-01
## [10376,] -6.604047e-01 -6.570343e-01 -1.448116e+00  2.798644e+00
## [10377,]  6.328561e-01 -1.165306e+00  1.425885e+00  4.790952e-01
## [10378,]  9.971220e-01  5.384050e-01  1.414158e+00  2.114817e+00
## [10379,]  9.570743e-02  3.072687e-01 -1.619708e+00  1.400345e+00
## [10380,]  1.394526e+00  1.161985e+00  5.731145e-03  1.016617e+00
## [10381,]  5.451868e-01  1.016338e-01  8.239085e-01  6.502492e-01
## [10382,] -9.114710e-01 -4.090383e-01 -1.645761e+00  3.002584e+00
## [10383,] -3.712329e-02 -7.298763e-01 -1.439293e-01  3.937091e-01
## [10384,]  4.202922e-01  8.040774e-01 -3.993840e-01  6.928315e-01
## [10385,]  9.267751e-01 -6.939086e-01 -1.317071e+00  1.276888e-02
## [10386,]  6.819285e-01  1.499841e+00  9.398088e-01  9.391073e-01
## [10387,]  1.361772e+00  4.232974e-01  9.504326e-01  1.017977e+00
## [10388,]  6.718730e-01  1.541530e+00  1.039451e+00  2.917036e+00
## [10389,] -1.133353e+00  3.721789e-01  9.221692e-01  1.198831e+00
## [10390,]  6.574782e-01 -5.525140e-01  1.180514e+00  7.456174e-01
## [10391,] -1.908923e-01 -2.593168e-01  1.377191e+00  3.702270e-01
## [10392,]  2.970415e-01  1.271957e+00 -7.729546e-02  2.067595e+00
## [10393,]  8.824907e-01  2.073233e+00  1.191241e+00  3.333347e-01
## [10394,]  5.438819e-01 -4.139669e-01  1.313021e+00  5.714904e-01
## [10395,] -1.402190e+00  2.325977e+00 -3.186715e-01  6.945825e-01
## [10396,] -9.282673e-01 -1.074543e+00 -1.675971e+00  7.492109e-01
## [10397,]  8.160934e-01 -2.664641e-01 -5.499602e-02  1.018996e+00
## [10398,] -1.080028e+00  7.908079e-01 -5.055970e-01  1.351014e+00
## [10399,] -9.469967e-01  3.578739e-01 -7.008796e-01  1.147515e+00
## [10400,]  9.492476e-01 -2.782046e-03  7.286522e-01  1.518119e+00
## [10401,]  8.000438e-01  4.095476e-01  8.717703e-01  1.202349e+00
## [10402,]  5.961806e-01 -1.132420e+00 -3.637904e-03  6.003446e-01
## [10403,] -8.829152e-01 -2.607638e-01 -3.728046e-01  1.319794e+00
## [10404,] -2.429218e+00  9.832523e-01  1.130459e+00  8.024592e-01
## [10405,] -1.320183e+00 -8.028760e-01  9.036535e-01  3.347624e+00
## [10406,] -4.805064e-01  2.079682e+00 -9.151198e-01  2.177210e+00
## [10407,] -1.587918e+00  7.407842e-01 -2.022833e-01  2.494330e+00
## [10408,]  1.247597e+00  8.910622e-01  8.914418e-01  1.073229e+00
## [10409,]  7.017027e-01  1.624835e-01 -6.572329e-01  2.951714e+00
## [10410,]  1.121341e+00  5.278458e-01  1.209056e+00  4.634389e-01
## [10411,]  1.140411e+00 -6.391810e-01 -1.427561e+00  2.217547e+00
## [10412,] -1.047027e+00  1.257788e+00  1.378732e+00  2.003245e+00
## [10413,] -7.372243e-01  2.461455e-01  6.796157e-01  7.289434e-01
## [10414,] -2.441822e+00 -8.361404e-01  1.796531e-01  2.120558e+00
## [10415,]  1.261512e+00  1.506868e-01 -2.717587e-01  2.823658e+00
## [10416,]  1.271717e+00 -1.956714e-01 -1.972350e-01  8.273175e-01
## [10417,]  8.143302e-01  3.977365e-01 -5.579846e-01  1.282678e+00
## [10418,] -6.181593e-02 -7.089461e-01 -6.158408e-01  6.051770e-01
## [10419,] -6.424377e-02 -1.680438e+00  1.451763e+00  4.922277e-01
## [10420,] -6.679595e-02  3.543376e-02  1.285990e+00  2.350345e+00
## [10421,] -5.443809e-01 -1.899600e-01  7.029011e-01  1.649815e+00
## [10422,]  3.030996e-01  6.972935e-01  1.194556e+00  5.004558e-01
## [10423,]  5.394659e-01 -4.817597e-01  1.007983e+00  2.732798e+00
## [10424,]  7.402132e-01 -3.688494e-01  8.204940e-02  1.144378e+00
## [10425,]  4.024280e-01  1.331991e+00 -1.323731e+00  2.156470e+00
## [10426,] -2.107523e-01 -6.954519e-01 -1.578715e-01  7.905946e-01
## [10427,] -7.461364e-01  3.475438e-01 -1.394925e+00  4.528415e-01
## [10428,] -1.747755e+00 -1.471683e+00 -1.700742e+00  8.626258e-01
## [10429,] -3.914344e-01  1.749939e+00 -1.461313e-02  3.997402e-01
## [10430,]  1.350217e+00  1.573629e+00  1.128465e+00  7.656799e-01
## [10431,]  7.647244e-01 -3.211956e-02 -1.129913e+00  2.837232e+00
## [10432,]  1.201058e-01  2.556158e+00  2.907690e-01  1.551450e+00
## [10433,] -2.153210e-01 -1.323102e+00 -1.107702e+00  2.036946e+00
## [10434,] -2.361125e+00  7.597643e-01  8.260536e-01  2.573364e+00
## [10435,]  5.927744e-01 -1.055574e+00  1.360410e-01  3.749147e-01
## [10436,] -2.379581e+00 -8.796369e-02 -9.155667e-02  5.380303e-01
## [10437,]  6.424901e-01  3.893015e-01  8.273302e-01  1.274898e+00
## [10438,]  1.016337e+00 -3.734273e-01 -1.518847e+00  2.812058e-01
## [10439,] -6.028156e-01 -1.935574e-01  9.323695e-01  1.105226e+00
## [10440,] -1.167316e+00 -1.280946e+00  1.500298e+00  4.283413e-01
## [10441,] -4.736698e-01  8.529871e-01  7.933893e-01  2.979250e+00
## [10442,] -1.037723e-02 -9.207894e-01  2.154045e-01  6.816948e-01
## [10443,]  9.643544e-01  2.941009e+00  7.284107e-02  1.996934e+00
## [10444,] -7.173735e-01  2.208045e-01 -1.984140e+00  3.046913e+00
## [10445,] -9.242071e-02 -1.107305e-01 -1.944291e+00  1.085506e+00
## [10446,] -1.001965e+00 -6.778552e-01  1.175620e+00  2.837152e+00
## [10447,]  1.039654e+00 -1.039263e-01 -1.362056e+00  3.588571e-01
## [10448,] -1.278554e-01  3.256380e-01  1.276883e+00  2.426128e+00
## [10449,]  5.223874e-01 -1.427840e-01  5.417710e-02  8.695904e-01
## [10450,] -4.130606e-01  2.513633e+00 -1.404479e+00  1.866676e+00
## [10451,] -6.388244e-01 -2.921666e-01  1.067984e+00  1.085231e+00
## [10452,]  8.528461e-02 -7.757390e-01  1.194283e+00  7.669964e-01
## [10453,] -4.486344e-01  5.864606e-01  1.557091e+00 -1.371007e-01
## [10454,]  7.157692e-01  1.806530e+00 -6.367196e-01  1.730336e+00
## [10455,]  6.548365e-01 -3.784153e-01 -2.288095e-01  2.407121e+00
## [10456,]  4.234241e-01  1.696314e+00  1.295863e+00  3.179263e-01
## [10457,] -2.352122e-02  9.739675e-01 -2.117765e-01  5.577648e-01
## [10458,]  1.516662e-01 -2.005696e-01 -1.660859e-01  3.128494e+00
## [10459,] -2.700709e-01 -1.186509e+00  1.499145e+00  2.221764e+00
## [10460,] -1.025781e-02 -1.511105e+00  1.331606e+00  6.510824e-01
## [10461,]  1.152133e+00 -7.644471e-01  1.299315e+00  2.184118e+00
## [10462,] -2.210848e-01  3.725125e+00  2.776010e-01  4.000050e-01
## [10463,] -4.375911e-01  1.334268e+00  1.246434e+00  2.336739e+00
## [10464,] -1.388112e+00  3.443042e-01  9.540042e-01  1.206624e+00
## [10465,]  1.382723e+00 -3.204894e-02  1.185712e+00  6.932899e-01
## [10466,] -1.013620e+00  1.124419e+00 -1.548163e+00  7.602973e-01
## [10467,] -1.299079e-01  3.687141e-01 -1.872438e-01  5.465705e-01
## [10468,] -7.491079e-01 -1.368753e+00 -1.184239e-01  2.350031e+00
## [10469,]  1.959312e-01  1.825829e+00 -1.192767e-01  1.714566e+00
## [10470,]  2.426721e-02  8.685809e-01 -1.929454e+00  1.035624e+00
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## [10471,]  4.873485e-02 -4.739418e-01 -1.770602e+00  8.431941e-01
## [10472,] -1.740765e+00 -3.965567e-01  3.290817e-01 -4.900602e-02
## [10473,] -1.889022e+00 -7.449777e-01  1.824638e+00  1.621116e+00
## [10474,]  6.569903e-01 -9.443401e-01 -1.000528e-01  2.480096e+00
## [10475,] -1.225504e-02 -1.145205e-01 -6.194677e-01  1.090454e+00
## [10476,]  5.106086e-02 -7.323535e-01  1.302147e+00  6.667575e-01
## [10477,]  5.506484e-01  6.438502e-01  1.201589e+00  5.251552e-01
## [10478,]  1.347842e-01 -1.080090e-01 -1.500357e+00  1.231803e+00
## [10479,]  6.776093e-01  7.800157e-01 -6.915794e-01  1.020889e+00
## [10480,]  8.011068e-01 -4.436880e-01 -4.546066e-01  1.213453e+00
## [10481,] -6.262838e-01 -7.394394e-01  3.321898e-02  2.891354e+00
## [10482,] -3.831508e-01  1.070378e+00  1.448261e+00  2.006951e+00
## [10483,] -2.212573e+00  3.074500e+00  1.986220e-01  1.023942e+00
## [10484,] -8.463745e-01  1.486109e-01  2.449300e-01  1.162132e-01
## [10485,] -7.126440e-01  2.658343e-02  1.147216e+00  8.008875e-01
## [10486,]  4.318390e-01 -2.226322e-01  5.842220e-02  3.210118e-01
## [10487,] -4.258450e-01 -1.122826e+00  1.519427e-01  1.736845e-01
## [10488,] -1.375081e+00  5.510090e-01  1.195524e+00  6.401697e-01
## [10489,]  1.457955e+00  6.538677e-01 -2.064646e+00  1.192537e+00
## [10490,]  6.912464e-02  5.495659e-01 -1.812789e+00  7.969189e-01
## [10491,] -7.426935e-03 -1.151122e+00 -1.270756e+00  7.286586e-01
## [10492,]  1.607693e-01  2.609040e-01  7.761847e-01  1.398422e+00
## [10493,]  9.289139e-01  4.415621e-01 -3.784231e-01  1.338524e+00
## [10494,]  8.963140e-01 -6.004589e-01  8.054754e-01  1.820427e+00
## [10495,]  1.200128e+00  3.938615e-01  1.124709e+00  4.566840e-01
## [10496,]  7.429052e-01  5.149313e-01 -1.669998e+00  8.814689e-01
## [10497,]  8.539499e-01  3.990355e-01  6.719769e-01  1.554844e+00
## [10498,] -5.228764e-01  4.811997e-01  1.144517e+00  2.627828e+00
## [10499,]  4.675373e-01  3.804216e-01 -1.659144e+00  5.217129e-01
## [10500,] -7.209865e-02 -3.312048e-01 -1.335872e+00  5.976984e-01
## [10501,] -3.864823e-02 -9.874265e-01  1.004268e+00  1.184411e+00
## [10502,]  1.058233e+00  6.148066e-01  1.182148e-01  1.982324e+00
## [10503,] -8.279085e-01 -8.618645e-01 -2.854234e-01  1.079482e+00
## [10504,] -7.854861e-01 -7.738681e-01  1.098446e-01  1.178401e+00
## [10505,] -7.473866e-01 -8.788236e-01  8.679824e-01  1.505662e+00
## [10506,]  8.619216e-01 -1.338139e-01  9.107253e-01  3.127215e+00
## [10507,]  6.112382e-01 -9.520187e-02 -3.891721e-01  2.661028e+00
## [10508,] -8.136995e-01  3.219348e-01  1.384012e+00  2.791601e-01
## [10509,] -2.168038e-01 -5.201639e-01 -1.184086e+00  3.318579e-01
## [10510,] -2.319327e-01  1.828583e+00 -3.539071e-01  2.034947e+00
## [10511,] -1.571770e+00 -1.491776e-01 -2.469020e-01  9.364055e-01
## [10512,]  1.232585e+00  4.892051e-01  3.741947e-01  2.670473e+00
## [10513,]  1.210195e+00 -5.564182e-01 -1.249633e-01  7.674739e-01
## [10514,]  6.295558e-01  7.980627e-01 -4.882720e-01  1.011208e+00
## [10515,]  1.241938e-01 -4.998858e-01 -6.647375e-02  1.406055e+00
## [10516,]  7.368903e-01 -2.620598e-01 -1.374599e-01  1.157110e+00
## [10517,]  8.921800e-02 -1.048839e+00  1.258054e+00  2.588686e+00
## [10518,] -1.413845e+00 -1.826728e+00  1.102175e+00  1.167017e+00
## [10519,] -1.573952e+00 -8.178657e-01 -1.886869e-01  1.979255e+00
## [10520,]  4.150699e-01 -3.797039e-01  1.189727e+00  6.445322e-01
## [10521,]  5.945855e-01 -1.068981e+00  1.120392e-02  5.107200e-01
## [10522,] -8.823644e-01  1.528808e+00  1.277809e+00  2.686480e-01
## [10523,] -2.170030e+00 -2.840705e-01  1.114875e+00  2.907044e+00
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## [10525,]  1.390451e+00  9.589273e-01 -4.023775e-01  1.105639e+00
## [10526,] -1.011518e-01  7.208446e-01 -7.707899e-01  4.572415e-01
## [10527,] -5.072443e-01 -3.057458e-01 -1.371146e+00  1.378672e+00
## [10528,] -2.713226e-01 -7.806293e-01 -1.578868e+00  5.585491e-01
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## [10531,]  6.731168e-01 -1.758000e-01  3.825407e-01  8.146159e-01
## [10532,]  3.637344e-01 -1.352924e+00 -1.066803e+00  3.118274e-01
## [10533,] -1.009696e+00  1.050810e+00 -5.941672e-01  8.472443e-01
## [10534,] -6.675921e-01 -2.528087e-01 -1.771055e+00  1.075260e+00
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## [10540,]  7.890692e-01 -2.133385e-01  9.839719e-01  2.952383e+00
## [10541,] -7.452707e-01 -1.561305e+00 -4.399150e-02  2.717827e+00
## [10542,] -1.677596e+00  4.444417e-01  3.872517e-01  1.962564e-01
## [10543,]  6.509124e-01 -1.962475e-02 -1.302636e-01  2.599689e+00
## [10544,] -6.429716e-01  1.009054e+00 -7.401532e-01  1.237760e+00
## [10545,]  8.514523e-01  3.485654e-01  8.182678e-01  1.230207e+00
## [10546,] -1.122537e-01 -9.855111e-03 -2.970002e-01  2.935404e+00
## [10547,]  8.475467e-01  7.446584e-01  9.151884e-01  3.073322e+00
## [10548,] -8.506395e-01  1.933372e+00  2.546807e-01  1.405297e-01
## [10549,] -8.940733e-01 -3.078589e-01 -1.235194e-01  8.760569e-01
## [10550,] -4.174221e-01 -5.417250e-01 -1.596689e-01  2.611816e-01
## [10551,] -8.761677e-01  2.013359e-01 -1.894515e+00  8.472343e-01
## [10552,] -4.829559e-01 -7.110598e-02 -1.837712e+00  1.231892e+00
## [10553,] -6.957590e-01  6.019867e-01 -3.463475e-01  8.599863e-01
## [10554,]  1.488806e+00  3.040537e+00  1.054456e+00  3.026749e+00
## [10555,]  4.534988e-02 -4.758341e-02 -3.091696e-01  1.475046e+00
## [10556,] -7.530809e-01  8.544524e-02 -3.024511e-01  2.912327e+00
## [10557,] -3.092141e-01  7.880151e-01 -4.334988e-02  1.753599e-01
## [10558,]  1.381585e+00  6.628838e-01  9.306021e-01  1.081281e+00
## [10559,]  2.520462e-01  1.934157e-01 -5.807305e-01  1.477594e+00
## [10560,]  4.459962e-02 -3.947082e-01  9.869870e-01  1.048384e+00
## [10561,] -5.041630e-01  3.874405e-02 -2.700387e-01  3.708670e+00
## [10562,] -2.551353e+00  2.252673e-01  1.472986e-01  2.047171e+00
## [10563,]  1.165908e-01 -7.244066e-01 -1.733487e+00  7.702727e-01
## [10564,]  4.908277e-01 -5.114181e-01  1.484629e-02  4.332663e-01
## [10565,]  8.339643e-01  1.469948e+00 -1.233194e-01  1.795317e+00
## [10566,]  6.219995e-01  1.334021e-01  1.110627e+00  8.376300e-01
## [10567,]  5.847932e-01  1.059599e+00  1.035599e+00  8.559927e-01
## [10568,]  2.223373e-02  1.519979e+00 -4.986479e-01  1.092563e+00
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## [10569,]  1.226102e+00  3.368049e-01 -8.510535e-01  9.146215e-01
## [10570,] -9.514228e-01 -6.868995e-01 -3.130341e-01  1.119926e+00
## [10571,]  1.397139e+00  1.510982e+00 -4.501366e-01  2.656381e+00
## [10572,] -1.286087e+00 -6.466784e-01 -8.052791e-01  2.034293e+00
## [10573,] -3.329542e-01 -8.370050e-01  1.992443e-02  4.756988e-01
## [10574,]  5.582717e-01 -4.529766e-01 -1.744896e-01  2.455610e+00
## [10575,]  1.313022e+00  4.717494e-01 -3.738666e-01  8.521746e-01
## [10576,]  6.980143e-01  1.883919e-02 -3.638404e-01  1.099888e+00
## [10577,] -3.648655e-01  1.328176e+00 -3.408421e-01  6.439738e-01
## [10578,]  3.644195e-03  1.209478e-01 -1.121644e+00  2.693125e+00
## [10579,]  7.542588e-01  6.267970e-01  9.348785e-01  1.019967e+00
## [10580,] -6.130518e-03  7.555299e-01 -1.582000e+00  1.394480e+00
## [10581,] -1.179593e+00  1.484413e-01  1.386953e+00  2.142311e+00
## [10582,] -2.561404e+00  2.767299e+00  7.744781e-01  2.004282e+00
## [10583,]  1.332087e+00  1.382641e-01 -5.090744e-02  2.855525e+00
## [10584,] -2.256883e+00 -4.699499e-01  1.181723e+00  8.448978e-01
## [10585,] -3.009540e-01 -5.419186e-01 -1.979404e-01  5.152466e-01
## [10586,]  5.006758e-02 -3.076617e-01  1.032551e+00  7.228683e-01
## [10587,]  1.144000e+00 -1.156762e-01  2.704822e-01  3.854666e-01
## [10588,]  4.964154e-01  6.448403e-01 -4.228103e-01  6.461193e-01
## [10589,] -8.962707e-01 -1.462635e+00  6.246713e-01  1.994679e+00
## [10590,] -1.467222e+00  1.185553e+00 -1.412249e+00  5.704830e-01
## [10591,] -1.939011e-01 -2.611120e-01 -1.052055e+00  8.308968e-01
## [10592,]  2.005877e-01 -9.828729e-02 -1.436900e+00  1.406980e+00
## [10593,]  4.899198e-01  5.164128e-01 -2.142981e-01  8.803424e-01
## [10594,]  1.183217e+00  5.901882e-01 -1.135948e-01  3.995222e-01
## [10595,]  1.350334e-01  4.236382e-01 -5.531966e-02  1.731113e+00
## [10596,] -7.579475e-01 -4.475597e-01  1.298526e+00  2.612987e+00
## [10597,] -3.072582e-02 -4.558071e-01 -1.690016e+00  9.882584e-01
## [10598,] -1.250753e+00  3.463103e-01  8.590310e-01  1.267108e+00
## [10599,]  2.014317e-01 -2.742601e-01  8.859114e-01  1.315357e+00
## [10600,]  3.760338e-01 -9.252689e-01 -1.267058e-01  2.240958e+00
## [10601,]  1.360697e+00  3.985459e-01 -1.173063e+00  8.261508e-01
## [10602,]  4.832306e-01 -9.905126e-01  1.493524e+00  2.612010e-01
## [10603,]  1.154696e+00  1.912692e+00 -1.675851e+00  3.000508e-01
## [10604,] -3.640039e-01 -4.082730e-01 -1.326448e+00  1.995366e+00
## [10605,] -1.512770e+00 -1.716910e+00  1.264748e+00  2.777564e+00
## [10606,]  2.509123e-02 -2.950752e-01  1.045828e+00  3.026204e+00
## [10607,]  6.522567e-01 -6.307429e-01 -1.921037e-01  8.149074e-01
## [10608,]  9.207902e-02  3.497759e-01 -1.898082e+00  8.593133e-01
## [10609,] -3.442920e-01  1.518321e+00 -2.968353e-01  6.828185e-01
## [10610,] -8.185164e-01 -1.072124e+00  1.221510e+00  7.947728e-01
## [10611,]  4.897353e-01 -7.320494e-01  1.850078e-01  2.122118e+00
## [10612,] -1.176189e+00  1.745628e+00 -2.019709e-01  5.471244e-02
## [10613,] -7.023950e-01  5.848889e-01 -1.002285e+00  1.751063e+00
## [10614,] -7.012676e-01  1.203892e+00 -5.842567e-01  9.107288e-01
## [10615,] -9.688913e-01  2.817535e+00  1.418436e-01  2.302202e+00
## [10616,] -7.405330e-02 -9.138997e-02  4.605971e-01  9.950677e-01
## [10617,] -1.423365e+00 -1.023779e+00 -2.435468e-01  9.670485e-01
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## [10620,]  3.365843e-01  1.814541e-01  1.060523e+00  2.297681e+00
## [10621,] -1.764042e-01 -5.971120e-02  3.819862e-01  1.871256e-01
## [10622,]  1.219339e+00  7.096237e-02  1.191782e+00  6.292942e-01
## [10623,]  7.641445e-01  4.521412e-01 -1.470275e+00  1.070772e+00
## [10624,] -7.259245e-01 -1.826543e+00  1.555290e+00  2.312592e+00
## [10625,]  2.320631e-01 -3.844721e-01  9.237605e-01  3.208694e+00
## [10626,]  1.261783e+00  1.581851e+00  1.134876e+00  5.917471e-01
## [10627,]  5.282806e-01 -1.023162e+00  1.484539e+00  2.292619e+00
## [10628,] -1.604038e+00  1.249297e-02  3.522307e-02  3.527491e-01
## [10629,] -2.567104e-01  3.457313e+00  1.140232e+00  4.317481e-01
## [10630,]  5.613887e-01 -1.618561e-01  1.061418e+00  9.950800e-01
## [10631,] -1.775234e+00  1.092904e+00  6.610932e-01  2.629879e-01
## [10632,] -7.565720e-01  1.407053e+00  1.072412e+00  8.406355e-01
## [10633,]  7.807687e-01  1.009628e+00  9.211924e-02 -4.043618e-02
## [10634,]  1.450173e+00  1.380291e+00 -6.099986e-01  3.059602e+00
## [10635,]  8.818874e-01  8.108479e-01 -1.019936e+00 -1.599945e-01
## [10636,]  5.882647e-01  3.177884e-01  9.640351e-01  1.116857e+00
## [10637,]  2.038875e-01  1.710034e+00  6.025418e-01 -1.741166e-01
## [10638,] -1.252699e-01  1.000849e+00 -1.429429e+00  6.223185e-01
## [10639,]  5.193935e-01 -7.947813e-01 -1.470322e-01  2.660892e+00
## [10640,] -6.792116e-01 -2.060140e-01 -1.576944e-01  2.638788e+00
## [10641,]  6.532201e-01 -4.017150e-01 -2.016376e-01  8.367349e-01
## [10642,]  7.572692e-01  1.925751e+00  7.849162e-01  1.435546e+00
## [10643,]  1.251725e+00  1.703196e-01 -7.740675e-02  6.747576e-01
## [10644,] -5.869594e-02 -1.132821e+00  1.456943e+00  3.674540e-01
## [10645,] -1.106129e+00  3.621988e-01  3.861952e-01  1.169996e+00
## [10646,]  1.294784e+00  1.245922e-01  9.099393e-02  1.055195e+00
## [10647,] -5.068171e-01 -4.582659e-01 -5.026518e-01  7.710154e-02
## [10648,] -6.404557e-01  3.622027e-01  4.091939e-01  1.399491e+00
## [10649,]  3.956156e-01  2.463276e-01 -1.470159e+00  1.288595e-01
## [10650,] -5.893102e-02  3.883125e-01  3.262533e-02  1.248750e+00
## [10651,]  7.345486e-01 -9.881582e-02  1.064183e+00  2.825249e+00
## [10652,] -5.318900e-03  5.209977e-02 -2.052762e-01  9.318375e-01
## [10653,]  1.794153e-01 -3.313016e-01 -1.699008e+00  9.793020e-01
## [10654,]  6.516182e-01  1.658818e+00  7.827581e-01  8.788176e-01
## [10655,]  1.044609e+00 -6.300320e-01 -7.772489e-02  1.875523e-01
## [10656,]  4.790792e-01  6.287214e-01  9.938503e-01  4.782646e-01
## [10657,]  5.784675e-01  2.445893e-01  2.181589e-01  7.368570e-01
## [10658,]  3.367460e-01 -2.061567e-02  7.601053e-01  1.470626e+00
## [10659,]  7.342793e-01 -6.344108e-01  7.567219e-01  9.050152e-01
## [10660,] -5.328772e-01  1.621851e-02 -5.075922e-01  3.412652e+00
## [10661,]  4.428219e-02 -3.530619e-01  1.093047e+00  9.277234e-01
## [10662,] -9.027422e-01  1.569984e+00  1.156313e+00  5.353165e-01
## [10663,] -1.085468e+00  8.489100e-01 -6.947905e-01  1.221664e+00
## [10664,]  5.655554e-01  1.619956e-01 -1.171256e-01  7.762628e-01
## [10665,]  1.137852e+00  9.378619e-01 -4.034756e-01  5.988343e-01
## [10666,] -7.087106e-02  1.042267e+00  2.633962e-01  4.391326e-01
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##  [10667,] -6.177255e-01  8.552288e-01  1.158222e+00  6.091286e-01
##  [10668,] -1.572787e+00  1.035011e-01 -2.272914e-01  2.800126e+00
##  [10669,] -5.472906e-01  5.014179e-02 -8.604091e-02  2.496324e+00
##  [10670,]  7.622394e-01  1.211245e-01 -1.858808e+00  1.220179e+00
##  [10671,] -7.579965e-01 -2.807506e-01 -1.606505e+00  5.271026e-01
##  [10672,]  1.708350e-01 -3.425049e-02 -1.987635e+00  1.191449e+00
##  [10673,]  1.469815e+00  6.521433e-01 -5.926233e-01  1.365042e+00
##  [10674,] -3.059031e+00  9.360424e-01 -1.659247e+00  7.240956e-01
##  [10675,] -8.441932e-01  1.537937e+00  1.405759e+00  1.980344e+00
##  [10676,]  1.398674e+00  2.062634e-01 -5.090785e-01  2.723317e+00
##  [10677,]  1.114154e+00 -9.557819e-01  1.448737e+00  3.705319e-01
##  [10678,]  9.944523e-01  4.229391e+00  1.145505e+00  6.167904e-01
##  [10679,]  5.330753e-01 -7.158243e-01  1.189053e+00  8.544865e-01
##  [10680,] -1.363980e+00  6.729186e-02 -2.476318e-01  9.283759e-01
##  [10681,]  1.282644e+00  6.794706e-01  1.036612e+00  8.523647e-01
##  [10682,]  8.512887e-01  3.416208e-01  7.676331e-01  1.336585e+00
##  [10683,]  1.525371e+00  7.601540e-01 -1.895986e+00  1.025131e+00
##  [10684,]  2.248246e-02 -9.798813e-01  1.218941e+00  8.829515e-01
##  [10685,] -1.182386e+00  8.845953e-01 -4.716404e-01  6.419933e-01
##  [10686,] -8.650236e-01  7.601441e-01 -2.425941e-01  2.906627e+00
##  [10687,]  1.067458e+00 -7.890116e-01  2.798774e-01  2.300518e-01
##  [10688,]  7.395599e-01  2.882145e-01 -7.242640e-01  1.206329e+00
##  [10689,] -2.325711e+00 -2.986901e-01 -1.422200e+00  6.134443e-01
##  [10690,]  5.876391e-01 -4.374185e-02  1.145005e+00  8.327830e-01
##  [10691,] -7.222241e-01  3.596499e-02  1.032455e+00  2.369301e+00
##  [10692,]  6.223636e-01  1.981680e-01  1.081880e+00  8.531136e-01
##  [10693,]  5.436059e-01 -1.648573e+00  2.000768e-01  3.021914e-01
##  [10694,]  1.048788e-01 -3.844540e-01  9.346854e-01  1.187897e+00
##  [10695,] -2.021492e-01 -5.699131e-01 -1.051872e+00  5.532831e-01
##  [10696,]  7.404616e-01  3.623742e-01  1.035439e+00  2.880369e+00
##  [10697,] -2.113029e+00  6.849834e-01  2.532844e-01  1.335558e+00
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##  [10699,]  4.893814e-01  4.580986e-01 -1.280961e+00  3.968291e-01
##  [10700,]  1.256774e+00  1.147898e-01  5.596088e-01  4.084918e-01
##  [10701,] -3.271969e-01 -4.512130e-01 -6.711200e-03  2.326408e+00
##  [10702,] -2.925386e-01  2.431116e+00  1.363044e+00  3.346299e-02
##  [10703,]  6.968103e-01 -7.526140e-02  5.797088e-01  2.653721e+00
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##  [10706,] -1.053687e+00  1.658747e+00  2.305100e-01  2.895532e+00
##  [10707,] -8.257662e-01  3.169938e-01 -2.378542e-01  5.340014e-01
##  [10708,]  5.007475e-01  2.134904e-01 -6.982268e-01  6.413297e-01
##  [10709,]  4.326961e-01 -8.068656e-02 -1.201208e+00  6.540219e-01
##  [10710,] -3.906914e-02 -3.879908e-01 -4.237319e-01  7.757156e-01
##  [10711,]  7.736673e-01  2.147542e+00 -1.540463e+00 -1.154059e-01
##  [10712,]  8.739038e-01  7.499616e-01  8.281038e-01  1.301816e+00
##  [10713,] -1.053854e+00 -1.233634e-01  1.032478e+00  3.321460e-01
##  [10714,] -1.549897e-01 -2.903284e-01 -1.455898e+00  2.354340e+00
##  [10715,]  7.321260e-01  1.119939e+00 -4.728170e-01  1.021985e+00
##  [10716,] -7.081607e-01  6.545889e-01  1.019168e+00  2.185238e+00
##  [10717,] -6.545862e-03  3.594297e+00  1.021679e+00  9.650740e-01
##  [10718,]  1.523442e+00 -1.760228e-01  9.427151e-01  3.037070e+00
##  [10719,] -2.635636e-01  1.426048e+00  1.093323e+00  5.382167e-01
##  [10720,]  7.702841e-01 -5.288432e-01  1.129711e+00  2.753805e+00
##  [10721,] -2.985902e+00  6.768676e-01  1.942141e-01  8.847337e-01
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##  [10724,]  5.159039e-01  6.034660e-01 -3.831797e-01  4.940470e-01
##  [10725,]  2.202720e-01 -1.478331e-01 -4.226963e-01  1.163186e+00
##  [10726,] -6.164347e-01 -7.234091e-01 -1.168961e+00  8.218928e-01
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##  [10728,]  3.016039e-02 -1.205526e-01 -8.138096e-01  2.841976e+00
##  [10729,] -1.503805e+00  2.203940e-02 -3.272164e-01  2.584429e+00
##  [10730,]  9.403704e-01  2.268505e+00 -1.776320e-01 -1.358434e-01
##  [10731,] -1.733399e+00  1.658810e+00  9.795009e-01  8.029064e-01
##  [10732,]  6.209072e-01 -4.411852e-01 -1.790351e+00  8.100729e-01
##  [10733,]  1.064632e+00  1.212336e+00 -1.323023e+00  3.350237e-01
##  [10734,]  1.455443e+00  2.288820e-01  7.934760e-01  1.357787e+00
##  [10735,]  3.765733e-01  2.231479e+00 -5.487026e-01  2.425364e+00
##  [10736,]  2.019194e-01  1.682428e-01  1.708464e+00 -1.962520e-01
##  [10737,] -2.339052e-01  1.684841e+00 -1.868151e-01  5.804937e-01
##  [10738,]  7.802896e-02 -7.870862e-01 -1.331502e-01  7.354118e-01
##  [10739,] -2.134412e-01 -4.364122e-01 -6.423314e-01  2.626591e+00
##  [10740,]  1.375283e-01  1.910612e+00 -4.641662e-03 -4.619752e-02
##  [10741,]  1.366783e-01  1.148858e+00 -1.909942e+00  1.009139e+00
##  [10742,] -1.610763e+00  6.603669e-01 -1.310571e+00  2.001367e+00
##  [10743,] -3.694940e-01  2.314452e+00  1.404240e+00  1.801058e+00
##  [10744,] -1.730542e+00  1.375258e-01  1.212310e+00  6.167351e-01
##  [10745,] -4.652445e-01  5.953523e-02 -2.106216e+00  3.330976e+00
##  [10746,]  1.393675e+00  1.127130e+00  1.089390e+00  2.688654e+00
##  [10747,]  1.192725e-01  5.330827e-01 -1.979661e+00  9.547108e-01
##  [10748,] -5.196110e-01  2.937828e-02  8.793355e-01  1.409297e+00
##  [10749,]  1.262038e+00 -1.119357e-01 -2.934671e-01  9.607755e-01
##  [10750,]  1.565833e+00  1.054803e+00  9.152577e-01  3.083316e+00
##  [10751,] -1.603724e-01 -5.355843e-01  1.044857e+00  9.633188e-01
##  [10752,] -4.306341e-01  1.232411e+00  7.829890e-01  1.309775e+00
##  [10753,]  1.003203e+00  1.316839e-01  1.600158e-01  2.053368e+00
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##  [10756,] -6.982381e-02 -3.325380e-02  9.154491e-01  1.223294e+00
##  [10757,] -8.975086e-02  5.542721e-01 -1.059093e-01  5.910039e-01
##  [10758,] -2.590559e-01  6.140589e-01 -1.322163e+00  1.508591e-01
##  [10759,] -6.411762e-01 -9.089765e-01 -4.420740e-02  2.796504e+00
##  [10760,] -1.388610e+00  1.293277e+00  9.974199e-01  3.043683e+00
##  [10761,]  6.509483e-01  3.457650e-01 -1.946952e+00  9.810956e-01
##  [10762,]  1.294618e+00 -6.131369e-02  9.994048e-01  2.913249e+00
##  [10763,]  6.314973e-01  1.284445e-01  5.887461e-02  2.763424e+00
##  [10764,]  1.051997e+00  1.695046e+00 -1.531326e-01  2.259697e+00
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## [10765,]  1.207095e+00  8.964619e-01  1.011687e+00  2.400711e+00
## [10766,]  9.014741e-01  5.123131e-01 -2.144690e+00  1.292587e+00
## [10767,]  1.916296e-01  6.457793e-01 -4.450759e-01  1.345683e+00
## [10768,]  1.281760e+00 -6.142490e-02  1.218509e+00  2.587494e+00
## [10769,] -1.323176e+00 -1.497835e+00 -8.102748e-01  1.180970e+00
## [10770,] -1.280225e-02 -4.691221e-01  1.899619e-01  1.048747e+00
## [10771,]  1.035260e+00  4.539904e-01  1.228814e+00  5.053664e-01
## [10772,] -1.788508e-01  1.578075e+00  1.174361e+00  4.369170e-01
## [10773,] -2.186538e+00  8.938358e-01  4.001322e-01  3.008819e+00
## [10774,]  5.179861e-01  1.265922e-01 -3.721059e-01  8.954714e-01
## [10775,]  4.401624e-01  1.325254e+00  3.860480e-02  6.263136e-01
## [10776,] -4.419451e-02 -7.298911e-01 -3.603262e-01  7.186377e-01
## [10777,] -1.001124e+00 -1.365822e+00 -1.319305e-01  7.838907e-01
## [10778,] -3.105033e-01 -1.086167e+00 -6.615347e-01  2.329865e-01
## [10779,] -3.753092e-01 -8.601242e-01 -3.020444e-02  1.152927e-01
## [10780,]  1.107358e+00 -1.351653e+00  1.547212e+00  1.812492e-01
## [10781,] -4.473366e-01  1.144988e+00 -4.409956e-01  1.390395e+00
## [10782,]  4.979803e-01 -7.984980e-01  1.471552e+00  2.253803e+00
## [10783,]  1.692667e-01  1.938388e+00 -6.017416e-02  1.892044e+00
## [10784,]  6.504731e-02 -3.361546e-01  9.185303e-01  1.292201e+00
## [10785,]  1.143770e+00 -1.284635e-01  1.363330e-02  2.473441e+00
## [10786,] -6.775620e-01  9.439647e-01  1.392606e+00  4.156257e-01
## [10787,]  6.153473e-01  6.513122e-01  1.108969e+00  6.872981e-01
## [10788,] -4.960834e-03 -6.676410e-01 -3.282552e-01  1.083853e+00
## [10789,] -8.130760e-01 -6.767187e-01  1.073566e+00  1.059522e+00
## [10790,]  6.259832e-01 -2.991346e-01 -2.302111e-03  8.887482e-01
## [10791,] -1.351050e+00 -2.122582e-01 -5.663072e-01  1.682375e+00
## [10792,] -2.712356e-01  4.629642e-01  1.279174e+00  3.882133e-01
## [10793,] -6.340853e-01 -5.086451e-01 -1.496660e+00  7.831851e-01
## [10794,] -7.408955e-01 -1.110205e+00 -1.744570e+00  8.961635e-01
## [10795,]  1.208647e+00 -3.709147e-01  6.733945e-01  2.343468e+00
## [10796,] -9.410038e-01 -2.097691e+00  1.602744e+00  2.200057e+00
## [10797,]  1.051537e+00  7.744413e-01  1.249294e+00  4.425150e-01
## [10798,]  3.464823e-01 -6.213033e-01  3.860784e-02  4.137489e-01
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## [10801,] -6.745004e-01 -4.429081e-01 -4.088335e-01  1.211724e+00
## [10802,]  8.445529e-01  1.546926e+00 -1.607279e-02  5.102831e-02
## [10803,]  1.190437e+00 -4.380706e-01  1.272576e+00  5.072143e-01
## [10804,]  3.653422e-01  2.117789e+00  8.634879e-01  2.107379e+00
## [10805,] -7.683622e-01  9.676344e-01  1.421053e-01  2.322088e+00
## [10806,] -6.973153e-01  7.610867e-01 -1.077078e+00  1.577328e+00
## [10807,]  9.863439e-01 -1.096265e+00  1.645937e+00  2.004881e+00
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## [10812,]  2.167193e-03 -9.681792e-01 -2.761918e-01  1.057865e+00
## [10813,] -8.137748e-01 -1.319276e+00  1.380433e+00  5.569558e-01
## [10814,]  2.060845e-01  8.960165e-01  2.528984e-01 -7.825112e-03
## [10815,] -5.618797e-01  7.920018e-01 -2.560620e-02  2.513366e+00
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## [10817,] -1.410117e+00 -5.204570e-01  8.359003e-01  1.535849e+00
## [10818,]  7.580464e-02  7.359221e-02 -1.564989e+00  1.326853e+00
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## [10826,]  9.804033e-01  4.465961e-01  5.363225e-01  2.046989e+00
## [10827,] -1.880516e-01  3.333002e-01  1.356807e+00  2.541337e-01
## [10828,] -9.267484e-01  1.051501e+00 -1.837375e+00  7.194524e-01
## [10829,] -3.830236e-01  2.395968e+00  1.550798e+00  1.641296e+00
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## [10841,]  4.784370e-01 -8.782110e-01  2.555813e-01  2.513510e+00
## [10842,] -8.695038e-01  6.295162e-01 -2.266821e-01  6.681815e-01
## [10843,]  5.750744e-02 -9.862668e-01  1.159726e+00  8.845180e-01
## [10844,] -1.953698e-01 -1.577063e-01  8.812121e-01  2.284793e+00
## [10845,] -1.513874e+00  2.036795e+00 -7.166857e-01  9.927670e-01
## [10846,] -2.998695e-01 -7.953650e-01 -1.580595e+00  5.018968e-01
## [10847,]  1.088074e+00  1.781671e+00  1.224671e+00  3.688028e-01
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## [10850,] -1.576738e+00  7.703252e-01 -1.166769e+00  2.093092e+00
## [10851,] -7.849358e-01 -5.160356e-01 -8.962670e-01  2.504694e+00
## [10852,] -1.318401e+00  8.232692e-01  9.481359e-01  7.229894e-01
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## [10854,] -7.500936e-02  2.340950e+00 -4.318055e-01  2.421448e+00
## [10855,] -1.254448e-01  4.400508e-01 -1.537453e+00  5.520248e-01
## [10856,] -2.940731e+00  1.038039e+00  1.882095e-01  2.856204e+00
## [10857,] -2.667434e+00  9.372488e-01 -9.444170e-01  1.660779e+00
## [10858,]  7.352709e-01  2.920522e-01 -1.714830e+00  8.660111e-01
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## [10861,] -7.738152e-01 -9.798575e-01 -9.649280e-02  2.722161e+00
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## [10865,]  1.186702e+00 -3.724071e-01 -4.242064e-01  5.941393e-01
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## [10867,]  1.149266e+00  9.256933e-01 -2.164091e-01  6.760289e-01
## [10868,]  2.054933e-01  2.045481e+00  8.061743e-02  1.742985e+00
## [10869,] -1.759691e-01  5.456040e-01  1.120888e+00  6.371965e-01
## [10870,]  5.983750e-01  7.248613e-01 -5.883329e-01  8.247454e-01
## [10871,]  1.426841e+00  3.032492e-01  9.741246e-01  1.016341e+00
## [10872,] -3.697484e-01 -4.475067e-01  3.148177e-01  4.103118e-01
## [10873,]  8.861652e-01 -1.521984e-01  5.557481e-01  3.163643e+00
## [10874,]  9.899339e-02  2.718308e-01  1.126811e+00  2.923137e+00
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## [10877,]  1.989482e-01  1.958066e-02 -1.397079e+00  1.312455e+00
## [10878,] -1.040018e+00  5.219660e-01 -1.136188e+00  9.141042e-01
## [10879,] -6.540167e-01  1.336540e+00 -3.754787e-01  2.359702e+00
## [10880,] -1.273900e+00  7.905200e-01 -5.541290e-01  9.707789e-01
## [10881,] -1.789664e+00  8.613644e-01 -1.181062e+00  1.791940e+00
## [10882,]  6.226438e-01  9.792554e-01  2.234181e-01  6.998497e-01
## [10883,]  8.629126e-01  2.803864e-01  8.686213e-01  1.231966e+00
## [10884,] -6.685530e-01  6.867575e-01 -3.873537e-01  1.310934e+00
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## [10891,] -1.651492e+00  9.570004e-01 -3.376156e-01  8.374193e-01
## [10892,] -3.931626e-02  1.487059e+00  7.335045e-01  1.073200e+00
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## [10896,] -5.966610e-01  1.265387e+00  1.177909e+00  2.527693e+00
## [10897,] -4.772309e-01 -7.527195e-01  4.597128e-01  3.062319e+00
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## [10901,]  7.632790e-01 -1.045568e-01 -9.153290e-01  1.123472e+00
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## [10903,]  1.274102e+00  6.732727e-01 -1.419887e+00  9.221432e-01
## [10904,] -1.391618e-01  1.099107e+00  1.325811e+00  2.519272e-01
## [10905,]  2.742890e-01  3.055822e+00 -3.746603e-02  1.938986e+00
## [10906,] -1.021455e-01  1.231237e+00  6.574724e-01  8.602178e-01
## [10907,]  2.030413e-01 -6.267138e-02  1.097497e-01  1.337136e+00
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## [10915,]  7.206183e-01 -3.372120e-01 -1.643302e+00  8.541853e-01
## [10916,] -8.685658e-01 -1.041701e+00 -3.542285e-01  1.200191e+00
## [10917,]  1.078053e+00 -4.598395e-02 -3.077004e-01  4.872199e-01
## [10918,] -4.901759e-01  1.374248e+00 -5.327094e-01  2.740039e+00
## [10919,] -2.973630e-01  9.312427e-01  1.296283e+00  3.647088e-01
## [10920,] -2.711099e-01 -1.628134e+00  4.025957e-01  4.881812e-01
## [10921,]  4.424546e-01 -2.548878e-01 -1.483849e+00  2.772143e-01
## [10922,] -9.762408e-01  1.262551e+00  1.070257e+00  1.139412e+00
## [10923,]  7.024308e-02 -9.549077e-01 -3.016973e-01  6.458299e-01
## [10924,] -2.914568e+00 -6.509476e-01  9.928114e-01  1.244428e+00
## [10925,] -2.195576e+00  1.534815e-01  9.393908e-01  1.269213e+00
## [10926,]  7.312611e-01  6.571383e-01  7.787382e-01  1.487851e+00
## [10927,] -2.506337e-01 -1.538421e+00  1.549622e+00  2.216840e+00
## [10928,]  1.795219e-02 -7.562013e-01  9.845245e-01  1.145945e+00
## [10929,] -1.581344e+00 -1.137005e+00 -8.574107e-01  5.810829e-01
## [10930,] -2.334387e+00  4.067756e-01  1.258285e+00  5.554688e-01
## [10931,] -1.993920e-01 -3.628524e-01 -3.048948e-01  2.621696e+00
## [10932,] -1.449346e-01  7.643626e-01  9.243754e-01  7.158164e-01
## [10933,] -5.336366e-01 -2.380886e-02  6.825771e-01 -3.575762e-01
## [10934,] -1.298834e+00  5.426361e-01 -2.869638e-01  9.312787e-01
## [10935,]  1.299232e+00 -7.728487e-02 -4.356021e-01  9.081989e-01
## [10936,]  5.791795e-01 -2.971739e-01  1.808932e-01  9.929699e-01
## [10937,] -6.750836e-01 -1.027051e+00 -1.864367e+00  1.073716e+00
## [10938,] -2.690414e+00  1.904728e-01  7.627040e-01  1.567819e+00
## [10939,]  3.728100e-02 -5.267995e-01 -2.074603e+00  1.358130e+00
## [10940,] -2.001503e-01  1.860599e-01  2.033843e-01  2.683383e+00
## [10941,] -2.165510e-01 -9.884508e-01  2.610086e-01  2.305092e+00
## [10942,] -7.696249e-01  2.377731e+00  1.113175e+00  6.974220e-01
## [10943,] -2.321458e+00  2.040962e+00  8.476471e-01  1.190310e+00
## [10944,]  6.296076e-01 -6.586908e-01 -1.667689e-01  2.371190e+00
## [10945,] -3.251565e-01  1.149640e+00  1.323359e+00  2.286639e-01
## [10946,] -1.734953e+00 -1.658516e+00 -2.371998e-02  2.745500e+00
## [10947,] -1.338717e+00 -6.126666e-03  1.215702e-01  2.037307e+00
## [10948,]  1.702997e-01 -1.995015e-01 -6.972825e-01  1.209692e+00
## [10949,] -1.958849e-01  1.293565e+00  1.209777e+00  3.598061e-01
## [10950,]  6.350401e-01 -2.748362e-01 -9.789414e-01  2.513261e+00
## [10951,] -8.706817e-01 -3.280061e-01 -1.150886e-01  2.626699e-01
## [10952,]  6.140264e-01 -3.780292e-01  1.138237e+00  7.752130e-01
## [10953,] -1.203020e-01 -4.000843e-01  1.682308e-01  2.067733e+00
## [10954,] -2.890802e-01  1.800297e+00  1.567880e-01  2.324748e+00
## [10955,] -2.020182e-01  4.569807e-01  1.318580e+00  2.538050e+00
## [10956,] -8.015324e-01  1.772706e+00 -1.405980e+00  9.341695e-01
## [10957,]  1.251881e+00 -5.482024e-01  5.082660e-01  4.376146e-01
## [10958,] -1.491548e+00  3.794750e-01 -2.729378e-01  1.154933e+00
## [10959,] -2.430202e+00  1.539756e+00  2.323712e-01  9.727309e-01
## [10960,] -5.366338e-01  3.836814e-01  1.015724e+00  9.580792e-01
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## [10961,]  1.175875e+00  5.077321e-01 -1.413898e+00  2.612737e+00
## [10962,] -1.074671e+00 -2.478318e-01 -2.816969e-01  5.768757e-02
## [10963,] -1.172970e-01  1.796979e+00 -2.575419e-01  1.203226e+00
## [10964,] -1.626280e+00  1.892370e+00 -7.564478e-01  5.210472e-01
## [10965,]  3.012035e-02  1.889783e+00 -5.510423e-01  6.955321e-01
## [10966,] -1.864657e-01 -1.879404e-01 -1.063693e+00  8.567004e-01
## [10967,] -6.911790e-01  1.484472e+00  9.277196e-01  2.840781e+00
## [10968,]  1.796482e-01 -1.164692e-01 -2.013284e-01  1.261846e+00
## [10969,]  5.611049e-01 -2.928536e-01  2.513968e-01  4.972445e-01
## [10970,]  5.844985e-01  3.618694e-01 -1.849017e+00  8.171399e-01
## [10971,]  1.231018e+00  1.064886e+00 -2.128151e-01  6.185487e-01
## [10972,]  1.827116e-01  1.440882e+00  1.096558e-01  2.263869e-02
## [10973,] -2.424026e+00  3.259376e-01 -2.032003e-01  6.949934e-01
## [10974,] -1.432306e-01 -3.272022e-01 -1.156675e-01  7.078516e-01
## [10975,]  6.860589e-01 -1.347718e-01 -2.051318e+00  1.245203e+00
## [10976,] -1.796161e+00  9.999631e-01  1.052844e-01  2.155471e-02
## [10977,] -1.494171e-01  1.038480e+00  1.100796e+00  7.624442e-01
## [10978,]  1.440280e+00  4.796772e-01  8.958317e-01  1.310233e+00
## [10979,] -1.017368e+00 -9.231559e-03  1.354086e+00  4.338877e-01
## [10980,] -1.290547e+00  5.204126e-01  9.991449e-01  9.787346e-01
## [10981,] -9.565281e-02  1.433197e-01 -1.732806e+00  2.532413e+00
## [10982,] -6.326924e-02 -2.606968e-02 -1.845820e-01  7.039842e-01
## [10983,]  7.261400e-01  1.644909e-01 -4.224373e-01  1.098670e+00
## [10984,] -2.745162e-01  4.366489e-01  1.115408e+00  2.571443e+00
## [10985,] -1.796329e-01 -6.580446e-01  1.265318e+00  2.520013e+00
## [10986,]  4.429911e-01 -5.650523e-01  1.363255e+00  2.481325e+00
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## [10988,]  8.363679e-01  2.783945e+00  2.723590e-01  1.038206e-01
## [10989,] -4.789894e-01  9.145652e-01  1.016755e+00  9.360918e-01
## [10990,] -4.974669e-01 -9.348601e-01 -5.706860e-01  3.194839e+00
## [10991,] -9.380698e-01  1.018040e+00  1.391426e+00  5.169373e-01
## [10992,] -2.760766e+00  3.636758e-01  7.823236e-01  1.435012e+00
## [10993,] -9.537221e-01  2.430382e-01 -9.568760e-01 -4.788615e-02
## [10994,] -6.807488e-01  4.760274e-01 -6.950339e-01  3.548794e-01
## [10995,] -6.103062e-01  9.306909e-02  7.123544e-01  1.641008e+00
## [10996,]  9.102285e-01 -1.849380e-01  1.507499e-01  1.274248e+00
## [10997,] -1.347742e-02 -8.374269e-02 -5.364015e-01  8.876180e-01
## [10998,] -1.390414e+00 -8.505131e-01  1.517735e+00  2.181839e+00
## [10999,]  2.284982e-02 -7.561184e-01  1.204339e+00  8.173338e-01
## [11000,] -8.156654e-01  1.645120e+00  9.416784e-01  9.609310e-01
## [11001,]  5.771226e-01  2.805119e-01  1.430192e-02  8.287407e-01
## [11002,] -8.748004e-01 -2.289786e-01 -3.655616e-01  9.373521e-01
## [11003,] -2.783011e-02 -1.511735e+00  1.472852e-01  3.762615e-01
## [11004,] -1.299163e+00  3.428919e-01  1.127669e+00  2.758161e+00
## [11005,]  1.227095e+00  7.169523e-01 -7.473476e-01  2.652919e+00
## [11006,] -9.467253e-01  2.123260e+00  1.030331e+00  2.560814e+00
## [11007,] -1.288553e+00  1.150339e+00  6.694125e-01  1.490950e+00
## [11008,] -1.182728e-01  1.586716e+00  5.975393e-01  2.344490e+00
## [11009,] -9.115264e-01  9.959822e-01 -1.760392e+00  2.399158e+00
## [11010,] -1.106887e-01  1.196453e+00 -5.617315e-01  2.233461e+00
## [11011,] -1.297450e+00  3.694325e-01 -1.278904e+00  1.106726e+00
## [11012,]  1.243125e+00 -1.078703e-01 -7.401957e-01  4.735173e-01
## [11013,] -2.520842e-01 -2.364041e-01  4.765373e-01  4.941695e-01
## [11014,]  1.469078e+00 -7.465939e-02 -4.358786e-01  1.028788e+00
## [11015,] -4.429227e-02 -8.062750e-01 -1.380257e+00  1.135524e+00
## [11016,] -2.752020e-01  6.883369e-01 -2.996563e-01  3.453997e-01
## [11017,]  1.362217e+00 -3.462994e-01  1.163448e+00  7.757296e-01
## [11018,]  1.113260e+00  8.350373e-01 -2.406010e-01  2.227471e+00
## [11019,] -1.718903e+00 -1.732108e+00  1.262040e+00  8.644666e-01
## [11020,] -1.223859e-01 -9.469811e-01  9.737448e-01  5.517442e-01
## [11021,]  7.344111e-02 -3.424435e-01  1.881814e+00  1.307400e+00
## [11022,] -2.190081e+00  7.548750e-01  7.536873e-01  1.080754e+00
## [11023,]  5.691854e-02 -7.910454e-01 -3.158327e-01  9.648288e-01
## [11024,]  1.156853e+00 -7.943787e-01  1.307216e+00  5.158732e-01
## [11025,] -2.038965e-01  1.376795e+00  1.338295e+00  2.450765e+00
## [11026,] -1.361304e+00  8.451596e-01  8.867234e-01  1.249477e+00
## [11027,]  3.510269e-02 -6.980866e-01  9.329149e-01  9.612662e-01
## [11028,]  9.376718e-01  2.059166e-01  8.714795e-01  3.227015e+00
## [11029,] -1.696338e-01 -7.664491e-01  1.147123e+00  8.925222e-01
## [11030,]  8.847225e-02 -1.367065e-01 -5.693378e-01  1.390719e+00
## [11031,]  1.354880e-01 -7.031557e-02  7.380917e-01  1.513353e+00
## [11032,] -5.901156e-01 -2.645211e-01 -4.636448e-01  2.795982e+00
## [11033,] -1.165236e+00  2.033865e+00  1.283176e+00  2.035611e+00
## [11034,]  1.276823e+00 -6.719211e-02  1.041828e+00  2.862926e+00
## [11035,] -2.284355e-01  3.698970e-01  1.477097e+00  2.333606e-01
## [11036,]  4.019930e-01  3.609450e-01  5.423626e-01  4.391459e-01
## [11037,] -8.704128e-02 -5.912060e-02  1.131618e-01  3.900985e-01
## [11038,]  4.500354e-01  7.354585e-01 -1.576033e+00  3.961826e-01
## [11039,] -2.397164e-01 -3.348438e-01 -1.708942e-02  5.368147e-01
## [11040,] -7.424299e-01 -8.183891e-01  1.042338e+00  3.053554e+00
## [11041,]  8.111448e-01  4.711647e-01 -1.085148e+00  1.076389e+00
## [11042,]  1.036667e-01  2.769555e-01  7.183193e-01  1.482803e+00
## [11043,] -1.208507e+00  3.386442e-01  4.609704e-01  2.968403e+00
## [11044,]  1.567399e+00  1.555351e+00  6.779236e-01  1.534835e+00
## [11045,]  4.213903e-01 -3.377664e-01  1.347975e+00  4.131088e-01
## [11046,]  7.307259e-01  1.610364e+00  9.384535e-01  1.043638e+00
## [11047,] -1.182766e+00  4.464763e-02  1.274618e+00  5.730505e-01
## [11048,] -1.041068e+00  2.015077e+00 -2.199452e-01  4.676714e-01
## [11049,] -8.553245e-01 -8.951510e-01  4.127417e-01  4.419279e-01
## [11050,] -1.603114e+00  1.750663e+00 -1.518709e-01  1.932075e+00
## [11051,] -4.160468e-01  1.922871e+00  1.715953e-02  1.562522e+00
## [11052,] -1.395557e+00  2.745030e-01 -2.424965e-01  8.794313e-01
## [11053,] -6.957175e-01  5.075537e-01 -1.642714e-01  5.299869e-01
## [11054,]  6.673296e-01 -7.801156e-02  1.041411e+00  9.358016e-01
## [11055,]  1.401899e+00  9.509343e-01 -5.700864e-01  1.356030e+00
## [11056,] -9.550505e-01  2.124040e+00  4.988987e-01  2.606069e-01
## [11057,] -7.943979e-01 -3.830441e-01 -1.623921e+00  8.684270e-01
## [11058,] -7.766183e-01  1.660930e-01 -5.793976e-01  9.934401e-01
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## [11059,] -7.873805e-01 -6.927952e-01 -2.021473e+00  3.219215e+00
## [11060,] -7.777825e-01  7.022196e-01 -6.748978e-01  1.237001e+00
## [11061,] -5.064913e-01  1.539621e-01  1.169821e+00  2.627507e+00
## [11062,] -2.489516e-01 -1.210607e+00 -4.855388e-02  2.199345e+00
## [11063,] -8.139969e-01  3.627241e-02 -1.434109e-01  7.444662e-01
## [11064,]  5.919153e-01 -1.018382e+00  9.523747e-01  3.735467e-01
## [11065,]  5.342554e-01  7.219930e-01  3.091803e-01  2.594470e+00
## [11066,]  7.983910e-01 -4.092777e-01  1.016624e+00  1.003134e+00
## [11067,]  6.482496e-01  4.109355e-01 -4.763582e-01  1.015787e+00
## [11068,]  1.219843e+00  2.831289e+00  1.182509e+00  5.830033e-01
## [11069,]  1.255185e-01 -1.981524e-01  1.037424e+00  9.447963e-01
## [11070,]  1.281523e+00  2.289492e+00  1.138291e+00  6.806636e-01
## [11071,]  1.143993e-01  1.720957e+00  1.307050e+00  1.655377e-01
## [11072,] -9.849282e-01  3.285191e+00  1.207963e+00  2.093242e+00
## [11073,]  7.084748e-01  1.254814e-01 -1.189133e+00  9.061823e-01
## [11074,]  1.243390e+00  2.712404e-01 -3.858514e-01  2.493682e+00
## [11075,]  6.594315e-01 -5.534485e-01  1.205549e+00  6.529524e-01
## [11076,]  1.408441e+00  3.004050e-01  9.249016e-01  7.940045e-01
## [11077,] -1.398006e+00 -3.194393e-01  1.459933e+00  2.225625e+00
## [11078,]  1.320125e+00  3.203743e-01  5.334749e-01  5.572406e-01
## [11079,] -8.016293e-01 -4.604512e-01  1.242120e+00  6.915503e-01
## [11080,]  5.879858e-01  8.632637e-01 -2.487433e-01  5.871508e-01
## [11081,] -1.068014e-01 -4.706489e-01  1.177876e+00  6.797555e-01
## [11082,] -3.362013e-01 -7.083976e-01 -1.549818e+00  4.258954e-01
## [11083,] -3.630202e-01  1.591224e+00 -6.777776e-01 -9.495110e-02
## [11084,] -4.337504e-02 -5.600331e-01 -1.294314e-01  6.851348e-01
## [11085,]  6.992639e-01  6.014249e-01 -1.891072e+00  1.142321e+00
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## [11087,] -3.378090e-01  2.400502e+00  1.232952e+00  2.017361e+00
## [11088,]  1.136117e+00 -9.564189e-01 -1.341330e-01  3.638021e-01
## [11089,] -9.555521e-01  1.449848e+00 -1.252587e-01  3.883217e-01
## [11090,]  1.774342e-01  8.925359e-01  9.137803e-01  1.342871e+00
## [11091,]  6.213780e-01  8.435438e-01 -3.362291e-01  8.772658e-01
## [11092,]  1.342904e+00  8.355877e-01 -1.415201e+00  2.627567e+00
## [11093,]  1.018270e+00  3.044746e+00 -4.601940e-01  4.232323e-01
## [11094,]  3.034836e-01  2.735759e-01  2.874547e-01 -1.495141e-01
## [11095,]  1.184457e+00  1.151327e+00 -1.540057e+00  2.111968e+00
## [11096,]  4.276406e-01  3.859878e-01  1.243512e+00  5.144510e-01
## [11097,] -9.075108e-01 -6.156574e-01  1.920908e-01  1.110494e+00
## [11098,] -6.968000e-03  8.710848e-01  8.779946e-01  3.106397e+00
## [11099,] -2.117686e+00  3.123778e-01 -1.834719e+00  1.211762e+00
## [11100,]  7.732228e-01  8.364740e-01 -9.085532e-01  3.063127e+00
## [11101,] -7.710357e-01  9.211284e-01 -4.552357e-02  1.314303e+00
## [11102,] -8.603904e-01  3.553718e+00 -1.560481e-01  4.776074e-01
## [11103,]  1.230442e+00  3.490780e+00 -1.742198e+00  5.885003e-01
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## [11108,]  5.505744e-01  6.310280e-01 -8.627521e-01  6.724598e-01
## [11109,] -7.220438e-01  9.216695e-01  7.097397e-01  1.067726e+00
## [11110,]  6.966316e-01 -3.616931e-01  2.750746e-01  9.055798e-01
## [11111,]  1.708685e-02 -7.050093e-01  5.380706e-01  1.102861e+00
## [11112,] -1.389884e+00  5.583218e-01 -9.201677e-01  2.319931e+00
## [11113,] -1.556938e+00  3.184115e-01 -8.529210e-01  2.470799e+00
## [11114,] -1.815911e+00  8.041359e-01  1.083813e-01  1.409547e-01
## [11115,]  1.254850e+00 -3.900868e-01  2.268349e-01  2.455161e+00
## [11116,] -3.564925e-01  2.331858e+00 -1.921739e+00  2.590828e+00
## [11117,]  2.429662e-01  2.506597e-02 -1.647841e+00  3.362157e+00
## [11118,] -9.258634e-01  1.038300e+00  5.973249e-01  5.005567e-02
## [11119,]  7.618239e-01  2.890874e-01 -4.909691e-01  1.289621e+00
## [11120,]  1.287979e+00  1.837732e-01  9.733254e-01  9.618568e-01
## [11121,]  6.145740e-01 -7.793570e-01  1.369583e+00  4.907997e-01
## [11122,]  7.517918e-01  3.407710e-01  1.013017e+00  9.670052e-01
## [11123,]  1.135653e+00 -4.249492e-01  6.266029e-01  4.706989e-01
## [11124,]  6.211459e-01  3.115737e-01 -4.045015e-02  6.066430e-01
## [11125,] -8.865572e-01  7.316873e-01  1.315630e+00  4.506113e-01
## [11126,] -8.603216e-01  1.021264e+00  3.612745e-01  2.991901e+00
## [11127,] -1.193702e+00  1.920295e+00  3.722895e-01 -5.359520e-01
## [11128,]  1.404879e-01 -4.598745e-01 -1.652871e+00  8.771954e-01
## [11129,]  5.506788e-01 -5.465583e-01 -1.349050e-01  6.886836e-01
## [11130,]  1.070862e+00 -9.878986e-01  4.638766e-01  2.250454e-01
## [11131,]  6.336477e-01  2.388249e-01  3.744862e-01  7.025936e-01
## [11132,]  7.118515e-01  1.946773e+00  1.078967e+00 -1.049417e-01
## [11133,]  1.249529e+00 -3.820669e-01 -7.623168e-01  5.885172e-01
## [11134,]  2.525082e-03 -3.425490e-01 -4.510836e-01  3.193025e+00
## [11135,] -2.300388e+00 -3.855291e-01 -2.096427e-01  9.430650e-01
## [11136,] -2.015398e+00  1.195498e+00 -3.295897e-01  1.393891e+00
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## [11146,]  2.883716e-01 -4.809038e-01  8.962516e-01  1.294348e+00
## [11147,]  5.179035e-01 -2.127654e-02 -1.627010e+00  4.928237e-01
## [11148,] -5.694892e-02  1.538347e+00 -1.294938e+00  8.157829e-01
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## [11152,] -6.604483e-01  8.141591e-01 -1.015453e+00  6.379925e-01
## [11153,] -1.431635e+00  1.705985e+00 -6.782334e-01  1.117202e+00
## [11154,] -8.514244e-01  1.665520e+00  1.185854e+00  2.487186e+00
## [11155,] -5.605922e-01  8.317713e-01 -5.744866e-01  8.960357e-01
## [11156,]  9.789965e-01 -4.653353e-01 -1.381004e+00  4.359832e-02
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## [11157,] -6.406150e-01  4.516739e-01 -1.739036e+00  2.577590e+00
## [11158,] -1.768564e+00  1.816989e+00 -1.254577e+00  2.495808e+00
## [11159,]  1.016247e+00 -1.268733e-01 -1.437422e-01  3.022383e-01
## [11160,]  5.892199e-01  6.905455e-01 -4.727764e-01  2.618029e+00
## [11161,] -1.069331e-01 -7.307612e-01 -2.806541e-01  1.035425e+00
## [11162,]  1.270422e+00 -6.588928e-01  1.184508e+00  2.646532e+00
## [11163,]  6.838669e-01  5.448827e-01  7.511303e-01  1.396108e+00
## [11164,] -2.420031e-02  5.417863e-01 -3.746744e-01  9.223269e-01
## [11165,] -2.123488e-01 -1.446286e+00  1.277265e+00  7.135851e-01
## [11166,]  1.528801e-01 -3.993845e-01 -3.318945e-01  3.008326e+00
## [11167,]  5.928552e-01  4.226220e-01 -2.029972e-01  6.904364e-01
## [11168,]  8.613738e-01  7.507094e-01 -4.863653e-02  1.248554e+00
## [11169,]  1.216503e+00 -4.675038e-02  5.513668e-01  8.617207e-01
## [11170,] -1.334040e+00  5.708132e-01  1.064559e+00  2.728140e+00
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## [11172,] -7.124428e-01  9.577444e-01 -1.260714e+00  1.201130e+00
## [11173,] -4.855761e-02  1.354636e+00  1.273117e+00  4.672464e-01
## [11174,]  2.492897e-01  3.350088e-01  8.639619e-01  1.287839e+00
## [11175,]  1.278571e+00  9.673547e-01 -5.393191e-01  9.255675e-01
## [11176,] -1.340825e+00  1.763067e+00  7.348087e-01  1.409522e+00
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## [11178,]  1.165964e+00  1.329389e-01  1.239212e+00  6.248123e-01
## [11179,] -6.959714e-01  2.336896e+00  1.115871e+00  2.692787e+00
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## [11181,]  1.371191e+00  3.030100e+00 -2.344053e-01  1.172085e+00
## [11182,]  6.446567e-01  1.351789e+00 -1.713431e+00  8.515905e-01
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## [11190,] -9.342316e-01 -9.018253e-01  1.376541e+00  2.379295e+00
## [11191,] -1.714164e+00  1.907181e-02 -7.726723e-01  5.838343e-01
## [11192,] -8.842711e-01 -1.706871e-01 -1.802226e+00  1.202371e+00
## [11193,]  1.429851e+00  2.080961e+00 -2.827070e-01  9.852491e-01
## [11194,]  2.670846e-01  1.238412e+00  1.171758e+00  4.785419e-01
## [11195,]  8.526015e-01  1.326518e-01 -1.809087e+00  1.360974e+00
## [11196,] -3.046070e-01 -4.792312e-01 -1.150801e+00  1.851554e+00
## [11197,] -7.958542e-01  9.656015e-01  5.493500e-01  3.846983e-01
## [11198,] -1.754713e+00  3.472725e-01 -1.681292e+00  5.103128e-01
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## [11202,]  5.310055e-01 -5.440357e-01  1.255063e+00  5.588267e-01
## [11203,] -6.558732e-01  2.710001e-01 -1.812921e+00  8.404318e-01
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## [11208,] -7.417227e-02  6.634617e-02 -1.642740e+00  1.164728e+00
## [11209,] -5.139399e-02 -1.080358e+00  1.118840e+00  9.388890e-01
## [11210,]  2.674409e-01  6.916627e-01  1.356964e+00  9.383175e-02
## [11211,] -9.046655e-01 -9.921663e-01 -2.927630e-01  1.111179e+00
## [11212,] -1.965616e-01 -1.107721e+00 -1.535893e+00  2.521242e+00
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## [11215,] -1.275062e+00 -2.329105e-01 -2.237314e+00  1.637883e+00
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## [11217,] -1.051574e+00 -7.167920e-01  1.656867e+00  1.929114e+00
## [11218,] -1.546308e+00  1.989002e+00 -1.129726e+00  6.819136e-01
## [11219,] -2.956776e-01  1.344491e+00  1.220979e+00  4.545946e-01
## [11220,] -7.880362e-01 -8.849039e-01  8.979278e-01  1.414713e+00
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## [11223,]  1.356005e+00 -1.731306e-01 -2.781925e-01  9.123085e-01
## [11224,]  1.284518e+00 -8.596968e-03  1.065794e+00  9.086993e-01
## [11225,] -1.509055e+00  2.269656e+00  1.138397e+00  6.265343e-01
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## [11228,]  7.353667e-01 -2.990549e-01 -1.553842e+00  1.009481e+00
## [11229,]  1.204464e+00 -2.683062e-01 -8.877931e-01  4.848440e-01
## [11230,] -1.255062e+00  6.285426e-01 -3.876615e-01  3.086791e+00
## [11231,]  9.218664e-01  1.912415e+00  1.216544e+00  2.811856e-01
## [11232,]  5.940910e-01  4.814015e-01 -1.137286e+00  7.763113e-01
## [11233,] -2.536025e-01 -9.259530e-01 -9.151829e-01  6.190409e-01
## [11234,] -1.094924e+00 -1.865600e+00  1.480762e+00  2.389624e+00
## [11235,] -8.591844e-01  2.184496e+00  1.033437e+00  2.234524e+00
## [11236,] -1.685522e+00 -4.887881e-02 -1.524962e+00  2.417309e+00
## [11237,]  7.087270e-01 -1.498377e-01 -2.741071e-01  9.896373e-01
## [11238,] -1.231740e-01 -7.300813e-01  5.252230e-01  1.003011e+00
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## [11241,]  1.310321e+00  1.922791e+00  4.072691e-01  2.688515e+00
## [11242,]  4.261982e-02 -5.616654e-01 -3.919076e-01  1.207494e+00
## [11243,]  5.461959e-02 -3.163979e-02  9.690387e-02  1.072218e+00
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## [11247,] -5.251540e-01  3.761904e+00 -1.812891e+00  2.809309e+00
## [11248,] -1.674938e+00  1.345102e+00 -1.292868e+00  6.415031e-02
## [11249,]  1.174517e-01 -1.708214e-01 -4.146869e-01  1.129873e+00
## [11250,]  5.671099e-01 -6.467014e-02 -3.406234e-01  1.021261e+00
## [11251,] -1.403526e-01 -6.716349e-02  3.085831e-01  1.025958e+00
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##  [11257,] -8.702456e-01 -1.960692e+00  1.325994e+00  7.655111e-01
##  [11258,] -1.131919e-01 -8.927441e-01 -2.492804e-01  1.000375e+00
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##  [11261,]  7.109095e-02 -2.138759e-01 -2.062451e+00  1.269542e+00
##  [11262,]  3.015970e-01 -1.258355e+00  3.087854e-01  2.038850e+00
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##  [11271,]  5.630821e-01  1.137618e+00 -1.985009e+00  8.788416e-01
##  [11272,]  1.316260e+00  2.770676e-02  9.509975e-01  1.124970e+00
##  [11273,]  2.468656e-01  6.167495e-01 -1.893804e+00  1.249017e+00
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##  [11276,]  1.181059e+00  5.225219e-01 -2.965352e-01  7.944287e-01
##  [11277,] -4.911648e-01  4.820075e-01  5.097612e-01  2.091807e+00
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##  [11279,] -2.599745e-01 -3.748781e-01 -1.083244e+00  6.381313e-01
##  [11280,] -9.183941e-01 -1.291769e-01  8.726805e-01  1.221714e+00
##  [11281,] -2.263145e+00  7.533390e-01  9.715283e-03  9.288310e-01
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##  [11284,]  6.451533e-01  2.055365e-01  7.909819e-01  2.720378e+00
##  [11285,]  5.306486e-02  6.029713e-02 -6.143626e-01  1.056355e+00
##  [11286,]  5.868077e-01  6.247632e-01  1.177730e+00  6.050982e-01
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##  [11288,] -5.441896e-01 -5.419283e-01 -1.873702e+00  1.022683e+00
##  [11289,] -7.271315e-01  8.215159e-03  1.113022e+00  9.173847e-01
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##  [11291,] -1.868134e+00  1.698902e+00  1.238158e+00  2.304239e+00
##  [11292,] -1.609031e+00  4.880150e-01 -2.199236e-01  1.443714e+00
##  [11293,] -5.570371e-01 -1.162969e+00 -1.355055e+00  2.759297e+00
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##  [11296,] -1.463289e+00  8.419701e-01 -2.050799e-01  1.287464e+00
##  [11297,] -5.581434e-01  1.046943e-01  1.500726e+00  6.696397e-02
##  [11298,]  3.699807e-01 -1.012186e+00  2.030596e-01  2.228341e+00
##  [11299,] -1.358046e-01 -5.141651e-01 -3.243685e-01  1.009607e+00
##  [11300,]  4.153342e-01  9.978155e-01 -5.084885e-01  7.371360e-01
##  [11301,]  1.263043e+00 -3.638355e-01 -1.743914e+00  7.372517e-01
##  [11302,] -4.326580e-01 -4.974253e-01 -2.020742e+00  3.151270e+00
##  [11303,]  9.579837e-01  7.171139e-01  4.619531e-01  1.942284e-01
##  [11304,]  1.105360e+00  1.223211e+00  3.185874e-01  2.425517e+00
##  [11305,] -1.280255e+00  1.640327e+00  8.984593e-01  1.115405e+00
##  [11306,]  5.074129e-01 -5.616223e-01  1.296766e+00  5.841648e-01
##  [11307,]  9.748968e-01  2.422455e+00  1.231507e+00  1.900497e-01
##  [11308,] -6.706968e-01 -7.783505e-01  3.870250e-01  2.744296e+00
##  [11309,] -8.923904e-01 -1.220765e+00  2.992195e-01  5.587178e-01
##  [11310,]  6.696223e-01 -3.552832e-01 -2.293349e-01  2.439874e+00
##  [11311,] -4.976035e-01  1.337137e+00 -1.768731e+00  8.853180e-01
##  [11312,] -1.503370e+00  1.313348e+00  3.619722e-01  9.189207e-01
##  [11313,]  6.664529e-01  3.100492e-01  1.116772e+00  7.604374e-01
##  [11314,]  1.299889e-01  3.516614e-01  8.934156e-01  1.217442e+00
##  [11315,] -9.675041e-01 -1.367353e+00  1.257676e+00  2.754713e+00
##  [11316,] -8.388637e-01 -1.847113e-02 -1.167678e+00  3.674976e-01
##  [11317,] -5.163951e-02  2.560251e+00 -3.407092e-01  7.953943e-01
##  [11318,]  4.723194e-01  6.998140e-01  2.977250e-01  6.206742e-01
##  [11319,] -9.933081e-02 -1.352491e-01 -1.801916e+00  8.484704e-01
##  [11320,] -1.704085e-01  7.529563e-01 -1.958430e-01  9.882304e-01
##  [11321,]  5.803785e-01 -5.208065e-01 -1.370594e+00  7.117864e-01
##  [11322,] -1.148567e+00  8.834421e-01  1.078055e+00  7.700192e-01
##  [11323,]  9.205885e-01  4.674182e-01 -8.177020e-01  1.345385e+00
##  [11324,] -6.668449e-01 -5.323638e-01 -3.820535e-01  3.011233e+00
##  [11325,] -1.285600e+00  3.343356e-01  1.201255e+00  7.306080e-01
##  [11326,]  6.056903e-01  5.712210e-01  4.519007e-01  9.542215e-01
##  [11327,]  6.735281e-01  7.385489e-01  2.143798e-01  8.734070e-01
##  [11328,] -6.515720e-01  5.687906e-02  8.152123e-01  3.375402e+00
##  [11329,] -9.040234e-01  1.299499e+00  1.251415e+00  4.798686e-01
##  [11330,]  1.316834e+00  1.598099e+00 -2.689576e-01  2.646073e+00
##  [11331,]  2.702211e-01 -6.284164e-01  1.224048e-01  2.337543e-01
##  [11332,] -2.481797e+00  1.255043e+00  6.085143e-01  7.000245e-01
##  [11333,]  2.681016e-02 -2.553980e-01  1.149517e+00  8.806139e-01
##  [11334,]  1.371943e+00  6.597252e-01  1.013823e+00  9.201889e-01
##  [11335,]  7.140183e-01  1.149042e-01  1.079960e+00  8.528298e-01
##  [11336,]  5.223853e-01  2.217474e-02  1.243945e+00  2.721955e+00
##  [11337,]  5.917190e-01  5.417817e-01 -5.617224e-01  1.069948e+00
##  [11338,]  1.154914e+00  9.044918e-01 -3.090434e-01  2.223976e+00
##  [11339,] -8.788096e-01  4.447228e-01  1.338102e+00  2.465036e+00
##  [11340,] -1.376861e+00 -3.248040e-01 -1.474515e+00  2.207134e+00
##  [11341,]  1.317700e+00  2.882463e-01  9.474107e-01  1.037008e+00
##  [11342,]  5.633986e-01  7.032507e-01 -4.143423e-01  1.095419e+00
##  [11343,] -4.548368e-01  6.063922e-01  2.764433e-01  9.520284e-01
##  [11344,] -4.224322e-01  6.371935e-01  7.435493e-01  1.055893e+00
##  [11345,]  9.154624e-01  6.066935e-01 -5.112359e-01  1.359143e+00
##  [11346,]  1.229097e+00  4.109429e-01 -1.627514e+00  2.607241e+00
##  [11347,]  5.790599e-01 -6.614285e-01  4.384177e-01  5.075276e-01
##  [11348,]  3.241634e-02  1.408725e+00 -7.107929e-01  1.133980e+00
##  [11349,] -2.347527e+00  1.721650e-02  1.220235e+00  6.882692e-01
##  [11350,] -8.653837e-01  9.481847e-01  5.405567e-01  6.844178e-01
##  [11351,] -2.141715e+00  1.068074e+00 -4.549530e-01  1.099572e+00
##  [11352,] -9.929250e-01 -1.240373e-01  1.465088e+00  2.115524e+00
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##  [11353,] -1.610630e+00 -2.094043e+00 -5.098139e-01  2.668046e+00
##  [11354,] -2.314556e-02  8.634142e-02 -7.326963e-01  1.296799e+00
##  [11355,] -1.134944e+00  1.965429e+00 -2.273868e+00  1.912188e+00
##  [11356,] -9.974220e-01  1.057987e+00  1.675209e+00 -3.047631e-01
##  [11357,] -6.854793e-01 -1.210077e+00  1.195101e+00  2.910192e+00
##  [11358,]  7.152147e-01 -3.730166e-01  9.611021e-01  1.124503e+00
##  [11359,] -9.826024e-01  4.093356e-01 -2.012359e-01  2.207799e+00
##  [11360,]  1.251554e+00 -4.035036e-01 -7.485755e-03  2.575355e+00
##  [11361,]  9.409973e-02 -5.927666e-01 -2.068349e-01  8.069467e-01
##  [11362,] -1.008932e+00 -1.355367e+00 -1.363579e+00  2.571729e+00
##  [11363,]  9.154632e-01  7.589933e-01 -1.149415e+00  1.914729e+00
##  [11364,]  5.110705e-02 -4.388708e-01  1.015947e+00  3.077470e+00
##  [11365,] -6.254628e-01 -1.239643e-01 -1.795601e+00  8.656102e-01
##  [11366,]  6.811928e-01 -1.557811e-01 -3.613704e-01  1.053263e+00
##  [11367,] -8.743696e-01 -9.977885e-01 -1.282666e+00  2.641904e+00
##  [11368,] -6.862876e-01 -5.618449e-01 -4.814080e-01  9.106233e-01
##  [11369,]  2.358220e-01 -4.642744e-01 -3.824959e-02  1.967361e+00
##  [11370,]  3.587066e-01  1.757727e+00  1.116884e+00  4.348435e-01
##  [11371,] -6.890298e-01  2.126598e+00 -3.371193e-01  7.749960e-01
##  [11372,] -1.900399e-01  2.428942e-02 -1.535275e+00  8.959475e-01
##  [11373,] -1.388839e+00  1.954594e+00 -1.314143e-01  8.150775e-01
##  [11374,]  6.078159e-01 -1.347301e-01  1.124347e-01  7.370150e-01
##  [11375,] -1.478171e+00 -7.382308e-01  1.591188e+00  1.371991e-01
##  [11376,]  9.839561e-01 -2.353615e-01  1.326928e+00  1.419453e-01
##  [11377,]  1.284713e+00  1.861328e+00  8.136811e-02  8.264033e-01
##  [11378,]  1.197631e+00 -4.521178e-02  1.172716e+00  6.975468e-01
##  [11379,]  7.680480e-01 -9.767229e-02 -1.289908e+00  1.130268e+00
##  [11380,] -4.847558e-01  1.492067e+00 -1.892971e-01  9.189634e-01
##  [11381,] -1.494212e+00 -2.688319e-01 -3.298252e-02  5.724526e-01
##  [11382,]  1.089062e+00 -3.854944e-01 -1.120486e+00  2.163390e+00
##  [11383,] -8.367520e-01 -1.009987e-01 -2.255285e-02  1.362284e+00
##  [11384,] -1.179050e+00  9.072664e-01  9.683263e-01  1.063478e+00
##  [11385,]  3.092273e-01 -1.303739e-01 -1.249890e+00  9.685045e-02
##  [11386,] -8.865070e-01 -4.051624e-01  1.095378e+00  9.270094e-01
##  [11387,]  6.099879e-01 -4.478247e-01  1.241721e+00  6.382703e-01
##  [11388,]  8.976793e-01 -6.896845e-01  4.525994e-01  1.683613e+00
##  [11389,]  5.802023e-01  6.772236e-01  4.954010e-01  2.420585e+00
##  [11390,]  7.663843e-01  6.189542e-01 -6.260036e-01  9.724400e-01
##  [11391,] -5.656483e-02 -1.567610e-01  1.017612e+00  2.885385e+00
##  [11392,] -4.154136e-01 -2.957179e-01 -8.982589e-01  1.609181e+00
##  [11393,]  1.346096e+00  9.617763e-01 -3.439438e-01  9.980580e-01
##  [11394,] -6.451912e-01 -6.194221e-01  1.172870e+00  8.386868e-01
##  [11395,]  1.564157e-01 -1.463105e-01  9.137123e-01  1.313941e+00
##  [11396,]  3.029828e-01  3.034701e-01  1.323068e+00  4.284450e-01
##  [11397,] -7.767871e-01  5.907305e-01 -1.544964e+00  6.380485e-01
##  [11398,] -1.470495e+00  8.519309e-01 -1.083619e+00  2.586909e+00
##  [11399,]  3.456369e-01 -6.682998e-01  3.481381e-02  4.100105e-01
##  [11400,]  1.442952e+00  1.044037e+00  9.548948e-01  1.108451e+00
##  [11401,] -7.849316e-01  2.132685e+00 -2.526154e-01  2.357357e+00
##  [11402,] -8.839575e-01  2.780861e-02  1.186821e+00  2.612087e+00
##  [11403,] -7.348781e-01 -1.839126e-01  1.176835e+00  7.314944e-01
##  [11404,] -6.363125e-01 -1.934502e-01  3.366763e-02  3.325286e+00
##  [11405,]  7.309630e-01  8.991754e-01  1.106017e+00  1.021526e+00
##  [11406,]  1.157720e+00  1.478378e+00 -6.031604e-02  2.318271e+00
##  [11407,]  7.055297e-01  9.006276e-02 -1.668192e+00  2.806119e+00
##  [11408,]  5.746593e-01 -1.465400e-01 -1.090233e-01  7.557895e-01
##  [11409,]  3.104820e-01 -7.112886e-01  1.647165e+00 -2.478671e-02
##  [11410,] -1.454851e+00  1.459134e+00 -1.554687e+00  5.973851e-01
##  [11411,] -7.702461e-01  7.234675e-01 -2.361520e-01  2.211225e+00
##  [11412,] -2.858564e-02  6.868829e-02 -5.509907e-01  8.740347e-01
##  [11413,]  2.994160e-01  2.003781e+00 -3.074589e-01  1.428157e-01
##  [11414,] -1.038472e+00  2.098504e+00  9.602360e-01 -3.283553e-01
##  [11415,]  1.346429e+00  6.221841e-02  5.044563e-01  9.181535e-01
##  [11416,]  1.047325e+00  1.115902e+00  1.159027e+00  4.905962e-01
##  [11417,] -1.190014e+00  1.104277e+00  9.917708e-01  1.579336e+00
##  [11418,]  4.969972e-01  1.951158e+00 -4.020982e-01  2.327709e+00
##  [11419,]  6.012629e-01 -3.007207e-01 -8.136496e-01  2.541823e+00
##  [11420,] -8.615185e-01  5.995089e-02 -5.634800e-02  6.221267e-01
##  [11421,]  5.155658e-01 -8.061032e-01 -8.133445e-01  4.149440e-01
##  [11422,]  4.360201e-01  7.451395e-01 -1.409940e+00  2.580647e+00
##  [11423,] -6.795949e-01  1.302562e+00  8.543396e-01  1.021833e+00
##  [11424,]  1.160760e+00  5.226666e-01  1.028370e+00  8.276255e-01
##  [11425,] -5.796798e-01  3.085120e-01  8.714983e-01  3.168320e+00
##  [11426,] -9.932367e-01 -1.557371e-01 -1.380819e+00  4.083009e-01
##  [11427,]  1.404710e+00  7.843941e-02  1.088019e+00  7.806004e-01
##  [11428,] -6.626189e-01 -1.472867e-01  8.723002e-01  1.291022e+00
##  [11429,]  5.764026e-01 -5.425085e-01  1.254456e+00  7.361747e-01
##  [11430,]  6.167663e-01 -4.337047e-01 -9.047264e-01  2.352104e+00
##  [11431,] -6.646819e-01  3.274601e-01 -6.968604e-01  7.047857e-01
##  [11432,]  6.121166e-01 -5.709142e-01  1.217788e+00  2.671560e+00
##  [11433,] -3.149199e-01  8.240488e-01  1.290759e+00  1.850213e+00
##  [11434,] -1.273733e+00  1.025850e+00 -1.122429e-01  1.449123e+00
##  [11435,]  1.355596e-01 -3.320155e-01 -1.688151e-01  1.235722e+00
##  [11436,]  8.153522e-01 -8.644335e-02  1.778255e+00  1.471439e+00
##  [11437,]  4.960770e-01 -1.378223e+00  3.034414e-01  2.046284e+00
##  [11438,] -2.325024e-01 -5.458974e-01 -1.298338e+00  6.880185e-01
##  [11439,]  2.310144e-01 -7.821698e-01  1.511920e+00  1.419549e-01
##  [11440,] -2.165149e+00  7.271395e-01 -5.842040e-01  9.528749e-01
##  [11441,]  6.859123e-01 -1.395102e-01  1.058695e+00  9.618660e-01
##  [11442,] -7.998865e-01 -9.551444e-01  1.398984e+00  4.306213e-01
##  [11443,] -5.438356e-02  1.055855e+00 -5.476556e-01  2.241504e+00
##  [11444,] -1.026298e+00  1.101720e+00  1.355418e+00  1.884112e-01
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##  [11446,]  5.573091e-01  1.365183e-01 -3.264720e-01  1.011583e+00
##  [11447,] -3.530873e-01 -2.231618e-01 -1.044822e+00  4.523758e-01
##  [11448,]  1.239465e+00  8.775566e-01  1.109211e+00  2.496065e+00
##  [11449,] -6.669138e-01  3.703556e-01  9.158118e-02  1.498490e+00
##  [11450,] -7.289595e-01 -8.004833e-01  7.881090e-01  1.575603e+00
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## [11451,] -6.044486e-02  1.883635e-01 -6.190385e-02  6.952817e-01
## [11452,] -1.090985e+00  2.113135e+00  1.286501e+00  1.585010e-01
## [11453,]  1.136408e+00 -3.323781e-01 -1.429087e+00  2.412332e+00
## [11454,]  1.483643e+00  3.796355e-01  1.019736e+00  2.836012e+00
## [11455,]  5.998521e-01 -3.015253e-01 -1.637324e-01  2.874049e+00
## [11456,]  1.238740e+00 -3.111531e-01  1.272437e+00  2.578541e+00
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## [11458,]  1.112863e+00  1.113425e-01 -1.119233e-02  4.734589e-01
## [11459,] -1.571612e+00 -1.031078e-01  1.515446e+00  1.993714e-01
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## [11462,] -2.546959e-01  7.234538e-02  1.527330e+00  2.072121e+00
## [11463,] -5.496930e-01 -8.231466e-01  2.289724e-01  1.247524e+00
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## [11467,]  6.796767e-01 -5.997517e-01  6.934528e-01  6.673673e-01
## [11468,] -9.741925e-01  1.229033e+00 -1.933724e-01  6.478892e-02
## [11469,] -6.318355e-03 -1.721240e-01 -1.461698e+00  8.704692e-01
## [11470,] -1.217852e-01  1.785162e+00 -3.792362e-01  2.706442e+00
## [11471,] -8.788351e-01  1.795247e-01  1.314146e+00  5.998802e-01
## [11472,]  1.050173e+00 -5.146036e-01  2.141817e-01  2.389324e-01
## [11473,]  1.015245e+00 -1.147506e+00  1.530890e+00  2.440884e-01
## [11474,] -6.676417e-01  1.457887e-01 -1.766263e+00  1.773473e+00
## [11475,]  9.724814e-01  1.807262e+00 -1.459464e+00  6.286209e-02
## [11476,] -1.401978e-02 -2.989904e-01  9.960654e-01  3.139924e+00
## [11477,] -5.792036e-01 -1.642656e-01 -3.180239e-01  9.865797e-01
## [11478,]  1.423919e+00  1.166023e+00  1.050192e+00  3.015219e+00
## [11479,] -1.018183e+00 -1.095913e+00 -5.502531e-02  7.968944e-01
## [11480,]  1.133810e+00  4.408370e-01 -2.904005e-01  2.480461e+00
## [11481,] -5.832933e-01  8.109951e-01 -1.359648e+00 -1.906093e-01
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## [11483,]  1.254360e+00  5.389143e-02 -1.179638e+00  9.323272e-01
## [11484,] -3.520278e-01 -9.041471e-01  2.659128e-01  2.203155e+00
## [11485,] -6.555867e-01  2.789444e-01 -1.339543e+00  8.772227e-01
## [11486,] -6.940950e-02 -7.370345e-01 -3.402585e-01  1.129721e+00
## [11487,]  5.715508e-01  2.551791e+00 -4.804092e-01  1.021310e+00
## [11488,]  6.056831e-01 -1.188230e-01  1.084081e+00  2.931733e+00
## [11489,]  1.440028e+00 -3.317106e-01 -2.840134e-01  2.808037e+00
## [11490,]  1.286185e-01 -4.217647e-01  9.703477e-01  3.073716e+00
## [11491,]  6.797340e-01 -4.690611e-01 -2.555294e-01  9.029345e-01
## [11492,]  6.771222e-01 -2.887307e-01 -1.749300e-01  2.649231e+00
## [11493,] -1.240206e+00  1.178654e-01  1.215393e+00  2.653618e+00
## [11494,] -8.251208e-01  6.924971e-01 -4.659352e-01  7.619731e-01
## [11495,]  7.358257e-01  7.487861e-02  1.743789e-01  2.816270e+00
## [11496,]  1.172419e+00  8.745904e-01 -1.574424e+00  8.344785e-01
## [11497,]  4.877607e-02 -4.215315e-01  1.028564e+00  1.041878e+00
## [11498,]  1.151683e+00  2.850759e-01 -1.953526e-01  6.270018e-01
## [11499,] -1.785553e+00  1.022940e+00 -1.708117e-01  5.738396e-01
## [11500,]  5.487830e-01  8.726791e-01 -1.530350e+00  4.763360e-01
## [11501,]  1.278734e+00 -1.579884e-01 -5.231654e-01  1.003624e+00
## [11502,] -9.973151e-02 -7.371122e-02 -6.596923e-01  2.535678e+00
## [11503,]  1.244583e+00  7.429068e-01 -1.622608e+00  8.729458e-01
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## [11505,] -9.674270e-01  5.265305e-01  2.724102e-01 -1.025282e-01
## [11506,]  1.189031e+00  2.557249e-01 -3.491664e-03  2.609565e+00
## [11507,]  8.307943e-01  5.556451e-01  8.883307e-01  1.357111e+00
## [11508,]  6.784230e-01  1.065085e+00 -5.062934e-01  2.643951e+00
## [11509,]  1.330835e+00 -2.055011e-01  2.763210e-01  9.935529e-01
## [11510,] -2.615695e+00 -1.939958e-01  1.425080e+00  3.327481e-01
## [11511,] -1.251944e-01 -5.924782e-01 -1.571013e+00  2.364259e+00
## [11512,] -1.338202e+00  2.875166e-01 -2.858749e-01  2.394498e+00
## [11513,]  7.162157e-01 -1.284142e-01 -1.336888e+00  2.587062e+00
## [11514,]  2.938371e-01  2.015803e+00 -1.552174e+00  3.279669e-01
## [11515,] -7.160714e-01 -1.456511e+00  5.749939e-01  2.366432e+00
## [11516,] -1.121298e-01 -7.734887e-04 -1.010647e+00  2.919467e+00
## [11517,]  1.191579e+00  1.616147e+00 -2.442974e-01  5.918840e-01
## [11518,]  1.114771e+00 -1.064720e-01 -3.183669e-01  6.128362e-01
## [11519,] -7.241406e-01  9.343255e-01 -1.237049e+00  5.318073e-01
## [11520,] -6.550318e-01  1.211656e-01  6.850548e-01  3.796092e-01
## [11521,]  1.157719e+00 -1.859591e-01 -1.610512e-02  2.520359e+00
## [11522,]  4.561942e-01  5.219855e-02  1.303332e+00  4.378425e-01
## [11523,] -7.260369e-02  3.698370e-01 -1.888552e-01  1.230938e+00
## [11524,]  5.174481e-01 -7.649159e-01 -1.380928e-01  2.602107e+00
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## [11526,] -3.469755e-01  1.919089e+00  1.272200e+00  5.205953e-01
## [11527,] -9.711519e-01  1.222679e+00 -6.264465e-02  5.059639e-01
## [11528,] -5.746365e-01  1.012735e+00 -1.000735e-01  6.760532e-01
## [11529,] -3.321535e-01 -8.363763e-01 -1.374105e+00  1.894602e-01
## [11530,] -4.406517e-01 -7.690050e-01  8.711729e-01  1.336201e+00
## [11531,]  1.245334e+00 -8.321860e-02 -1.523902e+00  2.567090e+00
## [11532,] -5.214420e-01 -4.343551e-01  6.584174e-01  3.650917e+00
## [11533,] -4.336263e-01  2.375240e+00  1.123618e+00  2.918513e-01
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## [11546,] -9.363173e-01  8.762706e-01 -1.541928e+00  5.172015e-01
## [11547,]  5.379630e-01  1.564073e-01  1.027572e+00  9.838869e-01
## [11548,] -4.004353e-01 -3.057509e-01 -4.930342e-02  1.966979e+00
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## [11549,] -1.547226e+00 -8.742511e-02  1.629099e+00  3.512742e-02
## [11550,] -1.082463e+00  9.483686e-01 -7.102240e-01  1.480928e+00
## [11551,] -2.118203e-01 -1.058257e+00  6.921897e-01  5.054956e-01
## [11552,] -7.297554e-01  7.065191e-01  8.629477e-01  6.081685e-01
## [11553,] -2.753231e-01  2.157324e+00  1.224377e+00  2.125746e+00
## [11554,] -2.215495e-02 -2.845383e-01 -3.657285e-01  7.085050e-01
## [11555,]  1.118634e+00  1.473183e+00  8.993887e-01  2.534942e+00
## [11556,]  1.271954e-01 -1.237698e-01  7.522997e-01  1.488178e+00
## [11557,]  1.608388e+00  5.739996e-01 -4.559869e-01  1.288249e+00
## [11558,] -3.006334e-01 -2.623558e-01  1.217741e+00  6.464320e-01
## [11559,]  7.187201e-01  4.317151e-01 -3.334108e-01  1.433505e+00
## [11560,]  6.458054e-01 -4.186468e-01  1.190900e+00  7.286975e-01
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## [11563,] -8.107278e-01 -1.326278e+00  1.523099e+00  2.193189e+00
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## [11567,] -5.817380e-01  6.214985e-01  1.015703e+00  8.865321e-01
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## [11569,] -1.122876e+00  1.633672e+00  5.417204e-01  1.511984e+00
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## [11571,]  1.445764e+00  2.015121e-01 -2.739803e-01  1.000143e+00
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## [11573,] -3.101779e+00 -1.864764e-01 -1.768764e+00  2.747323e+00
## [11574,]  1.325424e+00  2.046910e+00  8.046414e-01  1.340568e+00
## [11575,] -9.974333e-01  9.264325e-01  1.483615e+00  1.868344e+00
## [11576,] -2.528933e+00  7.879251e-01 -1.201884e+00  2.821119e-01
## [11577,] -6.069024e-01 -1.769930e-03  8.218789e-01  1.428905e+00
## [11578,] -5.469954e-01  2.569783e+00  8.876718e-02 -3.802668e-02
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## [11580,] -1.409168e-01  1.806519e+00  1.203515e+00  3.425793e-01
## [11581,] -3.928709e-02 -7.017545e-01  1.064025e+00  1.009357e+00
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## [11583,] -5.320689e-01  8.612146e-01 -1.677840e+00  2.778985e+00
## [11584,] -5.816575e-01 -5.369674e-01  1.022742e+00  1.022336e+00
## [11585,] -6.809224e-01 -1.554827e+00 -4.938341e-01  5.996728e-01
## [11586,] -7.370879e-01 -1.430730e-01  1.187572e+00  7.263398e-01
## [11587,] -5.612822e-01  9.030078e-01 -5.578448e-01  9.816718e-01
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## [11590,]  1.084789e+00  6.242086e-01  1.182319e+00  5.205572e-01
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## [11610,] -6.248080e-01  4.292851e-01  1.302365e+00  5.138123e-01
## [11611,] -1.471009e-01 -2.752728e-01 -3.309360e-01  5.387113e-01
## [11612,]  1.199997e+00 -3.242484e-01 -2.712389e-01  7.615026e-01
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## [11615,] -1.356829e+00  3.793538e-01 -1.811644e-01  9.549630e-01
## [11616,] -5.567753e-01 -7.056981e-01  1.159870e-01  1.214502e+00
## [11617,]  2.732878e-01  6.013086e-01  6.552285e-01  1.360336e+00
## [11618,]  3.919636e-02  1.296104e+00  1.053068e+00  2.993143e+00
## [11619,]  2.193456e-01  5.312016e-01  6.563427e-01  2.452403e-01
## [11620,] -1.649571e+00 -1.689270e+00  1.152560e+00  1.042412e+00
## [11621,] -4.893239e-01  2.554500e+00 -1.309616e+00  1.948479e+00
## [11622,] -1.184573e+00  8.243432e-01  1.353207e-01  1.002619e+00
## [11623,] -1.572874e-01 -3.450092e-01 -1.522341e+00  8.619419e-01
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## [11627,] -7.570994e-01  3.496480e-01 -5.474606e-01  8.604169e-01
## [11628,]  1.475335e-01  2.754747e+00  7.262347e-01  1.572308e+00
## [11629,]  1.186009e+00 -3.784494e-01 -1.552586e+00  6.956197e-01
## [11630,] -3.839283e-01  4.649301e-01  1.456169e+00  1.045006e-01
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## [11661,] -2.554885e-01  1.887716e+00 -1.726724e+00  2.254358e+00
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## [11673,]  2.235383e-01  4.564160e-01  1.384265e+00  2.115993e+00
## [11674,] -1.918602e+00  9.841494e-01  4.662314e-01 -9.317039e-02
## [11675,] -1.074037e+00  4.202082e-01  1.047280e+00  8.939517e-01
## [11676,] -5.609825e-01 -9.686824e-02 -3.039524e-01  1.263130e+00
## [11677,] -8.196575e-01 -5.146858e-01  8.093367e-02  5.888006e-01
## [11678,]  9.921385e-03 -3.836197e-01 -1.747613e+00  1.093683e+00
## [11679,] -1.461742e+00  8.241334e-01 -5.460930e-01  1.328347e+00
## [11680,] -2.220326e+00 -3.442540e-01  1.235305e+00  7.336354e-01
## [11681,] -5.043687e-01 -6.719894e-01 -2.048824e+00  1.326569e+00
## [11682,]  8.334213e-01  4.737615e-01 -1.959429e-01  1.245580e+00
## [11683,]  1.859821e-01  1.659360e-01  1.007971e-01  1.256065e+00
## [11684,] -5.717280e-01  3.136758e-01  1.131563e+00  8.433291e-01
## [11685,] -1.029625e+00  1.521368e+00  1.416778e+00  1.907522e-01
## [11686,] -1.639378e+00 -1.045402e+00 -3.859101e-01  6.833430e-01
## [11687,] -9.641001e-01  1.459356e+00  1.061691e+00  3.725044e-01
## [11688,]  1.268765e+00  1.333839e+00  1.092754e+00  2.592555e+00
## [11689,]  1.582131e-01  1.432770e-01 -2.524780e-01  1.344064e+00
## [11690,] -1.707403e+00  8.389512e-01 -1.390235e+00  2.525708e+00
## [11691,] -4.822585e-01 -2.803578e-01  7.818722e-01  1.494545e+00
## [11692,] -3.678121e-02  9.046416e-02  2.139292e-01  3.128710e+00
## [11693,] -1.583630e+00  8.071648e-01  9.840977e-01  1.034403e+00
## [11694,]  1.266766e+00  2.834259e-01  1.170754e+00  7.454062e-01
## [11695,] -6.043988e-01 -5.935050e-01 -9.129107e-01  3.168201e+00
## [11696,]  1.354375e+00  6.782021e-01  8.823486e-01  1.160249e+00
## [11697,] -7.127744e-01 -6.204184e-01 -5.550815e-01  2.480421e+00
## [11698,] -9.764089e-01 -5.943753e-01  1.501734e+00  2.860137e-01
## [11699,] -1.378979e+00 -1.091266e+00 -6.018721e-01  1.094727e+00
## [11700,]  6.151116e-01  8.484765e-01  1.032356e+00  8.156358e-01
## [11701,]  9.839890e-01  7.221216e-02  9.350693e-02  1.802580e-01
## [11702,] -1.948394e-01 -8.583430e-01 -1.562776e+00  2.552118e+00
## [11703,]  2.667711e-01 -6.572980e-01  9.105730e-01  1.234034e+00
## [11704,]  1.477610e-01  4.207508e-01 -8.081506e-01  1.336783e+00
## [11705,]  5.453770e-01 -1.656788e-01 -1.316652e+00  9.101236e-01
## [11706,] -2.464507e-01 -1.181047e+00 -8.149589e-01  1.652315e-01
## [11707,] -4.005458e-01  1.935019e+00 -1.345268e+00  2.365557e-01
## [11708,]  7.077901e-01 -4.421972e-02  1.183615e+00  7.927132e-01
## [11709,]  1.257615e+00  8.142738e-02  1.073131e+00  8.596943e-01
## [11710,]  1.673069e-02  8.919737e-02 -2.443120e-01  2.832697e+00
## [11711,] -1.561501e+00 -1.884058e+00  4.999250e-02  2.557786e+00
## [11712,]  4.536542e-01  3.211353e-01  1.222163e+00  2.382486e-01
## [11713,]  1.496157e+00 -3.053869e-02  1.137953e+00  2.789498e+00
## [11714,] -3.088117e-01 -5.160550e-01  1.604662e+00  4.158421e-02
## [11715,] -8.908511e-01  8.110300e-02 -9.860520e-01  2.759114e-01
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## [11717,] -2.542994e-01  2.268618e+00 -5.846445e-02  2.053623e+00
## [11718,] -6.887288e-01  6.091243e-01  1.233637e+00  2.452948e+00
## [11719,] -6.146346e-01  5.347635e-01 -1.417226e+00  1.417869e+00
## [11720,] -4.689878e-01  1.102200e+00  9.575614e-01  9.901170e-01
## [11721,] -2.156138e-01 -3.715241e-01  7.894529e-02  8.018794e-01
## [11722,]  7.461046e-01  3.446821e-01 -1.983349e+00  1.005741e+00
## [11723,] -4.145225e-02 -4.757411e-01 -2.478362e-01  9.977383e-01
## [11724,]  4.334402e-01  8.847270e-01 -1.528403e+00  2.279118e+00
## [11725,]  1.071353e+00  1.686085e+00  1.182863e+00  3.436194e-01
## [11726,] -1.038618e+00 -1.319473e+00 -1.612893e+00  6.817992e-01
## [11727,]  6.997782e-01 -7.147413e-01  9.542614e-01  8.292388e-01
## [11728,] -7.562208e-01  3.190497e-01 -3.202358e-01  1.088213e+00
## [11729,]  1.096868e-01 -5.815043e-01 -1.932273e+00  1.099710e+00
## [11730,] -1.653455e-01 -6.539207e-01  6.629877e-01  8.772331e-01
## [11731,] -7.793031e-02 -8.607467e-01 -1.624439e-01  2.427690e+00
## [11732,]  6.975294e-01 -4.621755e-01 -4.111680e-01  3.128197e+00
## [11733,]  8.114347e-01  2.650936e-01 -6.638173e-01 -1.050004e-01
## [11734,] -3.771860e-02 -2.845621e-01  1.004707e+00  1.063454e+00
## [11735,]  1.386449e+00  6.600860e-01  9.178171e-01  1.209637e+00
## [11736,]  6.867401e-01 -3.793236e-01  4.151765e-01  2.514686e+00
## [11737,]  1.313981e+00  1.227611e+00 -6.891237e-01  1.177551e+00
## [11738,]  7.840099e-02  2.373644e+00 -1.154434e+00  1.411958e+00
## [11739,] -1.011536e+00 -8.279582e-01  3.324779e-02  2.393318e+00
## [11740,]  5.513256e-01 -5.182787e-01  4.167424e-02  9.037339e-01
## [11741,]  1.244928e+00 -1.553669e-01  1.204462e+00  2.625831e+00
## [11742,] -1.428575e+00  2.499508e+00 -1.662544e+00  2.443018e+00
## [11743,]  8.181764e-01  2.154568e+00 -1.136230e+00  1.706987e+00
## [11744,]  1.210173e+00  2.450452e-01  1.262249e+00  4.846591e-01
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## [11745,] -2.179981e+00  1.280736e+00  6.542319e-01  1.567389e+00
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## [11748,] -1.266567e+00 -7.288915e-01 -9.197291e-02  3.232589e+00
## [11749,] -2.960775e+00 -4.477946e-01 -1.615848e+00  7.348580e-01
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## [11752,] -2.120127e-01  2.779508e-01  6.676039e-03  3.122054e-01
## [11753,]  1.380202e+00 -3.202730e-01  1.085606e+00  2.809095e+00
## [11754,] -7.377356e-01 -1.210361e+00 -7.994608e-02  2.770682e+00
## [11755,]  9.993716e-01  1.206576e-01  2.173477e-01 -5.657955e-02
## [11756,] -1.551321e-01 -8.252618e-01  6.659595e-01  8.838839e-01
## [11757,]  1.102676e+00  3.127975e+00 -1.828821e+00  5.915708e-01
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## [11759,] -5.957835e-02 -5.366195e-01 -1.497219e+00  6.844923e-01
## [11760,] -9.161433e-01 -1.019908e-01 -1.429559e+00  2.059298e-01
## [11761,]  6.043296e-01 -3.539186e-01 -3.631687e-01  1.081473e+00
## [11762,]  3.989180e-01 -5.529625e-01  1.479688e+00  2.194549e-01
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## [11766,]  1.184525e+00  3.120179e-01 -1.622237e+00  5.890105e-01
## [11767,] -1.128049e-01  3.417049e-01 -1.282090e-01  6.133620e-01
## [11768,]  3.828482e-01 -7.594411e-02  5.265942e-01  5.685684e-01
## [11769,]  8.234168e-01  1.146664e-01  6.390981e-01  3.272773e+00
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## [11800,] -1.410301e+00  5.151027e-01  1.157064e+00  6.872824e-01
## [11801,] -9.244198e-01  2.619998e+00  7.302196e-01  1.868826e+00
## [11802,]  3.718825e-02  8.810095e-01  1.233848e+00  2.469773e+00
## [11803,]  1.178399e+00  1.342286e+00 -6.528870e-01  7.953568e-01
## [11804,]  3.654426e-01 -9.225713e-01  3.592050e-01  1.991149e+00
## [11805,]  3.021081e-01 -1.466562e+00  1.810171e+00  1.701181e+00
## [11806,]  4.967736e-01  4.150649e+00  1.151304e+00  2.546834e+00
## [11807,] -4.676520e-03 -6.070855e-01 -3.213326e-01  1.086372e+00
## [11808,] -1.596762e+00  1.455119e+00 -8.715821e-02  5.276670e-01
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## [11811,] -9.591296e-01  1.096747e+00  1.198979e+00  5.486381e-01
## [11812,] -1.462382e+00 -8.357982e-02 -2.421810e-01  4.271273e-01
## [11813,]  1.157861e+00 -5.444806e-02  1.497082e-02  6.649811e-01
## [11814,] -1.772068e-03  4.488913e-01  7.323416e-01  1.456347e+00
## [11815,] -1.088482e+00  2.685560e+00  1.150315e+00  4.261711e-01
## [11816,]  2.622748e-01 -3.976722e-01 -4.631539e-01  1.241945e+00
## [11817,] -5.310571e-02 -4.597871e-01 -2.895841e-01  7.498533e-01
## [11818,] -1.387734e+00 -2.234343e-01  1.294845e+00  6.299127e-01
## [11819,] -6.015495e-02 -1.004758e-01  9.766298e-01  1.042467e+00
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## [11821,]  1.481378e-01 -4.553793e-02  4.143368e-01  1.190741e+00
## [11822,] -1.470282e+00  1.141234e+00 -1.228411e+00  5.640053e-01
## [11823,] -8.542000e-01  7.602098e-01 -1.620065e+00  6.978172e-01
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## [11827,] -1.000975e+00  5.799696e-01  1.383499e+00  3.641638e-01
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## [11830,] -3.836965e-02  1.024688e+00  1.178810e+00  2.438414e+00
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## [11842,] -1.392620e+00 -7.957439e-01 -1.932100e+00  1.258741e+00
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## [11848,]  1.430461e+00  9.020456e-01 -2.355397e-01  2.989292e+00
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## [11859,] -1.314952e+00  9.387011e-01  2.423035e-01  1.131053e+00
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## [11863,] -7.504881e-01  2.843123e-01  1.243456e+00  5.377887e-01
## [11864,]  1.295826e+00  2.117097e-01  1.383110e+00  2.326797e+00
## [11865,]  1.153274e+00 -3.318961e-01  1.379875e+00  4.041466e-01
## [11866,]  1.227740e+00  7.302474e-02 -2.700527e-01  2.698764e+00
## [11867,] -2.222302e+00 -1.820338e-01 -1.814466e+00  8.957384e-01
## [11868,]  2.534489e-01  5.302480e-02 -4.271825e-01  1.244611e+00
## [11869,] -9.316789e-01  8.778122e-01 -6.302956e-02 -1.032277e-02
## [11870,] -4.969727e-02 -3.765454e-01 -1.479540e+00  2.475966e+00
## [11871,] -3.453199e-01  4.107924e-01  1.350846e+00  2.241327e+00
## [11872,] -6.614935e-01 -9.390543e-01  1.778447e-01  1.143341e+00
## [11873,]  6.630665e-01  8.873791e-01 -1.283238e+00  1.450674e+00
## [11874,]  5.413481e-01  8.611677e-01 -4.463320e-01  7.602659e-01
## [11875,] -2.112742e-02 -7.272076e-01  3.134907e-02  4.869179e-01
## [11876,] -1.462882e-01 -6.623131e-01  1.083276e+00  9.683958e-01
## [11877,]  2.328505e-01  1.814306e+00  7.152307e-01  6.323216e-02
## [11878,]  1.263574e+00 -2.460797e-01  1.205159e+00  2.543003e+00
## [11879,] -4.792005e-01  1.308502e+00  1.611256e+00 -3.269339e-01
## [11880,] -5.440891e-01  6.866382e-01 -5.046672e-02  1.572215e+00
## [11881,]  1.421631e+00  7.367821e-01  8.853983e-01  1.295806e+00
## [11882,] -5.749947e-01 -1.179407e+00 -2.059540e-01  2.963875e+00
## [11883,]  5.209064e-01 -5.183781e-01  1.063974e-01  2.305587e-01
## [11884,] -9.953314e-01  5.616467e-01  1.197647e+00  5.734459e-01
## [11885,]  1.070041e+00  1.583021e-02 -1.134409e+00  4.837236e-01
## [11886,]  3.909235e-02  6.883740e-01 -1.756346e+00  1.299003e+00
## [11887,]  2.455613e-01 -3.131872e-01  4.234482e-01  1.829277e-01
## [11888,]  1.059537e+00 -2.127571e-01  1.925923e-01  2.252014e+00
## [11889,] -8.677449e-01  8.574663e-01  1.081878e+00  7.522266e-01
## [11890,]  7.199469e-02 -4.081308e-01  8.187698e-01  7.664911e-01
## [11891,] -6.577793e-01 -9.195891e-01 -1.743281e+00  2.753868e+00
## [11892,] -1.135136e+00  1.452136e-01  3.798709e-01 -2.367110e-01
## [11893,]  1.154722e+00  8.431942e-01 -1.813467e-01  5.557871e-01
## [11894,]  1.183569e+00 -8.523926e-03 -6.636701e-01  6.310724e-01
## [11895,]  2.376275e-01 -4.644941e-01 -4.283925e-02  1.972507e+00
## [11896,]  5.897187e-01 -9.598241e-02 -1.170710e+00  5.827399e-01
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## [11898,]  5.575175e-01 -1.254571e-01  3.167075e-01  7.219415e-01
## [11899,] -4.108631e-01 -6.728504e-02 -1.570494e+00  1.414793e+00
## [11900,] -1.906011e-01  1.837930e+00  1.354174e+00  2.048545e+00
## [11901,] -2.362064e+00 -3.963132e-01 -8.441911e-02  3.087257e-01
## [11902,] -8.088497e-01  2.892060e-01  1.243446e+00  5.968160e-01
## [11903,] -2.947994e-01  1.591978e-01  1.735527e+00  1.675850e+00
## [11904,]  1.133100e+00  7.335296e-01 -1.405513e-01  4.909849e-01
## [11905,]  9.260650e-01 -2.448703e-02 -2.191849e-02  1.310372e+00
## [11906,]  4.947440e-01 -9.354946e-02 -1.661699e+00  5.418281e-01
## [11907,]  5.165423e-01 -4.015610e-01 -6.609745e-01  3.722866e-01
## [11908,] -1.066408e+00  1.933827e+00  1.403864e+00 -2.079018e-02
## [11909,] -2.963660e-01 -9.917702e-01 -1.606384e-01  5.343927e-01
## [11910,] -1.043668e+00  5.983079e-01  1.368590e+00  2.866840e-01
## [11911,] -1.282373e+00  2.995980e-01 -1.571335e-01  7.270246e-01
## [11912,] -1.474724e+00  1.519139e-01 -5.663910e-01  1.652101e+00
## [11913,]  4.843834e-01  3.879608e+00  5.579775e-01  8.302450e-01
## [11914,]  4.635344e-01 -7.005714e-02  1.398511e+00  2.264367e+00
## [11915,]  6.485714e-01  3.044083e-01 -1.846090e-01  6.974304e-01
## [11916,]  4.824914e-01 -8.965031e-01  1.405167e+00  3.851917e-01
## [11917,] -1.654186e-01 -1.481514e+00  2.246590e-01  2.540542e-01
## [11918,]  5.744420e-01 -2.611909e-01 -1.911241e+00  9.672481e-01
## [11919,] -1.550427e+00  9.497106e-01  1.089788e+00  8.136161e-01
## [11920,] -2.059647e-01 -7.006175e-02 -3.943984e-01  6.335002e-01
## [11921,]  1.002281e+00  2.803211e+00  1.242172e+00  2.236591e+00
## [11922,] -8.081389e-01  3.958759e-01  4.342203e-01  7.943597e-01
## [11923,] -1.689088e+00  6.738431e-01 -1.624202e+00  7.103207e-01
## [11924,] -8.289113e-01  4.141973e-02 -1.375610e-01  8.477909e-01
## [11925,]  1.083085e+00  2.128130e-01 -1.603144e-01  5.853882e-01
## [11926,]  1.256892e+00  8.405231e-02  5.729041e-01  2.506607e+00
## [11927,]  4.955768e-01 -8.813641e-01 -1.339888e+00  2.052565e+00
## [11928,] -5.157797e-01  9.243496e-01 -1.105461e-01  7.891723e-01
## [11929,] -1.013162e+00  3.955129e-01  3.477638e-02  2.768219e-01
## [11930,] -8.618847e-02 -5.212902e-01 -3.572238e-01  2.918575e+00
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## [11933,]  5.937474e-03 -5.681861e-01 -1.789043e+00  8.462579e-01
## [11934,]  6.327853e-01 -1.104108e+00 -7.394066e-03  2.444177e+00
## [11935,] -2.734959e-01 -1.345068e+00 -1.347703e+00  4.995530e-01
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## [11938,] -1.284277e+00  1.038364e+00  1.656036e-02  7.963034e-01
## [11939,] -1.507157e+00  7.878360e-02 -3.327441e-01  7.295868e-01
## [11940,] -1.238711e+00  9.381268e-01 -4.542684e-01  1.310454e+00
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## [11941,]  3.469227e-01  1.330524e+00  4.514974e-01  2.044597e+00
## [11942,]  1.155473e+00  1.136524e+00  2.106918e-01  8.123296e-01
## [11943,]  6.952858e-01  5.263427e-01  9.661022e-01  3.002961e+00
## [11944,]  1.404406e+00  3.695232e-01 -6.595555e-01  3.026385e+00
## [11945,]  1.423473e+00  4.528778e-03 -2.532938e-01  1.062455e+00
## [11946,]  7.258663e-01  4.821248e-01 -2.016956e+00  1.075307e+00
## [11947,]  1.239961e+00  4.790551e-01 -1.244874e+00  6.668170e-01
## [11948,] -1.238181e-01 -6.228628e-02 -7.936028e-02  5.452994e-01
## [11949,]  4.173059e-02  8.392789e-02  1.140731e+00  7.640960e-01
## [11950,] -9.758345e-01 -5.871122e-01 -2.775657e-01  9.411209e-01
## [11951,]  6.595192e-01 -5.921980e-01  9.496290e-01  2.790122e+00
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## [11953,] -5.535780e-01 -4.802610e-01 -1.827490e+00  1.233208e+00
## [11954,] -1.543556e+00 -2.093731e+00  1.229694e+00  2.875502e+00
## [11955,]  5.952726e-01 -3.400530e-01 -4.687880e-02  1.034185e+00
## [11956,] -4.278179e-01  8.032031e-01  1.486560e+00  6.220211e-02
## [11957,]  1.150732e+00  3.817209e-01 -1.572413e-01  4.520714e-01
## [11958,] -2.693515e-02  3.480731e-01 -4.186553e-01  1.319404e+00
## [11959,] -1.931674e+00  7.279422e-01  8.424035e-01  3.371473e+00
## [11960,] -5.135074e-01 -2.267571e-01  3.537121e-01  1.866889e+00
## [11961,] -1.472194e+00 -1.346365e+00 -2.525763e-01  7.835444e-01
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## [11964,]  8.330782e-01  2.024983e-01  3.437334e-01  2.937105e+00
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## [11974,]  6.626187e-01 -7.328730e-01 -2.612615e-01  9.398124e-01
## [11975,]  5.677013e-01 -5.322349e-01  3.619342e-01  9.570853e-01
## [11976,]  1.364388e+00  2.137161e+00  9.187288e-01  3.238105e+00
## [11977,]  2.201947e-01 -5.548966e-02  9.412620e-01  3.203028e+00
## [11978,] -1.455148e+00  3.490272e+00 -1.875331e+00  7.891234e-01
## [11979,] -3.945865e-01  5.019997e+00 -1.622446e+00  4.345184e-01
## [11980,] -5.065074e-01  1.816966e+00  1.564418e+00 -3.274357e-01
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## [11982,]  5.667763e-01  2.138955e-02 -3.812644e-01  6.390145e-01
## [11983,] -6.348854e-03 -3.112575e-01  1.052169e+00  9.330870e-01
## [11984,] -6.139854e-01 -4.942998e-01 -5.062845e-01  2.734095e+00
## [11985,] -1.197921e+00 -7.384114e-01 -6.377946e-01  1.932182e+00
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## [11990,] -2.968410e-01 -6.451621e-01 -5.510981e-01  5.610403e-01
## [11991,]  4.804105e-01  1.321192e+00 -1.143359e-01  3.917061e-01
## [11992,]  1.224111e+00 -6.984055e-01 -1.822994e-01  2.314153e+00
## [11993,] -3.301626e-01 -4.500374e-01 -5.182067e-03  5.198126e-01
## [11994,] -5.720758e-01  1.311497e+00  6.800846e-01  1.507923e+00
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## [11999,] -2.400677e+00  7.572210e-01 -1.625624e+00  7.872157e-01
## [12000,]  1.070945e+00  7.003737e-01  1.322165e+00  3.370938e-01
## [12001,] -1.470323e+00  5.093385e-01  3.570141e-01  9.274680e-01
## [12002,] -8.450318e-01 -3.638418e-01 -8.554936e-01  1.537502e-01
## [12003,]  1.220870e+00 -3.642909e-02 -2.344348e-01  2.259494e+00
## [12004,]  4.541743e-01 -2.128788e-01 -6.469790e-02  4.443059e-01
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## [12008,]  7.532785e-01 -2.749485e-01 -1.813524e-01  2.903254e+00
## [12009,]  1.163104e+00  5.438959e-01  1.365965e-02  4.954610e-01
## [12010,]  1.435744e-01 -2.566950e-01 -4.711366e-01  9.541212e-01
## [12011,] -2.237301e+00  1.816510e+00 -1.788578e+00  8.955531e-01
## [12012,] -7.619388e-01 -1.486513e+00  1.364568e-01  6.125556e-01
## [12013,]  6.647232e-01  1.959817e-01  3.557740e-01  9.220734e-01
## [12014,] -1.387611e+00 -1.548047e-01  1.040935e-01  2.249696e+00
## [12015,] -2.540316e-01 -5.147140e-02  2.529779e-01  1.864971e-01
## [12016,] -1.229909e+00  2.076686e-01  1.224549e+00  8.228884e-01
## [12017,] -1.888909e+00 -1.868452e-01  8.447342e-01  1.415923e-01
## [12018,]  5.381690e-01 -8.362600e-02  1.959324e-01  2.516321e+00
## [12019,]  1.487808e+00  7.663789e-01  4.197621e-01  1.026651e+00
## [12020,]  5.401599e-02  1.767720e+00  8.181705e-01  1.023302e+00
## [12021,]  1.435934e+00  3.867854e-01  5.982941e-01  1.037637e+00
## [12022,] -4.501959e-01  9.831046e-01 -1.394181e+00  1.806931e+00
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## [12029,]  1.254290e+00 -4.432470e-01  1.306476e+00  2.587650e+00
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## [12036,] -2.251940e+00  2.009692e+00 -4.017529e-01  1.118919e+00
## [12037,] -6.400581e-02 -1.188493e-01 -5.576518e-01  9.666110e-01
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## [12041,]  8.002096e-01  1.221803e+00 -8.714243e-03  1.848848e+00
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## [12053,] -1.819131e-01 -6.067976e-03  1.058103e+00  9.546323e-01
## [12054,]  5.468160e-01 -1.529758e-01  1.160115e+00  2.786739e+00
## [12055,]  5.161464e-01 -9.894058e-01  1.512581e+00  2.317243e-01
## [12056,] -2.364037e-01  5.649834e-01 -4.017423e-01  8.628947e-01
## [12057,]  8.673759e-02  4.269685e-01 -5.437311e-01  1.245615e+00
## [12058,] -5.978427e-01 -7.954062e-01 -1.770119e+00  8.624084e-01
## [12059,]  1.332962e+00 -8.710524e-02  2.302210e-01  5.249019e-01
## [12060,]  1.360507e+00  1.648316e-01  9.676734e-01  1.105224e+00
## [12061,]  1.305849e+00  1.041987e+00  5.883281e-01  9.470421e-01
## [12062,]  6.020324e-01 -6.412815e-01  1.037723e+00  1.048659e+00
## [12063,]  6.226480e-01  5.628262e-01  9.170920e-01  1.025513e+00
## [12064,]  5.435506e-01 -3.114104e-01 -1.265961e+00  2.472082e+00
## [12065,] -2.418595e-01  9.423673e-01 -3.026342e-01  9.119444e-01
## [12066,]  5.729029e-01 -5.118270e-01  1.575423e-01  3.826443e-01
## [12067,]  1.171926e+00 -4.568753e-01  1.442970e+00  4.096932e-01
## [12068,]  1.209835e+00 -4.195548e-01  1.405451e+00  2.354457e+00
## [12069,]  7.522272e-02  9.250299e-01  3.604539e-02  8.749973e-01
## [12070,]  5.700138e-03  1.304919e-01 -1.802021e-01  6.760003e-01
## [12071,]  9.328782e-01  8.135949e-01  7.289480e-03  2.205155e-01
## [12072,] -2.574005e+00  1.885185e-01  8.204680e-01  1.980540e+00
## [12073,]  4.473915e-01  3.059681e+00  6.045646e-01  5.063771e-01
## [12074,]  2.674276e-02 -1.031869e+00 -1.132341e+00  7.373524e-01
## [12075,] -1.562634e+00  1.088892e-01 -1.274648e-01  9.444220e-01
## [12076,]  5.629954e-02  9.398844e-02 -1.660483e+00  2.869775e+00
## [12077,] -1.014362e+00  7.954832e-01 -1.546244e+00  2.347894e+00
## [12078,] -6.903603e-01  8.951548e-02  1.098852e+00  8.662597e-01
## [12079,] -1.383167e-01 -4.310187e-01  7.164707e-01  2.608583e+00
## [12080,]  9.810235e-02 -2.913198e-01 -3.896779e-01  2.962266e+00
## [12081,]  5.178786e-01 -6.206464e-01  1.188620e+00  2.685913e+00
## [12082,] -1.785891e+00  6.062359e-01  1.771149e-01  5.014356e-01
## [12083,] -1.601627e-01 -9.481430e-01 -2.177389e-01  5.981312e-01
## [12084,]  5.272790e-01 -8.747976e-01 -1.909005e-01  5.712847e-01
## [12085,] -1.072011e+00  1.901855e+00  8.475607e-01  2.227851e+00
## [12086,] -1.399649e-01  5.317141e-01  1.064161e+00  7.269417e-01
## [12087,] -7.329240e-02  6.768338e-01  1.088094e+00  7.726327e-01
## [12088,] -1.570559e+00 -1.230916e-02 -1.507795e+00  3.529673e-01
## [12089,] -2.569245e+00 -6.089592e-01  2.926080e-01  2.175013e+00
## [12090,] -3.094881e+00  1.031544e+00 -9.903605e-01  2.481867e+00
## [12091,] -2.357274e+00  1.013136e+00  9.884457e-01  9.960110e-01
## [12092,]  4.388255e-01  6.691159e-02  1.400319e+00  2.137352e+00
## [12093,]  5.427037e-01 -4.923676e-01 -2.691030e-01  2.457064e+00
## [12094,] -8.883066e-01 -2.786653e-01  1.160939e+00  2.590398e+00
## [12095,] -1.059586e+00  1.620329e+00 -5.073860e-01  1.016718e+00
## [12096,]  3.540638e-01  3.222685e+00  5.222871e-01  6.263226e-01
## [12097,]  7.760415e-01  6.067797e-01  7.681552e-02  1.026193e+00
## [12098,] -1.428626e+00 -6.420858e-02  1.009271e+00  7.674057e-01
## [12099,]  5.506252e-01 -1.838602e-01 -1.760292e+00  6.798372e-01
## [12100,]  6.692494e-01 -3.535863e-01  1.103875e+00  8.100586e-01
## [12101,] -1.356882e-01  1.950035e+00 -9.425550e-02  1.081716e+00
## [12102,]  2.119003e-01  2.474122e-01  9.473813e-01  1.178660e+00
## [12103,]  1.688261e-01  4.614120e-01 -2.188193e+00  1.554906e+00
## [12104,] -1.056111e-01  9.961440e-01 -5.513880e-01  9.500826e-01
## [12105,] -1.817174e-01 -4.629898e-01 -1.708039e+00  2.657499e+00
## [12106,]  4.595254e-01  1.544525e+00  5.352746e-01  2.078018e+00
## [12107,] -5.373174e-01  1.043419e+00 -1.982529e+00  1.054830e+00
## [12108,] -3.927995e-01 -4.971378e-01 -2.088576e+00  1.399229e+00
## [12109,]  2.993179e-01 -1.352443e-01  6.245250e-01  2.152634e+00
## [12110,]  4.524485e-01  2.358148e-01  5.295568e-01  2.913602e-01
## [12111,] -2.631113e-01 -3.045792e-01  8.677523e-01  2.319078e+00
## [12112,] -9.768800e-02 -9.323793e-01 -3.416494e-01  2.619968e+00
## [12113,]  1.477790e+00  5.917398e-02 -5.475468e-01  2.881872e+00
## [12114,] -5.565843e-01 -5.686345e-01 -2.172057e-01  2.874754e+00
## [12115,] -6.574783e-03 -2.033235e-01 -1.521873e+00  1.303076e+00
## [12116,] -7.622898e-01 -4.205639e-01 -5.803809e-01  1.533638e+00
## [12117,]  4.698631e-01  3.908529e-01  6.210769e-02  2.114718e-01
## [12118,]  1.278889e-01  3.617359e-01  1.030085e+00  9.925902e-01
## [12119,]  7.671974e-01  9.687901e-01  6.013929e-01  2.839816e+00
## [12120,]  4.623281e-01  5.110213e-01  1.126630e+00  8.259775e-01
## [12121,]  2.968982e-01  2.090797e-01 -1.745969e+00  1.333342e+00
## [12122,]  2.493253e-01  2.841786e-01 -7.999281e-01  1.436255e+00
## [12123,] -2.467050e-02  1.291241e+00  8.534892e-01  1.112979e+00
## [12124,]  1.026094e+00  5.886828e-01  1.354940e+00  3.419498e-01
## [12125,] -7.034956e-01  8.804554e-01 -1.831683e+00  7.974167e-01
## [12126,] -2.138888e-01 -1.279790e+00 -8.076066e-01  1.319280e-01
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## [12128,] -1.670360e+00  7.184573e-01  1.291647e+00  4.900441e-01
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## [12131,] -4.022403e-02 -1.037653e+00 -1.958467e-01  9.412313e-01
## [12132,]  8.631091e-01 -2.468327e-01  2.295085e-01 -1.752866e-02
## [12133,] -4.198635e-01 -5.243762e-01 -1.787167e+00  3.400559e+00
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## [12136,]  8.101517e-01  2.444590e-01  3.201278e-01  1.291523e+00
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## [12137,]  1.085509e-01 -1.091886e-01  1.046619e+00  8.474297e-01
## [12138,] -8.695120e-02 -1.218207e+00 -6.140664e-02  2.643349e+00
## [12139,] -9.022858e-01 -1.497481e+00  4.777079e-01  6.973714e-01
## [12140,]  8.529198e-01  7.824914e-01 -7.066030e-03  1.219645e+00
## [12141,] -6.562212e-01  1.127093e-01  1.341791e+00  4.152300e-01
## [12142,]  1.435529e+00  7.503351e-01 -5.495421e-01  1.176854e+00
## [12143,] -8.715734e-01 -1.100155e+00  1.380390e+00  2.486913e+00
## [12144,]  4.883531e-01 -4.664620e-01 -5.197246e-01  7.655311e-01
## [12145,] -1.495528e+00  4.304017e-01 -2.443139e-01  8.681288e-01
## [12146,] -9.682133e-01  2.751830e-01 -6.319975e-02  1.893710e-01
## [12147,]  4.855383e-01  2.556616e-01  6.939646e-01  8.704352e-01
## [12148,] -1.881616e+00 -2.273471e-01  2.021394e-01  1.634700e-01
## [12149,] -8.026934e-01  2.188917e+00  1.129707e+00  6.128603e-01
## [12150,]  9.594129e-01  6.941924e-01  4.427617e-01  3.321063e+00
## [12151,] -6.141597e-01  7.257739e-02 -1.823849e+00  1.326276e+00
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## [12154,]  2.967626e-01  3.618782e-01  1.346155e+00  4.123403e-01
## [12155,]  5.271887e-01 -9.120139e-01 -9.468167e-02  7.951023e-01
## [12156,]  6.169510e-02 -6.015381e-01  9.655115e-01  1.249913e+00
## [12157,]  2.563610e-01 -2.708961e-01 -5.983057e-01  1.460404e+00
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## [12161,] -3.581267e-01  5.411011e-01  1.473875e+00  6.693175e-02
## [12162,] -8.131781e-01  7.154936e-01  1.128178e+00  6.595757e-01
## [12163,] -7.101187e-02 -9.088131e-01 -8.321971e-02  3.485395e-01
## [12164,] -1.411321e-01 -6.426546e-01  2.746212e-01  6.867164e-01
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## [12166,]  1.485919e+00  7.722582e-01  9.915291e-01  2.878818e+00
## [12167,] -1.446226e+00  7.784543e-02  6.875676e-01  7.214300e-01
## [12168,]  7.188054e-01 -2.349707e-01 -1.282732e+00  7.783561e-01
## [12169,]  7.966205e-01  7.613049e-01  9.240119e-01  1.116902e+00
## [12170,]  6.846780e-01  3.134256e-04 -1.096710e+00  7.302141e-01
## [12171,]  1.671462e-01  1.647054e+00  1.340857e+00  5.893393e-02
## [12172,] -2.254655e+00  6.632492e-01 -2.566649e-01  7.784430e-01
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## [12175,]  6.862775e-01 -9.186045e-01  1.310791e+00  2.496750e+00
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## [12177,]  5.693888e-01 -6.441008e-01 -9.424231e-01  3.353388e-01
## [12178,]  1.664660e-01  8.133550e-02  2.604316e-01  1.049215e+00
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## [12181,]  1.103843e+00  1.333764e+00 -2.659001e-01  2.544757e+00
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## [12183,]  1.066107e+00 -7.588154e-01  1.733145e+00  1.817615e+00
## [12184,] -5.208866e-01 -2.389582e-01  2.709890e-02  1.176562e+00
## [12185,]  8.342738e-01  3.678440e-01  8.679320e-01  1.269839e+00
## [12186,]  1.399317e+00 -1.741785e-01 -5.082648e-01  1.010937e+00
## [12187,] -1.329487e+00  1.493924e+00 -3.976027e-01  1.165378e+00
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## [12189,]  2.873151e-01  2.726569e-03 -2.205285e+00  1.499687e+00
## [12190,] -7.220645e-01  1.744455e+00  1.173134e+00  2.490776e+00
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## [12192,]  5.305848e-01 -2.483321e-01  1.284506e+00  2.511058e+00
## [12193,] -2.667799e-01 -1.676855e+00  1.288602e+00  5.185809e-01
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## [12195,]  1.266943e+00  1.018912e+00 -6.326027e-01  1.050035e+00
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## [12201,] -2.374209e+00  1.615158e+00  2.004093e-01  1.013732e+00
## [12202,] -9.067199e-01 -6.915830e-01  1.276400e+00  6.294832e-01
## [12203,] -9.246922e-01  6.350258e-01  1.197700e+00  5.834263e-01
## [12204,]  7.567346e-01  3.029952e-01 -2.243452e-02  9.337829e-01
## [12205,] -3.394745e+00  3.755138e-01 -4.454325e-01  1.140299e+00
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## [12207,]  1.369133e+00  4.254476e-01  8.037740e-01  2.805726e+00
## [12208,]  6.519251e-01  3.921074e-01 -2.841032e-01  8.329238e-01
## [12209,] -7.283050e-01 -6.654197e-01 -3.671544e-01  2.634663e+00
## [12210,]  1.209081e+00  1.025280e+00  9.891484e-01  2.759995e+00
## [12211,]  2.069208e-01  1.668272e+00 -7.102193e-01  1.170950e+00
## [12212,]  1.343574e+00  1.387370e+00 -1.590308e+00  2.777544e+00
## [12213,] -6.748168e-01 -1.340041e+00 -5.319760e-02  2.702214e+00
## [12214,]  9.410171e-01  4.981360e-01  1.660935e+00 -5.203675e-02
## [12215,]  1.307675e+00  3.531091e-02 -6.076429e-01  1.050215e+00
## [12216,]  1.374694e+00  1.018355e+00 -1.807525e-01  2.868745e+00
## [12217,]  1.191991e+00  5.088677e-01  1.229300e+00  2.448324e+00
## [12218,]  4.193321e-01  9.154825e-02  1.343839e+00  3.539377e-01
## [12219,] -1.946781e-03 -2.581306e-01 -1.803796e+00  8.583689e-01
## [12220,] -7.660476e-01 -1.438974e+00  4.353867e-01  2.251074e+00
## [12221,] -6.424700e-01  1.499148e+00 -9.118297e-01  1.431165e+00
## [12222,] -6.385543e-01 -1.105383e+00  1.050589e+00  1.206499e+00
## [12223,] -4.259799e-02 -1.800077e-01  1.030229e+00  1.052478e+00
## [12224,]  5.157088e-01 -9.212157e-01  1.374191e-01  2.263888e+00
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## [12227,] -1.388018e+00 -1.357613e+00 -3.433370e-01  1.274951e+00
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## [12229,] -1.292668e+00  4.311939e-01 -1.663224e+00  2.151842e+00
## [12230,] -9.715409e-02 -1.016838e+00  1.465725e+00  2.412583e+00
## [12231,] -3.296613e-01 -2.101517e+00 -2.347923e-01  2.134375e+00
## [12232,]  1.588102e-01 -2.183138e-01 -6.743407e-02  9.929774e-01
## [12233,]  7.080551e-01 -1.229277e+00  1.314203e+00  6.616237e-01
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## [12239,]  5.792166e-01 -8.012854e-01  1.140438e+00  2.810450e+00
## [12240,]  4.647759e-01 -1.089591e+00 -1.288769e+00  3.471703e-01
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## [12242,] -1.804053e+00  3.282743e-02  1.384840e+00  4.039849e-01
## [12243,]  1.400056e+00  1.290986e-01 -3.534626e-01  3.014298e+00
## [12244,]  8.367829e-01  7.128771e-01  6.334330e-01  1.314772e+00
## [12245,]  1.480140e+00  3.325782e-01  7.243571e-01  1.438139e+00
## [12246,] -3.553249e-01  7.645837e-01  1.219618e+00  4.389639e-01
## [12247,] -8.086896e-02 -9.587886e-01  1.265811e+00  2.692458e+00
## [12248,]  5.967187e-01  7.572221e-01 -1.938005e+00  9.010209e-01
## [12249,]  7.529139e-01  4.407569e-01 -2.048719e+00  1.484765e+00
## [12250,]  9.018576e-01  4.876191e-01  2.327095e-01 -1.128203e-01
## [12251,] -1.239800e+00  1.573830e+00 -4.279083e-01  9.980293e-01
## [12252,]  3.817171e-01 -3.434791e-01  3.306191e-02  2.112253e+00
## [12253,]  3.817138e-01  1.229995e-02  2.942083e-01  3.265729e-01
## [12254,] -8.624673e-01  1.934739e+00  2.605594e-01  2.906212e-01
## [12255,]  1.327266e+00  1.231701e+00  1.823922e-01  8.291454e-01
## [12256,]  1.324147e+00  6.949986e-01 -2.034908e-01  2.866513e+00
## [12257,] -5.555948e-01  2.400247e+00 -1.791795e-01  1.759798e+00
## [12258,]  3.508050e-01  1.548022e-01  6.922219e-01  1.708343e+00
## [12259,] -8.615785e-01 -5.880950e-01 -1.791839e+00  8.865495e-01
## [12260,] -1.301532e-01 -5.920290e-01  1.566708e+00  2.343006e+00
## [12261,] -2.796710e-02 -6.180661e-01  1.233230e+00  2.659142e+00
## [12262,] -1.590113e+00  2.014272e+00  1.281742e+00  2.252535e+00
## [12263,] -9.660261e-01 -3.193600e-01 -3.571079e-01  2.794804e+00
## [12264,] -1.960236e+00  4.835169e-01  1.530016e-01  7.743157e-02
## [12265,] -1.182886e+00  8.742142e-01  4.859083e-01  2.875342e+00
## [12266,]  6.599296e-01  3.787819e-01 -5.099274e-01  1.048214e+00
## [12267,]  7.726290e-01  2.682078e+00 -2.325549e-01  1.911602e+00
## [12268,]  4.683685e-01  1.724273e+00 -1.182355e-01  5.231842e-01
## [12269,]  6.162907e-01  9.231335e-01 -2.631841e-01  8.947872e-01
## [12270,] -8.394681e-01 -2.807506e-01  1.677618e-01  2.217066e+00
## [12271,]  9.304692e-01  4.318564e-01 -1.194597e-01  1.386285e+00
## [12272,] -8.788309e-01  8.214858e-01  1.533317e+00  1.348123e-01
## [12273,]  1.299771e+00  3.495905e+00 -1.434571e+00  1.182274e+00
## [12274,]  5.464272e-02 -2.458942e-01  8.770118e-01  1.292812e+00
## [12275,] -3.503942e+00 -8.036101e-01 -4.172720e-01  6.824954e-01
## [12276,] -2.355350e+00 -1.547868e-01  1.254149e+00  2.762242e+00
## [12277,]  1.218875e+00  1.156301e+00  1.041915e+00  7.595254e-01
## [12278,] -6.931219e-01  1.761633e+00 -5.483651e-01  7.810377e-01
## [12279,] -5.180336e-01  3.301347e-01 -1.819639e+00  1.426312e+00
## [12280,] -8.981697e-01 -1.677217e+00 -1.541621e+00  6.479329e-01
## [12281,] -8.631269e-01  1.970822e-01 -1.945835e-01  4.366102e-01
## [12282,]  8.764085e-01  1.840932e+00  1.064741e+00  1.732431e+00
## [12283,]  3.288980e-01  5.291303e-01  7.621223e-01  2.345135e+00
## [12284,]  5.186800e-01 -1.933354e-01  1.075362e+00  9.038469e-01
## [12285,]  1.193648e+00  2.718628e-01 -1.565756e+00  3.570423e-01
## [12286,] -5.131446e-01 -4.980609e-01  1.616959e+00  7.113662e-02
## [12287,] -1.018844e+00  1.054116e+00  1.236485e+00  4.148657e-01
## [12288,] -9.858889e-02 -8.227086e-01  2.700417e-01  2.284909e+00
## [12289,]  8.212975e-02  3.362175e-02 -1.478379e+00  2.831941e+00
## [12290,]  5.483865e-01 -6.270976e-01 -1.600482e+00  4.996437e-01
## [12291,]  4.220963e-01 -7.956755e-01 -1.030652e+00  5.215873e-01
## [12292,]  8.180210e-01  1.960470e-01  3.422241e-01  1.208094e+00
## [12293,]  1.407313e+00  9.598596e-01 -3.115282e-01  9.925498e-01
## [12294,] -4.334049e-01  7.811310e-01 -1.452447e+00  2.019760e-01
## [12295,]  1.277090e+00  9.330426e-02  8.504344e-01  2.584141e+00
## [12296,] -1.272482e+00 -1.177727e+00  9.925307e-01  3.211456e+00
## [12297,] -5.888904e-01 -2.211092e-01  9.498417e-01  3.257912e+00
## [12298,]  1.011647e+00  1.925167e+00 -1.527463e-01  2.213396e-01
## [12299,] -4.569422e-01  1.346451e+00  8.254727e-01  2.312699e+00
## [12300,] -9.637392e-02  6.556647e-03  1.080711e+00  2.970286e+00
## [12301,]  3.427645e-01  1.275308e+00 -6.672063e-01  2.095840e+00
## [12302,] -6.027623e-01  4.262538e-01 -1.185123e+00  1.245671e+00
## [12303,] -2.927785e-01  5.511597e-01  8.486277e-01  2.138668e-01
## [12304,] -2.234653e+00  4.148099e-01 -1.649088e+00  2.778179e+00
## [12305,] -5.958628e-01 -6.158883e-01 -2.981131e-01  2.995920e+00
## [12306,]  9.447668e-02 -5.822840e-01  9.648051e-01  1.142536e+00
## [12307,] -1.120650e+00  2.437251e+00  1.200263e+00  3.273598e-01
## [12308,] -1.238516e-01  1.375926e+00  1.063937e+00  2.704421e+00
## [12309,] -9.177161e-01  5.384522e-01  1.359589e+00  3.206890e-01
## [12310,] -4.818618e-01 -1.303401e-01  1.001889e+00  1.255531e+00
## [12311,] -3.251285e-01  8.347849e-01 -3.031185e-01  4.324936e-01
## [12312,]  3.006821e-01  1.872538e+00 -8.861949e-02  2.034567e+00
## [12313,]  1.183815e+00  3.057595e-01  1.143915e+00  7.058697e-01
## [12314,]  7.306948e-01  1.927705e-01 -1.522466e-01  8.528525e-01
## [12315,]  1.297816e+00  3.150226e-01 -1.669257e+00  2.750186e+00
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## [12317,] -3.739670e-01  8.335206e-01  9.207171e-01  3.024896e+00
## [12318,]  1.113212e-02  2.962579e-01 -1.293689e-01  3.223872e+00
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## [12320,] -2.439491e-01 -1.234643e+00  1.368974e+00  2.488864e+00
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## [12327,] -1.464875e+00 -1.244451e+00 -2.797940e-01  3.137431e+00
## [12328,] -8.072735e-01 -1.216893e-01 -6.186453e-01  1.426169e+00
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## [12330,]  9.462779e-01  1.304401e+00  1.330135e+00  2.453808e-01
## [12331,] -1.038017e-01  2.585741e+00 -5.690913e-01  6.402350e-01
## [12332,] -6.191953e-01  1.154069e+00 -5.607682e-01  2.914727e+00
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## [12333,] -4.835039e-01 -8.141888e-01 -2.076288e+00  1.366964e+00
## [12334,] -1.342531e-01  1.158106e-02  1.230180e+00  5.546520e-01
## [12335,]  7.259368e-01 -8.121841e-02 -1.703636e+00  9.043442e-01
## [12336,]  1.619576e-01 -3.404729e-02 -2.033658e+00  1.518523e+00
## [12337,]  5.163406e-01 -4.964179e-01 -1.205711e+00  5.297125e-01
## [12338,] -7.804509e-01 -8.676146e-01 -4.705087e-01  1.100385e+00
## [12339,] -2.478906e-01 -1.088399e+00 -1.490118e+00  3.777262e-01
## [12340,] -2.035908e-02  1.443875e+00  1.111041e+00  6.736897e-01
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## [12342,] -9.050878e-01 -5.930324e-01  6.724000e-01  1.684953e-01
## [12343,]  1.075003e-01 -1.068797e+00 -1.502361e+00  7.154028e-01
## [12344,] -1.115034e+00  2.206424e+00  2.467481e-01  2.527589e-01
## [12345,] -8.243504e-01 -1.399642e+00  1.579265e+00  2.314920e+00
## [12346,] -9.633217e-01 -4.526056e-01 -1.862957e+00  9.804476e-01
## [12347,]  2.647159e-01  6.364640e-01 -9.514057e-01  2.209253e+00
## [12348,]  1.279375e+00  2.846712e-01 -3.157226e-02  1.012230e+00
## [12349,] -1.598689e-01 -9.097490e-01  1.400551e+00  4.654463e-01
## [12350,]  3.391060e-01 -4.160487e-01 -1.992407e-01  1.698576e-01
## [12351,]  1.117210e+00 -2.083400e-01  1.414592e+00  3.299411e-01
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## [12353,]  9.447871e-01 -8.721120e-02 -1.771987e+00  1.338164e+00
## [12354,] -8.205544e-01 -7.241251e-01  1.526712e+00  2.216198e+00
## [12355,] -5.659260e-01  4.029584e-01  4.679527e-01  2.901370e+00
## [12356,] -9.074659e-01  1.249633e+00 -4.566945e-01  1.066087e+00
## [12357,] -1.167901e-01 -1.144274e-02  1.058968e+00  9.085793e-01
## [12358,] -2.966353e-01 -1.439751e+00  1.513154e+00  2.919292e-01
## [12359,] -2.637422e-01  3.586905e-02  1.234155e+00  7.348956e-01
## [12360,] -1.570887e+00  8.687235e-01  9.755443e-01  8.531440e-02
## [12361,]  1.277099e+00  4.566274e-01  1.115660e+00  2.651894e+00
## [12362,] -1.979755e-01 -8.425193e-01 -9.160562e-01  2.589177e+00
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## [12364,]  1.316289e-01  7.131424e-02 -3.459976e-01  1.164446e+00
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## [12366,]  1.965122e-01  6.896116e-01  6.478872e-01  1.546587e+00
## [12367,]  8.629206e-02  3.101151e-02  6.078054e-02  1.151760e+00
## [12368,]  6.733176e-01 -8.741441e-02  3.069509e-01  2.722677e+00
## [12369,] -8.772358e-01  1.750237e+00 -3.946846e-01  5.374920e-01
## [12370,]  8.143041e-02 -4.094085e-01  9.907840e-01  1.120273e+00
## [12371,] -7.286179e-03 -6.400765e-02  1.048797e+00  2.978171e+00
## [12372,]  8.988032e-01  5.239295e-01  6.644183e-01  3.111738e+00
## [12373,] -8.386793e-02  4.118662e-01 -2.945580e-01  8.213746e-01
## [12374,] -1.122024e+00  2.196333e+00  1.035326e-01  4.773185e-02
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## [12382,] -2.629729e-01  2.610606e+00  1.098757e+00  2.072062e+00
## [12383,]  8.185224e-01  1.504227e-01  9.015059e-01  1.298985e+00
## [12384,] -1.833408e-02 -4.408989e-01 -1.785452e+00  8.064444e-01
## [12385,]  1.810928e-02 -7.818189e-01  1.364323e+00  2.430814e+00
## [12386,] -9.204949e-01 -2.828788e-01  1.359262e+00  4.685718e-01
## [12387,] -4.474602e-01 -6.841945e-01 -1.413362e+00  1.483732e+00
## [12388,] -1.606280e+00  9.353865e-01  1.475387e+00  4.685210e-02
## [12389,]  7.114317e-01 -5.132514e-01 -1.286963e+00  2.532270e+00
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## [12391,]  1.133602e-01  3.686475e-01 -2.073654e+00  1.225319e+00
## [12392,] -4.721895e-01 -1.127358e+00 -3.502109e-01  1.192726e+00
## [12393,]  5.429405e-01  4.880851e-01 -9.348971e-01  1.020449e+00
## [12394,] -1.272306e+00  2.150371e-01  1.130515e+00  9.464733e-01
## [12395,] -1.562181e+00  5.153793e-01  1.324369e+00  5.032543e-01
## [12396,] -1.653732e+00  1.166512e+00  5.866266e-01  2.214326e+00
## [12397,] -2.492759e-01  1.024526e+00  1.171357e+00  5.401448e-01
## [12398,] -2.248929e+00  9.219845e-01 -1.750170e+00  9.679520e-01
## [12399,]  1.140152e+00 -7.234108e-01  1.676461e+00  1.849820e+00
## [12400,]  6.063300e-01  7.935226e-01 -1.104648e+00  6.362366e-01
## [12401,] -1.451054e+00 -6.185817e-01  5.412472e-01  1.002778e+00
## [12402,] -1.498832e+00  2.777125e-01  1.263909e+00  6.319229e-01
## [12403,] -7.339647e-03 -9.612247e-01 -1.571998e-01  8.244044e-01
## [12404,] -2.863690e+00  9.635977e-01 -2.241015e-01  1.225488e+00
## [12405,] -7.612501e-01 -1.707512e-01  2.681529e-01  7.974398e-01
## [12406,]  1.306228e+00  1.330095e-01 -1.464914e-01  2.530134e+00
## [12407,] -2.062196e-02 -9.326845e-01  1.282968e+00  2.633377e+00
## [12408,]  1.186855e+00  3.016869e-01 -4.130018e-01  8.174569e-01
## [12409,]  6.333421e-01 -5.795851e-01  1.169006e-01  7.534708e-01
## [12410,] -1.201607e+00  4.104433e-01 -1.329416e+00  9.017725e-01
## [12411,]  3.095435e-01  1.644798e-03  7.704493e-01  1.415069e+00
## [12412,]  2.324055e-03 -1.163278e+00  1.285890e+00  2.660815e+00
## [12413,] -1.481469e+00  5.117955e-01 -1.411366e+00  6.668727e-01
## [12414,]  9.547269e-01  2.297581e+00  7.427740e-01  1.965326e+00
## [12415,] -1.065780e+00 -1.396568e+00 -1.356737e+00  2.127838e+00
## [12416,] -2.337922e-01 -9.472987e-01  1.284613e+00  7.049457e-01
## [12417,]  6.691723e-01  1.599459e+00  2.413065e-03  8.466307e-01
## [12418,]  1.002613e-01 -2.450681e-01  1.491241e-01  7.998913e-01
## [12419,] -6.130449e-01  1.202214e+00  3.028404e-01  2.461629e+00
## [12420,] -1.757404e+00 -3.375841e-01  1.466823e+00  4.402401e-01
## [12421,]  6.901660e-01  1.164263e+00  8.825610e-01  1.038746e+00
## [12422,]  1.122164e+00 -3.842575e-01  3.402568e-02  3.273034e-01
## [12423,] -1.699261e+00  1.644060e+00 -3.712495e-02  2.163150e+00
## [12424,] -1.141028e+00  8.006288e-01 -1.505247e+00  1.110906e+00
## [12425,] -1.195585e+00 -6.263423e-01  1.664419e-01  4.172989e-01
## [12426,] -9.954817e-01  7.417317e-01 -1.926627e+00  2.880267e+00
## [12427,] -5.760763e-01 -5.421701e-01 -1.700009e+00  2.753315e+00
## [12428,]  1.982954e-02  7.822063e-01  8.139119e-01  1.320875e+00
## [12429,]  9.284350e-01  1.759620e+00  1.051497e+00  4.518219e-01
## [12430,]  1.299100e+00 -8.819484e-02 -1.861438e+00  8.693834e-01
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## [12432,] -1.043203e+00  1.425995e+00  4.585582e-01  1.570240e-01
## [12433,]  1.162263e+00  1.757876e-01  1.277781e-01  6.070473e-01
## [12434,] -1.162547e-01 -4.935927e-01  6.652810e-01  1.051861e+00
## [12435,] -8.279913e-01  2.410092e-01 -4.157722e-01  3.262037e+00
## [12436,]  6.705868e-01 -4.561218e-01 -1.568789e+00  7.209761e-01
## [12437,]  4.471294e-01  2.524301e+00  2.197824e-01  5.552337e-01
## [12438,]  8.786247e-01  5.711017e-02 -4.953237e-01  1.429786e+00
## [12439,]  9.964507e-02  5.527730e-01 -1.830978e+00  1.106126e+00
## [12440,] -6.831801e-01  1.048369e+00  2.577845e-01  4.067437e-01
## [12441,] -7.973972e-01  6.266079e-01 -1.143324e+00  2.119575e+00
## [12442,] -6.388700e-01 -2.469803e-01 -9.988451e-01  1.060542e+00
## [12443,] -2.409121e-01  7.063583e-01 -5.542109e-01  8.505111e-01
## [12444,] -1.090812e+00 -1.064013e+00 -1.254576e+00  6.063579e-01
## [12445,] -5.140260e-01 -5.199471e-01 -1.571493e+00  2.899206e+00
## [12446,] -8.344161e-01 -7.242790e-01  6.391457e-01  3.145672e+00
## [12447,] -4.744008e-01  9.892420e-01 -1.541417e+00  1.770347e+00
## [12448,]  1.209183e+00  2.943544e-01  2.058821e-01  7.478070e-01
## [12449,] -9.449378e-03 -4.714581e-01 -1.201593e+00  3.087220e+00
## [12450,] -1.349753e+00 -1.225618e+00  1.095334e+00  3.019858e+00
## [12451,]  4.681943e-01  1.408153e-01 -7.033501e-02  2.353791e+00
## [12452,] -1.791138e+00  1.023653e+00  9.558109e-02  3.655941e-02
## [12453,] -4.484328e-01  6.325949e-01  3.135243e-01  2.807827e+00
## [12454,]  7.651389e-01 -8.147896e-01  1.177728e+00  2.706135e+00
## [12455,] -1.810393e-01  4.436305e+00 -2.763803e-02  1.082004e+00
## [12456,] -1.496470e-01  1.522293e-01 -2.909507e-01  7.913864e-01
## [12457,]  3.931670e-02  4.125642e-01 -4.478254e-01  1.291161e+00
## [12458,]  1.834099e-01 -2.997170e-01  1.022328e+00  1.056681e+00
## [12459,] -1.165945e+00  2.130258e+00 -6.987613e-02  1.776142e-01
## [12460,]  4.852476e-01 -5.874698e-01 -1.691043e+00  6.908693e-01
## [12461,] -1.985815e-01 -7.658505e-02  9.161103e-01  4.850130e-01
## [12462,]  1.897363e-01  1.666192e+00 -1.309075e+00 -1.628042e-01
## [12463,] -6.213792e-01  1.057458e+00 -6.605948e-01  1.084127e+00
## [12464,] -2.810091e-01  1.255757e+00  1.136720e+00  5.065724e-01
## [12465,]  4.782892e-01 -1.005272e-01 -2.824616e-01  7.694621e-01
## [12466,]  1.029205e+00 -3.428492e-01  1.071338e-01  1.804324e-01
## [12467,] -4.897019e-01  1.196245e+00  8.826748e-01  1.155950e+00
## [12468,] -1.116672e+00 -1.477087e+00 -5.081001e-02  2.361049e+00
## [12469,] -1.119847e-01 -1.397795e+00  1.433971e+00  5.126333e-01
## [12470,]  2.304478e-01 -8.370506e-01  1.015669e+00  1.112680e+00
## [12471,]  7.936587e-01  6.169604e-02 -1.774363e+00  2.927079e+00
## [12472,]  5.928556e-01  2.300567e-01  4.637559e-01  6.575664e-01
## [12473,]  1.057583e-01 -3.238942e-01 -2.957075e-01  8.265347e-01
## [12474,] -7.666766e-01  9.048123e-01  2.581439e-01  1.646790e-01
## [12475,] -2.099462e+00  1.177268e+00 -1.610322e+00  1.539555e+00
## [12476,]  6.438385e-01 -7.740674e-01  1.311674e+00  2.511042e+00
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## [12478,] -3.488806e-01 -1.406902e-02  1.487166e+00  1.279256e-01
## [12479,] -1.428402e+00  5.588320e-01  1.172320e+00  6.494727e-01
## [12480,]  2.034600e-01 -6.519976e-01 -9.442793e-01  2.861922e+00
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## [12482,]  1.036495e-03 -8.768386e-01  1.080590e+00  2.683797e+00
## [12483,] -1.783661e+00  1.647344e+00  4.118120e-01  2.161036e+00
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## [12488,]  5.295879e-01  2.029158e-01  7.606700e-03  9.251274e-01
## [12489,]  4.307359e-01 -1.196547e+00  1.598875e+00  1.936904e-01
## [12490,]  1.231693e+00  2.508636e-01 -5.852551e-01  2.749511e+00
## [12491,] -2.119804e+00  4.604908e-01 -1.265579e+00  1.220407e+00
## [12492,] -8.608796e-01  6.661726e-01  1.256882e+00  5.169992e-01
## [12493,] -1.714075e+00  1.231905e+00 -1.578994e+00  2.039850e+00
## [12494,] -1.415673e-01 -2.424182e-01  1.360606e+00  4.761422e-01
## [12495,] -3.466959e-01 -1.104556e+00  2.847506e-01  2.192530e+00
## [12496,] -1.406837e-01 -7.458482e-01  1.496000e+00  2.248252e+00
## [12497,] -1.512011e+00  8.698261e-01 -6.796652e-02  2.486452e+00
## [12498,]  1.151630e+00 -1.468306e-01  1.182955e+00  7.069766e-01
## [12499,]  4.759305e-02  7.141700e-01 -3.921426e-01  8.210383e-01
## [12500,] -2.157070e-01 -5.700125e-01 -1.835224e-01  7.989190e-01
## [12501,]  1.227539e+00  3.047140e-01 -1.839840e+00  7.494178e-01
## [12502,] -6.942319e-01  6.325420e-01 -2.619556e-01  5.090130e-01
## [12503,]  1.392301e+00  8.013746e-02  1.141241e+00  8.736187e-01
## [12504,]  3.757068e-02 -1.119058e+00  6.326397e-01  5.780946e-01
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## [12506,]  7.128734e-01  7.675874e-01  1.009124e+00  1.010348e+00
## [12507,]  1.423810e+00 -4.567616e-01  1.159033e+00  2.744805e+00
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## [12510,]  5.651197e-01  4.640624e-01  1.193982e+00  8.080735e-01
## [12511,]  6.066101e-01 -3.229066e-01 -4.521629e-01  2.558420e+00
## [12512,]  2.533256e-01  1.779764e+00  1.241938e+00  1.851819e-01
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## [12516,] -5.490850e-01  1.284431e+00 -6.184422e-01  9.668808e-01
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## [12518,]  1.046505e+00  3.087227e+00  1.182912e+00  5.106887e-01
## [12519,]  7.218298e-01  4.984233e-01 -7.609368e-01  1.199510e+00
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## [12521,] -1.531305e+00  2.614739e+00  1.187261e-01  2.416280e+00
## [12522,] -1.429822e+00 -6.819585e-03 -1.021424e+00  3.143905e-01
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## [12525,] -8.884885e-01  1.790298e+00  5.472972e-01  5.240309e-01
## [12526,]  5.473690e-02  1.247585e+00 -4.372352e-01  1.117074e+00
## [12527,] -9.418882e-02  1.387173e+00  1.209504e+00  2.431708e+00
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##  [12531,] -1.515241e-01 -1.041721e+00 -1.201870e+00  2.458432e+00
##  [12532,] -8.604954e-01 -5.291250e-01  1.122008e+00  9.598961e-01
##  [12533,]  6.283536e-01 -5.176473e-01 -2.195233e-01  8.733276e-01
##  [12534,]  5.677899e-02  6.579131e-01 -1.972097e+00  1.011638e+00
##  [12535,] -4.113852e-01  9.877410e-01  6.422382e-01  5.191284e-01
##  [12536,]  1.092804e+00 -2.937541e-01 -1.549736e+00  2.304399e+00
##  [12537,] -1.305908e-01 -6.886715e-01 -1.300211e+00  2.559678e+00
##  [12538,] -1.062296e-01 -1.547684e-01  1.140195e+00  8.905142e-01
##  [12539,] -1.470309e-01  3.131358e+00  2.491950e-01  2.376925e+00
##  [12540,] -2.433622e+00  1.544306e+00 -2.823526e-01  2.799461e+00
##  [12541,] -9.438158e-02 -1.025808e+00 -3.077947e-01  2.607843e+00
##  [12542,]  2.164802e-01  8.561981e-01 -1.807206e+00  1.416934e+00
##  [12543,] -6.763000e-01 -1.429885e-01  1.037503e+00  1.032956e+00
##  [12544,]  1.043011e+00  9.022877e-01  1.274230e+00  3.135369e-01
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##  [12547,]  1.253206e+00 -4.830153e-01 -1.322244e+00  5.831275e-01
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##  [12549,]  1.344241e+00  9.230282e-01 -2.009020e-02  9.584828e-01
##  [12550,]  6.931850e-01 -1.106573e+00 -1.094775e-01  7.443740e-01
##  [12551,]  1.390425e+00  2.717492e-02 -4.171444e-01  1.155986e+00
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##  [12554,] -1.073112e+00 -2.874372e-01  3.246665e-01 -1.658019e-01
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##  [12557,] -1.505357e+00 -7.761171e-03  1.236237e+00  2.635937e+00
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##  [12560,] -1.254243e+00  1.129950e+00  1.633849e+00 -1.822644e-01
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##  [12577,] -6.166466e-01 -9.365598e-01 -9.992230e-01  8.137328e-01
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##  [12587,]  6.756106e-02  7.871091e-02 -1.270488e-01  7.753832e-01
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##  [12591,]  8.444437e-02 -5.512186e-01  4.049210e-01  2.819143e+00
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##  [12593,] -2.332543e-01  3.727509e-01 -9.227291e-03  4.547291e-01
##  [12594,]  1.184502e-01  2.232004e+00 -5.280036e-01  1.345605e+00
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##  [12608,] -1.657989e+00  3.276478e+00 -1.772807e+00  2.539823e+00
##  [12609,]  7.612534e-01 -6.803851e-01  7.547623e-01  9.554663e-01
##  [12610,] -2.042008e-01  2.189894e-01  1.128913e+00  7.287003e-01
##  [12611,]  1.404176e+00 -9.212919e-03 -1.952893e-01  6.854786e-01
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##  [12617,]  6.205116e-01  1.324515e+00 -5.565111e-01  8.129335e-01
##  [12618,] -1.568896e+00 -9.479819e-01  1.021152e+00  1.127417e+00
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##  [12620,] -5.269628e-01  2.941247e-01  9.123790e-01  3.430259e+00
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##  [12622,]  7.403049e-01  7.300923e-01 -1.970904e+00  2.872173e+00
##  [12623,]  7.493746e-01  3.125781e-01  9.854781e-01  1.057525e+00
##  [12624,]  5.275173e-01 -8.980072e-01 -1.513423e-01  8.166231e-01
##  [12625,]  6.324651e-01  6.746923e-01  1.110575e+00  8.097896e-01
##  [12626,]  5.396445e-01 -9.740468e-01  5.458455e-02  2.423876e+00
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##  [12627,]  9.381054e-02 -6.473706e-01 -1.107586e+00  9.557298e-01
##  [12628,] -4.287010e-01  1.766144e-01 -2.131232e+00  1.633052e+00
##  [12629,] -1.517345e+00  3.366169e-01 -8.853310e-01  3.600273e-01
##  [12630,]  6.291680e-01 -5.980140e-01 -7.048210e-01  8.376356e-01
##  [12631,]  4.440798e-01 -2.920105e-01 -1.672580e+00  2.479060e+00
##  [12632,]  1.273503e-01 -1.913378e-01 -4.003783e-01  1.230522e+00
##  [12633,] -1.947818e-01 -4.079683e-02 -1.403481e+00  2.120860e+00
##  [12634,] -1.344991e-01 -4.540672e-01 -1.938328e-01  9.167908e-01
##  [12635,] -6.471096e-01  9.985245e-01  8.301828e-01  1.284950e+00
##  [12636,] -1.050007e+00  5.461836e-01  7.911036e-01  1.353440e+00
##  [12637,] -8.281482e-01 -1.446198e-01 -3.647980e-01  1.035023e+00
##  [12638,]  7.933270e-01  3.067249e-01  8.346629e-01  3.226102e+00
##  [12639,] -2.072133e-01 -1.072975e+00  5.901472e-01  2.336366e+00
##  [12640,]  1.335201e+00  9.825870e-02  9.691961e-01  3.015278e+00
##  [12641,]  1.380008e+00 -1.879679e-01  1.005137e+00  9.922079e-01
##  [12642,]  6.846252e-01 -8.098827e-02 -1.646022e+00  8.028517e-01
##  [12643,]  1.199396e+00 -3.744131e-01 -7.952221e-01  2.289029e+00
##  [12644,]  6.586509e-01  7.257116e-01 -3.928838e-01  1.016599e+00
##  [12645,]  5.590902e-01  7.077496e-01  1.216109e+00  2.853619e+00
##  [12646,]  1.094892e+00  5.114339e-01 -2.602084e-01  6.112866e-01
##  [12647,]  3.949579e-02 -3.030658e-01  1.169544e+00  7.215662e-01
##  [12648,]  7.630839e-01  6.075203e-01 -5.932373e-01  1.054502e+00
##  [12649,]  5.197663e-01 -3.829218e-01 -1.162342e+00  5.966659e-01
##  [12650,]  1.373644e+00  2.947850e-01  1.556358e-01  9.764509e-01
##  [12651,] -9.777937e-01  1.944792e-01 -8.340664e-01  3.396409e-01
##  [12652,]  1.208904e+00 -8.230050e-01  1.175639e+00  4.824668e-01
##  [12653,]  6.405520e-01  7.472509e-01  6.338131e-01  9.513551e-01
##  [12654,] -1.396305e+00  1.390209e+00  1.796341e-01  7.848574e-01
##  [12655,]  1.188503e+00  6.301142e-01  1.217412e+00  2.454410e+00
##  [12656,] -1.229216e+00  1.891895e+00 -1.170430e+00  1.564780e+00
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##  [12658,] -2.553324e+00 -9.672631e-01  2.052086e-01  2.197826e+00
##  [12659,] -5.946950e-01 -1.084838e-01 -1.187081e+00  1.397048e+00
##  [12660,] -9.180174e-02 -3.478354e-01  1.024441e+00  2.973338e+00
##  [12661,]  7.354161e-01  2.381035e-01 -1.584559e-01  8.676057e-01
##  [12662,]  1.356807e-01 -2.204221e-01 -1.612902e+00  1.111804e+00
##  [12663,]  5.472404e-02  5.311679e-01 -5.795305e-01  1.322256e+00
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##  [12666,] -9.661402e-01  1.430507e+00  2.771884e-01 -2.298594e-02
##  [12667,]  2.414540e-02  9.480541e-01 -5.932269e-01  7.048054e-01
##  [12668,] -5.418984e-01 -4.929397e-01 -1.488755e+00  2.884490e+00
##  [12669,]  5.795605e-01  3.939289e-01  6.277279e-01  6.529851e-01
##  [12670,]  3.543644e-01 -5.116690e-01 -1.160060e+00  1.265914e-01
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##  [12674,]  4.277102e-01  1.674974e+00  4.247039e-02  2.224345e+00
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##  [12676,] -7.501440e-01  2.595814e-02 -2.645765e-01  1.059435e+00
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##  [12678,]  4.138667e-01 -5.215501e-01  1.200432e-01  2.392564e+00
##  [12679,] -9.337241e-01 -1.469415e+00  4.742883e-01  6.387214e-01
##  [12680,]  1.287895e+00  5.088557e-01  2.517643e-01  9.693842e-01
##  [12681,]  4.759392e-01 -1.940469e-01  1.077588e-01  2.161009e+00
##  [12682,] -1.367482e+00  1.135616e+00 -3.689060e-01  1.228122e+00
##  [12683,]  5.208029e-01  1.141264e-01  1.868572e-01  2.411977e+00
##  [12684,] -1.423829e+00  2.285689e-01  8.120830e-01  3.856999e-01
##  [12685,]  1.360342e+00 -1.765151e-01 -6.238762e-01  1.033302e+00
##  [12686,]  1.412617e+00  4.122506e-01  9.984784e-01  1.102206e+00
##  [12687,] -3.070214e-03 -2.937018e-01 -1.994075e+00  3.121657e+00
##  [12688,] -1.107014e+00  8.489417e-01  1.806061e-01  5.013041e-01
##  [12689,] -5.331033e-01 -8.215763e-01 -2.858463e-01  1.259166e+00
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##  [12703,] -2.382157e+00  3.429153e-01  6.043443e-01  8.315429e-01
##  [12704,] -1.025464e+00 -1.294323e+00 -1.133911e+00  2.030144e+00
##  [12705,] -3.183099e-02  1.438845e+00 -1.670686e+00  2.479453e+00
##  [12706,] -9.594723e-01 -1.053445e+00  1.361974e-01  2.456584e+00
##  [12707,] -1.449371e+00 -1.153334e-01 -1.762733e+00  1.771497e+00
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##  [12710,]  5.661379e-01  6.599107e-01  8.831191e-01  1.126447e+00
##  [12711,] -9.562180e-01 -1.297627e+00  6.922009e-01  5.977008e-01
##  [12712,]  7.293950e-01 -3.191041e-01 -5.952189e-01  1.097099e+00
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##  [12714,] -1.422328e-01 -6.913942e-01  1.341633e+00  4.489604e-01
##  [12715,]  3.289295e-01  1.341093e-01  1.100338e+00  4.781263e-01
##  [12716,] -1.315314e+00  1.151214e+00 -1.802117e+00  9.364632e-01
##  [12717,]  9.317249e-01 -2.017239e-01  8.476687e-01  3.194128e+00
##  [12718,] -1.749428e-01  2.004739e+00 -3.321139e-01  2.744503e+00
##  [12719,] -1.355898e+00  4.903710e-01 -6.629993e-01  1.172886e+00
##  [12720,]  9.686105e-01  1.190133e+00  1.451882e+00  1.117089e-02
##  [12721,] -3.462759e-02 -5.302993e-01  1.058278e+00  7.922268e-01
##  [12722,]  1.034057e+00 -4.144722e-01  1.392259e+00  3.828043e-01
##  [12723,]  1.410937e+00  6.070619e-01 -7.392385e-01  1.230083e+00
##  [12724,]  3.316994e-01  5.490388e-01  6.827421e-01  1.529071e+00
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##  [12727,] -3.062620e-01  2.552382e+00 -9.816843e-02 -1.013193e-02
##  [12728,]  9.284245e-04 -7.927714e-01  1.297859e+00  2.593044e+00
##  [12729,]  4.929399e-01  5.898697e-01  1.176243e+00  6.813289e-01
##  [12730,] -1.552229e+00  9.696874e-01 -1.678980e+00  1.087527e+00
##  [12731,] -3.918734e-01 -3.578246e-01  8.178065e-01  1.480703e+00
##  [12732,] -6.330087e-01  4.018312e-01 -1.923198e-01  7.095785e-01
##  [12733,]  6.628393e-01 -6.736922e-01  1.205675e+00  7.385732e-01
##  [12734,] -1.513781e-01 -1.006012e+00 -2.366929e-01  6.718598e-01
##  [12735,] -9.065727e-01  3.870592e-01  7.195265e-01  5.671594e-01
##  [12736,]  7.861454e-02 -1.819193e-01  4.306121e-01  1.299523e+00
##  [12737,]  9.187676e-01  2.115586e+00 -1.445791e-01  1.706263e-01
##  [12738,] -2.241040e+00  2.299075e+00 -3.716227e-01  3.005067e+00
##  [12739,] -8.161084e-01 -1.321067e+00  1.350508e+00  7.362665e-01
##  [12740,] -6.824570e-01  1.842735e+00 -4.923151e-01  2.883287e+00
##  [12741,]  6.984419e-01 -2.364734e-01 -1.561032e+00  1.031520e+00
##  [12742,]  5.534436e-01 -5.327900e-01  1.205697e+00  7.087774e-01
##  [12743,] -2.477473e-01  7.926187e-01  7.385304e-01  1.284082e-01
##  [12744,]  5.988844e-01 -2.238752e-01 -3.900573e-01  2.440952e+00
##  [12745,]  3.867804e-01  1.024781e-01  1.515154e+00  1.429432e-01
##  [12746,]  3.774955e-01 -6.057933e-01  1.554217e+00  2.089299e+00
##  [12747,]  7.203836e-01  5.000323e-01 -1.595647e+00  1.400606e+00
##  [12748,]  3.231934e-01  1.360599e+00 -5.125943e-02  1.744069e-01
##  [12749,] -2.357623e+00  1.423426e+00 -1.736247e+00  7.854469e-01
##  [12750,]  5.268725e-01  6.365731e-01 -1.845091e-01  9.513411e-01
##  [12751,] -5.535445e-01 -1.131334e+00 -3.472410e-01  1.204807e+00
##  [12752,]  4.730737e-01  6.712436e-02 -6.674856e-01  7.587066e-01
##  [12753,] -1.650962e+00 -7.993690e-03  1.485260e-01  7.631404e-01
##  [12754,]  9.917050e-01  2.173506e+00  1.218680e+00  3.241010e-01
##  [12755,]  5.916332e-01  5.699009e-01 -1.846705e+00  7.577745e-01
##  [12756,] -1.120654e-01 -9.882080e-01 -1.212695e-02  2.593303e+00
##  [12757,] -1.495780e-01 -9.861058e-01  1.431002e+00  3.818312e-01
##  [12758,] -8.175256e-01 -1.157566e+00 -1.426065e+00  2.551745e+00
##  [12759,]  4.230166e-01  7.270920e-01  7.116253e-01  3.565882e+00
##  [12760,] -2.140773e-01  4.220348e-01  6.221664e-02  3.530974e-01
##  [12761,] -7.368306e-01  9.351099e-01  1.231158e+00  5.284555e-01
##  [12762,] -1.392611e+00  1.446922e+00  4.384073e-01  2.453474e+00
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##  [12764,]  6.986956e-01  9.894894e-01 -1.340587e+00  1.371163e+00
##  [12765,] -1.033763e+00 -1.698440e+00  1.384091e-01  3.953608e-01
##  [12766,]  5.230684e-01 -2.392366e-02 -3.033986e-01  9.244764e-01
##  [12767,] -2.106075e+00  7.476696e-01 -2.301996e-02  3.170544e+00
##  [12768,]  5.038138e-01  2.196538e+00 -4.055675e-01  5.802871e-01
##  [12769,] -9.875029e-01 -7.268797e-01 -8.499511e-01  1.805726e+00
##  [12770,] -1.418034e+00  1.030996e-01  1.304610e+00  5.905025e-01
##  [12771,] -6.655256e-01  6.064881e-01  3.225710e-01  2.241071e+00
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##  [12774,] -7.183736e-01 -1.503077e+00  8.681732e-03  5.011572e-01
##  [12775,] -4.516609e-01 -7.523472e-02  9.379324e-01  1.341386e+00
##  [12776,]  1.227351e+00 -1.517364e-01 -1.026168e+00  6.995518e-01
##  [12777,] -3.889949e-02 -4.281619e-01 -2.114502e-01  4.375229e-01
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##  [12785,]  6.642407e-01  3.681322e+00  1.200825e-01  1.043912e+00
##  [12786,]  1.240127e+00 -6.127392e-02 -2.749112e-01  9.148138e-01
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##  [12794,]  8.603908e-01  4.667709e-01 -7.241116e-01  3.136005e+00
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##  [12797,]  7.505977e-01 -2.317917e-01  1.057693e+00  9.951893e-01
##  [12798,]  8.826286e-01  3.532506e-01 -2.067446e-01  3.036930e+00
##  [12799,] -9.687636e-01  2.418706e+00 -4.390586e-01  4.213074e-01
##  [12800,]  1.208215e+00  2.824252e-01  1.058145e+00  8.931946e-01
##  [12801,] -1.798954e+00 -2.865183e-01 -5.038361e-01  2.154867e+00
##  [12802,] -7.972846e-01  2.363049e-01 -1.820475e+00  7.357647e-01
##  [12803,]  3.318705e-01  1.280274e+00  1.160445e+00  3.321682e-01
##  [12804,]  1.238190e+00 -2.219745e-01  9.098562e-01  9.004447e-01
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##  [12810,]  6.319101e-01  2.523783e-01  9.004984e-03  1.196816e+00
##  [12811,] -6.863177e-01 -6.607461e-01  6.871976e-01  1.705029e+00
##  [12812,] -7.375523e-01 -1.663644e-01 -8.642515e-01  1.579063e+00
##  [12813,] -1.219454e+00  7.768938e-01  8.878748e-01  1.176249e+00
##  [12814,]  8.757487e-01  2.237636e-01  7.400663e-01  1.473524e+00
##  [12815,]  7.365179e-03 -4.815364e-01 -1.100777e+00  2.582304e+00
##  [12816,] -7.646879e-01  7.263320e-01  1.006085e+00  2.826438e+00
##  [12817,]  6.847004e-02 -7.157938e-01 -1.451588e+00  8.870870e-01
##  [12818,] -6.637267e-01 -4.804700e-01  5.620481e-01  9.983351e-01
##  [12819,] -9.228124e-02 -1.063180e+00 -2.340811e-01  5.555955e-01
##  [12820,]  1.413694e+00  1.211754e-01  2.998721e-01  9.448393e-01
##  [12821,]  7.706783e-01  7.995205e-02 -1.828170e+00  3.077361e+00
##  [12822,] -5.383218e-01  2.226905e+00  1.426593e+00  1.823130e+00
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##  [12823,]  1.300521e+00  4.525582e-01 -2.455175e-01  1.073812e+00
##  [12824,] -1.159060e+00 -2.839389e-01  4.536012e-02  5.564347e-01
##  [12825,]  1.140880e+00  8.215092e-01 -1.779070e-01  5.257649e-01
##  [12826,] -9.667514e-01  2.424912e-01  4.899415e-01  3.843243e-01
##  [12827,] -1.723823e+00  7.418562e-01  6.668916e-01  3.367208e-01
##  [12828,]  7.373477e-01  4.420762e-01 -1.882846e+00  8.726656e-01
##  [12829,]  1.164201e+00  7.637501e-01 -1.877583e-01  7.945795e-01
##  [12830,] -6.938439e-01 -9.779591e-01  9.894373e-01  3.156172e+00
##  [12831,]  1.072843e-01 -1.039111e-01 -3.593970e-01  2.949620e+00
##  [12832,] -3.483263e-01  1.039706e+00 -1.092011e-01  4.548840e-01
##  [12833,] -3.408291e-01 -9.456405e-01 -1.314364e+00  3.842652e-01
##  [12834,]  1.701616e-01  1.013252e+00  1.058543e+00  2.802535e+00
##  [12835,]  2.056876e-01 -5.048764e-01 -1.614499e+00  9.888218e-01
##  [12836,] -2.345436e-01 -3.956000e-01  1.253182e+00  2.541549e+00
##  [12837,] -1.325440e+00  1.635628e+00 -4.058118e-01  9.997367e-01
##  [12838,] -7.463338e-01  4.379038e-01  1.349094e+00  2.374358e+00
##  [12839,] -1.384916e-01 -3.318007e-01  1.202531e+00  2.646632e+00
##  [12840,]  8.593765e-01  4.822008e-02 -1.479787e+00  1.144630e+00
##  [12841,] -3.681403e-01  1.117060e+00 -1.378785e+00  6.774173e-02
##  [12842,]  2.285078e-01 -2.987891e-01 -1.034636e+00  1.442589e+00
##  [12843,] -6.926420e-02 -7.488747e-01  7.962830e-02  8.888283e-01
##  [12844,] -6.801764e-01 -2.480799e-01 -1.408495e+00  1.402639e+00
##  [12845,]  2.023079e-01 -5.505048e-01  1.374388e+00  8.324600e-02
##  [12846,]  8.701998e-03 -5.262564e-01 -4.322873e-01  8.627292e-01
##  [12847,] -1.956363e-01 -4.472132e-01 -1.073237e+00  8.232141e-01
##  [12848,] -1.466976e+00 -1.698760e-01 -5.168962e-01  9.716791e-01
##  [12849,] -1.759764e+00 -8.771568e-01  1.518097e+00  3.785401e-01
##  [12850,]  7.109332e-01  8.549851e-01  9.769662e-01  1.111799e+00
##  [12851,]  4.474164e-01  1.174658e+00 -1.396680e+00  5.820255e-01
##  [12852,]  4.509316e-02 -1.995565e-01 -1.304159e+00  1.222386e+00
##  [12853,]  2.931487e-01  9.861717e-01  2.313613e-01  2.292323e-03
##  [12854,]  1.056519e+00  7.887716e-01 -1.392706e-02  2.212890e+00
##  [12855,] -1.010104e+00  6.954570e-01 -1.865474e+00  1.039597e+00
##  [12856,] -1.420965e+00  1.984141e+00  1.031484e+00  6.431725e-01
##  [12857,] -4.232230e-01  5.814839e-01  9.922140e-01  1.030334e+00
##  [12858,] -1.466037e-01 -5.786338e-01  1.242723e+00  7.444050e-01
##  [12859,]  6.673356e-02 -4.044108e-01  1.029840e+00  9.903502e-01
##  [12860,]  3.442329e-01  2.243198e-01 -2.046247e+00  1.465674e+00
##  [12861,] -1.256114e+00  9.768954e-01  1.027836e+00  8.959758e-01
##  [12862,] -1.356988e+00  4.080844e-01 -9.778909e-01  9.540188e-01
##  [12863,] -7.287587e-01  5.160059e-01  1.221150e-01  2.456251e-01
##  [12864,]  7.861172e-01  2.777094e-01  2.382416e-01 -1.341409e-01
##  [12865,]  8.055702e-01  4.234856e-01 -1.225802e+00  3.073698e+00
##  [12866,] -9.648335e-01 -1.128742e+00  1.173040e+00  2.806918e+00
##  [12867,]  5.016828e-01 -3.259559e-01  1.137574e+00  8.389789e-01
##  [12868,]  6.030477e-01  4.506010e-01  2.144978e-01  2.936630e+00
##  [12869,] -7.868654e-01  1.872966e+00  1.157843e+00  6.112676e-01
##  [12870,] -8.238810e-02 -9.658174e-01  1.428943e+00  2.370568e+00
##  [12871,] -1.891186e-01  1.923238e+00  1.165951e+00  3.569890e-01
##  [12872,] -1.369355e+00  4.971756e-01 -2.225086e-01  7.665836e-01
##  [12873,] -7.609209e-01 -5.755522e-01  9.725493e-01  1.204916e+00
##  [12874,] -6.266106e-02  2.007049e-01  8.548746e-01  1.275571e+00
##  [12875,] -2.378956e-01  4.309011e-01  1.387068e+00  1.524866e-01
##  [12876,]  4.301337e-01  1.704887e+00  9.713142e-01  3.431577e-01
##  [12877,]  6.313592e-01 -6.472628e-02 -1.745079e+00  6.667128e-01
##  [12878,]  7.855684e-01 -3.233302e-01 -1.910863e+00  1.009625e+00
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##  [12881,]  7.294231e-01  2.190766e-02  7.995144e-01  9.951885e-01
##  [12882,] -9.348412e-01  9.590640e-01 -2.269092e-02 -1.983455e-01
##  [12883,] -2.952753e-01 -2.832934e-01  2.180087e-02  4.175585e-01
##  [12884,] -1.067880e+00  1.962770e+00  6.538630e-02 -3.599144e-02
##  [12885,] -6.322541e-01  1.768930e+00  1.058232e+00  6.817620e-01
##  [12886,]  1.752604e-01  2.774168e-01 -1.247498e+00  1.058533e+00
##  [12887,]  4.289725e-01 -1.318392e+00  6.852622e-01  5.137467e-01
##  [12888,] -1.463647e+00  1.849692e+00  1.212290e-01  2.493161e+00
##  [12889,] -1.530838e+00  1.324919e+00  9.223935e-03  2.108212e+00
##  [12890,] -1.474148e+00  6.527291e-01  1.003573e+00  9.724659e-01
##  [12891,] -1.737603e-02  1.361581e-01 -7.378309e-01  3.167857e+00
##  [12892,] -2.136704e-01 -4.548850e-01  1.371986e+00  3.148394e-01
##  [12893,] -1.906246e+00 -6.069517e-01  1.027383e-01  3.264666e-01
##  [12894,] -6.633434e-02  1.410413e-01  1.353807e-01  2.860998e+00
##  [12895,]  1.110821e-01 -5.486493e-01 -1.896164e+00  1.004513e+00
##  [12896,] -1.659498e+00 -1.683180e+00  1.301304e+00  7.976333e-01
##  [12897,] -1.233868e+00  1.205488e+00  1.021629e+00  2.812788e+00
##  [12898,] -9.244155e-01  9.644189e-01  1.238564e+00  5.935079e-01
##  [12899,]  1.367839e+00  1.003593e-01 -5.270271e-01  9.214541e-01
##  [12900,]  1.292224e+00  1.826443e+00 -6.814065e-01  1.064470e+00
##  [12901,]  7.490197e-01 -4.133666e-01  1.933399e-01  2.887895e+00
##  [12902,]  1.341358e+00 -4.835499e-02  1.163751e+00  7.561470e-01
##  [12903,]  1.340988e+00  7.682685e+00 -2.455979e-02  1.556002e+00
##  [12904,]  5.872090e-01 -2.461761e-01  1.222634e+00  7.023969e-01
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##  [12908,] -1.051343e+00  5.059588e-02  1.087295e+00  8.978235e-01
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##  [12910,] -1.727416e-01  2.723673e-01 -3.770408e-01  5.440697e-01
##  [12911,] -5.573630e-01 -8.454693e-01 -1.884076e-01  3.029824e+00
##  [12912,] -1.398972e+00 -9.337477e-01 -1.933463e+00  1.236719e+00
##  [12913,] -6.757156e-01  4.790331e-01 -7.038538e-01  6.964980e-01
##  [12914,]  6.731557e-01 -2.759112e-01  1.079626e+00  1.007207e+00
##  [12915,] -5.316942e-01  2.616491e+00  1.423006e+00  1.865652e+00
##  [12916,] -7.828240e-01  3.132897e+00  3.579137e-01  6.344337e-01
##  [12917,] -1.649314e+00  1.181955e+00 -1.239887e+00  5.656708e-01
##  [12918,] -1.475635e+00  1.367142e+00  9.935749e-01  8.512482e-01
##  [12919,] -1.296263e-01  1.194340e+00 -1.941257e-01  5.358127e-01
##  [12920,]  4.875299e-02 -2.666134e-01 -6.699830e-01  9.632889e-01
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##  [12921,] -5.496588e-01 -3.858229e-01  2.636773e-01  1.507840e+00
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##  [12923,]  1.335364e+00  2.232785e-01  2.146800e-01  7.607232e-01
##  [12924,] -6.879028e-01 -4.160481e-01  4.449226e-01  2.257803e-01
##  [12925,]  7.256789e-01  1.683723e+00  4.981410e-02 -2.501274e-01
##  [12926,] -1.714960e-01 -5.184839e-01 -1.393078e+00  2.456850e+00
##  [12927,] -2.181989e+00  4.747593e-01 -2.681985e-01  1.098614e+00
##  [12928,] -2.837571e-01  2.103958e+00  1.070697e+00  5.857443e-01
##  [12929,] -3.951987e-01  1.013312e+00 -3.948619e-02  1.926088e+00
##  [12930,] -9.866865e-02  1.341121e+00  1.193855e+00  5.707469e-01
##  [12931,] -2.453643e+00  5.401090e-01  5.059173e-02  2.701512e-01
##  [12932,]  3.569226e-01  1.371719e-01  6.445322e-01  1.495088e+00
##  [12933,]  1.779579e-01  1.905420e-02 -5.433549e-01  1.253836e+00
##  [12934,] -2.034349e-01  2.737453e+00  1.196867e+00  3.769516e-01
##  [12935,]  7.159237e-01  3.423926e-01  3.604902e-01  1.186663e+00
##  [12936,] -3.728643e-01  5.369264e-01  2.367871e-01  1.668432e+00
##  [12937,]  1.514644e-01  9.327311e-02 -1.028008e+00  9.886146e-01
##  [12938,]  3.098317e-02 -3.587551e-01 -1.405496e+00  1.151409e+00
##  [12939,] -1.354483e+00  5.116861e-01  1.217686e+00  6.021113e-01
##  [12940,]  5.366500e-01 -9.610037e-01 -1.379561e-01  2.277568e+00
##  [12941,]  4.981210e-01  4.822855e-01  1.240714e-01  9.097950e-01
##  [12942,]  4.584669e-01 -1.230962e-01  1.911863e-01  5.039516e-01
##  [12943,]  6.722809e-01 -3.976288e-01 -1.564789e+00  7.271457e-01
##  [12944,]  7.759280e-01  2.679493e-02  9.844111e-01  1.001797e+00
##  [12945,] -1.118643e-01  5.624995e-01 -2.048119e-01  7.457231e-01
##  [12946,]  1.484984e+00  1.059937e+00  9.082956e-01  1.208669e+00
##  [12947,] -4.150945e-02  8.334754e-01  1.620296e-01  2.459291e+00
##  [12948,] -1.651951e+00 -1.445984e+00  1.703638e-01  5.821890e-01
##  [12949,]  4.547610e-01 -1.078494e+00 -1.952310e-02  2.468430e+00
##  [12950,] -1.120408e+00 -9.158311e-01  1.771108e-01  2.394858e+00
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##  [12952,]  3.031703e-01  4.755280e-01  7.455515e-01  1.445577e+00
##  [12953,]  1.171403e+00  3.894533e-01  1.092667e+00  8.163881e-01
##  [12954,] -5.371851e-01  1.030205e+00  9.547014e-01  1.025214e+00
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##  [12956,]  1.401641e+00  2.613719e-01  7.147439e-02  2.731235e+00
##  [12957,]  8.657022e-01  1.458753e-01  1.513520e+00  1.903803e+00
##  [12958,] -6.723407e-03 -1.599895e+00  2.473563e-02  6.279196e-01
##  [12959,]  1.320441e+00  6.841549e-01 -3.591012e-01  2.551377e+00
##  [12960,] -7.002374e-01 -1.187059e+00  1.196139e+00  1.028154e+00
##  [12961,]  1.399227e+00  5.710547e-01  9.422527e-01  3.074067e+00
##  [12962,] -2.468112e-01  1.522390e+00  1.041055e+00  7.700350e-01
##  [12963,]  1.241383e+00  3.066461e-01 -1.226171e-01  2.467224e+00
##  [12964,] -7.561702e-02 -1.089178e+00  9.231697e-01  2.350663e+00
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##  [12968,] -1.157253e+00  3.262693e+00  1.418060e+00  2.093058e+00
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##  [12970,]  7.193293e-01  1.729423e+00 -4.608989e-01  1.506199e+00
##  [12971,] -1.592004e+00  5.469499e-01 -1.112031e+00  5.876655e-01
##  [12972,] -2.483502e+00  1.076017e+00 -4.202251e-01  7.809963e-01
##  [12973,] -9.541398e-02  5.217307e-02 -1.366671e+00  6.780380e-01
##  [12974,] -4.907827e-01 -8.393132e-01 -1.118224e+00  2.964524e+00
##  [12975,]  3.055004e-02 -3.209028e-01 -2.587237e-01  2.781257e+00
##  [12976,]  1.827369e-01 -8.338527e-01 -2.812232e-01  9.900255e-01
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##  [12978,]  2.298883e-02 -7.238776e-01  7.570523e-01  6.016011e-01
##  [12979,] -1.395132e+00  9.959286e-02 -9.954963e-02  6.439501e-01
##  [12980,] -2.936986e-01  4.816166e+00 -4.452718e-01  2.021103e+00
##  [12981,]  8.226165e-01  2.278267e-01 -1.015685e+00  2.911289e+00
##  [12982,]  1.159824e+00  1.361346e+00  9.565681e-01  9.116994e-01
##  [12983,] -1.881865e-01  1.113979e+00 -2.453086e-01  6.258898e-01
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##  [12985,] -2.826333e+00  6.329846e-01  8.739785e-01  1.293336e+00
##  [12986,] -1.526095e+00  1.113275e-01 -3.778325e-02  1.052278e+00
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##  [12988,] -6.480353e-01  8.834215e-01 -1.649262e+00  7.756892e-01
##  [12989,]  1.337362e-01 -9.478839e-02  1.173698e+00  9.206949e-01
##  [12990,] -2.122638e+00  9.222751e-01 -1.218991e-01  1.090219e+00
##  [12991,]  6.325340e-01  5.628788e-02 -1.292067e+00  1.156331e+00
##  [12992,]  7.011009e-01  4.771909e-02  7.879469e-01  1.381114e+00
##  [12993,]  4.211835e-01  3.691576e-02 -1.200478e+00  6.396238e-01
##  [12994,] -1.064805e-01  2.206225e-01  4.595876e-01  6.257919e-01
##  [12995,] -4.910307e-01  8.001470e-01  3.563446e-01  8.668156e-01
##  [12996,] -4.741286e-02  2.347618e-01 -8.537325e-01  7.198652e-01
##  [12997,]  6.857730e-01  4.020335e-01 -1.664446e+00  1.089081e+00
##  [12998,]  7.340890e-01  1.005828e+00 -2.713354e-01  3.077462e+00
##  [12999,] -2.439643e+00 -1.040669e+00  1.195696e+00  6.311587e-01
##  [13000,] -1.208044e-01 -6.459922e-01 -1.249520e-01  9.728919e-01
##  [13001,] -1.976177e-01  6.708590e-01 -1.567792e+00  2.342326e+00
##  [13002,] -4.343274e-01  4.352194e-01  1.001816e+00  9.945166e-01
##  [13003,] -2.366052e+00  3.032860e-01  1.122207e+00  2.734723e+00
##  [13004,]  9.963351e-03  9.919065e-03 -1.930159e+00  1.119064e+00
##  [13005,] -3.037853e-01  2.368895e+00 -4.914358e-01  3.694453e+00
##  [13006,] -7.211011e-02 -7.439530e-02 -4.074643e-01  9.684283e-01
##  [13007,]  7.559478e-01 -2.842756e-01  9.130091e-01  2.839733e+00
##  [13008,] -9.950627e-02 -2.005344e-01  1.091294e+00  2.945411e+00
##  [13009,] -3.470681e-01  1.787034e+00 -2.434631e-01  2.148364e+00
##  [13010,]  3.341864e-01  6.586770e-01 -3.824979e-01  5.626695e-01
##  [13011,]  6.948980e-01  2.721999e-04 -6.475353e-03  8.722126e-01
##  [13012,] -2.195224e+00  1.553558e+00 -3.712597e-02  1.030548e+00
##  [13013,]  4.441464e-01 -7.115953e-01 -1.503843e+00  3.421376e-01
##  [13014,] -1.633390e+00  6.642622e-01  1.196329e-01  3.125982e-01
##  [13015,] -8.249483e-01  4.789004e-01  1.105969e+00  8.005997e-01
##  [13016,] -8.467526e-02 -2.647619e-01  9.597613e-01  1.161760e+00
##  [13017,]  6.519119e-01 -3.131248e-01 -1.257148e+00  1.155475e+00
##  [13018,] -2.330576e+00 -6.090344e-01  1.271136e+00  2.686270e+00
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## [13019,]  2.088593e-01  1.183254e+00  9.935109e-01  3.078587e+00
## [13020,]  2.301620e-01 -1.810084e-02  9.231864e-01  2.990956e+00
## [13021,] -1.426424e+00 -3.839751e-02 -7.802988e-01  3.014678e-01
## [13022,]  1.733141e-01  1.475904e-01  1.451042e+00  1.170659e-01
## [13023,] -1.602366e+00  6.718170e-01 -1.383751e+00  1.803640e+00
## [13024,]  4.889831e-01 -3.485493e-01  1.379999e+00  3.588152e-01
## [13025,]  9.557819e-01  4.231891e-01 -5.138711e-01  1.426138e+00
## [13026,] -9.614428e-01 -1.895130e+00 -8.543513e-02  2.335040e+00
## [13027,] -3.429305e-01 -1.335881e+00  1.758486e+00  1.803087e+00
## [13028,]  3.710569e-01 -8.684190e-01 -1.175364e+00  3.993866e-01
## [13029,] -9.141513e-01  2.919633e+00  1.758290e-01  4.919316e-02
## [13030,] -2.928484e+00 -2.274016e-01  8.705819e-01  1.394327e+00
## [13031,] -4.752254e-01 -1.233297e+00 -2.911100e-01  1.158362e+00
## [13032,] -4.721419e-01  5.034016e-02 -3.226051e-01  3.135948e+00
## [13033,]  1.262554e+00 -5.727700e-01  1.064927e+00  9.358294e-01
## [13034,]  2.510082e-02 -4.255791e-01  4.240190e-01  1.514542e+00
## [13035,] -1.762729e+00 -1.826307e-01  1.613400e-01  4.282240e-01
## [13036,] -1.760422e+00  1.583008e+00  1.836672e-01  1.974158e+00
## [13037,]  1.207124e+00  4.706361e-01  1.098626e+00  7.795655e-01
## [13038,] -4.972964e-01 -9.022931e-01  9.506815e-01  1.187182e+00
## [13039,] -3.150920e-01  1.567703e-01 -5.233832e-02  3.824285e-01
## [13040,] -1.514748e+00 -5.124821e-02  1.161324e+00  7.862669e-01
## [13041,]  4.962462e-01  1.692389e+00 -1.427149e-01  4.294705e-01
## [13042,]  1.220684e+00  1.679655e-01  1.182625e+00  6.421763e-01
## [13043,] -5.704947e-01 -1.002360e+00  7.159134e-01  1.157305e+00
## [13044,]  7.596826e-01  3.890542e-01  1.027971e+00  9.807933e-01
## [13045,] -1.401665e+00  2.325026e+00 -1.966621e-01  6.659873e-01
## [13046,]  7.074200e-01  4.225143e-01  9.914517e-01  8.931458e-01
## [13047,]  4.382165e-01 -6.163424e-01  1.471459e+00  2.237061e+00
## [13048,]  6.372417e-01  3.098386e-01  8.392808e-01  1.256412e+00
## [13049,] -3.191433e-01  2.139872e+00  7.794977e-01  2.483976e+00
## [13050,]  1.590225e-02 -5.239472e-01 -3.056834e-01  2.981708e+00
## [13051,]  5.416683e-01 -3.582323e-01 -1.294179e+00  5.329166e-01
## [13052,]  9.328670e-01  1.160680e-01  1.882988e-01  1.737141e-01
## [13053,]  4.364320e-01  2.289027e+00  1.124628e-02  6.983713e-01
## [13054,] -1.130963e+00  1.652203e-01  1.158939e+00  7.242963e-01
## [13055,]  1.972229e-01 -7.654107e-03  6.440561e-02  1.433229e+00
## [13056,]  4.385214e-01  1.769512e+00  5.096898e-01  5.163844e-01
## [13057,] -7.965454e-01 -4.328660e-01  1.067967e+00  1.111686e+00
## [13058,]  8.083166e-01 -4.089236e-02 -9.190066e-01  1.130355e+00
## [13059,]  5.807219e-01  1.411008e+00  1.112323e+00  6.729964e-01
## [13060,]  1.288897e+00  7.662999e-01  8.948642e-01  2.526053e+00
## [13061,] -1.522467e+00 -6.930073e-02  2.323511e-01  6.922296e-01
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## [13067,]  1.244899e+00  2.418667e-01  1.053510e+00  8.531620e-01
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## [13070,] -1.897310e+00  2.646994e-01  9.606397e-01  1.843308e-01
## [13071,] -2.344988e+00  1.026991e+00  1.247692e+00  2.437533e+00
## [13072,] -9.963287e-01 -2.535373e-01  5.886314e-01  1.869142e+00
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## [13074,]  1.142309e+00  3.629272e-01 -1.425946e-01  2.473041e-01
## [13075,] -5.414234e-02  8.966148e-02 -1.061464e-01  5.292954e-01
## [13076,] -2.212945e+00  3.438478e-01 -5.122997e-01  9.793759e-01
## [13077,] -1.033528e+00  3.872601e-02 -1.435409e+00  2.390051e+00
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## [13079,]  2.891048e-01  1.640182e+00  1.257165e+00  2.006786e+00
## [13080,] -1.594322e+00  1.226276e+00 -1.946843e+00  9.827649e-01
## [13081,] -7.049307e-01 -1.184317e+00  1.100347e+00  1.052690e+00
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## [13083,] -1.322337e+00  2.888241e-01 -2.024484e-01  2.691301e+00
## [13084,]  1.134219e+00 -1.321426e-01  1.072529e-04  6.180264e-01
## [13085,]  3.775839e-01  3.110066e+00  1.158896e+00  2.497192e+00
## [13086,] -1.483030e+00  1.384493e+00 -4.434934e-01  1.031651e+00
## [13087,] -7.857442e-01  1.348028e+00  8.679014e-01  1.591493e+00
## [13088,] -2.939816e-01 -6.622768e-01 -4.663890e-01  3.621933e-01
## [13089,]  1.160304e+00  2.474447e-01 -1.605899e-01  3.346514e-01
## [13090,]  9.475098e-02 -8.365350e-01  1.129581e+00  2.921198e+00
## [13091,]  5.836750e-01 -2.368667e-01  9.776425e-01  1.062877e+00
## [13092,] -1.049568e+00  2.209112e+00 -1.242082e+00  2.465680e-01
## [13093,]  6.763724e-01 -1.318205e-01 -2.376454e-01  6.851573e-01
## [13094,]  1.296441e+00  1.775675e-01 -1.779458e+00  1.032783e+00
## [13095,]  9.266021e-02  8.370887e-02  9.539242e-01  1.103348e+00
## [13096,]  8.292258e-01  8.018544e-01  1.446327e-01 -8.943755e-02
## [13097,] -8.890003e-01  2.111454e+00  2.224452e-02  2.543305e-01
## [13098,]  2.853602e-02  1.592732e+00  5.598320e-01  2.559446e+00
## [13099,] -7.717447e-01  1.336138e+00  1.717889e-01  4.569491e-01
## [13100,] -1.154309e+00  3.920940e-01 -1.924339e+00  1.000492e+00
## [13101,]  5.077672e-02 -6.454058e-01 -1.770330e+00  2.776658e+00
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## [13103,]  5.684098e-03  4.381133e-01 -8.186833e-02  1.005392e+00
## [13104,]  9.774254e-01  1.458501e+00  1.283479e+00  1.069863e-01
## [13105,] -9.488729e-01  4.526468e-01  1.562057e+00 -3.984479e-02
## [13106,] -8.262057e-01  1.426062e+00  1.200854e+00  4.863852e-01
## [13107,]  4.649946e-01  2.469136e+00  2.739971e-01  7.427349e-01
## [13108,] -1.053570e-01  1.306398e+00  8.584751e-01  9.232695e-01
## [13109,] -1.078806e+00 -1.107595e+00 -1.517455e+00  2.438884e+00
## [13110,] -1.587219e+00  3.349046e-01 -1.686800e-01  6.542209e-01
## [13111,]  6.389135e-01 -6.615761e-01 -6.142223e-01  2.587085e+00
## [13112,]  2.378439e-01 -1.418930e-01 -2.004440e+00  1.147894e+00
## [13113,] -1.701965e+00  6.616458e-01 -2.161105e-01  7.280760e-01
## [13114,] -7.554710e-01 -1.475197e+00  1.191345e+00  9.002440e-01
## [13115,] -1.406132e+00  3.440579e-01  2.345241e-03  2.285039e+00
## [13116,]  7.747572e-01 -6.126945e-01 -1.468006e+00  2.800836e+00
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##  [13118,] -1.059922e-01 -1.253120e+00 -1.108550e-01  7.663796e-01
##  [13119,] -3.497455e-01  1.463144e+00 -3.187626e-01  2.356520e+00
##  [13120,]  2.002200e-01 -9.937474e-02 -4.870085e-01  1.323313e+00
##  [13121,]  7.160853e-01  1.067327e-02  1.729575e-01  2.773261e+00
##  [13122,]  1.365929e+00 -2.322422e-01  1.272416e+00  2.607396e+00
##  [13123,] -6.865746e-01  7.393856e-01 -1.631671e+00  5.283746e-01
##  [13124,] -8.477980e-01  3.820053e-01 -1.687629e-01  6.726768e-01
##  [13125,]  4.841465e-01  3.076438e+00  1.104414e+00  6.939780e-01
##  [13126,] -4.657401e-01 -1.939036e-01 -1.846308e+00  1.259897e+00
##  [13127,] -9.619221e-01 -5.914630e-01 -1.695318e+00  6.549638e-01
##  [13128,]  6.195334e-01  1.400091e-01  2.977941e-01  1.130284e+00
##  [13129,] -7.837644e-01 -1.600649e-01  1.292978e+00  5.571022e-01
##  [13130,]  1.223377e+00  1.559312e+00  1.168689e+00  7.531438e-01
##  [13131,]  4.051981e-01  1.630281e+00 -1.702204e+00  5.718242e-01
##  [13132,]  5.615705e-01  3.679764e-01 -2.689300e-01  7.356755e-01
##  [13133,] -5.842385e-02 -5.606963e-01  2.804890e-01  1.161320e+00
##  [13134,] -9.618608e-03 -6.053397e-01  9.652279e-01  1.109367e+00
##  [13135,] -6.400442e-01 -7.253875e-01 -2.946584e-01  8.047853e-01
##  [13136,]  6.527234e-01  4.479112e-02 -3.541245e-01  1.009214e+00
##  [13137,] -2.375366e+00  1.342716e+00 -3.557498e-01  7.443475e-01
##  [13138,] -1.139030e+00  2.290676e+00  1.228209e+00  2.707686e-01
##  [13139,] -4.144424e-01 -3.733658e-01 -2.051114e+00  3.206756e+00
##  [13140,]  6.732875e-01 -4.654082e-01 -7.527679e-01  9.508889e-01
##  [13141,]  4.190978e-01  1.812783e-01 -1.642892e+00  5.994712e-01
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##  [13143,] -1.404426e-01  3.605011e-01  6.949566e-01  2.359259e-01
##  [13144,] -1.517505e-01 -1.243477e+00  1.242895e+00  2.713894e+00
##  [13145,] -1.467369e+00  1.083134e-01 -1.180156e-01  6.824112e-01
##  [13146,] -1.627416e+00  1.466316e+00  1.082668e+00  2.556285e+00
##  [13147,] -1.581668e-01  3.088813e-01 -4.673548e-01  7.806032e-01
##  [13148,] -1.170926e+00  4.695432e-01  2.000652e-01  9.810870e-01
##  [13149,] -7.340232e-01  7.290360e-01  1.399212e+00  2.314444e+00
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##  [13151,]  5.759238e-01  2.881272e+00 -3.179645e-01  8.754991e-01
##  [13152,] -1.549034e+00  1.011585e+00 -1.844251e-01  5.563848e-01
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##  [13154,]  5.940425e-01 -6.376540e-01 -8.222037e-01  4.093860e-01
##  [13155,]  6.107238e-01 -3.943165e-01 -5.658659e-01  1.041002e+00
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##  [13158,]  1.461263e+00 -4.870111e-01 -2.200836e-01  8.259128e-01
##  [13159,] -1.576657e+00  7.404306e-01  1.259748e+00  5.137106e-01
##  [13160,]  3.636982e-01  1.258659e+00 -2.356594e-01  6.799423e-01
##  [13161,]  6.082161e-01 -6.577589e-01  1.117674e+00  2.885907e+00
##  [13162,]  5.891890e-01 -6.786019e-01 -4.381848e-01  6.391727e-01
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##  [13167,] -2.795631e+00 -2.306014e-01  6.331841e-01  3.095524e+00
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##  [13178,] -4.957262e-01 -4.053764e-01 -7.330866e-02  3.450608e+00
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##  [13181,] -5.312787e-02 -1.055458e+00 -1.253291e+00  6.413004e-01
##  [13182,]  6.594095e-01 -1.060528e+00 -1.343799e-01  2.389391e+00
##  [13183,]  8.315847e-01  1.475040e-01  9.701669e-01  2.979378e+00
##  [13184,] -1.499950e+00  3.795198e-01  1.330476e+00  4.402195e-01
##  [13185,]  8.636123e-01  2.202602e-01 -1.687379e+00  1.171000e+00
##  [13186,] -2.516535e-02 -7.874472e-01  3.627323e-01  1.007988e+00
##  [13187,] -6.353879e-01 -1.366232e-01 -5.352057e-01  2.914762e+00
##  [13188,] -8.593809e-01  9.628702e-02  4.574091e-01  7.980280e-01
##  [13189,] -4.739012e-01  9.597504e-01 -1.458761e-02  1.148460e+00
##  [13190,] -3.469621e+00 -8.133555e-01  5.743186e-02  2.638825e+00
##  [13191,] -1.688755e+00 -1.598753e+00  1.176592e+00  9.634174e-01
##  [13192,] -2.505178e-02 -1.012850e+00  5.361748e-01  4.291459e-01
##  [13193,] -9.569074e-01  2.782191e+00  1.032146e+00  5.600279e-01
##  [13194,]  6.587680e-01 -9.965596e-02  1.060313e+00  9.107566e-01
##  [13195,]  7.152270e-01  3.548091e-01 -4.650476e-01  2.751360e+00
##  [13196,]  8.024722e-01 -1.443913e-01  1.003737e+00  1.034872e+00
##  [13197,] -7.182625e-01 -2.441708e-01  1.000671e+00  1.129484e+00
##  [13198,]  1.183366e+00  2.405037e+00 -1.373429e-01  6.085796e-01
##  [13199,] -1.486795e+00  2.811815e-01 -1.682408e+00  6.003035e-01
##  [13200,]  1.668106e-01  2.326066e-01 -1.254287e+00  1.302247e+00
##  [13201,]  4.524516e-01  1.559453e+00  1.065081e+00  5.354941e-01
##  [13202,] -8.964705e-01  1.606949e+00  5.664264e-01  3.147885e-01
##  [13203,]  1.159803e+00  6.089411e-01  8.074470e-01  6.641192e-01
##  [13204,]  1.319801e+00 -2.593002e-03  9.382269e-01  1.134221e+00
##  [13205,]  1.312437e-01 -5.801894e-01  1.017454e+00  1.108937e+00
##  [13206,] -6.666893e-01 -1.117732e+00 -1.308724e+00  1.090488e+00
##  [13207,] -1.657512e+00  2.103350e+00 -5.973462e-01  6.730302e-01
##  [13208,]  1.200147e-01  1.586213e-02  9.361539e-01  1.246173e+00
##  [13209,]  9.434952e-01  2.997940e-01 -2.787380e-01  1.390995e+00
##  [13210,] -5.564792e-01 -4.049945e-01 -7.757032e-01  1.454188e+00
##  [13211,] -8.297463e-01  2.840509e-01  2.761308e-01  1.107043e+00
##  [13212,]  7.341943e-01 -1.870660e-01 -1.908178e+00  2.947060e+00
##  [13213,]  1.268913e+00  7.135184e-01  4.821466e-01  6.388779e-01
##  [13214,]  1.133125e-01  1.671554e-01  1.006365e+00  9.581182e-01
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## [13215,] -3.663854e-04  7.478147e-01 -7.261693e-01  8.721115e-01
## [13216,] -5.058124e-02  2.857833e-01 -2.059656e+00  1.238807e+00
## [13217,] -7.839946e-01  4.131429e-01 -1.496431e+00  1.209817e+00
## [13218,]  6.705542e-02 -1.013370e+00  3.528391e-01  2.702504e+00
## [13219,]  9.099481e-02  1.470230e+00  1.405047e-01  8.990043e-01
## [13220,] -7.596767e-01 -1.222602e+00 -5.604709e-02  8.771423e-01
## [13221,]  5.173657e-01  2.358063e-01 -1.738607e+00  8.975844e-01
## [13222,] -6.503306e-01  2.011143e+00 -9.925158e-01 -3.732330e-01
## [13223,]  5.576496e-01 -2.379622e-01 -2.307769e-01  2.751893e+00
## [13224,] -7.104799e-01  3.075360e-01  2.743348e-01  2.080647e+00
## [13225,] -3.746840e-01 -3.815874e-01  1.555892e+00  1.999710e-01
## [13226,] -1.127736e+00 -3.583518e-01 -1.171333e-01  6.564498e-01
## [13227,]  2.733400e-01 -4.877138e-01 -3.025205e-01  1.214105e+00
## [13228,] -8.744464e-01 -1.325700e+00  8.937320e-01  5.796308e-01
## [13229,]  1.186002e+00 -3.938408e-01  1.194091e+00  2.607130e+00
## [13230,]  2.065285e-01 -9.519743e-02  1.562274e-01  1.351541e-01
## [13231,]  1.341752e+00  4.859589e-01  9.834822e-02  9.476018e-01
## [13232,] -1.741225e+00 -3.192039e-01  1.483764e+00  2.080565e-01
## [13233,] -5.491384e-01  8.754459e-01  1.362392e+00  2.043297e+00
## [13234,]  7.178400e-01  1.124235e+00 -5.020104e-01  1.038090e+00
## [13235,] -1.574200e+00  2.258737e-01  6.473585e-01  2.040715e+00
## [13236,]  3.941939e-01 -9.878259e-01 -2.016416e-01  4.441441e-01
## [13237,] -1.599334e+00 -1.545547e+00  1.296745e+00  7.540804e-01
## [13238,]  1.429444e-01 -6.453489e-01 -2.329871e-01  1.081993e+00
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## [13240,] -1.749279e-01  6.650635e-01 -1.528604e+00  9.697697e-01
## [13241,] -2.976896e+00  4.152102e-01  1.010793e+00  3.046963e+00
## [13242,] -2.564626e+00  5.043829e-01  1.667559e-02  1.805576e-01
## [13243,]  1.217225e-01 -1.520220e-01 -5.104558e-01  8.784865e-01
## [13244,] -8.616515e-01  1.258305e+00 -1.856114e-01  9.687284e-01
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## [13246,]  1.040982e+00  5.404757e-01  4.819255e-01  2.303020e+00
## [13247,] -4.550092e-02 -1.121100e+00  2.539856e-01  3.455808e-01
## [13248,]  1.141653e+00  2.531729e-01  1.300967e+00  2.418317e+00
## [13249,]  1.304786e+00  9.137918e-01  1.046232e+00  9.095484e-01
## [13250,] -8.886041e-01  4.598966e+00 -2.091111e+00  1.573399e+00
## [13251,] -6.423282e-01  6.212875e-01  1.123840e+00  2.671312e+00
## [13252,] -9.242178e-01 -6.675556e-01  1.287645e+00  5.928400e-01
## [13253,]  7.186656e-01  3.476541e-01 -1.678656e-02  1.035439e+00
## [13254,] -5.789825e-01  1.971640e+00 -5.780857e-01  7.701204e-01
## [13255,]  4.027188e-01 -6.980753e-01 -1.386771e+00  4.809549e-01
## [13256,]  4.044764e-01 -1.651960e+00  3.982633e-01  1.900586e+00
## [13257,]  1.107096e+00  1.918611e+00 -7.800389e-02  4.024199e-01
## [13258,] -7.703439e-03  1.314387e-01 -1.999781e+00  1.117494e+00
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## [13261,] -1.523672e+00 -5.892885e-01 -1.406301e+00  1.533175e+00
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## [13267,] -1.599936e+00  2.762782e-01  1.115805e+00  9.176891e-01
## [13268,]  6.728740e-01 -7.292966e-02 -2.547420e-01  2.859809e+00
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## [13270,]  5.804542e-01  5.033448e-01 -1.622684e+00  4.770958e-01
## [13271,] -1.384751e+00  1.146206e+00  2.560440e-01  5.895983e-01
## [13272,]  1.088458e+00 -4.885145e-02 -1.346542e-01  5.140301e-01
## [13273,] -1.583311e+00 -8.317806e-01 -3.963944e-01  4.136773e-02
## [13274,] -1.399238e-01 -1.041757e+00 -1.307467e+00  9.484470e-02
## [13275,] -2.937392e-01  1.325889e+00 -5.004560e-01  5.990187e-01
## [13276,]  6.761012e-01  4.901861e-01 -1.556888e+00  1.038729e+00
## [13277,] -4.799564e-01  9.592756e-01 -1.999996e+00  1.080097e+00
## [13278,]  1.381771e-01 -2.574235e-01  4.307683e-01  1.150027e+00
## [13279,]  2.386193e-01  3.753748e-01  1.314776e+00  3.098700e-01
## [13280,] -8.324625e-01  2.319124e+00  3.686581e-01  4.944930e-01
## [13281,] -1.979619e-01  3.829719e-01  2.169375e-01  4.958203e-01
## [13282,] -1.357216e+00  7.937792e-01  1.058097e+00  8.466460e-01
## [13283,]  1.277000e+00  1.008682e+00 -5.661498e-01  2.900090e+00
## [13284,]  3.297271e-02  2.702197e-01 -2.533218e-01  8.849911e-01
## [13285,] -7.314679e-01  8.972372e-01  1.790254e-01  2.611642e-01
## [13286,] -2.326561e+00  1.105331e+00  1.167819e+00  2.507474e+00
## [13287,] -2.123261e+00  5.334726e-01  1.006708e+00  1.241940e+00
## [13288,] -1.113170e-02  1.880889e+00 -1.817114e+00  2.515872e+00
## [13289,] -1.263840e+00 -4.272589e-01 -2.084502e+00  1.418787e+00
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## [13291,] -6.678162e-01 -1.346261e+00  1.319769e+00  2.477118e+00
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## [13293,] -1.009897e+00  1.990963e+00  5.405532e-01  2.156247e+00
## [13294,] -9.468933e-01 -1.593935e+00 -1.305499e+00  5.424900e-01
## [13295,]  1.281114e+00  3.778198e-01  1.135754e+00  6.782494e-01
## [13296,] -5.600011e-01  5.351403e-02  1.199197e+00  6.503162e-01
## [13297,] -8.497762e-01  4.373187e-01  7.527839e-01  1.439836e+00
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## [13299,] -1.322066e+00  6.926800e-01 -1.887107e+00  1.266838e+00
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## [13301,] -7.770614e-01  4.385874e-01 -1.709169e+00  6.168516e-01
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## [13304,]  3.861355e-01  2.582767e+00  1.152636e+00  2.671250e+00
## [13305,] -1.025130e+00  2.654185e+00 -2.440607e-01  2.180551e+00
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## [13307,] -4.748484e-01  1.121477e+00  3.051617e-01  2.794176e+00
## [13308,] -2.058312e+00 -5.742121e-02 -1.066516e+00  1.127803e+00
## [13309,]  1.505319e+00  4.104432e-01  3.920456e-02  1.034341e+00
## [13310,]  1.202436e+00 -5.876811e-01  1.042530e-02  2.445850e+00
## [13311,] -2.083874e-01 -1.176201e-01  1.206376e-01  1.311851e-01
## [13312,]  1.233597e+00 -7.507093e-01  1.337966e+00  2.513610e+00
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## [13313,] -1.832915e+00  1.190891e+00  1.366004e+00  1.782381e-01
## [13314,]  7.731827e-02  4.433988e-01  9.818346e-01  2.943714e+00
## [13315,] -5.475659e-01 -8.200784e-01 -1.519810e+00  3.034068e+00
## [13316,]  7.641068e-01 -2.817319e-01 -1.680097e+00  8.690342e-01
## [13317,] -1.464546e+00  6.274626e-01  8.180238e-01  1.313995e+00
## [13318,]  1.691845e-01 -2.630686e-01  8.910156e-01  1.338572e+00
## [13319,] -5.985772e-01  1.332097e+00  7.981791e-02  6.562009e-01
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## [13321,]  2.849215e-01 -4.536020e-01  6.706597e-02 -1.949869e-01
## [13322,] -4.691806e-01 -2.423309e-01 -1.548684e-01  1.515418e+00
## [13323,] -6.133852e-01  3.746213e-02  4.862998e-01  9.879460e-01
## [13324,] -9.621517e-01 -1.149976e+00  1.271581e+00  2.776120e+00
## [13325,] -6.580438e-01 -5.314993e-01 -8.751457e-01  2.813128e+00
## [13326,]  2.856690e-01  9.216744e-01 -7.748228e-01  1.371624e+00
## [13327,] -2.531433e-01  1.505537e+00 -1.521619e+00  4.902066e-01
## [13328,]  1.256714e+00  2.340902e+00  1.049124e+00  8.027820e-01
## [13329,]  1.436016e+00  8.107090e-02 -4.226874e-01  9.703681e-01
## [13330,]  1.112283e+00  1.418160e-01 -3.313377e-01  2.430778e+00
## [13331,] -5.864461e-01 -4.618062e-01  7.548455e-01  1.632887e+00
## [13332,]  8.009724e-01  3.800445e+00 -6.719410e-01  1.287075e+00
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## [13335,] -7.732724e-01  1.448686e+00  9.073848e-01  1.002980e+00
## [13336,] -1.624171e+00  1.422250e+00  3.413485e-01  4.555232e-01
## [13337,] -8.400557e-02  3.769576e-01 -3.869043e-01  2.584059e+00
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## [13342,] -1.034644e+00  7.711115e-01  1.115028e+00  1.623801e+00
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## [13348,]  1.068454e+00  1.468397e+00  1.207275e+00  2.395100e+00
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## [13350,]  1.295206e+00  3.020819e-01 -1.564855e+00  6.260072e-01
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## [13355,] -8.511002e-01 -3.851617e-01 -1.552915e+00  7.317762e-01
## [13356,]  7.187022e-01  2.302040e-01  6.428983e-01  1.064545e+00
## [13357,]  1.359704e+00 -2.361794e-01  1.086496e+00  8.057310e-01
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## [13362,] -4.470223e-02  9.901767e-01  5.625898e-01  4.287146e-01
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## [13373,]  1.261575e-01 -7.839521e-01  1.112148e+00  2.905268e+00
## [13374,] -1.334209e-01  1.068748e+00  1.247296e+00  4.638820e-01
## [13375,] -1.366685e+00 -1.710320e+00  1.142196e+00  1.080703e+00
## [13376,] -8.401494e-01  6.117614e-01  2.526475e-01  7.434408e-01
## [13377,]  3.936741e-01  3.000806e+00 -1.474267e+00  4.603795e-01
## [13378,]  6.035711e-01  1.297961e-01  9.016391e-01  1.155238e+00
## [13379,] -1.423190e+00  3.372027e-01 -5.216738e-01  3.787726e-01
## [13380,] -1.019444e+00 -1.835936e+00 -8.962697e-01  1.986659e+00
## [13381,]  5.235311e-01 -4.633383e-01  6.483734e-02  8.448858e-01
## [13382,]  2.591499e-03  5.542715e-01 -1.586947e+00  9.845231e-01
## [13383,]  8.008829e-01  8.469136e-01 -2.483690e-01  3.168898e+00
## [13384,]  1.133650e+00  7.228288e-01  1.776328e-01  7.509955e-01
## [13385,] -7.676264e-01  4.095018e-01 -1.442887e+00  4.336294e-01
## [13386,]  1.357399e+00  1.157804e-01  3.668941e-03  1.208412e+00
## [13387,] -7.366941e-01  1.106879e+00 -1.271740e+00  7.929682e-01
## [13388,] -8.334285e-01  1.650220e-01  1.071055e+00 -3.646377e-02
## [13389,]  1.038614e-01 -5.140588e-01  1.124282e+00  8.488412e-01
## [13390,] -6.465172e-01  1.888102e+00  9.792163e-01  8.635597e-01
## [13391,] -1.597579e+00 -7.360271e-01 -6.234131e-01  1.231566e+00
## [13392,]  3.344440e-02  3.517819e-01  4.498832e-02  1.009317e+00
## [13393,]  3.681154e-01  2.014301e+00  1.185663e+00  2.725070e-01
## [13394,] -4.102692e-01  7.065789e-01 -1.230617e+00  2.315534e-01
## [13395,] -2.920306e+00  9.642119e-01 -6.620658e-01  1.066028e+00
## [13396,]  3.452539e-01  2.805597e-01  8.126096e-01  1.490785e+00
## [13397,] -5.542287e-01 -2.704112e-01 -5.469657e-01  1.509371e+00
## [13398,]  6.541311e-01  2.092504e-01 -3.875148e-01  2.835907e+00
## [13399,]  4.155877e-01  1.268567e+00 -1.571629e+00  2.777829e-01
## [13400,]  7.366666e-01 -1.281228e-01  1.064066e+00  8.853766e-01
## [13401,] -7.370318e-01 -1.739516e+00  2.505239e-02  2.469405e+00
## [13402,]  1.369138e+00  1.256409e-02  9.895083e-01  9.908156e-01
## [13403,] -2.387143e+00 -8.312709e-01 -1.292634e+00  2.022094e+00
## [13404,]  1.991481e-01 -2.925344e-01  6.559883e-01  1.410604e+00
## [13405,] -9.335335e-01 -7.812541e-01 -2.885515e-01  6.875584e-01
## [13406,] -1.532415e+00  1.433037e+00  1.019363e+00  7.352188e-01
## [13407,]  2.877249e-01 -7.428513e-01 -8.464618e-01  1.963656e-01
## [13408,] -2.643718e+00  1.182380e+00  2.028315e-01  2.189647e+00
## [13409,] -5.280850e-01  6.443808e-01  4.459237e-01  9.919347e-01
## [13410,] -6.569591e-01 -4.471812e-01 -1.799289e+00  1.195775e+00
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## [13411,]  5.855426e-01 -7.682000e-01  1.362126e+00  2.466705e+00
## [13412,]  3.428299e-03  6.595752e-02 -8.204124e-01  1.378374e+00
## [13413,] -8.919223e-01  1.821488e+00 -2.197612e-01  8.947187e-01
## [13414,] -7.713160e-01 -8.109495e-01 -1.803846e-01  1.101176e+00
## [13415,] -5.625619e-01  1.543379e+00  1.488432e+00 -1.500623e-01
## [13416,] -8.147841e-01 -1.158324e+00  1.200263e+00  2.831160e+00
## [13417,] -2.336240e+00  5.946039e-01  1.357361e+00  3.571569e-01
## [13418,]  1.423517e+00 -3.029022e-01 -2.602586e-01  2.769298e+00
## [13419,]  4.420919e-01 -3.487491e-01  1.387436e+00  2.293523e+00
## [13420,] -5.673311e-01  7.591510e-01  1.219916e+00  2.534032e+00
## [13421,]  1.020232e+00  1.174363e+00 -6.631842e-02  2.075042e+00
## [13422,] -7.401645e-01  2.641426e-01  5.251527e-01  9.147470e-01
## [13423,]  2.044921e-01  1.895528e+00  3.108972e-01  1.874928e+00
## [13424,] -9.320287e-01  9.003521e-01 -8.017729e-01  2.391016e+00
## [13425,]  5.539146e-01 -2.257664e-01 -2.637897e-01  2.496580e+00
## [13426,]  8.418414e-01  9.242552e-01 -4.716686e-01  1.324237e+00
## [13427,]  4.953318e-02 -5.086978e-01 -4.974974e-01  1.021213e+00
## [13428,] -1.064970e+00 -1.589362e+00  1.405277e+00  6.407571e-01
## [13429,] -6.941942e-01 -1.132400e+00  1.267018e+00  2.699913e+00
## [13430,] -2.330461e+00  7.003610e-01 -6.740705e-01  1.090012e+00
## [13431,] -2.355250e+00  9.678650e-01 -2.378832e-01  7.154774e-01
## [13432,]  1.667125e-01 -4.607706e-01  4.142562e-01 -4.693283e-02
## [13433,]  2.547797e-02 -6.489857e-01  1.961777e-01  2.634779e+00
## [13434,]  9.380354e-01  6.722864e-01 -8.530345e-01  1.406951e+00
## [13435,]  1.173021e+00 -1.902241e-01  1.216601e+00  6.232200e-01
## [13436,] -3.637971e-01  8.395613e-01  1.032427e+00  1.952029e+00
## [13437,]  1.283082e+00 -1.322509e-02  1.225433e+00  6.223653e-01
## [13438,] -1.412446e+00  1.210069e+00 -2.607423e-01  2.961392e+00
## [13439,] -6.274598e-01  7.105486e-01 -6.170068e-01  1.031752e+00
## [13440,] -5.446329e-01 -2.236671e-01  8.386319e-01  1.355982e+00
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## [13442,] -3.116497e+00 -4.076167e-02  1.471288e+00  2.318324e+00
## [13443,] -1.103720e+00  1.552986e+00  8.214113e-02  3.145247e-02
## [13444,] -4.090026e-01  3.747704e-01  4.797417e-01  1.724899e+00
## [13445,] -2.106367e+00  2.249608e-01 -3.626611e-01  1.075728e+00
## [13446,]  1.429433e+00  1.782771e-01 -1.257472e-01  7.915896e-01
## [13447,] -1.033009e+00  5.655963e-01  9.214599e-01  1.029340e+00
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## [13449,]  8.888093e-01  1.144548e-01  8.453154e-01  3.221049e+00
## [13450,] -1.242544e+00  9.108146e-01 -1.707939e+00  7.885411e-01
## [13451,]  3.156190e-01 -9.482741e-01 -5.794649e-01  2.771887e-01
## [13452,] -2.791465e-01 -2.502784e-01 -1.454475e+00  6.051555e-01
## [13453,] -1.694408e-01  6.638608e-01  1.003125e+00  1.046978e+00
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## [13455,] -1.418322e+00  1.765017e-01  1.303144e-01  7.772462e-01
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## [13457,]  6.688391e-01 -4.969042e-02 -5.359019e-01  7.004227e-01
## [13458,] -8.567813e-01  3.276264e-01 -1.445647e+00  1.859881e-01
## [13459,]  7.418313e-01  9.246610e-01  9.890221e-01  2.852397e+00
## [13460,] -1.595188e+00  1.484336e+00  5.001355e-01  1.143246e-01
## [13461,]  6.726585e-01  1.417381e-01  1.947947e-02  9.172547e-01
## [13462,] -9.953910e-01  1.138822e+00  7.508138e-01  4.358222e-01
## [13463,] -7.676878e-01 -2.106050e-01  1.209981e+00  6.141761e-01
## [13464,] -2.416416e+00  1.473285e+00 -6.385076e-01  9.511398e-01
## [13465,] -5.795068e-01  2.637386e-01 -2.403973e+00  1.977444e+00
## [13466,]  1.113658e+00 -2.681347e-01  1.045894e+00  6.042982e-01
## [13467,] -1.778467e+00  1.252483e+00 -1.505345e+00  5.346456e-01
## [13468,] -3.904066e-02  8.853064e-01  2.571762e-01  6.474537e-01
## [13469,] -6.221518e-01  4.819810e-01  1.179410e+00  7.394983e-01
## [13470,] -7.306505e-01 -1.510052e+00  1.531569e+00  2.334529e+00
## [13471,]  7.414382e-01  8.646830e-01  1.030265e+00  3.008157e+00
## [13472,]  7.098455e-01  3.564757e-01  9.888095e-01  1.069397e+00
## [13473,] -7.436961e-03 -2.161559e-01  1.160072e+00  2.754306e+00
## [13474,]  1.815417e-02  6.042396e-01  1.104836e+00  3.057010e+00
## [13475,] -1.054617e+00 -1.211228e-01  1.972533e-01  2.315440e+00
## [13476,] -6.276309e-01 -5.940468e-01  6.586025e-01  8.537697e-01
## [13477,] -5.285619e-03  1.069968e+00 -2.251010e-02  7.581113e-01
## [13478,]  7.726471e-01 -1.436498e-01  1.064348e+00  2.809268e+00
## [13479,]  1.178776e+00 -3.047463e-01  3.511124e-01  5.936556e-01
## [13480,]  6.727512e-01 -3.560585e-01  2.056715e-01  2.582744e+00
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## [13482,]  8.228840e-01  1.226203e-03  5.461059e-01 -1.093103e-01
## [13483,] -2.752510e-01  6.755615e-01 -1.106356e+00  2.044597e+00
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## [13485,] -7.508369e-02 -7.900894e-01 -4.961435e-03  1.077582e+00
## [13486,] -3.705425e-01 -6.452681e-01 -4.728846e-01  3.885486e-01
## [13487,] -1.933673e+00  1.777233e-01  1.458909e+00  5.110615e-01
## [13488,] -1.204905e+00  8.715471e-02  9.732617e-02  2.056528e+00
## [13489,] -8.799270e-01  8.855420e-01 -1.673238e+00  3.949717e-01
## [13490,] -8.310781e-02  2.339428e-01  2.888850e-02  2.978392e+00
## [13491,] -1.562606e+00  1.478128e+00  7.590960e-01  2.490194e+00
## [13492,] -8.243617e-01  9.893489e-01  1.007978e-01  6.143553e-01
## [13493,]  1.051885e+00  1.908551e+00  1.331622e+00  1.987593e+00
## [13494,]  1.060985e+00  1.692441e+01  6.561691e-02  4.492874e+00
## [13495,]  4.913828e-01 -4.568102e-01  1.366185e+00  4.482056e-01
## [13496,]  8.859909e-02 -4.034821e-01  8.660487e-02  7.873742e-01
## [13497,]  7.118672e-01  3.200769e-01 -2.705650e-01  8.532809e-01
## [13498,]  1.307115e-01  5.884346e-01  1.000718e+00  2.879153e+00
## [13499,] -1.058027e-01  1.145352e+00  1.274423e+00  2.280910e+00
## [13500,] -1.509062e+00  6.961131e-01  6.822600e-01  6.443909e-01
## [13501,] -1.301419e-01  1.819344e+00  9.589864e-03  2.690566e+00
## [13502,]  8.957822e-01  4.658394e-01  4.806957e-01  1.554211e+00
## [13503,]  9.962854e-01  1.533975e+00  1.412723e+00  2.296713e+00
## [13504,]  1.789593e-01  1.922722e+00 -1.658756e+00  3.310263e+00
## [13505,] -2.196501e+00  6.523805e-01 -4.268157e-01  1.071320e+00
## [13506,]  3.308384e-01  8.153868e-01 -1.482162e+00  4.825322e-01
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##  [13510,]  8.095154e-02 -3.394683e-02  7.143882e-01  1.590494e+00
##  [13511,] -1.495796e-01  9.223577e-01  1.335741e+00  3.028053e-01
##  [13512,] -8.686432e-01 -6.181606e-01 -9.208946e-01  6.604154e-01
##  [13513,]  1.238180e+00 -1.394480e-01  1.207624e+00  6.455843e-01
##  [13514,] -1.593104e+00  8.029534e-01  9.490074e-01  1.027749e+00
##  [13515,]  4.388373e-01 -8.066263e-01  7.181898e-02  5.836754e-01
##  [13516,]  1.016047e+00 -7.566693e-01  4.483880e-01  2.502531e-01
##  [13517,]  1.984375e-01 -3.758536e-01 -1.920893e+00  1.024098e+00
##  [13518,] -5.356844e-01 -2.503402e-01 -4.388458e-01  1.108354e+00
##  [13519,]  2.229780e-01  1.243001e+00 -1.846814e+00  1.471625e+00
##  [13520,]  7.044626e-01  2.099003e-01 -1.322975e+00  2.826081e+00
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##  [13523,]  6.485815e-01  6.661162e-01  9.365961e-01  1.077205e+00
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##  [13525,]  1.278809e+00 -1.321775e-01  9.189261e-01  8.727965e-01
##  [13526,]  7.644647e-01 -1.844383e-02 -1.452556e+00  1.118771e+00
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##  [13530,]  1.060601e-02 -1.805291e-01 -1.156524e+00  9.305900e-01
##  [13531,] -3.985556e-01 -2.649570e-01 -1.735335e+00  1.415287e+00
##  [13532,] -1.400066e+00  5.212790e-01 -1.944191e+00  2.908002e+00
##  [13533,]  7.699874e-01  3.015787e-01 -4.554960e-01  9.771742e-01
##  [13534,]  4.112079e-01  6.482949e-01 -1.354597e-01  4.469146e-01
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##  [13537,] -9.388117e-01  1.348923e+00 -1.595509e+00  2.986929e+00
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##  [13539,] -1.235910e-01  1.498234e+00  9.014348e-01  3.258505e-01
##  [13540,]  3.907832e-02 -1.257189e-01  1.062885e+00  9.445199e-01
##  [13541,]  6.083483e-01 -3.503787e-01  1.264069e+00  7.219353e-01
##  [13542,] -4.651392e-01 -1.652017e-01  8.463010e-01  3.368294e+00
##  [13543,]  2.000709e-01 -2.155221e-03 -9.075601e-02  9.457446e-02
##  [13544,] -5.069621e-02 -4.024882e-01 -2.083723e-01  1.157766e+00
##  [13545,] -3.214302e-02 -5.421372e-02 -1.671182e+00  5.060097e-01
##  [13546,]  1.248576e+00  8.273622e-01  1.736039e-01  8.752674e-01
##  [13547,] -1.137712e-01  1.028741e-01 -1.196492e-01  5.371740e-01
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##  [13554,]  6.082603e-01 -5.648764e-01 -4.792223e-01  6.993330e-01
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##  [13558,] -2.490030e+00  8.785383e-01  1.198902e+00  6.511871e-01
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##  [13563,]  4.494775e-01 -2.944999e-01 -1.262405e+00  1.900755e-01
##  [13564,]  1.347570e+00  1.760272e-02  7.749797e-01  7.750366e-01
##  [13565,] -2.734460e+00  3.956217e-01 -1.376410e+00  1.889654e+00
##  [13566,]  4.582175e-01  9.049804e-01  6.433355e-01  8.814375e-01
##  [13567,] -4.998325e-01 -5.844288e-01 -2.302873e-01  1.389549e+00
##  [13568,] -6.544236e-01  1.016519e+00  1.271299e+00  5.089436e-01
##  [13569,]  7.050608e-01  2.513551e-01 -1.134534e+00  8.017762e-01
##  [13570,]  7.702664e-01 -8.488795e-02  9.545351e-01  1.080702e+00
##  [13571,] -4.409205e-01  5.012501e-01 -6.253084e-02  1.793873e+00
##  [13572,]  1.154187e+00 -3.552050e-01  1.435966e+00  2.700921e-01
##  [13573,] -8.707430e-01 -1.341205e+00  1.225425e+00  8.446544e-01
##  [13574,] -9.562350e-02 -1.164923e+00  1.432372e+00  2.416559e+00
##  [13575,] -2.200091e+00  1.400039e-02  4.809883e-01  7.950415e-01
##  [13576,]  5.787791e-01 -2.279122e-02  5.844643e-02  4.511630e-01
##  [13577,] -1.377562e+00  2.135799e+00 -1.684982e+00  1.084935e+00
##  [13578,] -4.022460e-01  6.031384e-01  6.052834e-01  1.604383e+00
##  [13579,]  1.065450e+00  1.695533e+00  2.058613e-01  2.531609e+00
##  [13580,]  1.087663e+00 -8.938831e-02  1.224088e-01  2.497737e-01
##  [13581,] -2.145499e-01  7.891658e-01 -1.389969e+00  2.773660e+00
##  [13582,] -1.090328e-01 -1.225842e+00  6.115787e-01  2.578225e+00
##  [13583,] -6.315560e-01  1.234598e+00  1.138011e+00  2.731974e+00
##  [13584,] -8.589074e-01  5.226063e-01 -1.378907e+00  2.267562e+00
##  [13585,]  1.410908e+00  4.572342e-01 -4.306717e-01  1.245401e+00
##  [13586,]  8.262242e-01  5.932710e-01 -3.551765e-01  1.228692e+00
##  [13587,]  2.450028e-01  1.051151e-01  7.927002e-01  1.548938e+00
##  [13588,]  1.307139e-01 -5.614057e-01  1.085518e+00  2.939691e+00
##  [13589,]  6.981874e-02  5.694878e-01  9.632057e-01  3.032283e+00
##  [13590,]  7.212563e-01  1.463181e+00 -2.044802e+00  1.234723e+00
##  [13591,]  6.707880e-01  7.347733e-01 -2.806562e-01  9.945370e-01
##  [13592,] -2.818161e+00 -8.657898e-02 -1.385519e+00  1.162577e+00
##  [13593,] -1.163524e-02  5.713463e-01  9.909905e-01  9.203891e-01
##  [13594,] -1.565066e+00  1.371083e+00 -7.214388e-01  1.104871e+00
##  [13595,]  1.279205e+00  1.196097e+00  1.243331e+00  2.414377e+00
##  [13596,]  8.125136e-02  5.936821e-01 -1.326594e-01  8.415992e-01
##  [13597,] -2.131610e+00  1.490471e-01 -1.253891e+00  3.024806e+00
##  [13598,]  1.466613e-01  9.820077e-01 -8.785469e-01  1.399947e+00
##  [13599,]  6.329593e-01  8.163663e-01  1.166223e-01  9.211213e-01
##  [13600,]  9.700290e-01  2.060567e-01 -1.001698e+00  2.541292e-01
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##  [13602,] -4.041335e-02 -7.883676e-01 -9.302259e-01  6.191527e-01
##  [13603,]  2.704232e-01  2.603749e+00 -1.633447e+00  5.300371e-02
##  [13604,]  3.734979e-01 -4.433443e-01  1.431807e+00  2.329327e+00
##  [13605,]  5.062930e-02  5.453138e-01  8.360382e-01  2.564633e+00
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##  [13608,] -2.248095e+00  1.901451e-01 -1.208077e+00  2.715253e+00
##  [13609,] -2.117945e+00  5.622368e-01 -2.022225e-01  3.302914e+00
##  [13610,] -1.155778e+00  7.401050e-01 -1.200525e-02  7.243681e-01
##  [13611,] -1.670652e-01 -1.016938e+00  1.441207e+00  4.292670e-01
##  [13612,] -1.553399e+00  1.075564e+00  1.345059e+00  2.067741e-01
##  [13613,] -9.948146e-01  2.805959e+00  2.283289e-01  5.392771e-01
##  [13614,] -9.896590e-01  1.161211e+00 -7.013509e-01  1.846997e+00
##  [13615,]  6.997761e-01  2.059557e-01  1.376728e-01  1.088714e+00
##  [13616,]  5.910802e-01  1.540183e+00  8.124164e-03  1.373975e+00
##  [13617,] -5.320482e-01 -3.213707e-01  1.104591e+00  1.106913e+00
##  [13618,] -6.676706e-01  4.708996e-01 -7.802183e-01  1.300353e+00
##  [13619,] -1.706996e+00 -3.643189e-01 -4.036680e-02  5.822593e-01
##  [13620,]  7.283193e-01  2.618419e-01  1.276365e-02  3.047018e+00
##  [13621,] -1.807948e+00  1.850517e+00 -1.897081e+00  5.900490e-01
##  [13622,] -1.930515e-02 -6.016299e-01  5.530707e-01  1.033460e+00
##  [13623,] -1.032861e+00 -1.635332e+00  5.034888e-02  2.546290e+00
##  [13624,]  9.477461e-02 -1.410304e+00 -4.170766e-02  6.911794e-01
##  [13625,]  3.367001e-01 -3.899370e-01  2.474890e-01  1.580192e-01
##  [13626,] -9.536954e-01  2.931638e+00 -7.911778e-01  1.352411e+00
##  [13627,]  4.365185e-01 -9.819032e-01  1.557691e-01  2.184854e+00
##  [13628,] -1.634433e+00  7.846975e-01  1.300582e+00  2.416720e+00
##  [13629,]  7.087143e-01  2.980305e-01 -4.548984e-01  1.031435e+00
##  [13630,] -2.869489e-01  1.184834e-02 -1.545679e+00  6.407521e-01
##  [13631,] -1.120029e-02 -1.267249e-01 -1.094636e+00  8.698734e-01
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##  [13642,] -1.164346e-01 -6.402256e-01  5.035635e-01  2.315532e+00
##  [13643,]  5.788846e-01  1.162296e+00 -5.887913e-02  9.217313e-01
##  [13644,] -5.769679e-01 -1.207468e+00 -1.691708e+00  2.700459e+00
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##  [13647,] -7.533273e-01 -1.244315e-01 -7.259469e-01  3.356867e+00
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##  [13649,] -2.349246e+00 -1.820300e-01 -9.985186e-01  3.879052e-01
##  [13650,]  1.287577e+00  6.511013e-02 -1.631280e+00  8.443270e-01
##  [13651,]  1.105444e+00 -2.737583e-01 -4.184099e-01  5.502346e-01
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##  [13654,]  6.944283e-01  1.146622e+00  7.243145e-01  7.968018e-01
##  [13655,] -1.492239e+00  5.195568e-02 -6.228859e-02  6.098447e-01
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##  [13657,] -1.452408e+00  1.427811e-01  1.215539e+00  2.584773e+00
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##  [13661,] -8.566243e-02 -1.101352e+00  1.202778e+00  8.404960e-01
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##  [13669,] -2.509745e+00  2.083459e+00 -3.065316e-01  6.226022e-01
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##  [13671,] -4.062862e-01  1.270302e+00 -8.010440e-01  1.310937e+00
##  [13672,]  1.055416e+00 -5.454461e-01  1.339763e+00  4.337598e-01
##  [13673,]  1.859556e-01 -1.093254e-01 -1.803654e-01  1.267431e+00
##  [13674,]  1.335121e+00  1.538575e+00 -2.577449e-01  7.375457e-01
##  [13675,]  3.296155e-01  1.292884e+00 -3.398034e-01  2.452144e+00
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##  [13677,] -6.684124e-01 -1.120912e+00  1.240262e+00  7.330327e-01
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##  [13683,]  7.918827e-01  2.384249e-01  1.419196e-01  1.162731e+00
##  [13684,]  1.097889e+00  1.229962e+00  1.189655e+00  5.876493e-01
##  [13685,] -2.477311e-02  3.527912e+00  1.124237e+00  2.753294e+00
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##  [13689,] -1.219127e+00  4.202913e-01 -1.539963e-01  4.918973e-01
##  [13690,]  5.287524e-01 -3.059327e-01  1.071703e+00  9.167994e-01
##  [13691,]  2.120303e-01  7.592829e-01  1.450668e-01  1.731204e+00
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##  [13745,] -1.393261e+00  1.244685e+00 -4.287657e-01  1.193059e+00
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##  [13747,] -8.271257e-02 -5.254634e-01 -1.258050e+00  8.638609e-01
##  [13748,] -1.360498e+00  1.323831e+00 -2.177796e+00  1.561617e+00
##  [13749,] -3.817783e-01 -1.900169e-01 -2.124469e+00  1.455750e+00
##  [13750,] -7.203069e-02 -6.860924e-01  1.367011e+00  4.050866e-01
##  [13751,] -1.672043e+00 -5.566397e-02  1.486210e+00  3.624626e-01
##  [13752,] -6.900488e-01 -1.059807e+00 -1.406803e+00  6.016107e-01
##  [13753,]  5.460289e-01  9.483709e-01  1.321600e+00  4.978459e-01
##  [13754,] -1.127181e-01  1.979609e+00 -2.019119e+00  8.778949e-01
##  [13755,]  1.210501e+00  9.709863e-02  1.075782e+00  8.780892e-01
##  [13756,] -1.309978e+00  7.494860e-01  6.706814e-01  3.737147e+00
##  [13757,]  4.352825e-01  1.338473e+00  1.290661e+00  3.189596e-01
##  [13758,] -1.433292e+00  9.226433e-01  1.324676e+00  4.392538e-01
##  [13759,]  1.326795e+00  2.919106e-01  1.239826e+00  5.894919e-01
##  [13760,]  3.532125e-01  5.200502e-01  1.364671e+00  1.598612e-01
##  [13761,] -1.771470e-01  1.036903e+00  1.170663e+00  6.832596e-01
##  [13762,] -1.432176e-01 -4.320166e-01  1.475914e+00  2.360704e+00
##  [13763,] -5.857957e-01 -3.047514e-01  7.082218e-01  1.661885e+00
##  [13764,] -1.008378e-01 -1.946883e-01  1.031537e+00  9.363199e-01
##  [13765,] -2.894207e-01 -1.267104e+00 -1.263280e+00  2.057822e+00
##  [13766,] -2.395979e-01  1.133503e-01  1.377076e+00  2.275382e+00
##  [13767,]  1.354024e+00  1.860476e+00  9.332788e-01  1.114630e+00
##  [13768,] -1.371732e+00  1.894974e-01  1.162522e+00  7.377000e-01
##  [13769,]  6.616351e-01  5.722146e-02 -1.328581e+00  1.226477e+00
##  [13770,]  1.510139e-02 -6.232117e-01  6.288829e-02  5.679115e-01
##  [13771,] -1.164945e+00  1.555875e+00 -9.605403e-02  1.348883e+00
##  [13772,] -7.704126e-01 -2.922344e-01 -2.756094e-01  1.173904e+00
##  [13773,]  3.284351e-01  1.404502e+00  1.364793e+00  2.627805e-01
##  [13774,]  4.518813e-01  1.890110e+00 -1.359593e+00  5.419719e-01
##  [13775,]  1.475031e+00  6.728085e-01 -1.744088e+00  1.251334e+00
##  [13776,] -1.089390e+00 -1.157466e+00 -2.623096e-01  6.037536e-01
##  [13777,] -1.338306e+00  3.651799e-01 -8.488115e-01  1.009633e+00
##  [13778,] -7.128178e-01 -1.344661e+00  1.324229e+00  5.999898e-01
##  [13779,] -8.835316e-01  7.492418e-01  1.412783e+00  1.625740e-01
##  [13780,] -7.458547e-01  7.046762e-01  2.272656e-01  2.798965e+00
##  [13781,] -1.931445e-01  3.215168e-01 -2.984720e-02  5.069547e-01
##  [13782,] -1.649947e+00 -1.784994e-01 -2.853536e-01  2.526995e+00
##  [13783,]  1.771627e-01  1.268654e-01  7.662463e-01  1.097851e+00
##  [13784,]  1.296087e-01  1.228436e+00  1.066208e+00  8.813200e-01
##  [13785,] -5.671766e-01  1.068160e+00  2.375078e-02  3.074781e+00
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##  [13787,] -3.194277e+00  7.581344e-01 -1.758157e-01  3.414009e-01
##  [13788,]  8.341084e-01  2.438089e-02 -1.791279e+00  3.009924e+00
##  [13789,]  1.300194e+00  8.043056e-01  1.069363e+00  7.699670e-01
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##  [13800,]  1.058986e+00  2.718822e+00 -1.200636e-01  6.076473e-01
##  [13801,]  3.939680e-01 -4.232318e-01  2.288028e-01  8.634160e-02
##  [13802,] -9.140997e-02  5.024621e-01  1.372929e+00  2.228146e+00
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## [13803,] -2.210026e+00  4.552736e-01 -4.177668e-01  1.081234e+00
## [13804,]  3.000314e-01 -1.309659e-01  9.415382e-02  1.355021e+00
## [13805,]  6.700562e-01 -9.207077e-01 -3.349441e-02  5.980125e-01
## [13806,] -2.142000e+00  6.219392e-02 -2.895649e-01  9.681801e-01
## [13807,] -6.669128e-02 -8.285035e-01  3.395837e-01  1.104936e+00
## [13808,] -1.184497e-01 -7.163910e-01 -1.196494e-01  7.838195e-01
## [13809,] -8.371743e-01  6.633032e-02  1.560978e+00  2.400793e-01
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## [13811,] -9.612258e-01  7.637278e-01 -2.309217e-01  2.526686e+00
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## [13816,]  9.130828e-01  1.010616e+00  6.537326e-01  1.721933e+00
## [13817,] -7.555947e-01 -1.215455e+00 -8.942718e-01  2.270350e+00
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## [13819,]  4.784453e-02  3.697266e-01  8.931683e-01  1.144815e+00
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## [13824,] -3.031533e+00  5.992416e-01 -1.376390e-01  7.580224e-01
## [13825,] -1.096542e+00  2.159120e+00  2.795512e-01  2.742345e-01
## [13826,]  1.428622e+00  7.206844e-01 -1.439087e+00  1.123741e+00
## [13827,] -1.802411e-01  1.636393e+00 -3.711865e-02  2.092133e+00
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## [13862,]  2.472056e-01  2.225602e-01 -3.214568e-01  1.220750e+00
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## [13867,] -8.174195e-01 -1.098683e+00  8.911982e-01  1.343750e+00
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## [13870,] -1.066808e+00  4.609769e-01  1.556921e+00 -8.367081e-03
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## [13872,]  1.187127e+00  2.617370e+00 -1.733924e+00  2.765486e+00
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## [13876,] -2.442703e+00  1.497365e+00  1.085408e+00  8.289464e-01
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## [13881,]  4.434252e-01 -5.865618e-01 -3.114019e-01  6.085851e-01
## [13882,]  1.316312e+00 -3.350030e-02 -6.021494e-01  1.060305e+00
## [13883,] -6.226065e-01  1.138270e-01  8.982412e-01  1.206057e+00
## [13884,] -2.453837e+00  1.899518e-02  1.327873e-01  7.165757e-01
## [13885,] -1.448607e+00 -3.952707e-01  6.828563e-01  1.782220e+00
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## [13899,] -6.329398e-01  1.778733e+00  2.247050e-01  6.373228e-01
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## [13902,]  1.204421e+00  2.953468e-01  1.069361e+00  8.827324e-01
## [13903,] -1.430294e+00 -5.067481e-02 -1.014393e+00  1.252849e+00
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## [13916,] -1.599137e+00 -1.707930e+00 -1.528989e+00  6.448779e-01
## [13917,] -9.487183e-02  8.952803e-01  1.177437e+00  2.395413e+00
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## [13921,] -7.959415e-02 -4.667439e-01  1.159525e+00  9.135689e-01
## [13922,] -6.760964e-01 -8.244274e-01 -1.358492e+00  2.724219e+00
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## [13937,] -1.573164e+00  1.055160e+00  4.983302e-01  1.272199e-01
## [13938,] -1.195831e-01  4.088197e-01  1.139753e+00  9.052085e-01
## [13939,]  1.056959e+00  1.876857e-01 -2.789146e-01  4.525358e-01
## [13940,] -8.249944e-01  1.694449e+00  1.247845e+00  2.305275e-01
## [13941,]  1.062978e+00  1.120881e+00  1.394598e+00  2.119799e-01
## [13942,]  1.552440e-01 -4.681632e-01 -1.851301e+00  9.079998e-01
## [13943,]  5.347424e-01 -3.862315e-01 -2.833602e-01  5.121190e-01
## [13944,] -1.500881e+00 -5.750598e-02  1.218650e+00  2.647309e+00
## [13945,]  1.258661e+00  4.138217e-01  1.040435e+00  8.972893e-01
## [13946,]  1.183052e-01  1.941658e-01 -4.579117e-01  1.447557e+00
## [13947,]  9.576845e-02  9.008091e-01 -4.046733e-01  1.161307e+00
## [13948,] -6.846065e-01 -5.212259e-01 -1.047979e+00  1.141418e+00
## [13949,]  6.717618e-01 -5.158126e-01 -1.484209e-02  7.250321e-01
## [13950,] -2.466144e+00  1.605098e+00 -3.196605e-02  8.649873e-01
## [13951,]  9.751431e-02  1.677296e-01 -1.956882e+00  1.050980e+00
## [13952,] -7.139891e-01  6.523580e-01  1.974773e-01  5.997656e-01
## [13953,] -2.960659e+00  1.874225e-01 -2.964287e-01  8.693666e-01
## [13954,] -7.313285e-01  1.941646e+00 -1.213681e+00  4.088893e-01
## [13955,] -9.342672e-01 -2.709546e-01  1.124993e+00  8.323422e-01
## [13956,] -1.125717e-01  8.994710e-02  4.897953e-02  3.059492e-01
## [13957,] -6.595342e-01 -3.765930e-01 -1.799484e+00  9.551527e-01
## [13958,] -5.447433e-01 -1.146558e+00 -1.166350e+00  2.785733e+00
## [13959,]  1.337995e+00  1.222132e+00  1.004915e+00  7.612545e-01
## [13960,]  1.281000e+00  7.510091e-01  9.333636e-01  1.114140e+00
## [13961,] -1.051951e+00  9.408993e-01 -1.613680e+00  2.130491e-01
## [13962,] -1.481827e+00  9.743216e-01 -2.207365e-01  1.266049e+00
## [13963,]  1.314162e+00  7.257607e-01  8.747610e-01  1.087200e+00
## [13964,] -5.957177e-01 -3.776474e-01 -1.924865e+00  1.124635e+00
## [13965,]  3.472738e-01  2.136239e+00 -9.902145e-01  7.068920e-01
## [13966,] -5.309770e-01 -7.594121e-03 -8.048377e-01  3.397676e+00
## [13967,] -3.562200e-01  4.754984e-01 -9.104163e-01  1.612274e+00
## [13968,] -1.415754e+00  1.162734e+00  2.392262e-02  2.331042e+00
## [13969,]  5.326050e-01 -1.224919e+00  1.426165e+00  2.394644e+00
## [13970,]  7.525945e-01  2.786128e-01  1.102209e+00  2.874781e+00
## [13971,]  7.732922e-01  1.552973e+00  5.300868e-01  1.832575e+00
## [13972,] -2.290598e+00  6.616657e-01  9.487698e-01  3.055871e+00
## [13973,] -4.634322e-01  7.598256e-01 -1.703517e+00  1.128639e+00
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## [13975,] -1.552874e+00  1.988567e-02 -1.584416e+00  4.169655e-01
## [13976,] -5.746866e-01  7.609166e-01 -1.573503e-01  2.793294e+00
## [13977,]  1.257311e+00  1.589351e+00 -6.646477e-01  8.599868e-01
## [13978,]  4.367205e-01  1.029547e+00 -1.276368e-01  3.466723e-01
## [13979,] -2.281397e+00 -1.356464e-01 -1.695294e+00  7.410092e-01
## [13980,]  1.259377e-03  7.782301e-01  1.056512e+00  9.377908e-01
## [13981,] -3.455485e-01  6.385383e-01  2.830874e-01  1.697097e+00
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## [13983,]  8.869844e-02  1.325378e+00  8.326200e-01  1.228008e+00
## [13984,]  1.440435e+00  5.152853e-01 -4.415585e-01  1.185623e+00
## [13985,] -7.089032e-01  1.195248e+00  1.127330e+00  7.263282e-01
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## [13991,] -1.637996e+00  2.356177e+00 -6.072572e-01  9.926534e-01
## [13992,] -5.597561e-01 -7.294205e-01 -9.135341e-01  9.778735e-01
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## [13994,] -6.691248e-01 -6.290315e-01 -1.718144e-01  9.522026e-01
## [13995,]  1.234099e+00  1.698038e+00 -4.194893e-01  7.362423e-01
## [13996,]  2.394255e-01 -3.053152e-01 -3.250456e-02  1.373847e+00
## [13997,]  2.079482e-01  4.366189e-01 -4.351423e-01  1.372375e+00
## [13998,]  3.212654e-01  1.484069e-01  7.305512e-01  1.462756e+00
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## [14001,]  3.803601e-01 -7.730143e-02 -2.307704e-02  2.942463e-01
## [14002,]  1.379030e-01 -4.277089e-01  1.456400e-01  3.044670e+00
## [14003,] -8.025318e-01 -1.658525e-01  1.253271e+00  5.336596e-01
## [14004,]  2.168267e-01  8.844833e-02  1.503758e-01  1.120242e+00
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## [14008,]  1.151969e+00 -4.857745e-01  1.340498e+00  5.169478e-01
## [14009,] -1.494421e+00  1.207546e+00 -3.281422e-01  2.342009e+00
## [14010,]  3.116873e-01  8.885616e-01  1.442390e+00  1.038809e-02
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## [14013,] -2.966811e-01 -1.867732e-01 -6.514273e-01  1.725100e+00
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## [14019,]  8.700328e-03 -8.022170e-01  1.270272e+00  7.630337e-01
## [14020,] -3.158702e-02 -4.536506e-01  1.039876e+00  1.050949e+00
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## [14022,] -2.329191e-01  1.775829e+00  1.227934e+00  3.260392e-01
## [14023,]  7.088969e-01  3.986641e-01  8.944432e-01  1.191328e+00
## [14024,]  1.098266e-01  6.763000e-01  1.045232e+00  8.974067e-01
## [14025,] -1.038325e-01 -1.072644e+00  1.323866e+00  2.618662e+00
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## [14030,]  8.523489e-01  4.481627e-01 -1.810961e+00  1.141463e+00
## [14031,] -2.217842e+00  6.725412e-01 -1.838298e+00  1.301385e+00
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## [14033,]  9.130715e-01  2.498628e-01 -1.990990e-01  3.241540e+00
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## [14038,] -1.042064e+00  2.483857e+00 -2.660189e-01  4.618309e-01
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## [14040,] -1.544446e-01 -1.097862e+00 -1.942405e-02  2.450515e+00
## [14041,] -6.941799e-02 -5.838415e-01 -3.209070e-01  1.134018e+00
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## [14043,] -1.187941e+00 -1.211548e+00  4.025788e-01  3.743799e-01
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## [14063,] -1.124677e+00 -2.330211e-01  5.100058e-01  6.665125e-01
## [14064,]  9.264892e-02  1.384617e+00 -1.530177e+00  4.564013e-03
## [14065,]  3.114176e-01  2.737606e+00  3.611593e-01  1.983680e+00
## [14066,] -2.209853e+00  1.612791e-01 -1.598806e+00  7.631667e-01
## [14067,] -1.025802e+00 -6.609641e-01  9.367635e-01  8.149359e-01
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## [14069,] -2.349486e+00  7.021638e-01 -6.272719e-02  2.326932e+00
## [14070,] -2.314116e+00 -2.421514e-01 -3.127178e-02  6.903649e-01
## [14071,]  5.806703e-01  2.181278e+00 -6.224524e-02  6.700449e-01
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## [14078,] -1.550685e+00  7.318179e-01 -1.133484e-01  1.075306e+00
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## [14080,]  7.260452e-01  5.251397e-01 -1.357183e+00  1.116285e+00
## [14081,] -1.534085e-01 -1.023936e+00 -1.642182e-01  8.818977e-01
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## [14092,]  1.079760e+00  1.100314e+00  2.689555e-01  2.022024e+00
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## [14098,] -5.203594e-02 -8.838596e-01  1.269439e+00  6.378618e-01
## [14099,] -2.127915e-01 -1.106782e+00  3.687996e-02  2.315287e+00
## [14100,] -6.012191e-01 -7.681699e-01 -4.267005e-01  8.704025e-01
## [14101,] -2.027077e-01 -6.094056e-01  1.526878e+00  9.739018e-02
## [14102,] -1.203434e-01  1.699431e-01 -4.503632e-01  6.654881e-01
## [14103,] -1.257282e+00  8.007594e-01 -5.103500e-01  1.333472e+00
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## [14105,] -7.312450e-01  1.010659e+00  1.177803e+00 -7.725369e-01
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## [14111,]  1.339101e+00 -2.600015e-02  1.001107e+00  8.970879e-01
## [14112,]  3.225016e-01 -8.350242e-02  6.429190e-01  2.014138e+00
## [14113,]  1.263040e+00 -6.074339e-01  1.236646e+00  1.234777e+00
## [14114,]  2.486829e-01 -2.630199e-01 -1.504714e+00 -6.520006e-02
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## [14123,]  3.624729e-01  8.331355e-01 -7.935450e-02 -9.947152e-01
## [14124,] -8.931522e-01  2.816047e+00 -3.885915e-01  1.034954e+00
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## [14126,]  1.175242e+00  2.461851e-03  1.489184e+00  9.460592e-01
## [14127,] -7.917731e-01  1.346914e+00  2.926565e-01  1.158069e+00
## [14128,] -5.920634e-01  7.065750e-01 -1.292573e+00 -2.774211e-01
## [14129,]  4.600659e-01  1.240359e-01 -1.631734e-01 -8.785894e-01
## [14130,]  6.418838e-01 -5.551578e-01  1.105301e+00 -4.769851e-01
## [14131,]  7.174117e-02 -4.804005e-01  5.462451e-01 -1.095344e-01
## [14132,] -1.738289e-02 -3.503144e-01  1.228775e+00 -7.561013e-01
## [14133,] -2.011066e+00  4.823690e-01 -3.497110e-01 -1.868754e-01
## [14134,]  8.061159e-01  5.245277e-01  9.874306e-01 -4.814796e-01
## [14135,] -4.546548e-01  4.292667e-01  4.900042e-01 -4.096341e-01
## [14136,]  1.216013e-01  1.512982e+00 -5.715735e-01  1.407801e+00
## [14137,]  1.460699e+00  1.418608e+00 -5.968977e-01 -5.234470e-01
## [14138,] -3.363029e-01 -2.824603e-01  7.399254e-01  1.894871e+00
## [14139,]  3.066944e-01  2.505548e-01 -8.975579e-01  6.588801e-02
## [14140,]  3.970316e-01 -2.975947e-01  6.739961e-01  1.919743e+00
## [14141,] -1.837037e+00  7.587916e-01  1.855409e-01  1.757695e+00
## [14142,]  6.671487e-01 -2.353251e-01  2.916688e-01 -6.337731e-01
## [14143,]  1.621723e-01 -9.736798e-01 -5.424188e-01 -2.528234e-01
## [14144,]  1.382939e+00  1.133187e+00 -9.603679e-01 -1.724833e-01
## [14145,] -1.476438e+00  1.631374e+00 -1.192531e+00  9.194026e-01
## [14146,] -3.210038e-03  2.786117e-01  6.570718e-01 -8.090749e-01
## [14147,] -6.366809e-01  5.722498e-01  1.183467e+00  1.144693e+00
## [14148,]  7.452817e-01 -9.043873e-01  9.384403e-01 -3.969205e-01
## [14149,]  6.320953e-01 -4.958418e-01 -1.262527e+00 -5.487084e-01
## [14150,]  1.301017e+00  3.477139e-01 -1.509250e+00  7.752088e-01
## [14151,]  5.058118e-01  1.213614e+00 -1.848819e+00 -6.695283e-01
## [14152,] -4.260931e-02  1.370135e+00  9.231529e-01  1.655995e+00
## [14153,] -7.510462e-01  1.992410e-01  1.169982e+00  1.387685e+00
## [14154,] -1.151366e+00 -9.037735e-01 -5.068632e-01  6.719196e-02
## [14155,] -1.417958e+00 -5.889215e-01  1.255681e+00  1.260086e+00
## [14156,] -3.581889e-01 -7.191518e-01 -1.572366e+00  3.818544e-01
## [14157,] -1.109055e+00  1.960442e-01  4.777259e-01  2.509377e-01
## [14158,]  4.986053e-01 -1.102996e+00 -1.424774e+00 -1.089602e+00
## [14159,]  9.052033e-02 -3.771685e-01 -1.673449e+00 -3.705698e-01
## [14160,] -2.913917e+00 -3.292014e-02  1.294205e+00  1.062464e+00
## [14161,] -2.129089e-02  1.029326e+00  1.131087e+00 -7.548580e-01
## [14162,] -1.591122e+00 -2.995860e-01  1.391781e+00 -9.617987e-01
## [14163,] -2.440416e+00  3.146751e-01  4.019366e-02 -1.015087e+00
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## [14165,]  1.721455e-01  5.774652e-01 -2.321296e-01  1.759082e+00
## [14166,]  1.312753e+00 -2.812000e-01 -1.016208e+00 -3.533561e-01
## [14167,] -1.552579e+00  6.014899e-01  1.739026e-01 -7.969358e-01
## [14168,]  3.035679e-01  5.500872e+00 -1.166662e+00  2.615410e-01
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## [14171,]  7.492261e-01 -6.581713e-01 -2.168221e-01 -2.800870e-01
## [14172,] -1.599848e+00 -5.173522e-02 -1.248001e+00  1.133018e+00
## [14173,] -1.579435e+00  2.167997e-01 -1.288317e+00  1.317085e+00
## [14174,] -6.951895e-01  7.686726e-01  1.196335e+00 -8.150472e-01
## [14175,] -8.797228e-01  2.747588e-01  5.364478e-02 -9.723857e-01
## [14176,]  5.079133e-01 -2.277345e-01  1.185432e+00 -7.450545e-01
## [14177,]  5.219510e-01  1.301313e+00  7.392104e-01 -5.846461e-01
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## [14179,]  2.801213e-01 -3.886460e-01  9.420550e-01 -1.980294e-01
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## [14182,] -1.844045e-02  1.533572e-01 -3.803666e-01 -2.655143e-01
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## [14184,] -1.215396e+00 -1.570911e+00 -2.985080e-01 -2.341791e-01
## [14185,]  6.891122e-01 -4.162597e-01 -1.776496e+00  1.402154e+00
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## [14187,]  5.995875e-02  6.101305e-01 -3.010737e-01 -5.247328e-01
## [14188,]  1.327421e+00  2.861784e-01 -8.549709e-01 -3.800552e-01
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## [14190,]  6.009682e-01  4.878180e-02  1.011299e+00 -4.808270e-01
## [14191,]  1.380195e-01 -8.175186e-01 -2.015112e+00 -5.960577e-02
## [14192,] -1.265620e+00  1.115390e+00  1.020556e+00 -4.463132e-01
## [14193,] -7.068321e-01  1.100745e+00 -2.689504e-01  1.105900e+00
## [14194,]  7.441369e-01 -3.545051e-01 -5.258866e-01  1.560131e+00
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##  [14197,] -1.651249e+00  1.668028e+00  1.047486e+00 -5.485794e-01
##  [14198,] -7.035207e-01  8.509664e-01  9.246839e-01 -2.398764e-01
##  [14199,]  9.281028e-01 -3.878131e-01  6.912110e-01  2.436535e-01
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##  [14201,] -4.754646e-01  6.622773e-02  1.131869e+00 -5.002951e-01
##  [14202,]  5.939241e-01 -7.440488e-01 -1.432036e-01 -6.310034e-01
##  [14203,]  7.437329e-01  1.505854e-01 -1.320284e-01  1.659446e+00
##  [14204,] -8.457139e-02 -8.671804e-01 -1.260526e-01 -5.587430e-01
##  [14205,]  7.661080e-01 -2.180464e-01  4.362299e-01 -2.645674e-01
##  [14206,]  6.208285e-01 -1.068254e+00  1.859744e-03 -6.391707e-01
##  [14207,]  6.821928e-01  1.409927e+00 -5.338241e-01 -3.972219e-01
##  [14208,] -5.740536e-01 -1.165031e-01 -1.899619e+00  1.768035e+00
##  [14209,] -7.432256e-01  8.497708e-01  1.066595e+00 -5.719909e-01
##  [14210,] -6.516607e-01  1.309560e+00 -2.778346e-01  1.143280e+00
##  [14211,]  8.931777e-01  9.137659e-01 -1.475485e+00 -3.053415e-01
##  [14212,]  7.257938e-01 -1.227395e+00 -1.271477e-02 -8.100107e-01
##  [14213,]  3.712004e-01  1.721320e-01  6.728443e-01  2.414631e-01
##  [14214,]  2.927741e-01 -5.971564e-01  8.209605e-01  6.891071e-02
##  [14215,] -1.136638e+00 -4.334700e-01  3.928724e-01  5.174967e-01
##  [14216,] -2.289719e+00 -2.320670e-01  1.317430e+00  1.132091e+00
##  [14217,]  6.681460e-01  5.373993e-01  1.025156e+00 -4.969740e-01
##  [14218,] -1.405903e+00 -1.288931e+00  1.024373e+00  1.715123e+00
##  [14219,]  7.663695e-02 -2.808463e-01 -4.514912e-01 -4.923274e-01
##  [14220,]  5.847327e-01 -1.286591e+00  8.351313e-02 -7.546547e-01
##  [14221,]  7.635206e-01 -3.723563e-01 -3.236753e-01  1.647293e+00
##  [14222,]  6.055787e-01 -1.207674e+00 -1.439952e+00 -7.246570e-01
##  [14223,]  7.345262e-01 -4.259445e-01  1.192844e+00  1.448879e+00
##  [14224,]  1.754135e-01 -3.377127e-01  8.588716e-01 -6.713455e-02
##  [14225,] -1.427633e+00  1.449763e+00 -4.946779e-01 -1.212294e-01
##  [14226,]  1.049761e+00  6.193249e-01  7.437563e-01  9.037340e-02
##  [14227,]  1.055596e+00  3.039299e+00  7.662183e-02 -8.946164e-01
##  [14228,] -1.243104e+00 -3.374705e-01 -3.096464e-01 -1.282795e-01
##  [14229,] -1.946100e+00  6.472773e-02 -1.905790e+00 -5.114650e-03
##  [14230,]  2.024560e-01 -6.307175e-01  5.176104e-01 -2.960002e-01
##  [14231,] -2.197306e+00  8.814908e-01 -2.486052e-01 -3.810751e-01
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##  [14234,] -1.703097e+00 -4.775150e-03  5.354900e-02 -9.069650e-01
##  [14235,]  6.803308e-01 -2.821978e-01  1.341039e-01 -3.770824e-01
##  [14236,] -1.546935e+00  1.196091e+00 -9.145914e-01 -3.748365e-01
##  [14237,] -4.890191e-01  3.520397e-01  6.914156e-01 -3.968171e-01
##  [14238,]  7.439024e-01  7.813799e-01  9.043517e-01 -1.983880e-01
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##  [14246,] -5.471380e-01 -7.712171e-02 -3.367357e-01 -3.985201e-01
##  [14247,] -8.702147e-01 -1.464256e+00  1.313379e+00 -6.930176e-01
##  [14248,]  4.123503e-01 -2.258560e-01 -2.246497e+00  2.286143e-01
##  [14249,]  4.905109e-02 -4.970789e-04  8.484355e-01 -9.097180e-02
##  [14250,] -2.251915e+00  1.243728e+00 -4.054514e-01  1.379751e+00
##  [14251,] -2.312380e+00  1.865415e+00 -1.901877e-01  1.337977e+00
##  [14252,] -1.470022e+00  5.477587e-01 -1.749343e-01 -8.293525e-01
##  [14253,]  6.684064e-01  7.300923e-01 -1.892503e+00 -4.586546e-01
##  [14254,]  6.961423e-01 -4.676865e-01 -2.946110e-01 -3.567159e-01
##  [14255,]  1.559241e+00  1.109167e+00  1.059506e+00  1.526538e+00
##  [14256,]  9.630210e-01  4.833659e-02 -9.852095e-02 -2.296436e-01
##  [14257,] -1.480207e+00 -1.359792e+00 -1.083338e+00  1.572455e+00
##  [14258,] -2.101747e-01  1.080723e+00  1.466334e+00 -1.240428e+00
##  [14259,] -7.661453e-01 -5.660013e-01  1.457609e+00  1.022808e+00
##  [14260,]  2.130631e-02 -1.672745e+00 -1.374495e+00  1.148857e+00
##  [14261,]  7.665498e-01  1.581859e+00  1.432823e+00  4.546814e-01
##  [14262,]  1.910311e-01  1.820122e-01  8.451648e-01 -8.339917e-02
##  [14263,] -5.859825e-01 -7.754187e-01  9.426602e-01 -1.326289e-01
##  [14264,] -1.237066e+00 -3.447718e-01 -3.254646e-02 -5.970944e-01
##  [14265,]  1.293640e+00 -7.408619e-01  1.097126e+00 -4.126988e-01
##  [14266,]  7.393309e-02  3.645954e-01  4.341670e-02 -2.661451e-01
##  [14267,] -1.718272e+00  6.661059e-01  9.653343e-01 -4.485841e-01
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##  [14270,] -6.349056e-01  7.298406e-01  1.042941e+00 -5.559796e-01
##  [14271,]  1.470627e+00  8.343127e-02  5.191471e-01 -4.376601e-02
##  [14272,] -6.267717e-01  1.768344e-01 -1.765410e+00 -3.947299e-01
##  [14273,]  1.225547e-01  9.962657e-01  1.217689e-01  1.523232e+00
##  [14274,]  1.342389e+00 -7.987230e-01  1.249597e+00 -6.606374e-01
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##  [14278,]  2.715536e-01  1.393194e-01 -7.508054e-01 -6.277533e-02
##  [14279,]  1.356650e+00 -3.321854e-01 -1.599006e+00 -6.213944e-01
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##  [14285,]  7.528882e-01  2.757232e-01  1.130353e+00 -5.649103e-01
##  [14286,] -2.388796e+00  9.139640e-03  1.103578e-01 -8.933254e-01
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##  [14295,] -1.573808e+00  2.397235e+00  1.406182e+00  7.590477e-01
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##  [14297,] -2.244109e+00  1.340142e+00 -3.383674e-01 -3.548427e-01
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##  [14299,]  7.379554e-01 -8.707601e-01 -1.707843e-01 -5.259235e-01
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##  [14301,]  1.261381e+00 -7.368870e-01 -1.505551e+00  1.269566e+00
##  [14302,]  3.039231e-01 -3.671279e-01 -7.641052e-02  1.658503e+00
##  [14303,] -9.417457e-01 -5.790954e-01  4.093243e-01 -7.887780e-01
##  [14304,]  3.332032e-01 -3.060679e-01  8.903493e-01 -6.944146e-02
##  [14305,] -7.141420e-01  1.376287e+00  8.661592e-01 -3.811306e-01
##  [14306,]  1.260715e+00  6.720779e-01  8.126151e-01  1.198369e+00
##  [14307,]  7.550058e-01  1.942983e+00  7.747042e-01  4.250632e-02
##  [14308,] -4.665731e-01 -1.538279e-01 -5.423271e-01  5.475781e-03
##  [14309,]  1.028673e+00 -1.073207e-02 -1.247112e+00 -5.127017e-02
##  [14310,] -1.120170e-01  7.200954e-02 -1.236733e+00 -9.120325e-01
##  [14311,] -1.631865e+00 -2.175235e-01  1.277168e+00 -7.275087e-01
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##  [14316,] -2.191996e-01  2.153236e-01 -2.020897e+00  2.175230e+00
##  [14317,] -5.399224e-01  1.169857e+00 -7.540061e-01 -1.152244e-01
##  [14318,]  7.246631e-01 -1.598172e-01  3.233994e-01 -3.695704e-01
##  [14319,] -2.575653e+00 -2.230473e-01 -1.839903e+00 -6.233029e-02
##  [14320,]  2.828944e-01 -6.787416e-01  2.341604e-01  1.745304e+00
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##  [14322,]  6.718834e-01 -5.477918e-02 -3.252093e-01 -3.638320e-01
##  [14323,] -4.622192e-01  1.303673e-01 -2.051962e+00 -4.095293e-02
##  [14324,]  1.025952e+00  5.978087e-01 -3.986943e-01 -2.795205e-02
##  [14325,]  4.709666e-01  4.216702e-01 -2.628620e-01 -8.678230e-01
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##  [14328,] -3.626597e-01  1.375615e+00  1.342104e-01 -2.949197e-01
##  [14329,] -1.917432e-02  4.676884e+00  1.170413e+00 -6.865066e-01
##  [14330,]  1.446275e-01 -4.075131e-01 -9.034431e-02 -2.032288e-01
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##  [14335,]  1.770992e-01 -3.960913e-01  1.222580e+00  1.354616e+00
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## [14403,]  1.616003e-01 -4.102223e-01 -1.789281e-01 -3.850708e-01
## [14404,]  7.879291e-02 -1.105485e+00 -3.238435e-01  1.261735e+00
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## [14425,] -4.544157e-01  1.521676e+00 -5.656326e-01  1.737221e+00
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##  [14504,] -2.602369e+00 -5.074206e-01 -2.885444e-01 -3.206591e-01
##  [14505,]  3.116422e-01 -4.714292e-01 -7.131706e-01 -4.129787e-02
##  [14506,]  4.810625e-01  9.801414e-01  1.089572e+00 -7.662708e-01
##  [14507,]  7.843053e-02 -4.770118e-01 -4.526821e-01 -9.515296e-02
##  [14508,]  7.175694e-01 -4.707373e-01 -1.876430e+00 -3.650446e-01
##  [14509,]  7.967361e-01 -1.264038e-01 -1.961243e+00 -2.440044e-01
##  [14510,] -1.984477e+00  5.018212e-01 -4.908344e-01  1.349986e+00
##  [14511,]  9.972046e-02 -4.029229e-01 -5.933917e-01 -3.165414e-01
##  [14512,] -7.066944e-01 -1.041051e+00 -2.992886e-01 -3.127788e-01
##  [14513,]  8.352543e-01 -1.003234e+00 -1.716302e+00 -5.859212e-01
##  [14514,]  1.608986e+00  2.342872e-01 -6.530322e-01 -2.976789e-01
##  [14515,] -1.715183e+00  8.420542e-01 -2.040018e-01  2.186277e-01
##  [14516,] -5.066606e-01 -1.347398e+00  1.114194e+00 -2.569626e-01
##  [14517,]  7.299589e-01  6.048402e-01 -3.677692e-01 -5.986330e-01
##  [14518,]  6.483433e-01  1.098544e+00 -3.798458e-01 -4.863881e-01
##  [14519,]  8.191026e-01 -1.209873e-01 -6.896645e-01  1.692553e+00
##  [14520,]  1.041332e+00 -2.457445e-03 -1.200317e+00 -1.004455e+00
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##  [14523,] -1.265245e+00 -1.820604e+00 -1.908143e-01 -3.341480e-01
##  [14524,] -6.518170e-01  1.384704e+00 -1.472409e-01 -7.739166e-01
##  [14525,] -1.074250e-02  1.887287e-01  1.478929e+00 -1.192602e+00
##  [14526,] -4.800342e-01 -1.504855e+00 -1.745752e+00 -4.807061e-01
##  [14527,]  6.916061e-01  4.394413e-01  4.638618e-01 -7.088313e-01
##  [14528,] -2.113873e+00 -3.814168e-01 -1.507887e-01 -3.426140e-01
##  [14529,]  8.670558e-01 -9.071932e-01 -2.212448e-01 -4.356741e-01
##  [14530,]  6.984380e-01 -5.480484e-01 -9.653500e-01 -3.916846e-01
##  [14531,] -3.742056e-01  7.006441e-01  9.128692e-01 -1.782684e-01
##  [14532,]  1.445043e+00 -3.233285e-01 -1.186141e+00 -3.899022e-01
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##  [14534,]  7.832165e-01  5.084369e-01  4.791754e-01 -1.261309e-01
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##  [14537,] -2.579419e+00 -7.248279e-01 -2.981414e-01 -1.984137e-01
##  [14538,] -1.294234e-02 -1.414096e+00 -1.057076e+00 -7.309892e-01
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##  [14550,]  7.596732e-01  1.003706e+00 -1.452501e+00 -6.368555e-01
##  [14551,] -5.887007e-01 -6.095470e-01  1.155409e+00  1.653760e+00
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##  [14554,] -9.368173e-02 -6.280943e-01  3.284921e-01 -5.710904e-01
##  [14555,] -1.789677e-01 -4.355469e-01 -2.813519e-01  1.074267e+00
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##  [14558,]  1.010068e-01  9.407414e-01 -4.571168e-01 -2.867109e-01
##  [14559,]  7.183809e-01  4.461418e-01 -1.060586e-01 -3.218985e-01
##  [14560,]  2.203545e-01  9.404207e-01 -8.193609e-01  1.862253e+00
##  [14561,]  9.300757e-01  5.112082e-02  1.010470e+00 -2.798499e-01
##  [14562,]  4.752355e-01 -8.629920e-01  1.415534e+00 -9.360416e-01
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##  [14564,] -2.016247e+00  1.004793e+00  8.333489e-01 -4.570132e-01
##  [14565,] -7.060615e-02 -5.287608e-01 -1.138366e+00 -1.123211e+00
##  [14566,] -6.101722e-01 -1.047806e-01 -3.319988e-01 -7.800028e-01
##  [14567,] -7.081739e-01 -8.246892e-01 -2.036311e+00  2.645096e-02
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##  [14569,]  9.789687e-01  8.197052e-01  1.318755e+00 -9.967229e-01
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##  [14586,] -4.429821e-01 -1.334432e+00 -3.333197e-01 -1.068636e-01
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## [14587,] -7.471833e-01  3.559244e-01  1.230274e+00 -6.729223e-01
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## [14589,] -1.607478e+00  9.391751e-01  9.906871e-01 -4.521956e-01
## [14590,] -6.830104e-01 -7.710187e-01 -2.000575e-01 -2.141910e-01
## [14591,]  1.744122e-01 -1.082442e+00 -2.800438e-01  1.503455e+00
## [14592,]  9.260014e-01  1.796377e-01  2.717264e-03 -1.718380e-01
## [14593,] -1.200746e+00  8.856204e-01  8.429498e-01  8.481436e-02
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## [14595,]  2.440357e-01 -1.781220e-01 -3.580505e-01 -2.816574e-01
## [14596,]  6.208461e-01 -4.311224e-01  1.195265e+00  1.313350e+00
## [14597,] -1.832677e+00  4.509426e-01 -2.526985e-01  3.518140e-01
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## [14603,] -4.241771e-01 -2.808423e-01 -1.745576e+00  1.639323e+00
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## [14605,]  6.272693e-01  2.220546e-01  1.024305e+00 -4.210648e-01
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## [14610,]  1.639597e-01 -9.402532e-01  1.165960e+00 -5.451106e-01
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## [14616,]  1.160493e-02 -3.876574e-01  1.353812e+00  9.834803e-01
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## [14619,] -5.689340e-01 -1.481101e+00  1.201573e+00 -4.198493e-01
## [14620,]  8.854155e-02 -8.273021e-01 -1.788377e+00 -5.234345e-01
## [14621,]  6.078273e-01 -2.870939e-01 -6.155764e-02  1.268343e+00
## [14622,] -3.355617e+00  7.774027e-01 -7.941724e-01  1.044035e+00
## [14623,] -5.189405e-01  1.383351e+00 -5.986390e-01  8.259626e-03
## [14624,]  1.403614e+00 -7.131088e-01 -1.158451e+00 -4.020421e-01
## [14625,] -2.662410e+00 -1.512068e-01 -1.547282e+00 -5.093716e-01
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## [14637,] -2.708482e+00  1.446910e+00 -1.201425e+00 -5.470797e-01
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## [14640,]  7.515671e-02 -1.318413e+00 -1.991133e-02  1.164346e+00
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## [14693,]  9.339646e-01  5.195000e-01 -1.317759e+00  2.727613e-01
## [14694,]  2.881822e-01  3.015004e-01 -7.761804e-01  4.335033e-01
## [14695,] -1.067637e-01 -2.907629e-01 -1.327954e+00 -8.065406e-01
## [14696,]  5.887292e-01  4.314191e-02 -1.738036e+00 -6.299309e-01
## [14697,]  9.761312e-01  1.075051e+00 -4.825828e-01 -6.204427e-02
## [14698,] -4.830096e-01 -3.951224e-01 -3.946455e-01 -3.290161e-01
## [14699,]  1.357648e-01  1.357825e+00 -5.927830e-01  1.557114e+00
## [14700,] -8.188596e-01 -1.081025e+00 -1.269167e-01  1.311408e+00
## [14701,] -1.907767e-01  5.274674e-01 -2.217041e-01 -6.332443e-01
## [14702,]  1.998125e-01  3.950146e-01 -1.678119e+00 -2.095973e-01
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## [14704,]  7.178892e-01  4.464227e-01 -1.724032e+00 -3.736616e-01
## [14705,] -4.223052e-01  1.238543e+00  3.448036e-02 -1.378048e+00
## [14706,]  1.171869e+00  4.730324e-01 -4.574371e-01  3.380053e-01
## [14707,]  1.135803e-01  1.407472e-01 -5.818917e-01 -2.893806e-01
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## [14727,] -7.194484e-01  1.660944e+00  3.710580e-01  9.199802e-01
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## [14729,] -1.773546e+00  1.444848e+00  4.935422e-01 -8.800712e-01
## [14730,]  1.406863e+00  1.741190e-01 -1.960944e-01 -7.342756e-02
## [14731,] -6.295237e-01  1.398815e+00 -5.707158e-01 -3.392496e-01
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## [14785,]  4.524151e-02 -1.697597e+00  1.016531e-01  1.124844e+00
## [14786,]  2.592560e-01 -2.520417e-01 -2.054441e+00 -5.248436e-02
## [14787,]  4.949615e-01  6.131906e-01 -1.800968e+00  2.159275e+00
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## [14792,] -9.127888e-01 -1.011927e+00 -1.416226e+00 -4.728245e-01
## [14793,] -2.996567e+00  4.098583e-01  1.197432e+00 -1.045167e+00
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## [14800,]  1.215689e+00  1.921518e-01 -1.326617e+00 -5.357051e-01
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## [14802,]  3.707074e-01  4.066978e-01 -2.023756e+00  1.815855e-01
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## [14812,]  3.493789e-01 -5.179229e-01 -5.609465e-01  9.743482e-02
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## [14837,]  2.515610e-01  4.469773e-01 -1.991694e-01 -7.162037e-02
## [14838,] -1.865860e+00 -1.095367e+00 -1.412578e+00  2.138028e+00
## [14839,] -1.219047e+00 -7.184107e-01 -6.779792e-01  3.830915e-01
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## [14862,]  4.082173e-01 -3.853721e-01 -5.470513e-01  9.274163e-02
## [14863,] -2.893902e+00 -3.809653e-01 -2.906956e-01  1.873375e-01
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##  [14883,] -3.422658e-01 -5.986508e-01 -1.447095e+00  2.053398e+00
##  [14884,] -9.713015e-01  6.571216e-01  1.058903e+00 -6.491347e-01
##  [14885,]  1.071263e-01  2.813090e+00 -3.013253e-01 -6.840409e-01
##  [14886,]  7.324713e-01 -5.644534e-01 -1.562511e+00 -3.181493e-01
##  [14887,]  5.225860e-01  2.689637e-01 -1.654239e+00 -8.625935e-01
##  [14888,]  1.531068e-01 -1.222887e+00  9.420054e-01 -3.609446e-01
##  [14889,]  6.610357e-01  1.782030e+00 -1.338337e+00 -3.224396e-01
##  [14890,]  9.348607e-01 -4.799683e-02 -1.959269e+00 -3.249646e-01
##  [14891,]  5.546900e-01 -1.013938e+00 -1.569420e+00 -8.326018e-01
##  [14892,]  7.774559e-01 -4.303155e-01  1.223537e+00  1.253937e+00
##  [14893,] -1.419659e+00  1.566617e+00  3.835409e-01 -3.120802e-01
##  [14894,]  8.706073e-01  1.920905e-02 -6.187555e-01 -3.434280e-01
##  [14895,]  8.002302e-01  9.410044e-02  8.303263e-01 -2.189646e-02
##  [14896,] -4.419069e-01  3.772835e-01 -1.164778e+00  8.156852e-01
##  [14897,]  3.656728e-01 -6.251102e-01  2.215129e-01 -1.288955e+00
##  [14898,]  7.410883e-01 -7.512517e-01  9.729903e-01 -2.495457e-01
##  [14899,]  6.434719e-01 -5.272249e-01 -2.767811e-01 -5.249374e-01
##  [14900,] -1.390758e+00  3.301122e-01 -1.362833e-01 -7.026469e-01
##  [14901,] -2.014209e+00  2.687780e-01 -1.634022e+00 -5.953691e-01
##  [14902,]  1.796291e-01  9.426461e-01 -5.556364e-01 -9.728588e-02
##  [14903,]  5.654832e-01 -9.128294e-01  1.357382e+00 -8.310868e-01
##  [14904,]  7.584883e-01  3.106978e-01 -1.847341e+00 -2.603603e-01
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##  [14908,]  1.164176e+00  6.591021e-01 -1.580584e+00 -8.275549e-01
##  [14909,]  2.113051e-01  1.109184e-01 -7.063277e-01 -1.095559e-01
##  [14910,]  1.246170e-01 -5.223181e-01  8.139497e-01  3.205722e-02
##  [14911,]  6.130095e-01 -3.033498e-01 -2.116429e-01 -6.269828e-01
##  [14912,]  5.232735e-02 -8.847385e-01 -3.391776e-01 -2.158502e-01
##  [14913,]  3.605032e-01  1.656428e-01 -7.186559e-01  3.169392e-02
##  [14914,]  8.356457e-01 -6.300397e-01  1.066158e+00  1.588081e+00
##  [14915,]  1.625017e+00  1.490132e+00  8.482253e-01 -9.663628e-02
##  [14916,] -2.024305e-02 -3.173540e-01  3.310003e-01  1.516575e+00
##  [14917,] -1.352908e+00  1.927333e+00  8.687632e-02  1.040182e+00
##  [14918,]  5.765823e-01  5.775857e-03 -3.700351e-01 -7.419523e-01
##  [14919,]  1.622918e-01 -7.367001e-01 -1.520912e+00  1.612677e+00
##  [14920,] -1.993892e+00  1.538544e+00 -3.179783e-01 -3.739484e-01
##  [14921,]  6.142932e-01 -4.898757e-01  1.545264e+00  7.262400e-01
##  [14922,]  6.341013e-01 -6.242958e-01 -4.290522e-01 -5.642326e-01
##  [14923,]  6.030043e-01 -5.884875e-01 -1.495939e+00 -7.547061e-01
##  [14924,] -7.590804e-01 -1.386143e+00  1.207582e+00  1.422766e+00
##  [14925,]  7.108885e-01 -4.804728e-01 -1.818422e-01 -5.470543e-01
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##  [14929,]  5.193149e-01 -1.163326e+00  1.700271e+00  4.361781e-01
##  [14930,]  8.207419e-02 -1.607129e+00  1.344027e+00  1.162524e+00
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##  [14934,]  8.954301e-01  2.203624e+00 -3.458088e-01 -1.189540e+00
##  [14935,]  2.925146e-02 -1.557339e+00  4.295836e-01  9.795284e-01
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##  [14938,]  6.545175e-01 -9.208310e-01 -7.427409e-02 -7.276122e-01
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##  [14942,]  5.740882e-01  1.042477e-01  1.071816e+00 -5.509297e-01
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##  [14970,]  1.317067e+00 -3.625513e-01 -1.002794e-01 -5.687364e-01
##  [14971,]  2.384273e-01 -2.219843e-03  4.052293e-01 -1.402811e-01
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##  [14975,]  3.803419e-01  5.935327e-01 -1.384475e+00 -1.238844e+00
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## [14986,] -2.595339e+00  1.014089e+00 -1.816847e+00  4.764230e-02
## [14987,]  1.162850e+00  1.733289e-01 -1.612879e+00 -6.751188e-01
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## [14989,]  7.932317e-01 -1.253301e-01  2.514780e-01  1.736852e+00
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## [14992,]  7.645196e-01 -2.869769e-01 -8.549764e-02 -6.401548e-01
## [14993,] -1.161119e+00  5.093006e-01 -2.678705e-01 -3.032578e-01
## [14994,] -3.247765e+00 -1.282475e+00 -1.034188e-01 -4.539447e-01
## [14995,] -7.843431e-01 -8.118489e-01  9.382148e-01 -7.687115e-02
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## [14998,] -2.669194e-01  1.391771e+00 -1.504658e+00 -1.005163e+00
## [14999,]  1.070335e-01  3.590475e-01  9.083921e-01  2.818689e-02
## [15000,] -7.406264e-01  4.609864e-01 -6.970708e-02 -8.771016e-01
## [15001,] -1.933313e+00 -3.372217e-01 -4.992277e-01  3.545980e-02
## [15002,]  5.015260e-01 -1.224301e+00 -5.129938e-01  4.424662e-01
## [15003,] -1.141687e+00  2.982888e-01  9.854542e-01  1.605038e+00
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## [15010,]  3.777973e-01 -3.547835e-01 -4.879280e-01  1.435745e-02
## [15011,] -2.334876e-01  2.248845e-01  1.036913e-01 -7.728887e-01
## [15012,] -1.759561e+00 -1.298915e-01  1.250011e+00 -6.872931e-01
## [15013,]  1.399275e+00  7.850794e-01 -1.810069e+00 -2.036735e-01
## [15014,] -1.960027e-01 -7.519518e-02  1.511065e-01 -7.374607e-01
## [15015,] -2.335129e+00  9.269806e-01 -2.351608e-01  1.133327e+00
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## [15017,]  2.809046e-01 -4.426063e-01  8.272543e-01  5.453624e-02
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## [15021,]  5.333368e-01  2.728943e-01  1.124066e+00 -6.372403e-01
## [15022,]  5.683040e-01 -1.207065e-01 -7.181207e-02 -6.613034e-01
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## [15069,]  1.655831e+00  1.189002e+00  2.412706e-01 -4.662837e-02
## [15070,]  1.699700e+00  1.455223e+00  7.991103e-01  6.505346e-02
## [15071,]  1.412283e-01 -4.233146e-01 -2.750614e-01 -4.056278e-01
## [15072,]  1.277211e+00 -8.839496e-01  1.106185e+00 -4.585784e-01
## [15073,]  7.600283e-01  6.593640e-01  1.045524e+00 -4.933344e-01
## [15074,]  9.509744e-01  4.577445e-01  9.856479e-02 -1.366801e+00
## [15075,]  9.781712e-01  1.965425e+00 -2.020794e-01  8.271745e-01
## [15076,]  1.295233e+00 -1.948837e-01  1.056607e+00 -4.631616e-01
```

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##  [15077,] -8.782635e-01  1.857206e+00 -1.874590e+00 -3.719423e-01
##  [15078,]  1.232101e+00  8.359703e-02 -1.854881e+00 -5.276787e-01
##  [15079,] -2.839985e+00  2.338771e-02  1.424719e+00  8.442789e-01
##  [15080,]  1.080510e+00  4.878335e-01  2.558124e-01 -7.842824e-01
##  [15081,]  1.222111e+00 -1.060458e-01 -6.077942e-02  1.090180e+00
##  [15082,] -2.912258e+00 -8.349637e-02 -1.314229e+00 -1.077939e+00
##  [15083,]  1.485836e+00 -1.295377e-01  1.067521e+00 -5.647762e-01
##  [15084,]  1.482536e+00 -8.734144e-02 -7.390469e-01 -1.335945e-01
##  [15085,]  1.302940e+00  1.470039e+00  6.315647e-01  9.966117e-01
##  [15086,]  1.243250e+00  4.414190e-01  1.192742e+00  1.215620e+00
##  [15087,]  1.747861e+00  8.055203e-01 -1.474590e-01  1.086110e-01
##  [15088,]  1.310635e+00 -1.626429e-01 -1.540533e+00  1.313023e+00
##  [15089,]  1.106912e+00 -9.015857e-01  1.236919e+00  9.462177e-01
##  [15090,]  1.477708e+00 -5.040567e-01 -6.790039e-02  1.160819e+00
##  [15091,]  1.145294e+00 -1.031607e+00  1.427617e+00 -1.020506e+00
##  [15092,]  1.322946e+00 -2.858803e-01  3.383030e-01 -4.321994e-01
##  [15093,]  1.084086e+00  2.413602e+00 -3.509665e-01 -8.055566e-01
##  [15094,] -3.007104e+00  4.520612e-01 -9.207924e-01 -1.229356e+00
##  [15095,]  1.361283e+00 -2.830739e-01 -1.443868e+00  1.365738e+00
##  [15096,]  1.561663e+00  5.147921e-01  9.572305e-01 -3.301941e-01
##  [15097,]  4.433423e-01  4.089460e+00  1.314211e+00  1.249721e+00
##  [15098,]  1.259724e+00  1.439495e-01  3.768826e-03 -1.154710e+00
##  [15099,]  1.501322e+00  4.779599e-02  1.100724e+00  1.321206e+00
##  [15100,] -2.674839e+00  2.370645e-02 -6.517778e-01 -3.424432e-01
##  [15101,]  9.411756e-01  8.604520e-01 -2.159009e-01 -1.134976e+00
##  [15102,] -2.166334e+00 -8.086045e-01  1.018056e+00 -4.833577e-01
##  [15103,]  1.232922e+00  6.491068e-01  1.015546e+00 -4.029367e-01
##  [15104,]  1.529615e+00  5.336938e-01  9.325948e-01 -3.832711e-01
##  [15105,] -4.977372e-01 -3.856383e-01 -1.532619e+00  1.904504e+00
##  [15106,] -2.801208e+00  2.831288e-01  1.320357e+00 -8.782928e-01
##  [15107,]  2.991228e-01  8.018970e-01 -3.096909e-02 -1.192618e+00
##  [15108,] -2.787126e+00  4.884982e-01 -3.245992e-01 -8.638539e-01
##  [15109,] -2.665380e+00  7.148168e-01 -1.695815e+00 -5.435551e-01
##  [15110,]  1.346338e+00 -6.269503e-01  1.450383e+00  8.447129e-01
##  [15111,]  1.561732e-01  6.798224e-01 -2.132639e-01 -4.373304e-01
##  [15112,]  1.101792e+00 -1.782626e-01  1.360820e+00 -1.020908e+00
##  [15113,]  1.457705e+00  4.151760e-01 -6.009334e-01 -5.572276e-02
##  [15114,] -1.402644e+00  2.117180e+00 -1.444997e-01  5.513646e-02
##  [15115,]  1.626608e+00  3.887708e-01 -3.674689e-01  1.623576e+00
##  [15116,]  2.239285e-01 -3.084899e-01 -5.411373e-01 -3.876828e-01
##  [15117,] -2.738759e+00  1.414899e+00 -1.652902e+00  1.201971e+00
##  [15118,]  1.373962e+00 -2.897741e-01 -3.993470e-01 -2.882924e-01
##  [15119,]  7.536487e-01  1.711550e+00  9.138266e-01 -1.502463e+00
##  [15120,]  1.205084e+00 -7.761162e-02  1.202527e+00 -7.548212e-01
##  [15121,] -2.860886e+00 -9.216130e-01 -1.573941e+00 -7.811053e-01
##  [15122,]  1.550081e+00  2.163949e+00 -5.469943e-01 -2.438239e-01
##  [15123,]  1.412347e+00  9.343145e-01  4.075817e-01  1.550447e+00
##  [15124,]  1.460019e+00 -2.265490e-01  1.876368e-01  1.502904e+00
##  [15125,]  9.146424e-01  1.293532e+00  1.685836e-01 -1.455678e+00
##  [15126,]  1.455345e+00 -3.743885e-01 -1.422965e-02 -7.337068e-01
##  [15127,]  2.480218e-01 -5.968616e-01 -1.779413e+00  1.725511e+00
##  [15128,]  9.671723e-01  2.393533e+00  1.158812e+00 -1.203332e+00
##  [15129,]  1.081318e+00 -2.727207e-01  1.282291e+00 -8.616137e-01
##  [15130,]  1.094397e+00  8.242367e-01  1.152676e+00 -8.183287e-01
##  [15131,] -2.630149e+00  8.273341e-01 -7.655044e-01 -5.374418e-02
##  [15132,]  1.110804e+00  8.326378e-01 -2.505790e-01 -6.697715e-01
##  [15133,]  1.484179e+00 -1.879295e-01 -4.134449e-01 -2.379413e-01
##  [15134,] -2.706661e+00  5.704535e-01 -1.745572e+00 -3.852418e-01
##  [15135,]  9.448212e-01  5.272927e-01 -1.258961e+00 -1.381597e+00
##  [15136,]  1.264498e+00 -4.255250e-01  1.349057e+00  1.032512e+00
##  [15137,] -2.371730e+00 -9.146667e-03 -8.998776e-01  2.625070e-01
##  [15138,]  1.182363e+00 -7.446700e-01 -1.383022e+00 -8.911195e-01
##  [15139,]  1.549831e+00  3.796934e-01 -2.826159e-01  1.442053e+00
##  [15140,]  1.573185e+00 -2.049314e-01  9.065175e-01  1.811203e+00
##  [15141,]  1.193420e-02  4.259503e+00  1.219139e+00 -6.725856e-01
##  [15142,] -2.587481e+00 -5.850587e-01  1.160363e+00 -4.644140e-01
##  [15143,]  1.150359e+00 -7.983387e-01  1.293512e+00 -7.677239e-01
##  [15144,]  1.306011e+00 -1.941638e-01 -3.043327e-01  1.105784e+00
##  [15145,]  1.197073e+00 -8.184835e-01 -1.369159e-01 -6.594030e-01
##  [15146,]  1.350948e+00  1.076546e+00  9.246133e-01 -3.940471e-01
##  [15147,]  4.077824e-01 -5.683689e-01 -2.660971e-01 -1.075976e+00
##  [15148,]  1.175801e+00 -1.915314e-02  2.183600e-01 -7.948509e-01
##  [15149,]  7.605040e-01 -1.248797e+00 -2.163906e-01 -8.824830e-01
##  [15150,]  1.723938e+00  1.223718e+00  7.806545e-01  1.024612e-01
##  [15151,] -2.844814e+00  9.582934e-01  2.605724e-01 -7.365868e-01
##  [15152,]  3.262958e-01  9.748866e-01  1.404138e+00 -1.270998e+00
##  [15153,]  6.577234e-01  7.858772e-01 -3.064019e-01 -7.492133e-01
##  [15154,]  1.336626e+00 -6.461943e-01  1.268562e+00  1.186713e+00
##  [15155,]  1.594870e+00  5.378034e-01 -9.440037e-01  2.046393e-01
##  [15156,]  1.406428e+00 -1.166562e-01 -1.493653e+00 -8.435122e-01
##  [15157,]  1.269065e+00 -2.004337e-01  2.104790e-01  1.407187e+00
##  [15158,]  1.313598e+00 -3.272552e-01  1.065497e+00 -4.397165e-01
##  [15159,]  1.145733e+00  1.429715e+00  1.002707e+00 -6.924242e-01
##  [15160,]  1.428471e+00 -3.170071e-01  5.828754e-01 -2.496521e-01
##  [15161,]  1.007920e+00  7.374203e-01 -7.463250e-02 -9.408491e-01
##  [15162,] -2.777092e+00 -9.893481e-01 -8.863443e-01 -7.364488e-01
##  [15163,]  1.250840e+00  1.463256e+00  7.623507e-01  8.477291e-01
##  [15164,]  1.855054e-01 -7.587079e-01 -3.679515e-02  1.687318e+00
##  [15165,]  8.904021e-01  1.853691e+00 -3.222697e-01 -1.125688e+00
##  [15166,] -9.524166e-01 -1.066074e-01 -1.002871e-01  1.109770e+00
##  [15167,] -1.747585e-01  1.961424e+00 -1.531073e+00 -9.952630e-01
##  [15168,] -2.425524e+00  9.021169e-02 -7.165847e-01  1.810738e+00
##  [15169,]  1.067530e+00 -1.091576e+00  1.623294e+00  6.077924e-01
##  [15170,] -1.544592e+00  1.048249e+00  1.095775e+00 -4.004612e-01
##  [15171,]  1.574529e+00 -2.687244e-02 -1.872777e+00 -4.404329e-01
##  [15172,]  1.263395e+00 -1.788288e-01  1.050072e+00 -4.150277e-01
##  [15173,]  1.507244e+00 -4.351729e-01 -2.278131e-01  1.591983e+00
##  [15174,]  7.704236e-02  3.689875e-01  1.079180e+00 -5.088171e-01
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##  [15175,] -2.577756e+00 -4.672929e-01 -1.598392e+00 -4.908551e-01
##  [15176,]  1.278673e+00  1.492747e+00  8.774463e-01  9.314982e-01
##  [15177,]  1.488536e+00 -1.984740e-01  2.875003e-01 -6.270085e-01
##  [15178,]  7.631772e-01 -5.840816e-01 -1.497589e+00 -7.069013e-01
##  [15179,]  1.112879e+00 -8.493408e-01 -3.634698e-01 -8.823345e-01
##  [15180,]  1.315233e+00  4.193345e-02  9.639565e-01 -3.741667e-01
##  [15181,]  1.019611e+00  9.385766e-02  1.304468e+00 -9.642942e-01
##  [15182,]  1.021684e+00  3.439685e+00 -2.438144e-01 -8.916183e-01
##  [15183,]  1.475907e+00 -1.770332e-01 -6.446100e-01 -2.935868e-01
##  [15184,]  1.295255e+00  6.651223e-02  1.356824e-01 -7.034526e-01
##  [15185,] -6.482272e-01 -1.252355e+00 -1.177508e+00 -8.582677e-01
##  [15186,]  6.426434e-01 -7.814497e-01  4.157132e-01 -1.011147e+00
##  [15187,]  1.567316e+00  8.162316e-02  9.814426e-01  1.495363e+00
##  [15188,]  1.250656e+00 -9.859675e-02  6.929882e-01 -4.435146e-01
##  [15189,] -6.158469e-01 -1.882717e+00  3.383544e-02  1.238768e+00
##  [15190,]  1.387901e+00  5.725773e-01 -1.206353e+00 -7.694867e-02
##  [15191,]  7.614155e-01  8.892998e-02 -4.098847e-01 -7.159705e-01
##  [15192,]  1.264279e+00 -1.280877e-01 -2.700085e-01 -4.304612e-01
##  [15193,] -2.665392e+00 -4.324595e-01 -7.171865e-01 -1.908344e-01
##  [15194,]  1.358751e+00 -4.733948e-01 -1.536631e+00  1.558395e+00
##  [15195,]  2.291704e-01  8.489049e-01 -5.220725e-01 -2.403516e-01
##  [15196,] -2.623561e+00  9.161497e-01  4.035273e-01 -6.321536e-02
##  [15197,]  1.327564e+00 -4.728999e-01  1.112627e+00 -4.392952e-01
##  [15198,]  1.443189e+00  3.017729e-01  7.077275e-01 -8.086472e-02
##  [15199,]  1.306838e+00  1.050763e+00  8.511150e-01 -5.241678e-01
##  [15200,]  1.462066e+00 -1.838187e-01  3.593900e-01  1.151046e+00
##  [15201,] -1.978555e+00 -1.219882e+00 -8.283476e-01 -2.500849e-01
##  [15202,] -7.702192e-02  3.642108e-01 -1.308056e+00 -8.400990e-01
##  [15203,]  1.007719e+00  1.336060e+00  7.111800e-01 -9.986936e-01
##  [15204,] -3.749080e-01 -5.190191e-01 -7.112156e-01  1.951764e+00
##  [15205,]  9.644267e-01  2.335016e+00 -1.431028e+00 -9.056520e-01
##  [15206,]  1.400191e+00  5.708127e-01 -1.378249e-01 -3.645092e-01
##  [15207,]  1.270562e+00 -5.656480e-02  6.957923e-01  1.205919e+00
##  [15208,]  9.642933e-02  5.029510e-01  1.143867e+00  1.288542e+00
##  [15209,] -2.606659e+00 -6.700145e-01 -1.187545e+00 -5.720512e-01
##  [15210,]  6.955682e-01 -1.333574e-03  9.221835e-01 -5.131192e-01
##  [15211,]  1.261856e+00  4.885737e-01  1.047186e+00 -4.760506e-01
##  [15212,]  1.344775e+00 -1.972281e-01 -4.305667e-01 -4.492733e-01
##  [15213,] -1.435496e+00 -2.259961e-01 -1.580136e-01 -5.904739e-01
##  [15214,]  7.474050e-02  1.665154e+00 -7.082213e-02 -7.550837e-01
##  [15215,]  1.264316e+00 -6.261529e-01  1.285596e+00  1.147211e+00
##  [15216,]  1.493814e+00  9.445615e-02 -3.430496e-01  1.434593e-01
##  [15217,]  6.638622e-01  1.296315e-01 -1.043145e-03 -4.889447e-01
##  [15218,]  1.361478e+00  5.730992e-01 -9.144513e-02 -8.359776e-01
##  [15219,]  1.113529e+00  2.956015e-01  1.217624e+00 -8.417258e-01
##  [15220,]  1.436924e+00  1.522406e+00  9.076303e-01 -1.865681e-01
##  [15221,]  1.448790e+00  1.402989e+00  9.945160e-01 -5.010995e-01
##  [15222,]  1.506739e+00  8.153054e-01  9.719315e-01 -4.216875e-01
##  [15223,] -8.865416e-02  1.402218e+00  1.160239e+00 -7.885344e-01
##  [15224,] -2.627521e+00  1.798182e-01  1.084455e+00 -4.612161e-01
##  [15225,] -1.513781e+00  4.762978e-01  1.031710e+00  1.495503e+00
##  [15226,]  1.187776e+00 -4.835551e-01  1.980173e-02 -8.025141e-01
##  [15227,]  1.548223e+00  8.402539e-01 -5.793655e-02 -3.803986e-01
##  [15228,]  1.243152e+00  1.565683e-01 -2.531502e-01  1.396958e+00
##  [15229,] -1.146507e+00  1.562775e+00 -1.227727e-01 -1.029081e+00
##  [15230,]  1.405498e+00  3.401046e-03 -4.340416e-01 -3.183733e-01
##  [15231,]  1.214558e+00  1.887118e-01  2.419620e-01 -6.445888e-01
##  [15232,] -1.968088e+00 -1.208162e+00 -2.609879e-01 -4.230380e-01
##  [15233,] -1.926312e-01  2.069072e+00  1.215288e+00 -1.053644e+00
##  [15234,] -2.652390e+00 -7.757952e-01 -8.847915e-01 -4.088760e-01
##  [15235,]  1.311094e+00  1.120857e-01 -1.768384e+00 -3.332564e-01
##  [15236,]  1.158221e+00 -1.788340e-01 -5.163116e-02 -7.194374e-01
##  [15237,]  1.333744e+00 -2.344154e-01  1.184800e+00  1.347574e+00
##  [15238,]  1.163591e+00 -4.699546e-01  8.207610e-01 -9.326744e-01
##  [15239,]  6.595656e-01 -7.297469e-01 -1.061063e-01  1.340528e+00
##  [15240,]  1.425026e+00  2.338480e-01  1.012250e+00  1.514300e+00
##  [15241,]  1.478994e-01  5.658606e-01 -3.166951e-01 -4.388226e-01
##  [15242,]  8.213501e-01  2.284783e-01 -1.957273e+00  1.772508e+00
##  [15243,]  1.459435e+00  5.414269e-01  1.158220e-01 -2.563444e-02
##  [15244,] -2.513727e-01  3.692776e-02  1.208159e+00 -8.056826e-01
##  [15245,] -8.020103e-02  2.033994e-01  1.364773e-01  8.019325e-01
##  [15246,]  1.446223e+00  1.580512e-01 -4.708861e-01 -1.601098e-01
##  [15247,] -1.269698e+00 -5.468184e-01  1.116762e+00 -4.295501e-01
##  [15248,]  1.635649e+00  5.045901e-01  9.129949e-01 -1.697974e-01
##  [15249,]  1.119308e+00  9.787507e-01  4.657690e-01 -8.576667e-01
##  [15250,]  1.142466e+00  7.123795e-01  1.094503e+00 -7.114251e-01
##  [15251,] -6.315098e-02  3.510187e+00  1.335465e+00  9.388638e-01
##  [15252,]  1.298524e+00  5.460608e-01  9.617918e-01 -3.697812e-01
##  [15253,]  1.504134e+00  2.577525e+00  1.096035e+00  1.511626e+00
##  [15254,]  8.875014e-01 -2.571456e-01  1.043147e+00 -3.974339e-01
##  [15255,]  9.950750e-01  7.124988e-01 -6.568718e-01  3.233644e-02
##  [15256,]  7.872136e-01 -3.888516e-02  9.112330e-01 -8.550833e-02
##  [15257,] -2.991070e+00  7.628662e-01 -8.158160e-02  1.020595e+00
##  [15258,]  2.422218e-01 -4.972383e-01 -1.958869e+00 -2.267288e-01
##  [15259,]  4.850735e-01 -9.916041e-01 -4.445022e-01 -9.591563e-01
##  [15260,] -1.465357e+00 -1.470287e+00 -2.040356e-01  1.531980e+00
##  [15261,]  7.795155e-01  2.825020e-01  1.121084e+00  1.345534e+00
##  [15262,]  8.183901e-01 -5.636423e-01  8.886399e-01 -5.423433e-02
##  [15263,] -1.085634e+00  3.652080e-01 -1.148845e+00 -1.254290e+00
##  [15264,]  7.323242e-01  7.129006e-02  1.188689e+00 -7.300986e-01
##  [15265,]  1.405046e+00  3.046750e-01  7.374786e-02  1.026728e+00
##  [15266,]  5.483344e-02 -1.132502e+00 -8.842771e-02 -6.030120e-01
##  [15267,]  1.073186e-01 -7.694234e-01 -1.531492e+00 -3.484839e-01
##  [15268,]  6.477960e-01 -8.757625e-01  7.059617e-01  1.304119e+00
##  [15269,] -8.411383e-01 -1.870434e+00  1.293292e+00  1.464495e+00
##  [15270,]  6.855564e-01 -4.752634e-01  1.709775e-01  9.683819e-01
##  [15271,]  1.287456e+00  5.111059e-01  1.085689e+00 -6.164357e-01
##  [15272,]  7.376987e-01 -1.357880e-01 -1.201883e+00 -4.477417e-01
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## [15273,]  3.617767e-01  8.397424e-01  5.631976e-01  2.425137e-01
## [15274,]  6.624094e-01  5.492353e-01  1.780065e-01 -3.003305e-01
## [15275,] -1.223348e+00  3.766102e-01 -1.936970e+00 -2.893412e-01
## [15276,] -2.220209e+00  1.276030e+00  4.058491e-01 -3.582028e-01
## [15277,] -2.137470e-01 -1.645411e+00  9.960477e-01  8.735845e-01
## [15278,] -5.250162e-01 -8.124318e-01 -1.557861e+00  1.336537e+00
## [15279,] -7.111749e-01  1.404643e+00 -1.728722e-01 -8.040734e-01
## [15280,] -8.386606e-01 -3.146253e-01 -6.770832e-01 -1.863198e-01
## [15281,]  2.947965e-01  1.116205e+00  1.314376e+00  7.419038e-01
## [15282,] -6.477327e-01 -7.307075e-01  1.188471e+00 -5.160053e-01
## [15283,]  7.471557e-01 -7.879400e-01  1.162270e+00 -4.855153e-01
## [15284,]  1.655386e-01 -3.716360e-01  1.053726e+00 -4.614768e-01
## [15285,]  7.480043e-01  5.854730e-01  1.181777e+00 -5.701109e-01
## [15286,] -1.809452e+00  2.708287e-01 -6.953878e-01 -1.048321e-01
## [15287,] -2.114497e+00 -4.853983e-02  4.734411e-01  9.849778e-01
## [15288,]  2.847878e-02 -8.175920e-02  7.075634e-01 -1.551660e-01
## [15289,]  6.488308e-01  6.192548e-01 -1.210900e-01  1.502760e+00
## [15290,]  6.126715e-01 -7.996787e-01  1.220255e+00 -5.924885e-01
## [15291,] -1.929511e-01  1.052679e+00 -8.320104e-02  1.009463e+00
## [15292,] -1.882743e+00 -2.579630e-01  1.065565e+00 -2.999007e-01
## [15293,]  6.070049e-01 -9.978809e-01 -8.992126e-01 -7.840681e-01
## [15294,] -2.863661e+00  7.407602e-01 -2.103835e-01 -6.824990e-01
## [15295,]  1.390808e-01 -9.363639e-01 -1.512215e+00 -3.048138e-01
## [15296,] -6.794282e-01  1.404621e+00 -5.082743e-03 -3.665523e-01
## [15297,] -1.929601e+00  1.904317e+00 -2.141388e+00  2.030290e+00
## [15298,]  3.946916e-01 -2.476130e-01 -5.314919e-01  7.064347e-02
## [15299,] -1.719630e-01 -1.024800e+00 -1.432040e+00 -1.085944e+00
## [15300,] -2.549061e-01  2.069360e+00 -3.307851e-01 -1.149559e+00
## [15301,]  7.575447e-01  3.189600e-01  1.008847e+00 -5.100251e-01
## [15302,]  2.048875e-01  1.726102e-01 -6.123139e-01 -3.653660e-01
## [15303,]  2.532820e-01 -5.343293e-01 -8.081479e-01  1.646461e+00
## [15304,]  7.940652e-01 -5.812517e-01 -1.626664e+00 -1.756422e-01
## [15305,] -2.682210e-01 -5.443226e-01 -7.473794e-01  2.239793e+00
## [15306,]  2.460833e-01 -2.888696e-01  6.372917e-01  3.499736e-01
## [15307,]  8.330493e-01  2.588662e-01  8.291634e-01 -3.441085e-02
## [15308,]  5.191833e-01  1.488529e-01 -1.624798e+00 -8.883105e-01
## [15309,] -1.619647e+00  5.431372e-01 -1.662384e+00 -5.959922e-01
## [15310,]  7.512872e-01 -6.078485e-02  1.839054e-01  1.615460e+00
## [15311,] -3.069786e+00  1.812604e+00  3.023269e-01  6.093506e-02
## [15312,]  1.641545e+00  7.871585e-01 -1.655191e+00 -1.914410e-01
## [15313,]  1.737387e-01 -6.771773e-02 -7.872985e-01  1.182010e-01
## [15314,]  9.274515e-01  5.813974e-01 -5.817460e-01 -1.365980e-01
## [15315,] -1.680513e+00  8.322539e-01  1.159965e+00 -7.061455e-01
## [15316,] -3.807689e-02 -7.423877e-01 -8.718643e-01  7.534176e-01
## [15317,] -1.350580e+00  4.328950e-01  9.484214e-01 -2.798729e-01
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## [15319,] -1.366510e+00 -5.502870e-01  6.862753e-01  1.986934e+00
## [15320,]  1.264040e+00 -1.620900e-01  1.479834e+00 -1.148222e+00
## [15321,] -5.608104e-01 -4.755732e-02  4.833063e-01 -3.735260e-03
## [15322,] -1.043324e+00  1.706751e+00 -5.819944e-02  2.109436e+00
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## [15324,]  1.256959e+00 -3.728623e-01 -1.247590e+00 -6.304442e-01
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## [15337,] -7.257474e-01 -1.085554e+00  1.028771e+00  1.841192e+00
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## [15339,]  8.677992e-01  9.109510e-02  8.209870e-01  2.470231e-02
## [15340,]  7.705979e-01 -4.075905e-01 -6.572137e-01 -3.920087e-01
## [15341,] -5.486310e-01  5.499356e-01 -1.101093e-01 -6.442921e-01
## [15342,] -7.140450e-02 -8.403021e-01  1.546250e-01 -5.488622e-01
## [15343,] -7.773964e-01 -1.090797e+00 -2.658321e-01 -1.317159e-01
## [15344,] -8.953652e-01 -1.223470e+00 -4.450931e-01 -4.450792e-01
## [15345,]  7.624107e-01  1.945485e-01  8.233645e-01 -8.662250e-02
## [15346,]  1.458801e+00  1.614419e+00  1.139893e+00 -5.170333e-01
## [15347,] -2.175338e+00 -1.604200e-01 -1.533795e-01 -5.493424e-01
## [15348,]  2.904682e-01  2.509669e-02 -1.631625e+00 -1.994851e-01
## [15349,] -2.796388e-01 -3.746132e-01 -4.890316e-01  2.014135e+00
## [15350,] -5.323757e-01  5.459073e-01 -6.295011e-01 -9.679264e-02
## [15351,] -2.722000e+00  1.107261e+00 -2.143513e-01 -4.519753e-01
## [15352,]  7.646477e-01 -6.886073e-01  7.312101e-01 -4.271837e-01
## [15353,] -3.743959e-01 -9.852054e-01 -1.947100e+00 -1.645596e-01
## [15354,] -4.144130e-01 -1.163266e+00 -1.447903e+00  1.557479e+00
## [15355,]  9.032975e-01  5.911984e-01 -1.633459e+00 -3.206077e-01
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## [15358,] -2.735352e-02  1.706695e+00  1.043769e+00 -6.049957e-01
## [15359,] -1.132105e+00  5.631079e-01  7.841502e-01 -3.867569e-01
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## [15361,]  1.046867e+00 -2.307494e-01  7.877997e-01  7.664582e-03
## [15362,]  7.596702e-02 -8.906175e-01  1.112376e+00 -3.917830e-01
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## [15364,]  1.438273e+00  2.256204e-01  9.205861e-01 -2.823875e-01
## [15365,]  9.051087e-01 -1.661284e-02 -3.168415e-01 -3.522130e-01
## [15366,] -6.198945e-01 -7.239508e-01 -3.989513e-01 -2.629378e-01
## [15367,] -9.267970e-02 -1.478581e+00  1.392312e+00 -8.644451e-01
## [15368,]  6.355682e-01  2.124757e+00  4.026822e-01 -4.295109e-01
## [15369,]  9.139438e-01  3.825965e-02 -1.059037e+00 -3.394688e-01
## [15370,]  8.017174e-01  2.608935e-02  1.011475e+00 -4.452131e-01
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##  [15371,]  7.606527e-02 -4.370653e-02  8.017251e-01 -2.455640e-02
##  [15372,]  2.968038e-01 -7.389616e-01 -1.293392e+00 -1.012910e-01
##  [15373,]  2.034014e-01 -3.351531e-01  7.884769e-01  1.281414e-02
##  [15374,] -5.511274e-01  2.155840e-01 -6.818467e-01  3.963011e-02
##  [15375,]  1.013049e-01 -2.743018e-01 -1.553836e-01 -5.153642e-01
##  [15376,] -1.756833e-01 -4.156761e-01 -2.348528e+00  4.085305e-01
##  [15377,] -4.553011e-01 -1.723849e+00 -7.503538e-02  1.425532e+00
##  [15378,]  5.203248e-02  5.744687e-01 -1.224441e+00 -4.226582e-01
##  [15379,]  7.021269e-01  4.825863e-01  1.244889e+00 -7.794432e-01
##  [15380,]  6.317694e-01  3.853341e-01 -3.123133e-01 -4.154305e-01
##  [15381,] -2.138398e+00 -3.365522e-01 -4.370614e-01 -3.680064e-01
##  [15382,]  7.549592e-01 -1.665920e-02 -1.795265e+00 -4.659179e-01
##  [15383,] -2.409957e+00  1.030992e-01 -8.665237e-01  1.837038e-01
##  [15384,]  2.942199e-01  5.992320e-02  8.910354e-01 -1.199039e-01
##  [15385,]  8.442674e-01 -5.990416e-01  9.013592e-01 -9.977729e-02
##  [15386,]  3.786112e-01  1.194048e-01 -1.899042e+00  7.381633e-03
##  [15387,]  9.848418e-01 -3.590287e-01  5.075648e-01 -7.041664e-02
##  [15388,] -6.082858e-02 -6.136603e-01 -1.408731e-01 -6.852543e-01
##  [15389,] -1.368020e+00  1.184733e+00 -2.738015e-01 -6.727113e-01
##  [15390,]  8.245005e-01 -5.800626e-01  8.495295e-01 -2.968815e-02
##  [15391,]  1.297936e+00 -4.411147e-01  1.019700e+00 -3.553943e-01
##  [15392,]  8.544852e-01 -2.318369e-01  7.922806e-01 -1.483450e-02
##  [15393,] -6.555820e-01 -8.285039e-01 -1.567478e+00 -5.936357e-01
##  [15394,]  1.419976e+00 -1.963565e-01 -5.597257e-01 -4.348290e-01
##  [15395,]  5.182676e-01 -8.974955e-01 -8.654979e-01 -8.738233e-01
##  [15396,]  1.502433e+00 -1.237209e-02  8.904352e-01 -1.627690e-01
##  [15397,]  8.102634e-01 -3.607699e-01  9.847181e-01 -2.681233e-01
##  [15398,]  2.099579e-02 -6.184130e-01  1.056446e+00 -2.638611e-01
##  [15399,]  1.567264e-01  2.913096e-01 -1.764479e+00  1.515454e+00
##  [15400,]  4.998403e-02  1.502670e+00 -3.259814e-02 -9.184364e-01
##  [15401,]  8.508411e-01  1.058217e-01 -1.580161e+00 -4.776996e-01
##  [15402,] -5.385288e-02 -5.179748e-01  3.071304e-01 -6.740333e-01
##  [15403,] -9.520406e-02  1.928588e-01  1.573875e-01 -8.080988e-01
##  [15404,]  1.336766e-01 -4.530593e-01 -1.745497e+00 -3.553241e-01
##  [15405,]  3.318667e-02 -2.208380e-01 -4.745567e-01 -4.219794e-01
##  [15406,] -5.972282e-01 -6.468186e-01 -2.436343e-01  1.654309e+00
##  [15407,] -2.623070e-01 -4.455793e-01 -8.922479e-01 -9.454491e-01
##  [15408,] -1.660021e-02 -8.889531e-01  5.798570e-01 -7.454358e-01
##  [15409,]  8.443613e-01 -7.815510e-01  1.046618e+00  1.601111e+00
##  [15410,]  9.099590e-01  1.923844e-01  8.063260e-02 -3.192572e-01
##  [15411,] -6.264599e-01 -7.634788e-02  2.309929e-01  3.334850e-01
##  [15412,] -4.708817e-01  1.031104e-01  1.049573e+00 -3.703014e-01
##  [15413,]  6.491129e-01 -4.808311e-01 -7.709591e-02 -7.053897e-01
##  [15414,]  8.274679e-01 -4.046776e-01  1.133020e+00 -5.577879e-01
##  [15415,]  5.819617e-01 -1.422890e+00 -7.119763e-02 -9.750625e-01
##  [15416,]  6.082906e-01 -1.106314e+00 -1.644512e+00 -7.074687e-01
##  [15417,] -2.749375e+00 -1.026211e+00 -1.220054e-01  1.313098e+00
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##  [15419,] -7.950205e-01 -3.403634e-01  1.492460e+00 -1.106218e+00
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##  [15426,]  1.704899e-01 -1.544906e+00 -9.137785e-02  1.360638e+00
##  [15427,]  1.018247e-01 -7.228934e-01  4.667357e-01  1.393636e+00
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##  [15430,]  3.075035e-01  6.827628e-01  1.314416e+00 -1.118788e+00
##  [15431,]  1.943434e-01 -1.250946e+00  1.229979e+00 -5.302488e-01
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##  [15437,]  2.837070e-01  1.796352e-01 -2.385190e-01  2.019286e+00
##  [15438,] -4.015676e-01 -2.368670e-01 -5.641637e-01 -1.650206e-01
##  [15439,]  1.488186e-01  1.525404e+00 -2.179968e+00 -7.660295e-03
##  [15440,]  1.652481e+00  2.722564e-01  9.131473e-01 -1.535494e-01
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##  [15442,]  3.552162e-01 -6.218879e-01 -5.038298e-01  1.840348e-01
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##  [15445,]  7.863729e-01  5.256452e-01  8.765943e-01 -3.413036e-02
##  [15446,]  4.425445e-01 -9.154816e-01 -1.965798e-01  7.972318e-01
##  [15447,] -9.756184e-01 -5.602350e-02 -3.326920e-01 -4.906875e-01
##  [15448,]  7.118073e-01 -2.156384e-01  1.921231e-01  1.523652e+00
##  [15449,]  1.719367e-01 -3.039916e-01 -1.911689e+00 -3.676133e-01
##  [15450,]  2.806411e-01  2.653125e-01  1.609953e+00 -1.484398e+00
##  [15451,]  2.324329e-02 -9.333307e-01  2.388891e-01  1.522647e+00
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##  [15453,] -4.530494e-01 -2.151964e-01 -7.849283e-01  4.705064e-01
##  [15454,] -8.271374e-01  4.612625e-01 -2.539471e-01 -1.060852e+00
##  [15455,] -2.379952e-02  7.994192e-02 -5.083526e-01 -5.545014e-01
##  [15456,] -2.460686e-01  2.271581e-01  1.306515e+00  1.038356e+00
##  [15457,]  7.366853e-01 -3.550364e-01  1.264496e+00 -6.895100e-01
##  [15458,]  1.470626e+00  8.480760e-03  1.187723e+00  1.227444e+00
##  [15459,] -6.505267e-01 -1.524347e+00 -3.446932e-02 -6.338871e-01
##  [15460,]  7.010688e-01 -2.619826e-01 -4.985452e-01 -3.818156e-01
##  [15461,] -1.062495e-01 -1.139063e+00  1.519353e-01 -1.094258e+00
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##  [15463,]  7.590760e-01 -5.246803e-01 -1.647256e+00 -8.148592e-01
##  [15464,]  1.684967e-02 -1.149900e+00  5.307208e-01 -9.631595e-01
##  [15465,]  8.708105e-01 -3.294221e-02 -7.079675e-01 -4.716796e-02
##  [15466,]  5.477360e-01 -1.784995e-01 -1.351311e-01 -6.837813e-01
##  [15467,] -4.344648e-01 -9.022192e-01 -1.900630e-03 -2.734716e-01
##  [15468,]  2.586135e-01 -1.136901e+00  1.175131e+00  1.478035e+00
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## [15469,]  4.153366e-01  7.769885e-01  1.647991e-01  9.543831e-01
## [15470,]  8.767003e-02 -1.425350e+00 -1.183517e-01 -5.491024e-01
## [15471,]  8.068571e-01 -8.931206e-01  1.081946e+00  1.260723e+00
## [15472,]  4.700964e-01  1.371513e+00 -1.162434e-01  1.136549e+00
## [15473,] -6.811060e-01 -1.279854e+00 -1.450142e+00 -7.176957e-01
## [15474,] -1.509108e+00 -2.070551e-01  1.099711e+00 -4.229237e-01
## [15475,]  9.826578e-01  6.620518e-02 -5.380796e-01 -1.700123e-01
## [15476,]  4.913961e-02 -7.939011e-01  9.386689e-01 -4.438887e-01
## [15477,]  1.387640e+00  6.176666e-01 -1.801797e+00 -2.416001e-01
## [15478,]  1.881722e-01 -2.504665e-01  8.096193e-01  2.032658e+00
## [15479,]  9.262185e-01 -3.834809e-01 -3.026888e-01 -2.395358e-01
## [15480,] -7.978256e-01  1.139198e+00 -6.349192e-01 -9.009130e-01
## [15481,] -9.186322e-01 -7.447699e-01  1.238512e+00 -7.099628e-01
## [15482,] -5.274103e-02 -5.570378e-01  1.038472e+00 -1.033590e+00
## [15483,] -1.145093e+00  8.435312e-02  1.205039e+00 -8.155573e-01
## [15484,]  1.378094e-01 -1.490720e+00 -7.712108e-02 -5.590533e-01
## [15485,]  5.227253e-03  3.001080e-01 -2.689381e-01  1.620143e+00
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## [15487,] -5.467069e-01 -1.074320e+00 -1.367189e+00  9.205650e-02
## [15488,]  8.236270e-01 -1.141339e-01  3.196219e-01 -4.385107e-01
## [15489,] -2.148875e+00  4.602790e-01  2.047674e-01  1.334597e+00
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## [15491,]  1.417845e-01  1.710166e-01  1.021539e+00  1.521887e+00
## [15492,]  9.165156e-01  2.127919e+00 -3.664169e-01  1.965618e+00
## [15493,] -4.079686e-01 -4.617280e-01 -2.012211e+00 -1.699029e-01
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## [15496,]  6.750827e-01 -8.474229e-01 -1.435212e+00 -4.962253e-01
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## [15502,]  2.048475e-01  9.447018e-01 -1.819962e-01  2.311106e-02
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## [15505,] -7.175140e-02 -4.632301e-02  9.673402e-01 -9.269587e-01
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## [15509,]  6.035768e-01  1.861999e-01 -1.447112e+00 -9.829468e-01
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## [15528,]  6.322515e-01 -2.603582e-01 -2.510110e-01 -4.827390e-01
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## [15534,]  1.651798e-01 -1.123705e+00  1.159486e+00 -4.284894e-01
## [15535,]  4.665218e-01 -2.945747e-01  9.298844e-01 -8.761799e-01
## [15536,] -6.213515e-02 -4.037936e-01 -4.749094e-01 -4.799169e-01
## [15537,]  1.653282e-01 -7.840927e-01  4.004408e-04 -3.110226e-01
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## [15539,] -6.127473e-01 -1.813437e+00  8.354993e-01  1.250869e+00
## [15540,] -2.501237e+00  2.540317e+00  1.221412e-01  9.405711e-02
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## [15542,]  7.483912e-01 -4.495465e-01 -2.591888e-01  1.589319e+00
## [15543,] -8.255689e-02  1.256333e+00 -2.588808e-01  1.316289e+00
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## [15545,] -8.760907e-01  1.019422e+00  1.021989e+00 -6.014576e-01
## [15546,] -1.330780e+00 -3.214812e-01  9.878034e-01 -2.841236e-01
## [15547,] -5.687501e-01  1.458799e+00  1.053267e+00  1.298801e+00
## [15548,]  8.641042e-01  9.482324e-01  1.473556e+00 -1.446676e+00
## [15549,] -1.948647e-01  3.262140e-01 -1.155915e-01 -8.898651e-01
## [15550,]  9.171241e-01  5.682053e-01 -5.081333e-01  1.518760e-01
## [15551,]  1.318992e+00 -2.591254e-01  4.614625e-01 -3.066739e-01
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## [15559,]  1.356628e-01  9.553921e-01  8.720866e-01 -1.889128e-01
## [15560,] -6.313513e-02 -6.883771e-01 -1.611245e+00 -5.205585e-01
## [15561,] -4.370466e-01 -5.436552e-01 -3.929732e-01  1.837301e+00
## [15562,] -3.279730e+00  1.182139e+00 -3.369494e-01 -5.770505e-01
## [15563,] -1.662120e-01 -1.125169e+00 -8.788168e-01 -8.102346e-01
## [15564,]  3.497263e-01 -5.053615e-01 -5.924117e-01  1.995133e-01
## [15565,] -6.312308e-01 -1.588747e+00 -1.712231e+00  1.415978e+00
## [15566,]  3.723907e-01 -1.032683e+00  1.509987e+00 -1.183874e+00
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## [15567,]  4.457974e-01  9.893786e-01  1.075673e+00 -7.406878e-01
## [15568,]  8.555904e-01 -2.165338e-02  5.495817e-01 -1.362049e-01
## [15569,]  4.332076e-01 -4.360732e-01 -1.933388e+00  8.664857e-02
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## [15574,]  2.925616e-01  5.299215e+00  9.636610e-01  2.210419e+00
## [15575,] -6.009147e-01 -7.417473e-01  1.464304e-01 -6.414690e-01
## [15576,]  8.808505e-02 -1.035613e+00 -1.651741e+00 -6.767693e-01
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## [15579,]  2.694391e-01 -5.703200e-01 -1.855025e+00 -3.400856e-01
## [15580,] -1.580071e-02  4.282558e-01 -1.250412e-01 -6.029532e-01
## [15581,]  5.447493e-02 -1.464239e+00 -2.791310e-01 -2.746458e-01
## [15582,] -4.634047e-01 -7.064518e-01 -2.378690e-01 -3.007381e-01
## [15583,]  1.203638e-01 -8.554940e-01 -8.383820e-01  1.112546e+00
## [15584,] -9.448654e-01  3.793452e-01 -2.251310e-02 -1.079544e+00
## [15585,] -2.896922e-01 -7.636772e-01  7.777730e-01  1.513919e-01
## [15586,] -1.373641e-01 -1.427023e-01 -2.137571e-01 -8.434330e-01
## [15587,]  4.159225e-01  2.236168e+00 -1.644314e+00 -1.022984e+00
## [15588,] -5.235484e-01 -5.603336e-01  1.089688e+00  1.450777e+00
## [15589,]  7.613642e-01  7.725516e-01 -1.950778e-01 -1.824475e-01
## [15590,]  1.644777e+00  9.357161e-01 -2.223578e-01 -1.258027e-01
## [15591,]  7.159317e-01 -6.715176e-01 -1.786257e+00 -5.038735e-01
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## [15593,] -1.304559e-01  5.711118e-02 -2.534743e-01 -5.374469e-01
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## [15598,]  5.765427e-01 -5.998924e-01 -7.137520e-03 -6.892611e-01
## [15599,] -6.334096e-01 -3.297876e-01 -1.367358e+00 -2.461475e-02
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## [15601,]  3.805744e-01  2.713800e-02 -5.979586e-02  4.501258e-02
## [15602,]  2.166521e-01 -5.442668e-01 -4.909895e-01 -6.531940e-02
## [15603,] -9.790657e-01  5.014387e-01  7.930740e-02 -1.173706e+00
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## [15605,]  9.044866e-01 -6.144510e-02 -6.631677e-01  1.484615e+00
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## [15609,] -3.918117e-01  5.941047e-01 -8.731950e-01 -4.049696e-01
## [15610,] -9.067007e-03 -7.783932e-01 -1.775766e+00  1.424113e+00
## [15611,]  6.279376e-01 -1.414556e-01 -8.876526e-02 -7.183971e-01
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## [15619,] -7.412829e-01 -1.364044e+00  1.472052e-01  1.427920e+00
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## [15635,] -1.615628e+00  1.822998e+00  8.690396e-01 -4.046943e-01
## [15636,]  1.114720e+00  1.256145e+00 -2.144314e-01 -8.769552e-01
## [15637,]  5.927929e-02 -1.247770e+00 -1.190088e+00 -9.015045e-01
## [15638,] -1.456530e-01 -8.231658e-01  1.041743e-01  9.010098e-01
## [15639,] -1.291463e+00  2.087652e-01  2.002075e-01 -4.323580e-01
## [15640,]  5.705497e-01 -1.070260e+00 -1.262560e+00 -1.024741e+00
## [15641,]  4.134919e-01 -4.805506e-01 -5.396857e-01  7.574288e-01
## [15642,]  6.377627e-01 -4.668325e-01 -1.600586e+00 -5.513424e-01
## [15643,] -2.546359e-01 -1.732451e+00  2.480274e-01  7.670124e-01
## [15644,]  6.459492e-01  1.805231e+00  5.372844e-01  1.374892e+00
## [15645,]  5.078929e-01  2.062413e+00  3.823633e-01 -9.915071e-01
## [15646,]  7.531613e-01 -7.596695e-01  1.071476e+00  1.593382e+00
## [15647,] -6.415405e-01  1.759029e-01  1.190959e+00  1.193248e+00
## [15648,] -4.908213e-01 -6.987262e-01  1.097530e+00  1.502422e+00
## [15649,] -8.716162e-02  1.861820e+00 -1.545367e+00 -9.071717e-01
## [15650,] -5.620133e-01 -6.037792e-01 -5.753939e-01 -3.245623e-01
## [15651,] -9.014244e-01 -1.342581e+00 -7.121694e-01 -4.524178e-01
## [15652,] -9.849182e-01  6.836403e-01  7.608046e-01  1.659749e-01
## [15653,]  3.874675e-01  1.752801e+00  6.530419e-01  2.696808e-01
## [15654,]  6.957443e-01 -1.016019e+00  8.605719e-02 -9.779231e-01
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## [15656,]  3.109607e-01 -3.047556e-02  9.093268e-01 -9.991130e-02
## [15657,]  1.037987e+00 -4.682248e-01  8.020973e-01  5.742934e-02
## [15658,]  1.669499e-03 -1.576467e+00 -8.396307e-01  1.131279e+00
## [15659,]  6.430924e-01 -8.773319e-01  9.739668e-02 -5.478135e-01
## [15660,] -2.740813e+00 -9.237548e-03  1.115840e+00 -3.868666e-01
## [15661,]  2.460418e-01 -2.221164e-02 -1.888877e+00 -1.421431e-01
## [15662,]  9.688272e-02  6.068206e-02 -6.035470e-01 -3.744425e-01
## [15663,]  5.171439e-01 -5.937644e-01  1.619457e+00  5.909431e-01
## [15664,] -1.222380e+00  7.499233e-01  6.174372e-01 -2.018495e-01
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##  [15666,] -1.329730e+00 -5.647027e-01 -8.064556e-01 -6.272180e-01
##  [15667,]  1.026616e-01 -1.219866e+00 -1.125792e-01  1.011689e+00
##  [15668,] -7.258938e-01 -8.856948e-01  6.300692e-01 -5.080182e-01
##  [15669,] -9.883524e-01  8.587949e-01 -3.499156e-01 -9.579215e-01
##  [15670,] -1.417116e-02 -5.240505e-01 -1.895928e+00 -3.796864e-01
##  [15671,] -2.798477e+00  6.186113e-01  7.427062e-01  1.306348e+00
##  [15672,]  8.494370e-01 -6.511353e-01 -2.725315e-01  1.209830e+00
##  [15673,] -2.777568e-01 -2.301426e-01  3.997945e-01  3.905454e-01
##  [15674,]  4.375889e-01 -3.538707e-02 -2.189447e-01  2.084895e-01
##  [15675,] -2.871467e+00 -3.654176e-01 -1.111920e+00 -7.220136e-01
##  [15676,] -4.529118e-01  3.759503e-01 -1.899951e-01 -1.512699e-01
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##  [15680,]  5.559730e-01  1.072952e+00 -3.615918e-01 -6.409864e-01
##  [15681,]  3.080149e-01 -2.831185e-01  1.580959e-01 -1.294643e-01
##  [15682,]  3.156746e-01  1.360335e-01 -7.672616e-01 -9.563883e-02
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##  [15686,]  3.002556e-01 -2.080323e-01  9.139715e-01 -1.354722e-01
##  [15687,]  1.788309e-01  8.113258e-02 -1.882270e+00 -4.616964e-01
##  [15688,]  9.593324e-01 -1.588113e-01 -1.614089e+00 -2.714279e-01
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##  [15693,] -7.440126e-01  2.092284e-01  3.884118e-01  1.136107e+00
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##  [15699,] -1.237838e+00  3.447106e-01  9.877970e-01  8.168023e-01
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##  [15705,] -3.306276e-01 -1.232643e+00 -3.244695e-01  1.793941e+00
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##  [15715,] -8.741237e-01 -1.816561e-01  1.009884e-01 -1.203136e+00
##  [15716,] -2.895715e+00  2.658448e-01  6.899583e-01  2.144335e+00
##  [15717,] -6.541568e-03 -1.425093e+00 -2.668592e-03 -7.750719e-01
##  [15718,]  7.292204e-02 -7.133918e-01 -1.087390e+00 -1.694134e-01
##  [15719,]  6.551269e-02 -1.330638e+00  1.279693e+00  1.261958e+00
##  [15720,] -1.375562e+00 -3.787353e-01 -7.845395e-01 -9.577447e-01
##  [15721,]  1.993763e-01 -8.881725e-01 -5.291056e-01  1.586771e+00
##  [15722,]  2.686404e-01 -5.385106e-01  9.521540e-01 -2.350231e-01
##  [15723,]  8.965906e-01  1.684013e-01 -1.907264e+00 -4.028463e-01
##  [15724,]  2.699058e-01 -2.909179e-01 -8.292759e-01  1.092331e-01
##  [15725,] -1.990142e+00 -3.148473e-01 -4.735329e-01  1.260411e+00
##  [15726,] -2.255276e-01  1.602686e+00 -1.295056e+00 -9.369533e-01
##  [15727,]  2.640569e-01 -5.741979e-01 -1.760697e+00  5.450907e-02
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##  [15729,] -4.190643e-03 -1.345126e+00  1.257562e+00 -6.333712e-01
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##  [15731,] -6.894264e-01  1.478457e+00  9.591478e-01  1.471397e+00
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##  [15733,] -5.944850e-01 -1.385254e+00  1.050988e+00 -2.315073e-01
##  [15734,] -6.156927e-02 -1.583104e+00 -8.731531e-02 -5.789025e-01
##  [15735,]  2.454426e-01 -7.834748e-01  1.145010e+00  1.488268e+00
##  [15736,] -1.022848e+00  6.201628e-01  2.960994e-01  2.510094e-01
##  [15737,] -6.413746e-01  2.172559e-02  4.655425e-02 -4.771091e-01
##  [15738,]  7.113717e-01 -7.013385e-01  1.116245e+00 -4.440897e-01
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##  [15740,] -1.052858e+00  6.537984e-01 -1.316938e-01 -8.761390e-01
##  [15741,] -4.325178e-01 -4.889829e-01 -4.191271e-01 -1.738628e-01
##  [15742,] -1.379397e+00  2.030983e-02 -1.795974e+00 -4.928168e-01
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##  [15744,]  7.364741e-01 -9.547625e-01  4.642286e-01 -8.782803e-01
##  [15745,]  3.138752e-01 -1.575122e-01  7.079229e-01  1.819105e-01
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##  [15749,]  1.025352e+00  8.929786e-03 -5.811867e-01 -7.501409e-02
##  [15750,]  8.363068e-01  1.750413e-01 -4.562584e-01  1.822697e+00
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##  [15753,] -1.871789e+00 -3.847957e-01 -1.509462e+00 -3.388465e-01
##  [15754,] -3.267622e-01 -3.246659e-01 -7.754966e-01  1.904227e+00
##  [15755,]  6.022406e-01  1.272034e+00 -3.996052e-01 -6.116275e-01
##  [15756,]  4.616774e-01 -7.472172e-02 -6.789304e-01  2.666953e-01
##  [15757,]  5.721017e-01  7.534533e-01  1.782609e-01 -5.305741e-01
##  [15758,] -6.050145e-01 -1.914853e+00  1.348260e+00  1.280591e+00
##  [15759,]  4.502239e-01  5.512468e-01  6.832319e-01  5.102856e-01
##  [15760,] -9.213650e-01 -1.212448e+00  7.984874e-01 -4.610013e-01
##  [15761,] -7.340898e-01  1.243534e+00 -4.280403e-01 -4.599293e-01
##  [15762,]  1.172123e-01 -8.780763e-01 -3.704303e-01  1.777595e+00
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##  [15765,] -1.195591e-01 -1.862606e+00  1.278946e-01  1.065569e+00
##  [15766,] -1.065465e+00 -5.967772e-01 -4.037658e-01  2.089874e+00
##  [15767,] -1.689304e-01 -7.747562e-01 -1.521547e+00 -1.030490e+00
##  [15768,]  2.190379e-01 -8.054253e-01 -2.228473e-01 -4.236894e-01
##  [15769,]  6.087272e-01  6.237555e-02  1.087006e+00 -4.911052e-01
##  [15770,] -4.693707e-02  4.532143e-01 -1.473889e-01 -5.651434e-01
##  [15771,] -6.035302e-02 -1.556631e+00  1.224604e+00 -5.508832e-01
##  [15772,]  6.837734e-01  5.011377e-01 -8.727312e-02 -3.926187e-01
##  [15773,] -1.427594e+00 -5.008578e-01 -9.365654e-01  9.502932e-01
##  [15774,]  1.990410e-01 -1.261236e+00  3.083170e-01 -5.346557e-01
##  [15775,]  2.849533e-01  9.962609e-01 -5.220177e-02  2.062193e-01
##  [15776,]  6.580058e-01 -1.510234e-02  1.161056e+00 -6.045870e-01
##  [15777,]  6.228340e-01  8.264062e-01 -1.744044e+00  1.260878e+00
##  [15778,]  1.044330e-01 -3.533121e-01 -1.848369e+00 -8.334354e-02
##  [15779,]  2.018655e-01 -1.221722e+00 -2.911717e-01 -3.924448e-01
##  [15780,] -2.094164e+00 -1.872944e-01 -5.702522e-01 -8.226846e-01
##  [15781,] -4.439171e-01 -9.159802e-01  9.160569e-01  1.821528e+00
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##  [15783,] -1.540808e+00  2.631290e-01 -1.199904e-01 -7.756622e-01
##  [15784,] -4.993175e-01 -8.000712e-01  9.847092e-01 -1.574785e-01
##  [15785,] -5.082892e-01 -8.709522e-01 -1.810365e+00 -4.677577e-01
##  [15786,] -2.165345e+00 -5.034741e-02 -2.367363e-01 -4.924838e-01
##  [15787,]  7.951854e-02  3.731378e-01  9.350499e-01 -3.205551e-01
##  [15788,] -7.301826e-01 -6.529130e-01  1.240121e+00 -6.907638e-01
##  [15789,]  7.881029e-01 -1.447595e+00  1.342080e+00 -7.840912e-01
##  [15790,] -5.099152e-01 -1.330764e-01 -1.529746e+00 -3.814864e-01
##  [15791,]  5.623313e-01 -1.843298e-01 -6.857513e-02 -7.682591e-01
##  [15792,] -1.264164e+00  9.568363e-02  9.260145e-01 -1.263488e-01
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##  [15794,] -1.592208e+00 -3.014562e-01  1.080075e+00 -6.536402e-01
##  [15795,] -5.784511e-01  1.286179e+00 -1.902649e+00 -4.603763e-01
##  [15796,]  1.521449e+00 -3.342142e-02  9.148860e-01  1.718859e+00
##  [15797,] -2.627339e-01  1.045433e+00  1.058807e+00 -9.666400e-01
##  [15798,] -2.266561e+00  6.833817e-01 -8.710226e-01 -7.744630e-01
##  [15799,]  4.408908e-01  5.890820e-02  1.330650e+00 -9.071140e-01
##  [15800,] -2.581422e-01  5.217642e-01  1.477391e+00 -1.297084e+00
##  [15801,]  3.118069e-01 -5.317791e-01  9.946859e-01  1.689817e+00
##  [15802,]  8.578306e-02 -1.325775e-01 -7.172383e-01 -8.418052e-02
##  [15803,]  1.093271e-01 -3.657027e-01 -2.913564e-01 -3.690797e-01
##  [15804,]  2.598605e-01  3.481439e-01 -1.839695e-01 -1.930095e-01
##  [15805,] -1.354592e-01 -1.072164e+00  1.463046e+00  9.102890e-01
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##  [15819,] -1.422132e-02 -1.507409e+00 -5.421209e-01 -7.191871e-01
##  [15820,]  7.178295e-01 -7.759460e-01  1.079715e+00 -4.239789e-01
##  [15821,] -1.314961e+00  7.464565e-01 -1.193375e+00 -6.808494e-01
##  [15822,]  7.496465e-01 -9.001342e-01 -1.409910e+00 -8.766155e-01
##  [15823,] -1.675152e+00 -7.449030e-01 -9.585271e-02 -7.206359e-01
##  [15824,]  8.419914e-02 -8.317511e-01  1.041406e+00 -3.464402e-01
##  [15825,] -7.912188e-01  1.390350e+00 -5.987654e-01  9.719047e-01
##  [15826,]  2.254556e-01 -6.415747e-01 -1.450809e+00  1.786515e+00
##  [15827,] -1.181225e+00 -1.090188e+00 -5.511348e-01  2.150986e+00
##  [15828,] -1.170638e+00 -6.507542e-01  4.876878e-02 -9.973487e-01
##  [15829,]  8.109416e-01  1.600796e-01 -5.740489e-01  1.812971e+00
##  [15830,]  8.385715e-01 -6.821457e-01  4.473382e-01  1.359289e+00
##  [15831,] -6.603860e-01 -1.653761e+00 -7.887798e-03 -6.719847e-01
##  [15832,]  1.192171e+00  3.483672e-01  2.728763e-01  9.202634e-01
##  [15833,] -9.297315e-02  8.799959e-01  1.708337e-04  8.603733e-01
##  [15834,]  7.986267e-01  3.143228e-02  9.157984e-01  1.705286e+00
##  [15835,] -1.570579e+00 -2.987075e-01 -6.911275e-02 -5.813079e-01
##  [15836,] -1.483252e+00  8.778321e-01 -2.136695e-02 -1.010237e+00
##  [15837,]  1.031654e+00  2.776067e-01  4.009903e-01  1.573958e-02
##  [15838,]  1.500495e-01 -1.981687e-01  1.060753e+00 -4.818625e-01
##  [15839,]  3.592982e-01 -5.311757e-01 -5.624942e-01  4.089815e-01
##  [15840,]  1.756065e-01 -9.695676e-01 -2.653078e-01  1.226932e+00
##  [15841,] -1.562890e+00 -1.128758e+00  1.149882e+00  1.463185e+00
##  [15842,]  3.441682e-01  2.099490e-01  9.277553e-01 -2.359126e-02
##  [15843,]  8.155678e-01 -8.543298e-01  1.246530e+00  1.290182e+00
##  [15844,]  3.477157e-01  2.790716e-01  8.555165e-01  1.371789e-02
##  [15845,] -1.655870e+00  6.734701e-01 -1.577784e+00 -7.306167e-01
##  [15846,]  1.359867e-01 -8.517668e-01  1.301804e+00 -6.413748e-01
##  [15847,] -2.021047e-01 -8.728934e-01 -9.793343e-03 -8.312522e-01
##  [15848,] -1.935554e+00  3.563342e-01  1.017327e+00 -3.424479e-01
##  [15849,] -5.124697e-01  2.818036e-01  2.400116e-01 -2.916570e-01
##  [15850,]  7.711068e-01  4.548783e-01 -5.215096e-01 -6.280529e-02
##  [15851,] -6.789405e-01 -1.189479e+00 -1.264311e+00 -7.048307e-01
##  [15852,] -1.073972e+00 -1.588851e-01 -8.827523e-01 -1.295371e+00
##  [15853,] -4.192114e-01 -5.277368e-01 -3.714288e-01  1.633110e+00
##  [15854,] -2.862146e-01 -2.048391e-01  1.438040e+00  8.819436e-01
##  [15855,] -5.511091e-01 -1.173863e-01  1.241930e+00  9.607976e-01
##  [15856,] -2.042565e+00  8.361465e-01  9.107426e-01 -1.052527e-01
##  [15857,]  4.596647e-02 -3.306308e-01 -1.684597e+00 -4.509889e-01
##  [15858,] -8.290460e-02 -8.371582e-01 -4.159155e-01 -5.728667e-01
##  [15859,]  4.383135e-01  1.138777e-01  6.399126e-01  3.808879e-01
##  [15860,]  1.243320e-01 -9.670961e-01  2.445054e-01 -7.052269e-01
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## [15861,] -6.173560e-01  9.961626e-01 -1.081973e+00 -6.663045e-01
## [15862,]  7.361883e-01 -8.999061e-01 -2.273685e-01 -4.222241e-01
## [15863,] -7.449407e-02  1.175300e+00  3.349430e-01 -9.059088e-01
## [15864,] -2.312187e+00 -3.830724e-01  1.330163e+00 -8.712838e-01
## [15865,] -1.226526e-01 -2.027242e-01 -1.259838e-01 -5.855940e-01
## [15866,] -5.894049e-01 -8.115184e-01 -1.522038e+00  1.622323e+00
## [15867,]  7.159206e-01 -9.822562e-01  1.112503e+00 -4.541729e-01
## [15868,] -1.539690e+00  1.135927e+00  1.240473e+00  9.718339e-01
## [15869,] -7.562420e-01 -5.068588e-01 -7.070356e-01 -3.090904e-01
## [15870,] -1.054537e-01 -1.424212e-01  4.212247e-01 -5.243945e-01
## [15871,] -5.414034e-01 -2.724387e-01 -2.057043e+00  1.987906e+00
## [15872,] -1.675805e+00  2.103268e-01  1.518446e+00 -1.314857e+00
## [15873,]  4.034789e-01  2.236510e-01  1.301972e+00 -9.587689e-01
## [15874,]  9.533268e-01 -2.704432e-01  1.045698e+00  1.584569e+00
## [15875,]  2.246560e-01 -7.699045e-01  1.455810e-01 -1.769128e-01
## [15876,]  3.472150e-01 -7.481672e-01 -3.455394e-01  1.730051e+00
## [15877,]  1.352252e+00  2.059182e-01 -4.998387e-01 -5.599866e-01
## [15878,] -2.095714e+00 -3.878580e-01  7.830051e-01 -8.310439e-01
## [15879,] -5.139179e-01  6.673854e-01  6.367335e-01  1.537665e-01
## [15880,]  1.493908e+00  4.024690e-01  8.383244e-01 -1.312346e-01
## [15881,] -6.713798e-01 -2.816035e-01 -2.389537e-01 -5.132430e-01
## [15882,] -1.179648e+00  5.265852e-01  1.205958e+00 -8.518635e-01
## [15883,]  1.993473e-01 -1.151527e+00 -1.268677e-01  1.561034e+00
## [15884,]  1.080008e+00  2.284741e+00 -9.246754e-01 -1.011145e+00
## [15885,]  6.596486e-01 -4.664411e-01 -1.274439e+00 -4.881691e-01
## [15886,]  1.108705e+00 -8.640411e-01 -7.208717e-01 -1.075265e+00
## [15887,]  3.564781e-01 -1.624233e-01 -1.262275e+00  6.527567e-01
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## [15889,]  3.414781e-01 -1.432293e-01 -1.072957e+00 -3.832531e-02
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## [15895,]  7.721502e-01 -3.714413e-01  8.821327e-01 -1.290477e-01
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## [15897,]  1.068893e-01 -1.147941e+00 -1.321231e+00 -6.293560e-01
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## [15900,] -2.143500e+00 -4.992971e-01  1.302589e+00  1.226833e+00
## [15901,]  6.926195e-01 -4.726733e-01  1.091684e+00 -4.558282e-01
## [15902,]  6.960904e-01 -7.897359e-01  1.376573e+00  1.014107e+00
## [15903,]  1.771788e-01 -7.450635e-02 -1.957175e+00 -3.247290e-01
## [15904,] -7.734774e-01 -4.765183e-01 -3.468456e-01  1.467623e+00
## [15905,]  2.357828e-01 -1.030748e+00 -2.782890e-01 -3.876187e-01
## [15906,] -3.223628e-02  8.557967e-02 -1.710005e+00 -7.225117e-01
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## [15909,] -5.400130e-01 -1.488379e+00 -3.051151e-01 -1.399786e-01
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## [15911,]  3.532543e-01 -1.817599e-01 -2.163611e+00  8.643554e-02
## [15912,] -1.493665e+00  2.442637e-01  1.278501e+00 -8.697819e-01
## [15913,]  8.153696e-01 -6.134838e-02  9.376000e-01 -2.198690e-01
## [15914,] -1.405960e+00  1.336998e+00  3.663614e-02 -7.647764e-01
## [15915,]  8.591609e-01 -1.474336e-01 -5.475050e-01 -1.569000e-01
## [15916,]  6.429615e-01 -1.279739e+00 -4.355415e-02  1.246082e+00
## [15917,] -8.664326e-03 -5.982756e-02 -1.627902e+00 -9.301189e-01
## [15918,]  3.445634e-01 -3.147870e-01  9.325425e-01 -6.250093e-02
## [15919,] -1.503642e-01 -1.777575e+00  1.508312e+00  1.010792e+00
## [15920,]  3.960649e-01  2.140806e+00 -8.410722e-02  1.035290e+00
## [15921,] -2.824766e-01  6.697086e-01 -5.217469e-01 -8.326537e-01
## [15922,] -7.712103e-02  1.387412e-01  1.145790e+00 -6.302629e-01
## [15923,]  1.405399e+00  1.325042e-01 -2.696435e-01 -5.354479e-02
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## [15928,]  6.061712e-01 -1.009387e+00  1.210219e+00 -6.169559e-01
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## [15931,]  5.834718e-01 -1.600753e+00  1.422904e+00  1.075275e+00
## [15932,] -6.331169e-01  8.231998e-01  5.490789e-01  1.476928e+00
## [15933,] -5.826754e-01 -6.308786e-01 -5.266060e-01 -3.842957e-01
## [15934,] -8.454017e-01 -1.628132e+00  3.049638e-01  1.148554e+00
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## [15936,] -1.445727e+00 -1.604320e+00 -1.366730e+00 -4.456453e-01
## [15937,] -1.998969e+00 -6.563373e-02  1.124312e+00 -5.353327e-01
## [15938,] -2.324257e+00  1.566548e+00 -6.272794e-01 -5.293190e-01
## [15939,]  3.494576e-01 -3.498151e-01  9.279134e-01  1.800511e+00
## [15940,] -4.984854e-01 -2.440764e-01 -1.943220e+00  1.676718e+00
## [15941,] -1.409088e+00  3.339376e-01 -4.454394e-01  1.725470e+00
## [15942,]  6.165809e-02 -1.354326e+00  1.456209e-01 -5.178301e-01
## [15943,]  1.743627e-01 -8.111225e-02 -6.376993e-02  1.336230e-01
## [15944,]  7.305545e-01 -4.476260e-01  6.336788e-02 -5.115173e-01
## [15945,]  8.226126e-01 -1.055064e+00  1.239399e+00  1.292007e+00
## [15946,]  9.189947e-05 -7.581249e-01 -3.988302e-02  1.243090e+00
## [15947,]  6.607352e-01 -1.856675e-01 -2.415592e-01 -4.245758e-01
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## [15951,]  1.022401e+00 -2.652190e-01  7.842984e-01  4.769307e-02
## [15952,]  1.038580e+00 -4.340171e-02  8.323795e-01 -1.070254e-02
## [15953,] -8.137302e-01  4.527189e-01  1.351817e+00 -1.036303e+00
## [15954,] -3.136373e-01  4.385944e-01  3.610527e-02 -2.319144e-01
## [15955,] -2.142885e+00 -8.257455e-01 -4.325367e-01 -5.701929e-01
## [15956,]  1.313006e-01 -1.624521e-01  8.032333e-01 -5.602992e-01
## [15957,] -1.110247e+00 -9.359579e-01 -1.434566e+00  1.922109e+00
## [15958,]  6.844216e-01 -7.598132e-01  4.103519e-01  1.421031e+00
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##  [15961,] -6.272719e-01  1.085640e-01  3.852758e-01 -4.274014e-01
##  [15962,] -5.016096e-01 -5.672128e-02  5.049074e-01 -7.435504e-02
##  [15963,] -1.889524e+00  3.425238e-01  7.497548e-01  2.166556e-01
##  [15964,]  7.343226e-01  4.817287e-01 -4.992002e-02 -1.509721e-01
##  [15965,]  1.860917e-01 -3.475085e-01  9.348245e-01 -1.629034e-01
##  [15966,] -3.893700e-02 -1.233925e+00  5.872456e-01  1.059579e+00
##  [15967,] -1.406523e+00 -1.615686e+00  1.444812e-01  1.506038e+00
##  [15968,] -2.205776e+00  4.183568e-01  1.022250e+00 -4.063993e-01
##  [15969,]  1.007759e-01 -1.103186e-01 -7.883110e-01 -2.814614e-02
##  [15970,]  8.180659e-01 -1.242188e-01  8.546829e-01 -1.005969e-01
##  [15971,] -1.704792e+00  6.828664e-01  2.957367e-01 -7.546801e-01
##  [15972,]  7.009021e-01 -9.164205e-01 -1.589059e+00  1.144522e+00
##  [15973,] -1.211846e-01  7.496890e-01 -1.052650e+00 -8.111303e-01
##  [15974,] -2.175173e+00 -4.298029e-01  1.169989e+00 -4.593793e-01
##  [15975,] -9.118560e-01  1.684311e+00  8.140744e-01 -1.153330e+00
##  [15976,]  2.963971e-01 -1.611917e-01 -3.442219e-01 -1.822124e-01
##  [15977,]  6.579418e-02  1.530298e+00 -2.680788e-01 -6.016007e-01
##  [15978,]  8.478460e-01 -1.304864e-01 -1.807364e-01 -4.182187e-01
##  [15979,]  2.095178e-01 -1.140004e-01 -1.090019e+00  1.417973e-02
##  [15980,]  3.224771e-01 -3.400587e-01 -1.937161e-01  1.863339e+00
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##  [15984,]  8.159967e-02  1.512704e+00  1.092505e+00 -6.900404e-01
##  [15985,]  1.182797e+00 -8.131299e-01  8.904829e-01  9.101264e-01
##  [15986,] -2.149598e+00  1.449300e+00 -6.078265e-01  1.564309e+00
##  [15987,] -1.392815e+00 -1.484140e+00 -1.873847e+00  1.743779e+00
##  [15988,] -5.014820e-01  2.487364e-01  8.119227e-01 -5.042890e-02
##  [15989,] -1.199929e+00 -1.041831e+00  9.406723e-01 -6.222316e-02
##  [15990,] -2.071216e-01  1.233803e+00  7.111802e-01 -5.920739e-01
##  [15991,]  1.188440e-01 -6.153858e-01 -3.790807e-01 -2.482294e-01
##  [15992,]  1.109006e+00  8.249045e-01 -2.462960e-01  9.503973e-01
##  [15993,]  6.312744e-01  1.636461e-01 -4.737969e-02 -4.449278e-01
##  [15994,] -8.964249e-01 -6.337588e-01  7.422973e-01 -1.110872e+00
##  [15995,]  5.680571e-01 -2.326058e-01  1.142647e+00 -6.120274e-01
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##  [16000,]  5.863670e-02  5.230721e-01 -1.870239e+00 -5.452464e-01
##  [16001,] -8.263763e-01  1.870803e+00 -3.360517e-01 -7.075950e-01
##  [16002,] -1.482639e-01  7.426167e-01 -5.554151e-01 -5.381902e-01
##  [16003,] -3.276839e-02 -1.261885e+00 -1.483542e-01 -4.775506e-01
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##  [16007,] -1.096257e+00 -1.451589e+00 -1.125239e+00  8.396436e-02
##  [16008,]  6.688591e-01 -1.313491e+00 -1.421856e+00  8.151711e-01
##  [16009,] -1.545134e+00  1.380320e+00  1.155912e+00 -8.458326e-01
##  [16010,]  3.633218e-01 -3.896582e-01  3.202202e-03 -4.121815e-02
##  [16011,] -6.827087e-01  6.282481e-01 -1.584530e-02  9.055180e-01
##  [16012,] -1.585050e-02 -6.600872e-01 -8.083751e-02 -8.000396e-01
##  [16013,] -1.109040e+00  4.733574e-01  8.678975e-01 -1.311075e-01
##  [16014,]  7.593261e-01 -2.728817e-02 -4.025150e-01 -2.520836e-01
##  [16015,]  6.299011e-01 -5.539177e-01  1.163400e-01 -1.084667e+00
##  [16016,] -1.202431e+00  7.122483e-01 -5.161174e-01  1.437049e+00
##  [16017,]  7.940318e-01 -2.227522e-01 -4.534464e-01 -9.062143e-02
##  [16018,] -2.216624e-01 -1.591941e+00  1.216869e-01 -9.679168e-01
##  [16019,]  2.048184e-01  9.278524e-01  3.537445e-01 -1.641332e-01
##  [16020,] -3.027640e+00  4.821605e-01 -4.378720e-02  3.010345e-01
##  [16021,] -2.380966e+00 -4.387670e-01  1.586248e+00  6.643794e-01
##  [16022,] -1.003841e+00  2.227087e-01 -1.320213e+00 -1.535755e+00
##  [16023,]  9.538617e-01 -1.697054e-01 -5.344596e-01 -1.555939e-01
##  [16024,]  1.133437e+00 -5.683753e-01  9.339272e-02 -8.340629e-01
##  [16025,] -1.131858e+00  7.995223e-01  9.950545e-01 -3.758766e-01
##  [16026,] -4.279954e-01 -1.119694e+00  1.008506e+00 -2.274971e-01
##  [16027,]  8.810554e-01 -1.596205e-01 -2.851261e-01  1.522716e+00
##  [16028,]  5.301844e-02 -6.236622e-01 -1.854562e-01 -6.251743e-01
##  [16029,]  4.917204e-02 -3.768835e-01 -1.196155e-01  1.305802e+00
##  [16030,]  7.202599e-01 -3.784668e-01 -3.481180e-01 -3.734833e-01
##  [16031,]  2.391899e-01  5.550340e-01  1.073635e+00 -5.320593e-01
##  [16032,]  1.999497e-01  3.572495e-01 -1.596834e+00 -2.405531e-01
##  [16033,]  1.029994e+00  1.634057e-01 -5.734226e-01 -5.740973e-02
##  [16034,]  8.173520e-01 -1.906488e-01  1.156788e+00 -5.705269e-01
##  [16035,]  1.886217e-01 -4.051786e-01 -1.511062e+00 -1.020374e-01
##  [16036,] -2.537980e-01  5.040875e-01  1.322099e+00 -1.384698e+00
##  [16037,]  2.339717e-01 -4.572168e-01 -5.132826e-01 -3.884505e-01
##  [16038,]  3.526981e-01 -2.707872e-01 -1.446644e+00  9.635567e-02
##  [16039,] -1.161564e+00  8.323158e-01 -2.014422e+00  1.746719e+00
##  [16040,] -8.600997e-01  1.212484e+00 -3.273849e-02 -1.124775e+00
##  [16041,] -4.077887e-01  1.082729e+00  7.296003e-01  2.645305e-02
##  [16042,]  2.180392e-01 -7.139126e-01 -3.869739e-01  1.653502e+00
##  [16043,] -9.009998e-02 -3.260553e-01  1.239405e+00 -8.117460e-01
##  [16044,]  4.507433e-01 -5.177854e-01 -7.881118e-01  1.841577e-01
##  [16045,]  2.161264e-01 -8.185536e-01 -1.697422e+00 -7.971277e-02
##  [16046,]  1.604971e-01 -9.992643e-02  2.319422e-01 -2.177491e-01
##  [16047,] -2.323711e+00  1.239912e+00 -1.845228e+00 -6.622209e-01
##  [16048,] -8.081297e-01 -1.262761e+00  1.193632e+00 -5.142459e-01
##  [16049,] -9.635712e-01  6.388705e-01  5.195188e-01  2.221307e-01
##  [16050,] -8.393395e-01  2.172570e+00  7.966244e-01 -1.058564e+00
##  [16051,] -7.454269e-02 -1.327583e+00 -1.543605e+00 -8.770154e-01
##  [16052,]  6.059492e-01 -6.153274e-01  1.188505e+00 -5.812384e-01
##  [16053,] -2.280650e+00  1.400713e-01  1.200215e+00 -5.826368e-01
##  [16054,]  1.634868e+00  7.706549e-01  8.765451e-01 -1.392880e-01
##  [16055,] -2.279839e-01  1.058058e-01  1.300530e+00 -9.838357e-01
##  [16056,] -2.392000e-01  6.287766e-01 -1.493138e+00 -1.256010e+00
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## [16057,] -6.057508e-01  1.311051e+00  8.350382e-01 -1.868190e-01
## [16058,]  7.241672e-01  5.430046e-01  9.385380e-01 -2.664828e-01
## [16059,]  6.044013e-01 -1.268210e+00  1.290028e+00 -6.671609e-01
## [16060,] -1.595729e+00 -6.360060e-01 -1.794102e+00  1.377858e+00
## [16061,] -3.593669e-02 -2.318801e-01 -1.733729e+00  1.199273e+00
## [16062,] -1.331368e+00 -1.356345e+00 -3.455171e-01  1.853560e+00
## [16063,] -7.318172e-01  1.370883e+00  1.063103e-02 -5.448137e-01
## [16064,] -4.870765e-03  6.550475e-01 -1.040441e+00 -1.726787e-01
## [16065,]  8.628581e-01  6.298251e-01  7.684805e-01  1.618594e-01
## [16066,]  1.210420e+00 -3.010021e-01  7.691129e-01 -5.640556e-01
## [16067,] -1.480397e+00  1.515248e-01  1.420916e+00 -1.079213e+00
## [16068,]  7.644649e-01  1.037590e+00 -6.463952e-01 -2.899860e-01
## [16069,]  1.650456e-01 -5.560519e-01 -9.329477e-01 -5.317722e-01
## [16070,] -6.782654e-01 -9.956843e-01  1.185838e+00 -4.154626e-01
## [16071,] -9.074934e-01  2.182701e+00 -9.191332e-01 -1.208524e+00
## [16072,] -1.201926e+00  1.069562e+00  7.959070e-01  1.991820e+00
## [16073,] -2.080542e+00 -6.210862e-01  1.224589e+00  1.269258e+00
## [16074,]  4.439634e-02 -2.891120e-02 -2.436347e-01  1.365076e+00
## [16075,] -9.090107e-01 -1.328591e-01 -1.482382e+00 -8.929961e-01
## [16076,] -4.917473e-02 -4.803297e-01  1.163556e+00 -6.263247e-01
## [16077,] -7.109313e-01  1.899212e-02  1.389679e+00 -1.057559e+00
## [16078,]  7.254655e-01  5.276663e-02 -1.724450e+00 -3.871172e-01
## [16079,] -4.789580e-01  7.847529e-01  6.541286e-01 -1.759542e-01
## [16080,]  7.758282e-01 -5.419108e-01 -1.016793e+00  1.543958e+00
## [16081,]  7.839394e-01 -7.153821e-02  1.015729e+00 -3.098568e-01
## [16082,] -1.032470e+00 -1.942341e-01 -1.048812e+00  8.643005e-01
## [16083,]  8.583053e-01 -4.538854e-01 -1.326941e+00 -1.000983e-01
## [16084,] -1.485137e+00 -2.157751e-01 -6.903637e-01  1.776329e+00
## [16085,]  2.667550e-01 -4.181129e-01  7.738636e-01  1.552390e+00
## [16086,]  8.579390e-01  3.120284e-02 -4.988361e-01 -4.095265e-01
## [16087,]  1.055563e+00 -5.059525e-01 -5.067519e-01 -2.494845e-02
## [16088,] -4.570283e-01 -3.542316e-01  9.264602e-01 -2.004401e-01
## [16089,]  8.280003e-01 -5.330490e-01  1.101314e+00  1.567736e+00
## [16090,]  5.556288e-01 -1.110289e+00  1.382349e+00  1.070211e+00
## [16091,] -4.942743e-01 -9.618027e-01  1.124613e-01  1.418695e+00
## [16092,] -2.602526e-01 -7.134708e-01  5.312434e-02  1.982048e-01
## [16093,]  7.754190e-01 -5.973564e-01 -1.166797e+00 -6.653289e-01
## [16094,] -1.234054e+00  1.490089e+00 -4.221188e-01 -1.560030e-01
## [16095,] -1.219424e+00 -8.567791e-02 -2.909265e-01 -5.202294e-01
## [16096,] -6.575139e-01  5.985057e-01  2.941248e-01 -3.942682e-01
## [16097,]  8.640047e-02 -3.639670e-01 -4.545945e-01 -7.059417e-01
## [16098,]  1.847723e-01 -2.750220e-01  8.753074e-01 -1.393892e-01
## [16099,]  6.858551e-01 -4.284546e-01  4.538091e-01  1.275977e+00
## [16100,] -2.437581e-02  4.822123e-01  4.544551e-02 -8.903741e-01
## [16101,]  2.126934e-01 -8.965158e-01  1.103655e+00  1.555352e+00
## [16102,]  1.858428e-01  6.828038e-01 -7.171989e-01 -2.498304e-02
## [16103,] -1.576887e+00  5.437366e-01  2.412200e-01 -5.370026e-01
## [16104,] -1.142097e+00 -1.863986e+00  9.985953e-01 -2.824455e-02
## [16105,] -5.288787e-01 -2.233738e-01  1.956822e-01 -1.660985e-01
## [16106,] -1.853150e-01  1.680341e+00 -1.856137e+00 -7.676314e-01
## [16107,] -5.047205e-01  6.405873e-01 -3.053648e-01  1.304245e+00
## [16108,] -2.278838e+00  6.755542e-01 -4.538348e-01 -5.649367e-01
## [16109,] -7.414629e-01  3.050443e+00 -5.131178e-01  1.197352e+00
## [16110,] -7.390011e-01 -3.476422e-01 -1.724145e-01  1.886430e+00
## [16111,]  2.168182e-01 -1.898261e-01 -1.562649e+00 -3.841981e-01
## [16112,] -5.195973e-01  8.746582e-01  9.642554e-01 -2.909434e-01
## [16113,]  5.909720e-01 -7.387864e-01  1.242942e+00 -7.281981e-01
## [16114,]  1.122618e+00  2.223772e-01  1.168412e+00 -7.045443e-01
## [16115,]  5.680048e-01  8.975108e-01  9.259331e-01 -7.004144e-01
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## [16118,]  9.642436e-01 -9.370661e-02 -2.021280e+00 -2.487051e-01
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## [16120,]  8.581011e-01  1.389187e-01 -1.903502e+00 -3.926048e-01
## [16121,]  7.141385e-01 -1.071931e+00 -1.494768e+00 -9.963991e-01
## [16122,] -7.235985e-01 -2.752573e-01  1.136143e+00 -6.140040e-01
## [16123,] -7.207345e-01 -1.230723e+00  1.266646e+00  1.309888e+00
## [16124,] -9.697189e-02  9.503068e-01 -1.135087e+00 -6.305891e-01
## [16125,] -3.479584e-02 -1.011502e+00 -9.977734e-02 -4.672267e-01
## [16126,]  5.367602e-01  6.641950e-01 -1.646994e-01 -6.207768e-01
## [16127,]  2.413926e-01  2.688071e-01 -1.856565e+00 -2.667783e-01
## [16128,]  7.275905e-01 -8.891108e-01 -7.457789e-01 -4.582332e-01
## [16129,] -1.545688e+00  7.281623e-01  1.856592e-01 -4.427586e-01
## [16130,]  4.485552e-01 -2.548232e-01  1.430096e+00  7.257711e-01
## [16131,]  1.278494e+00  9.760707e-01 -1.450740e+00 -6.652442e-01
## [16132,]  9.457481e-01  7.313159e-02 -4.227883e-01  1.571721e+00
## [16133,] -1.492034e+00 -2.791896e-01  1.030921e+00  1.416672e+00
## [16134,]  8.552903e-02 -8.440137e-01 -1.604864e+00 -8.095910e-01
## [16135,] -1.319571e+00 -1.744125e+00 -7.855370e-01  1.358443e+00
## [16136,]  4.813339e-01  1.893102e+00 -6.111985e-01 -7.081971e-01
## [16137,] -3.529684e-01  1.026614e+00 -6.328352e-01  8.804855e-01
## [16138,] -4.590014e-02  3.543640e-01 -1.271183e+00  1.194385e+00
## [16139,]  8.936151e-01  1.762920e-01  7.698812e-01  1.014458e-02
## [16140,]  1.782131e-01  7.489919e-01  1.807654e-01  3.996232e-01
## [16141,]  1.386549e+00  1.627058e+00  9.761222e-01 -3.021499e-01
## [16142,]  6.389496e-01 -6.188327e-02 -1.213909e-01  1.174770e+00
## [16143,] -1.742964e+00 -8.869647e-01 -2.125139e+00  1.460093e-01
## [16144,]  5.259972e-01 -7.819545e-01  1.297499e+00 -7.888839e-01
## [16145,] -5.963792e-01 -3.194921e-01 -4.795856e-01 -1.051062e-01
## [16146,] -1.590646e+00 -5.817758e-01  2.042591e-01 -6.998476e-01
## [16147,]  4.556393e-01 -1.201660e+00  1.484614e-01 -1.038572e+00
## [16148,]  6.901967e-01 -4.378109e-01 -1.838610e-01 -3.918684e-01
## [16149,] -5.924413e-02 -1.210541e+00  2.090348e-01  1.283477e+00
## [16150,] -6.243303e-01 -1.932374e+00 -1.239445e+00  9.483239e-01
## [16151,]  7.898541e-01  1.182664e+00  9.315703e-01 -4.462370e-01
## [16152,] -4.194123e-01 -8.258069e-01 -6.113877e-01 -2.262533e-01
## [16153,]  1.910743e-01 -9.448316e-01 -1.741174e+00 -5.613676e-01
## [16154,]  7.716639e-02 -6.006554e-01 -9.987100e-01 -3.807789e-01
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##  [16156,]  8.063492e-01  1.974265e+00 -4.278154e-01 -4.174854e-01
##  [16157,]  2.033788e-01  2.738581e-01 -2.187758e+00  1.180733e-02
##  [16158,]  2.059354e-01  4.540609e-01  9.812190e-01 -6.396282e-01
##  [16159,]  8.426235e-01 -6.064986e-01 -1.757935e-01 -5.673714e-01
##  [16160,]  2.188636e-01 -7.239156e-01 -1.935641e+00  1.735938e+00
##  [16161,] -3.139038e-02 -2.360520e-01  2.416283e-01 -1.024971e+00
##  [16162,] -7.115142e-01  5.706988e-01 -1.556372e+00 -1.074399e+00
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##  [16167,] -9.342493e-01  1.310989e+00 -4.295604e-01 -7.907575e-01
##  [16168,]  7.642265e-01 -1.439783e-01  1.084744e+00 -5.570079e-01
##  [16169,] -3.169362e+00 -6.356667e-01  1.074539e+00 -3.234471e-01
##  [16170,] -2.247912e+00  5.034599e-01  1.932547e-01 -5.957504e-01
##  [16171,]  8.457641e-01  1.231397e+00  8.079294e-01 -2.095178e-02
##  [16172,] -1.316074e+00 -2.903882e-01 -3.012858e-01 -2.846335e-01
##  [16173,]  8.754094e-01  5.747644e-01  1.185428e+00  1.443448e+00
##  [16174,] -4.048446e-01  2.703912e-01  9.949850e-02 -3.206065e-01
##  [16175,]  1.093956e+00 -1.123259e+00 -3.709157e-01 -1.111351e+00
##  [16176,] -2.052930e+00  2.966184e-02 -1.698109e+00 -3.801828e-01
##  [16177,]  5.040304e-01 -9.493141e-02  6.653519e-01  3.609612e-01
##  [16178,] -7.390297e-01  1.417431e+00 -1.045659e-01 -1.163802e+00
##  [16179,]  1.759792e-01 -9.307781e-01 -1.380160e+00 -5.822167e-01
##  [16180,]  1.111747e-01 -1.046300e+00  2.661651e-02 -6.024437e-01
##  [16181,]  6.880249e-01 -8.417352e-01  2.338335e-02 -8.690698e-01
##  [16182,]  2.596430e-01  9.292875e-01 -1.819339e+00 -1.960609e-01
##  [16183,]  6.483067e-01 -5.685728e-01 -8.261100e-01 -1.055122e+00
##  [16184,] -2.654102e-01 -8.090522e-01 -7.968010e-01  1.430775e-01
##  [16185,] -6.873732e-01 -4.794135e-01 -2.109032e-01 -5.688837e-01
##  [16186,]  3.500439e-01 -5.835980e-01 -1.479270e+00 -1.125206e-01
##  [16187,]  4.776184e-01  2.013438e+00  1.124487e+00 -6.209841e-01
##  [16188,]  1.278810e-01 -1.008919e+00 -1.552828e+00 -5.639826e-01
##  [16189,] -8.066944e-01  1.015668e+00  1.197056e+00  1.123663e+00
##  [16190,] -2.085010e+00  1.115383e+00 -1.946586e+00  1.509511e+00
##  [16191,]  1.632531e-01 -1.754345e-01 -1.905915e+00  1.655788e+00
##  [16192,]  7.091847e-01  9.105621e-01  9.553650e-01 -7.002624e-01
##  [16193,] -2.774153e-01 -5.282746e-01  7.314577e-01  2.088420e-01
##  [16194,] -1.594466e-01 -1.488210e-01  7.762449e-01 -6.211891e-01
##  [16195,]  1.146528e-01 -1.150722e+00  1.001259e+00  1.491572e+00
##  [16196,] -2.507240e+00  4.019632e-02  1.457753e+00 -1.126146e+00
##  [16197,] -1.108629e+00 -2.745732e-01 -7.932224e-01 -1.157247e+00
##  [16198,]  1.343664e+00 -4.439013e-01 -1.725089e-01 -5.101643e-01
##  [16199,] -6.679643e-01  8.114633e-01 -1.893551e+00 -4.773408e-01
##  [16200,] -1.521979e+00 -9.035695e-01 -1.176679e+00 -2.446228e-01
##  [16201,] -2.621822e+00  2.017195e+00 -1.973025e+00  1.753370e+00
##  [16202,]  9.440684e-01 -4.892658e-01  9.429260e-01 -2.677766e-01
##  [16203,]  2.083195e-01  1.511869e-01 -2.043380e+00 -2.168705e-01
##  [16204,] -7.521708e-01  1.156312e+00  1.042487e+00 -5.337214e-01
##  [16205,] -1.313216e+00  1.436957e+00  2.856139e-02 -3.260505e-01
##  [16206,]  9.150243e-01  4.257081e-02  8.429080e-01  1.700318e-02
##  [16207,]  3.601420e-02 -1.437756e+00  9.993064e-02  1.036651e+00
##  [16208,]  5.273622e-01 -1.103295e+00  3.551018e-01  7.258859e-01
##  [16209,] -1.715047e+00  2.156644e+00 -2.983422e-02  8.412263e-01
##  [16210,] -7.215771e-02  2.679481e-01 -2.315839e-01  1.188407e+00
##  [16211,] -5.809555e-02 -5.865841e-01 -5.963047e-01  1.134438e+00
##  [16212,]  8.699732e-01  7.008267e-01 -1.660430e-01 -2.524081e-01
##  [16213,]  2.130445e-01 -5.202094e-01 -4.075100e-01  1.664899e+00
##  [16214,] -5.608128e-01 -9.650062e-01  1.726277e-01 -5.878885e-01
##  [16215,] -1.066689e+00  4.828580e-01  1.045835e+00 -9.121241e-01
##  [16216,]  9.905747e-02  1.281165e+00 -1.475612e+00 -3.475178e-01
##  [16217,]  3.884266e-02 -7.045387e-01  9.959850e-01 -2.137791e-01
##  [16218,]  8.870453e-01 -5.620643e-01 -3.002012e-01 -3.436541e-01
##  [16219,]  1.599174e-01 -4.273675e-01 -1.986431e+00 -1.950985e-01
##  [16220,]  2.947736e-01  2.229742e-02  3.790725e-02  2.128725e-01
##  [16221,] -1.085235e-01 -2.538822e-01  1.226891e+00 -7.489399e-01
##  [16222,] -4.212295e-01 -5.220127e-01  7.568012e-01  2.129454e+00
##  [16223,]  1.273993e+00 -2.706495e-01  1.237056e+00 -7.526168e-01
##  [16224,]  6.274122e-01 -6.284331e-01 -1.384326e+00 -5.920302e-01
##  [16225,] -1.756519e-01 -6.104103e-01 -4.662217e-02  7.890507e-01
##  [16226,] -4.888550e-02  4.772800e-01 -2.113642e+00  7.748470e-01
##  [16227,]  5.668795e-01  3.982841e-01  1.019136e+00 -5.253560e-01
##  [16228,] -2.562941e+00 -8.404248e-02  8.333006e-01 -9.862122e-02
##  [16229,] -5.579376e-02 -1.694123e-01 -3.267127e-01 -3.812242e-01
##  [16230,]  1.393118e-01 -1.192467e+00 -2.876218e-01 -2.817990e-01
##  [16231,] -4.972627e-01 -5.531999e-01  1.057013e+00 -3.398067e-01
##  [16232,] -2.441675e+00  3.436773e-01  4.218887e-01 -9.479904e-01
##  [16233,] -7.015064e-01  1.707620e-01 -4.875304e-01 -3.277226e-01
##  [16234,]  6.850576e-01 -6.613455e-01  1.191154e+00 -6.086998e-01
##  [16235,] -1.643490e+00 -4.523496e-01 -1.076905e+00 -5.397591e-01
##  [16236,] -2.730834e+00  3.704122e-01  1.153557e+00 -6.749882e-01
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##  [16239,]  6.331073e-01 -7.410454e-01  4.852214e-01 -5.591480e-01
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##  [16244,]  6.271362e-01  4.990013e-01  1.256448e+00 -9.299133e-01
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##  [16249,]  1.357621e+00  4.245014e-01 -3.501780e-01  1.675688e+00
##  [16250,] -5.265927e-01 -3.619857e-01  9.195527e-01 -4.026979e-01
##  [16251,] -1.521730e+00 -2.101809e+00 -9.806119e-01  1.154867e+00
##  [16252,]  2.642387e-01 -1.478564e+00  1.182604e+00  1.461740e+00
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##  [16253,] -2.585856e+00 -9.778121e-01 -9.892510e-01 -5.557113e-01
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##  [16255,]  8.479340e-01  2.422756e-01  2.811847e-02  1.792794e+00
##  [16256,]  5.135947e-01 -9.660769e-01 -1.499483e-01 -8.700285e-01
##  [16257,]  5.807295e-01 -6.789266e-01  1.466047e+00  7.637027e-01
##  [16258,] -4.684049e-01  1.578367e+00  9.178592e-01  1.731349e+00
##  [16259,] -4.774473e-01 -4.990585e-02  6.083071e-02 -5.403517e-01
##  [16260,]  1.667230e-01 -1.450605e+00  1.032993e+00  1.382307e+00
##  [16261,] -7.701397e-01  2.381795e+00 -1.827893e-01 -7.432199e-01
##  [16262,] -6.104683e-01  1.663156e-01 -2.627128e-01 -6.285871e-01
##  [16263,] -7.384246e-01  7.883336e-01 -1.464834e+00 -6.335915e-01
##  [16264,] -6.741040e-01  5.630974e-03  8.908384e-01 -5.243099e-02
##  [16265,] -6.277110e-01 -6.849253e-01 -1.378462e-01 -6.708530e-01
##  [16266,]  6.456875e-01  1.118691e+00  1.117480e+00 -5.745471e-01
##  [16267,] -7.182562e-01 -1.345179e+00  7.205451e-01 -3.118769e-01
##  [16268,] -2.023868e+00  5.652440e-02  7.775473e-01  6.489325e-02
##  [16269,] -1.975606e+00 -7.714606e-01  1.916304e-03 -3.639717e-01
##  [16270,]  8.431984e-01 -5.460090e-01 -4.638973e-01 -1.030531e-01
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##  [16274,] -1.054733e+00  8.955437e-02  8.622453e-01 -5.003346e-02
##  [16275,]  4.873032e-01 -1.077889e+00  1.429923e+00 -9.328980e-01
##  [16276,] -1.260691e+00 -1.538855e-01  1.401427e+00  1.013334e+00
##  [16277,] -1.957045e+00  1.768740e+00  4.184672e-01  3.254426e-01
##  [16278,]  8.650404e-01  1.899487e-01 -1.957795e+00 -3.562198e-01
##  [16279,]  1.039458e+00 -3.560503e-01 -3.551868e-01 -8.570971e-02
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##  [16282,]  7.347907e-01 -6.012319e-01 -1.219872e+00 -5.480650e-01
##  [16283,]  2.499873e-01 -5.856587e-01  9.554943e-01 -1.510861e-01
##  [16284,] -1.295521e-01 -1.270772e+00  4.426628e-01  8.620337e-01
##  [16285,] -4.729905e-01 -1.794179e-01 -5.920728e-01  1.987645e+00
##  [16286,]  9.171995e-01  2.774008e-01 -6.547193e-01  1.151482e-01
##  [16287,]  7.361426e-01  4.027401e-01 -7.552824e-01 -1.746423e-01
##  [16288,] -2.214780e+00 -1.811961e-01  4.907153e-01 -6.394635e-01
##  [16289,] -1.980422e+00 -3.494196e-01  9.164163e-01 -7.079845e-02
##  [16290,] -4.333585e-01  1.035558e-01  1.411070e-01  5.856915e-01
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##  [16292,]  7.051889e-01  1.649506e+00 -3.925336e-01 -2.406836e-01
##  [16293,]  7.911387e-01 -7.048504e-01 -1.354971e+00  1.389796e+00
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##  [16295,] -5.899324e-01  5.876738e-01 -1.308684e+00 -5.401862e-01
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##  [16298,]  8.011994e-01  8.648472e-01  6.793972e-01 -4.929202e-01
##  [16299,] -1.290017e+00 -1.326884e+00 -1.972462e+00 -4.112766e-02
##  [16300,]  1.115390e-01  6.378561e-03 -3.653863e-01 -1.236224e-02
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##  [16308,]  8.573581e-01  1.828051e+00 -2.208551e-01  6.261596e-01
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##  [16310,]  1.339608e-01 -1.033332e+00  1.076987e+00  1.578728e+00
##  [16311,]  7.850927e-01  1.716390e-01 -1.782583e+00 -8.411763e-02
##  [16312,]  8.309021e-01 -4.361525e-01  6.590148e-01 -7.078232e-03
##  [16313,]  8.181420e-01  1.018680e-01  1.212859e+00  1.286857e+00
##  [16314,] -2.127889e+00 -8.412013e-01 -1.391794e+00  8.026692e-01
##  [16315,]  4.583691e-01  3.534708e-01 -2.460422e-01  2.356045e+00
##  [16316,]  1.188376e+00 -1.991158e-01  1.265410e+00 -8.185494e-01
##  [16317,]  1.111066e-01 -1.103413e+00 -1.407731e-01 -5.612490e-01
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##  [16320,] -2.032358e+00  4.031808e-01 -6.717753e-01 -1.665621e-01
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##  [16325,]  1.047088e+00 -8.927033e-01 -1.220901e+00 -1.117587e+00
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##  [16328,]  1.497092e-01 -1.266226e+00 -1.451412e+00 -7.004399e-01
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##  [16330,]  8.732678e-01 -8.001440e-01 -1.419954e+00 -5.553323e-01
##  [16331,] -2.512860e+00 -1.492014e-02  8.626855e-01 -2.876924e-02
##  [16332,] -1.024720e-01 -3.655650e-02 -2.802839e-01  7.392044e-01
##  [16333,] -2.458713e+00  9.527902e-01 -2.964279e-01  2.094784e+00
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##  [16337,] -1.348115e+00  1.935709e+00 -1.553791e-01 -6.074365e-01
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##  [16344,]  1.839883e-01 -3.447672e-01 -3.729372e-01 -3.354521e-01
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##  [16349,]  9.542717e-01 -5.919279e-01 -5.151066e-01 -3.488003e-01
##  [16350,]  8.858288e-01 -6.783561e-01  1.051812e-01  1.348672e+00
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##  [16381,]  1.350501e-01  1.141257e+00  9.182339e-01 -3.717428e-01
##  [16382,] -2.860438e+00 -1.259993e-01 -1.640276e+00 -6.993421e-01
##  [16383,] -2.218014e+00 -4.148316e-01  7.213128e-02 -6.281534e-01
##  [16384,] -2.271470e-01  3.370558e-01 -1.342252e+00 -1.060199e+00
##  [16385,]  2.030271e-01 -4.816159e-01 -7.881757e-02  1.385265e+00
##  [16386,] -6.678443e-01 -1.880405e-01 -5.417097e-01  1.518638e+00
##  [16387,] -1.474956e+00 -2.056648e-01  4.387664e-01  1.126035e+00
##  [16388,]  5.790016e-01  2.799169e+00 -4.649695e-01  1.509364e+00
##  [16389,] -2.350275e+00  1.905712e-01 -8.573707e-02 -7.488337e-01
##  [16390,] -6.896898e-01  3.968371e-01  1.247342e+00 -7.595777e-01
##  [16391,] -2.239793e+00  2.517375e+00 -7.207213e-01 -2.614385e-01
##  [16392,] -1.212703e+00  1.316662e+00 -2.252649e-01 -5.533616e-01
##  [16393,]  7.218390e-01  1.938636e-01 -1.256556e+00 -2.570052e-01
##  [16394,] -1.377797e+00  2.788742e+00 -1.286694e+00  1.366825e-01
##  [16395,]  8.109947e-01 -1.082341e+00 -1.808813e-01  1.460349e+00
##  [16396,]  5.778042e-01  1.840796e+00 -1.559841e+00 -6.282108e-01
##  [16397,]  7.612744e-01 -8.071037e-01 -1.094168e+00 -4.877175e-01
##  [16398,]  8.007730e-01 -5.110085e-01  1.019755e+00 -6.455253e-01
##  [16399,]  2.566584e-01  5.967475e-01 -1.020967e+00  4.114474e-01
##  [16400,]  6.310250e-01  2.715275e+00 -5.239906e-01 -3.173749e-01
##  [16401,] -2.408746e-01  1.027368e+00  1.064517e+00 -6.629290e-01
##  [16402,] -7.950597e-01  4.266326e+00  7.049393e-02 -4.805460e-01
##  [16403,] -2.047797e+00  3.333281e-01  8.724961e-01  1.858855e+00
##  [16404,] -1.409725e+00  2.383701e-01  1.364960e-01 -1.146075e+00
##  [16405,] -4.765521e-01  5.843888e-01  6.845040e-02 -6.205537e-01
##  [16406,]  8.727777e-01  3.438742e-01  7.395073e-01  8.137046e-02
##  [16407,]  1.390265e-01 -4.871674e-01  1.957994e-01 -4.320389e-01
##  [16408,] -1.320654e-01  3.256658e-01  1.333815e-01  7.787078e-01
##  [16409,] -2.638220e+00 -6.783815e-01 -4.709465e-01 -3.713972e-01
##  [16410,]  9.271337e-01 -2.628018e-01  1.000118e+00 -2.152954e-01
##  [16411,]  5.687458e-01 -6.468314e-01  1.640545e+00  5.918220e-01
##  [16412,] -2.401742e+00  1.542461e-01  2.640047e-02 -1.035204e+00
##  [16413,] -2.226509e+00  6.384019e-01 -2.611955e-01 -1.051306e+00
##  [16414,]  1.071436e+00  2.998901e-01 -2.051433e-02  1.090149e-01
##  [16415,]  3.338936e-02 -8.989060e-01 -1.138611e+00 -3.099023e-01
##  [16416,]  3.959207e-02 -4.219231e-01 -3.835957e-01 -1.918249e-01
##  [16417,] -7.041456e-01 -1.419649e+00  2.906918e-01  1.267787e+00
##  [16418,] -8.219038e-01 -5.668614e-02  3.555678e-02 -9.146728e-01
##  [16419,] -8.162190e-01 -4.660422e-01 -1.627349e+00 -1.692016e-01
##  [16420,]  6.675529e-01 -4.660142e-01 -1.366610e-01  1.207150e+00
##  [16421,]  5.638039e-01  5.429224e-01 -5.181347e-01 -5.868310e-01
##  [16422,]  1.259020e+00  2.390883e+00  6.257471e-01  6.719547e-01
##  [16423,] -6.704360e-01 -4.004362e-01 -3.176544e-02 -8.146385e-01
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##  [16425,]  6.726973e-01 -4.812859e-01 -1.327282e+00 -4.450387e-01
##  [16426,]  4.702971e-01  3.297032e-01 -1.275172e-01  9.982420e-01
##  [16427,] -5.841747e-01 -1.702214e+00 -1.561519e+00 -7.645600e-01
##  [16428,]  6.529331e-02 -4.397385e-01 -1.571031e+00 -5.501115e-01
##  [16429,] -1.549695e+00  6.710347e-01 -1.520672e+00 -4.746310e-01
##  [16430,] -1.138263e+00 -1.252682e+00 -3.995043e-01  3.008149e-02
##  [16431,] -1.273660e-01  2.449667e+00 -5.008857e-01 -9.008037e-01
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##  [16439,] -5.344561e-01  4.942817e-01 -1.923201e-01 -5.021510e-01
##  [16440,]  7.469894e-01 -3.221994e-01  1.033375e+00  1.626276e+00
##  [16441,] -8.344856e-01 -1.342974e+00  1.338749e+00 -8.017097e-01
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##  [16444,] -6.332025e-01 -1.388479e+00  9.640043e-02  1.039565e+00
##  [16445,] -1.365002e+00 -5.910113e-01  3.715023e-01 -6.950810e-01
##  [16446,] -5.407140e-01 -1.724551e-01  1.087078e+00 -4.514059e-01
##  [16447,] -1.866042e+00  2.500777e-01 -1.972866e+00 -2.535038e-01
##  [16448,]  1.774735e-02  1.549792e+00 -1.968548e+00  1.516303e+00
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## [16449,]  6.464324e-01  4.475701e-02  1.118665e+00  1.425032e+00
## [16450,] -1.528530e+00  1.400055e-02 -1.090851e+00 -8.323935e-01
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## [16455,]  1.410071e+00  1.147894e+00 -1.259713e-01 -3.074152e-01
## [16456,]  8.924965e-01 -2.285525e-01 -1.170210e-01  1.740629e+00
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## [16459,] -9.649038e-01 -2.863636e-01 -1.139361e+00  1.022358e+00
## [16460,] -1.336558e+00 -3.576941e-01 -7.689806e-01  8.863751e-02
## [16461,] -6.799885e-01  1.062879e-01  9.912877e-01 -5.421675e-01
## [16462,] -7.258658e-01 -1.041534e+00 -1.677657e+00  1.257223e+00
## [16463,] -1.166139e-01 -7.963532e-01  1.302697e-02 -8.622345e-01
## [16464,] -6.823334e-01 -2.766691e-01  7.825780e-02 -1.046567e+00
## [16465,]  3.066361e-01 -8.437247e-02 -1.742131e+00 -1.161952e-02
## [16466,] -5.119639e-01 -1.404414e+00 -1.206070e-01 -5.011810e-01
## [16467,]  5.201501e-01 -4.510918e-01  1.350195e+00 -8.843530e-01
## [16468,] -7.668588e-01  2.347425e-01  1.414221e+00 -1.160618e+00
## [16469,]  2.835748e-01 -5.674464e-01  1.018764e+00 -2.310698e-01
## [16470,] -2.081077e-01 -2.694274e-01  1.225778e+00 -7.488885e-01
## [16471,] -6.978572e-01  1.729922e+00  2.951555e-01  1.105802e+00
## [16472,]  2.446366e-01 -7.984533e-01  1.014161e+00 -1.975944e-01
## [16473,]  9.814205e-01 -2.229847e-01 -1.962640e+00  1.609480e+00
## [16474,]  7.522561e-01  1.842705e-01  9.372693e-01 -3.261908e-01
## [16475,] -9.607494e-01 -6.504321e-01 -1.213111e+00  7.275869e-01
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## [16477,]  7.955781e-01 -9.288171e-01  1.390751e-01 -2.882724e-01
## [16478,]  7.254426e-01 -7.435352e-01  1.118566e+00 -4.202634e-01
## [16479,] -2.561017e+00  6.561370e-02  1.046004e+00 -3.251100e-01
## [16480,] -4.628030e-01 -1.794939e+00  1.167847e+00 -4.007710e-01
## [16481,] -8.861325e-01 -3.351699e-01  1.075562e+00 -2.908399e-01
## [16482,] -2.130292e+00 -2.088954e-01  1.035461e+00 -2.542118e-01
## [16483,]  7.594209e-01 -8.339564e-01  1.204217e+00 -6.583212e-01
## [16484,] -1.543421e+00  1.012279e-01 -7.642102e-01 -8.102715e-01
## [16485,]  8.313100e-01 -6.113786e-01  1.108257e+00 -4.670619e-01
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## [16487,] -5.337526e-01  8.246603e-01 -1.923528e-01 -7.047230e-01
## [16488,] -7.302308e-01 -1.717606e+00 -1.661484e-01 -4.007929e-01
## [16489,] -1.838073e+00  1.007958e-01 -4.270824e-01 -1.463503e-01
## [16490,] -2.366709e+00  1.022516e+00  1.470820e+00 -1.301805e+00
## [16491,] -5.506403e-01  4.879434e-01 -4.227336e-01 -1.806506e-01
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## [16493,] -1.168201e+00 -1.829885e-03  9.110761e-01 -1.181993e-01
## [16494,] -3.234517e+00 -1.080640e+00 -6.203428e-02 -5.690928e-01
## [16495,] -7.356773e-02 -1.037501e+00 -2.939140e-02 -5.700968e-01
## [16496,]  1.198093e+00  5.847942e-01  1.123782e+00 -6.930010e-01
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## [16499,] -4.695755e-01  1.066831e+00 -1.639105e+00  1.677454e+00
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## [16501,] -1.197162e+00  1.722456e+00 -7.471069e-01 -2.527360e-01
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## [16516,]  1.517881e-01 -1.166162e+00 -4.690415e-01 -6.302799e-01
## [16517,]  8.910756e-01  8.290070e-02  1.066008e+00  1.569969e+00
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## [16519,]  8.843475e-02 -1.333135e+00 -1.693540e+00 -5.935254e-01
## [16520,]  1.480828e+00 -2.028375e-01  1.107742e+00  1.559036e+00
## [16521,] -6.439483e-01 -6.183354e-01  4.640933e-02 -1.038584e+00
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## [16524,]  4.469274e-02 -8.070261e-01 -1.569013e+00 -8.998578e-01
## [16525,]  2.082121e-01 -4.774650e-02 -3.627853e-01  2.402819e-01
## [16526,]  2.001315e-01 -8.848414e-01 -4.634116e-02 -5.153174e-01
## [16527,] -1.021028e+00  4.571772e-01 -8.118210e-01  2.498773e-02
## [16528,] -3.850263e-02  1.302592e+00 -7.717862e-02  1.017981e+00
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## [16548,] -6.257739e-01  1.580357e+00 -7.866686e-01 -2.178049e-01
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## [16570,] -2.189017e+00  4.740800e-01  1.312625e+00 -9.363225e-01
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## [16573,] -8.916167e-01 -9.034932e-01 -1.989896e-01  1.474686e+00
## [16574,] -7.331226e-01 -1.447975e+00 -1.460067e+00 -6.498692e-01
## [16575,]  7.786463e-02  2.111733e-01 -1.783542e+00 -6.856178e-01
## [16576,]  1.927717e-01  1.105629e+00  7.679611e-01  3.002494e-01
## [16577,]  7.356253e-01  1.035037e+00  9.174474e-01 -2.903527e-01
## [16578,] -3.247575e-01 -9.223008e-01 -1.846888e+00 -3.023166e-02
## [16579,] -1.005854e+00 -1.247527e+00  1.392095e+00  1.150768e+00
## [16580,]  1.458657e-01 -1.446478e+00 -5.405261e-02 -6.733153e-01
## [16581,]  6.091468e-01  1.348670e+00  1.600837e-01  9.316507e-01
## [16582,] -1.350822e+00 -3.994375e-01 -1.687080e+00  2.027599e+00
## [16583,]  4.747874e-01 -2.315091e-01  7.503638e-01  2.118004e+00
## [16584,]  9.047563e-01 -2.468026e-01 -1.752735e-01  1.873312e+00
## [16585,]  4.281563e-01 -1.650676e-01  3.026755e-01  1.986375e+00
## [16586,]  6.145894e-01 -9.165544e-01 -1.505883e-01 -6.002342e-01
## [16587,]  5.074371e-02 -1.783084e+00  1.419214e+00  1.151212e+00
## [16588,]  3.566568e-01 -3.872610e-01 -7.671574e-01 -1.189439e+00
## [16589,] -2.937250e+00  1.183345e-01 -3.367863e-01 -9.625089e-01
## [16590,]  7.041495e-02  2.205556e+00 -6.282535e-01 -4.232248e-01
## [16591,]  3.064166e-01 -4.828691e-01 -5.091675e-01 -2.739297e-03
## [16592,]  5.239866e-01  7.557189e-01 -4.266753e-01 -6.818478e-01
## [16593,]  8.929827e-01 -3.768493e-01  7.211346e-01  1.773021e+00
## [16594,]  1.407950e-01 -8.952578e-01  3.117315e-01 -4.987523e-01
## [16595,]  7.987871e-01  1.143734e+00  1.048082e+00 -4.723109e-01
## [16596,]  5.678686e-01 -1.459683e-01 -5.452935e-01 -6.324153e-01
## [16597,] -6.962222e-01 -4.490297e-01  8.722560e-01 -1.223879e-01
## [16598,]  4.245094e-02 -2.339040e-01 -3.214855e-01 -5.345940e-01
## [16599,]  5.909639e-01  4.247127e-01 -2.058088e-02 -5.147554e-01
## [16600,] -2.944842e+00  2.504191e-01 -1.744862e+00  9.176610e-02
## [16601,]  6.914917e-01 -1.689930e-01 -3.101949e-01 -4.282279e-01
## [16602,] -2.773629e-02 -8.904136e-01  1.316380e+00 -8.463083e-01
## [16603,] -4.765492e-01 -2.169407e-01 -7.137166e-01  1.953369e+00
## [16604,] -2.236306e+00  1.414311e+00 -7.406784e-01 -3.943592e-01
## [16605,] -5.277224e-01 -1.876340e-01 -1.893439e-01 -5.525389e-01
## [16606,]  7.069375e-01 -1.291624e+00 -1.738620e-01 -4.374718e-01
## [16607,]  7.947011e-01  1.419208e+00 -3.244268e-01 -5.168563e-01
## [16608,] -1.899313e+00 -8.186160e-01  9.482853e-01 -1.457767e-01
## [16609,]  8.559521e-01 -1.087965e-01 -3.669962e-01 -6.703924e-02
## [16610,] -6.342778e-01 -2.588388e-01  6.118289e-02 -2.172652e-01
## [16611,] -1.057160e-01 -1.203697e+00  1.481093e+00  9.529811e-01
## [16612,] -2.010765e+00 -2.284504e-01 -1.222803e-01 -6.169500e-01
## [16613,] -1.314118e+00 -1.238118e+00  2.234845e-01 -3.232997e-02
## [16614,] -8.558584e-01 -1.881787e-01  1.364212e+00 -9.731903e-01
## [16615,]  5.431951e-01 -1.264776e+00  1.430270e+00  1.017751e+00
## [16616,] -1.154127e+00  1.585498e+00 -4.553240e-02 -1.550910e-01
## [16617,] -7.130123e-01 -1.643196e+00  1.303084e+00  1.282439e+00
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## [16619,] -8.096766e-01  3.441422e-01 -2.845986e-01 -8.705330e-01
## [16620,]  1.727477e-01 -3.740500e-01 -7.368564e-01 -2.230830e-01
## [16621,] -1.385956e+00 -1.012238e+00  3.295550e-01 -5.479985e-01
## [16622,] -1.270496e+00  8.362325e-01  7.969641e-01 -3.993713e-02
## [16623,]  6.762312e-01  1.755822e-01  7.264857e-01 -8.725231e-01
## [16624,]  5.758407e-01  5.037939e-01 -1.540891e-01 -5.591903e-01
## [16625,]  7.183134e-01  8.274482e-01  8.706512e-01 -1.441509e-01
## [16626,]  3.102041e-01 -5.647068e-01 -1.448220e+00 -2.004539e-01
## [16627,]  2.608109e-01 -3.498937e-01 -5.136953e-01 -1.352741e-01
## [16628,] -8.285448e-01 -5.225324e-01 -1.447341e+00 -1.046444e+00
## [16629,]  2.037174e-01  4.324950e-02 -3.433121e-01  1.821499e+00
## [16630,] -1.769576e+00  3.651305e-01  4.193354e-01 -9.485342e-01
## [16631,]  5.551223e-01  2.736902e-01 -5.074232e-01  4.961459e-01
## [16632,] -1.017668e+00  6.783532e-01  4.493397e-01  8.142199e-01
## [16633,] -8.024758e-02 -5.052634e-03 -4.764697e-01  1.368154e+00
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## [16635,] -5.442295e-01  1.414080e+00 -4.132565e-01 -4.445145e-01
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## [16638,]  7.308137e-01 -3.609431e-01 -2.083918e-01 -2.977541e-01
## [16639,]  5.930008e-01  1.867307e+00  1.051195e+00 -7.365928e-01
## [16640,] -1.019036e+00  6.513062e-01 -2.472635e-01  4.666467e-02
## [16641,]  3.485056e-01 -5.102569e-01 -1.604630e+00 -1.334876e-01
## [16642,]  1.148878e-01 -2.295656e-01 -4.069852e-01  1.582018e+00
## [16643,] -2.036201e-01  6.450366e-01 -6.049927e-02 -1.328642e+00
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## [16645,]  2.669041e-01  4.023163e-01 -1.949310e-01 -1.713793e-01
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## [16647,] -2.304314e-01 -6.938621e-01 -1.393743e+00 -1.190481e+00
## [16648,] -3.534152e-01  7.709149e-01  1.174891e-01 -1.430343e+00
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## [16653,] -1.393431e+00  5.716593e-01  1.002207e+00 -3.730193e-01
## [16654,] -1.949963e-01  1.426836e-01 -9.264338e-03  9.136070e-01
## [16655,] -8.430221e-02  8.742085e-01 -4.789026e-01 -8.052934e-01
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## [16658,] -2.006687e-01  1.805499e+00  1.103767e+00 -8.274428e-01
## [16659,]  1.129247e+00 -8.630234e-01  1.568189e+00  7.651426e-01
## [16660,]  7.843213e-01  5.936854e-02 -3.579638e-01 -5.345771e-01
## [16661,] -3.278623e+00  4.611377e-01 -1.816565e+00  1.320315e+00
## [16662,] -5.819033e-01  4.493281e-01  2.565959e-01 -4.220047e-01
## [16663,] -2.413732e+00  6.485631e+00 -3.775422e-01  6.778397e-01
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## [16667,] -4.930085e-01 -7.454726e-01 -1.787785e+00 -1.904024e-01
## [16668,] -5.946269e-01 -5.245744e-01 -2.083530e+00  1.987135e-02
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## [16670,] -1.342790e+00 -9.871730e-01 -2.137070e-01 -4.183882e-01
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## [16675,]  6.510050e-02 -8.037947e-01 -1.519500e+00  1.348826e+00
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## [16679,] -1.319373e+00  5.306751e-01  7.853912e-01  1.141465e-01
## [16680,]  9.522019e-01 -1.106299e-01 -2.165104e+00  4.514607e-02
## [16681,] -4.402544e-01 -2.890498e-01  2.091578e-01 -1.135542e-03
## [16682,]  7.045743e-01 -8.719713e-01 -1.585899e-01 -5.959910e-01
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## [16686,]  5.819256e-01  5.934614e-01  1.145915e+00 -6.154947e-01
## [16687,] -3.845075e-02 -8.084700e-01 -2.954442e-01 -7.223169e-01
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## [16689,] -1.326893e+00 -4.489103e-02 -1.728524e+00 -5.967473e-01
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## [16692,] -4.296863e-01 -8.028758e-01 -1.746686e+00 -2.632380e-01
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## [16695,]  2.953480e-01  1.607164e-01  1.493223e+00 -1.332657e+00
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## [16697,]  7.966780e-01 -1.812188e-01 -4.764909e-01 -7.432733e-02
## [16698,]  1.273348e-01 -1.049304e+00 -1.556543e+00 -5.666806e-01
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## [16700,]  9.824071e-03 -8.904998e-01 -1.223592e-01 -6.621836e-01
## [16701,] -1.349872e+00  4.788396e-01 -4.611401e-01  3.734347e-03
## [16702,] -1.193222e+00 -1.887406e-01  1.205397e+00 -6.419721e-01
## [16703,]  3.389495e-02 -1.260964e+00  1.329902e+00  1.276628e+00
## [16704,] -3.242343e+00 -6.258666e-01 -2.114134e-01 -5.531834e-01
## [16705,] -5.120796e-04 -1.134932e+00 -8.208697e-02 -7.143497e-01
## [16706,]  1.418615e-02 -1.346658e+00  1.365277e+00 -8.139769e-01
## [16707,]  5.238105e-02  4.262316e-02 -1.761704e+00 -3.843003e-01
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## [16710,]  1.022607e+00  6.633954e-02  8.145868e-01 -2.795606e-02
## [16711,]  5.955770e-01 -1.254673e+00  3.973744e-02  1.125435e+00
## [16712,] -1.174419e-01 -9.464915e-01  3.394543e-01  7.888883e-01
## [16713,]  8.423402e-01  2.780293e-02 -2.060613e+00 -1.082402e-01
## [16714,]  2.343213e-01 -3.926038e-01  8.035832e-01 -3.071224e-01
## [16715,]  1.569849e-01 -6.314128e-01  1.083915e+00 -3.824730e-01
## [16716,] -5.257036e-01 -7.614597e-01 -1.543492e+00 -2.743504e-01
## [16717,]  6.051391e-01 -1.039256e+00 -1.595915e+00 -8.153041e-01
## [16718,]  2.377519e-01 -4.337721e-02 -1.952946e+00  4.137491e-02
## [16719,] -2.134143e+00 -2.620369e-01 -5.616880e-01 -4.668868e-01
## [16720,]  8.617758e-01 -1.979456e-01 -1.859538e+00 -1.790795e-01
## [16721,]  1.250344e+00 -4.154245e-01 -1.602253e+00 -5.492715e-01
## [16722,] -2.304909e+00 -1.639390e-02  1.268729e+00  1.134883e+00
## [16723,]  1.620780e-02 -7.025293e-01 -1.887211e+00 -3.358732e-01
## [16724,] -5.224687e-01 -4.144057e-01  6.848205e-01 -3.832940e-01
## [16725,]  1.927115e-01  2.605847e-01  9.118150e-01  1.845988e+00
## [16726,]  1.070495e-01 -6.439667e-01 -1.132100e+00 -7.168742e-01
## [16727,] -1.514219e+00 -4.983780e-01 -3.323029e-01 -8.000241e-01
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## [16729,] -6.681741e-02 -5.233184e-01  1.356835e+00  1.032927e+00
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## [16731,]  1.221061e-01 -1.160143e+00 -1.709978e-01 -4.436574e-01
## [16732,] -6.530304e-01  3.025745e+00 -6.804199e-01 -2.292202e-01
## [16733,]  6.915983e-01 -7.975393e-01  4.524719e-01 -5.260871e-01
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## [16739,] -5.486627e-01 -1.131727e+00  1.124697e+00  1.526596e+00
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## [16741,]  2.339526e-01 -1.036597e+00 -1.424799e+00 -4.601242e-01
## [16742,] -1.743225e-01  1.167443e+00  9.833304e-01 -4.933291e-01
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##  [16745,]  1.011579e-01 -2.829897e-01  9.893774e-01  1.796023e+00
##  [16746,] -1.152207e-01  9.801749e-01 -6.697072e-01 -6.258908e-01
##  [16747,]  3.260607e-02  1.352921e+00 -1.095195e-01  1.408159e+00
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##  [16762,] -2.592055e+00  2.072430e-01 -1.635986e+00  1.397330e+00
##  [16763,]  8.161788e-01 -2.081795e-01 -1.201964e+00 -5.237828e-02
##  [16764,] -1.857925e-01  4.399430e-02  4.072257e-01 -9.281134e-01
##  [16765,]  1.799096e-01 -8.250663e-01 -1.704279e+00  1.638034e+00
##  [16766,]  8.497014e-01  2.589007e-01 -2.089878e+00 -1.562104e-01
##  [16767,] -1.111320e-01  7.625110e-01  1.138087e+00 -8.282380e-01
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##  [16769,]  8.409599e-01 -5.869063e-01 -1.718011e+00 -6.333910e-01
##  [16770,]  4.453896e-02 -2.106667e-01 -3.635165e-01 -7.959540e-01
##  [16771,] -2.672099e+00 -7.455364e-01  1.237648e+00 -5.265555e-01
##  [16772,]  6.828194e-01  2.064889e-01 -1.223327e+00 -5.906440e-01
##  [16773,]  7.816062e-01  2.330759e-01 -5.677287e-02 -7.351082e-02
##  [16774,]  3.865048e-01 -4.149125e-01 -6.417551e-01  2.062964e-01
##  [16775,] -7.360186e-01  1.080602e+00  1.281034e+00 -9.919616e-01
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##  [16777,] -2.281523e+00  8.570679e-01  1.053004e+00 -5.344956e-01
##  [16778,] -1.683991e-01  3.697088e-01 -2.459540e-01 -5.921251e-01
##  [16779,]  7.000742e-01  1.220414e-01  9.318971e-01 -3.420713e-01
##  [16780,] -1.596231e+00 -4.889577e-02  1.364324e+00 -9.440711e-01
##  [16781,]  1.417274e-01 -7.451785e-01 -2.449382e-01 -4.385179e-01
##  [16782,]  1.014297e-01  3.584764e-01 -1.902153e+00  1.481997e+00
##  [16783,] -6.889923e-01  1.600972e+00  1.039304e+00 -5.549518e-01
##  [16784,]  2.126968e-01 -1.562777e-01  4.851344e-01 -7.344733e-02
##  [16785,]  7.864388e-01 -7.878642e-01  9.626787e-01 -1.593179e-01
##  [16786,]  8.100755e-01 -6.563234e-01 -5.350097e-01 -5.540650e-01
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##  [16788,]  4.215911e-01 -9.318448e-02  7.586773e-01  1.661081e-01
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##  [16808,]  1.136787e-02 -2.407064e-01 -1.771355e+00 -6.388152e-01
##  [16809,]  5.552224e-01  4.208975e-01 -2.750938e-03 -5.916329e-01
##  [16810,]  1.676151e-01 -1.833009e-01  8.361560e-01  1.477662e+00
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##  [16812,] -7.878439e-01  1.189452e+00 -9.960401e-01  9.688598e-01
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##  [16815,]  1.264659e-01 -9.735238e-01  1.256498e+00 -6.530550e-01
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##  [16820,]  7.393996e-01  1.539325e+00  2.315628e-01 -6.103122e-01
##  [16821,] -1.411538e+00 -3.055166e-01  4.850748e-01 -5.344815e-01
##  [16822,]  3.969792e-01  2.517538e+00  1.233011e+00  1.073060e+00
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##  [16826,]  9.372625e-01  1.034050e+00 -5.649453e-01 -1.798434e-01
##  [16827,] -6.742928e-01 -1.084552e+00 -1.781055e-01  1.434739e+00
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##  [16829,]  5.856597e-01 -1.202560e+00 -2.914230e-01 -7.497083e-01
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## [16842,]  1.209738e-01 -4.034917e-03  7.373581e-01  8.927340e-02
## [16843,]  7.173229e-01 -7.279367e-01  1.097852e+00 -4.278555e-01
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## [16854,] -1.229005e+00  1.083416e+00  8.750789e-02 -3.854747e-01
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## [16882,] -2.745595e+00  2.932359e-01 -2.155034e-01 -4.452554e-01
## [16883,]  7.227714e-01 -8.943342e-01 -1.130209e-01  9.409691e-01
## [16884,]  4.247556e-01 -7.261061e-01  1.437517e+00  8.210994e-01
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## [16899,] -4.584003e-01 -4.393769e-01 -6.512987e-01  1.772190e+00
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## [16902,] -3.007078e-01 -8.049426e-01 -1.835690e+00  1.875975e+00
## [16903,]  7.954385e-01  3.326561e-02  1.367609e-01 -6.140093e-02
## [16904,]  1.340183e+00  1.055432e-01  1.021086e+00  1.621168e+00
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## [16917,]  8.956352e-02  1.988100e+00  8.292834e-01 -5.727521e-02
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## [16920,]  4.468679e-01 -2.225921e-01 -6.023161e-01  1.459948e-01
## [16921,]  1.314205e+00 -2.395951e-01  1.043175e+00  1.537292e+00
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## [16933,] -6.783352e-01 -9.100158e-01 -1.938657e+00 -2.235932e-01
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## [16950,] -5.368405e-01 -1.061950e+00  1.175618e+00 -4.961318e-01
## [16951,]  1.449845e-01 -8.638318e-01  1.151551e+00 -5.718744e-01
## [16952,]  8.608251e-02 -1.164627e+00  1.314580e+00 -6.415051e-01
## [16953,]  9.275862e-01 -1.869610e-01  1.939203e-01  2.084208e+00
## [16954,] -7.706815e-01 -1.056329e+00  1.213703e+00 -6.115292e-01
## [16955,]  8.167095e-01 -5.450345e-01 -9.741135e-01 -8.840523e-02
## [16956,]  2.249346e-01 -1.017493e+00 -1.182043e+00 -3.019580e-01
## [16957,] -2.055667e+00  4.581417e-01 -3.775813e-02  1.781824e+00
## [16958,]  6.732789e-01  5.279666e-01 -1.761804e+00 -7.778835e-01
## [16959,]  6.320399e-02 -4.357555e-01  8.763260e-01 -3.684115e-01
## [16960,]  1.915635e-01  1.081205e+00 -1.768458e+00 -5.500943e-02
## [16961,]  6.691792e-01 -8.619141e-01 -1.406725e+00  1.089310e+00
## [16962,]  1.518758e-01 -4.143793e-01  1.094969e+00  1.473610e+00
## [16963,]  2.685364e-01  5.442056e-02 -1.009551e+00 -6.456787e-02
## [16964,] -6.100087e-02  3.232565e-01  1.160971e+00  1.174348e+00
## [16965,]  9.594365e-01  5.846283e-01 -5.579854e-01 -1.711909e-01
## [16966,] -1.343626e+00 -6.730608e-01  3.278107e-01  4.170224e-01
## [16967,]  1.655993e-01 -6.316239e-01  1.043907e+00  1.592240e+00
## [16968,]  6.315220e-01  6.180767e-01  1.023705e+00 -4.732539e-01
## [16969,] -5.413300e-01 -1.268488e+00 -3.591837e-01  1.446512e+00
## [16970,]  1.003307e+00 -2.235324e-01  9.347729e-01 -1.290678e-01
## [16971,]  8.529437e-01  3.012930e-01 -8.292150e-01  7.382781e-02
## [16972,]  7.224376e-01 -1.362660e+00 -7.584449e-01 -6.548845e-01
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## [16974,] -6.061629e-01  8.103434e-01  1.016473e+00 -4.842956e-01
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## [16976,]  1.305376e-01 -7.082913e-02 -1.056137e+00 -3.066758e-01
## [16977,] -2.827132e+00  5.570051e-01 -1.523195e+00 -7.907451e-01
## [16978,]  7.667450e-01 -2.012654e-01 -1.607109e+00 -2.982034e-01
## [16979,]  1.591722e-01 -7.379456e-01  1.224741e+00  1.293810e+00
## [16980,]  3.253063e-01 -7.372579e-01 -8.657699e-01  9.608039e-02
## [16981,]  1.201879e-01 -2.520081e-01  3.921314e-01 -2.076077e-01
## [16982,]  6.902216e-01 -8.145772e-01  1.115582e+00  1.450058e+00
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## [16984,] -1.594221e+00  1.458741e+00  1.318183e+00 -1.172562e+00
## [16985,]  3.615290e-01 -7.877364e-02  7.754606e-01  4.304629e-02
## [16986,]  7.276351e-01 -6.868459e-01 -1.521000e-01 -5.394645e-01
## [16987,]  8.468729e-01  6.478266e-01 -1.246342e+00 -4.288732e-01
## [16988,] -2.696606e-01  7.725731e-01 -3.929190e-03 -1.222807e+00
## [16989,]  1.246577e+00  2.869399e-01 -1.320705e+00 -4.701124e-01
## [16990,]  2.948495e-01  1.500428e+00  1.369914e+00 -1.282832e+00
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## [16993,] -4.180994e-02 -9.193425e-02 -1.629209e-01 -6.917560e-01
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## [16996,]  1.480363e-01 -1.318649e+00  1.242560e+00  1.348821e+00
## [16997,]  7.572794e-01 -4.226423e-01 -1.913542e+00  1.583903e+00
## [16998,]  1.155589e+00  1.207149e+00 -6.645753e-01 -7.183048e-01
## [16999,] -1.002987e-01  2.002258e+00 -5.308033e-01  1.560321e+00
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## [17001,]  9.452102e-01 -2.939997e-01 -5.626137e-01 -3.284048e-01
## [17002,]  1.036365e+00  3.015969e-01 -4.263821e-01 -1.920768e-02
## [17003,] -6.854613e-01 -1.048347e+00  2.483825e-01 -4.408140e-01
## [17004,]  1.362570e-02 -1.794552e-01 -2.417818e-01 -6.153242e-01
## [17005,]  7.712721e-01 -7.322038e-01 -1.728827e-01 -6.824711e-01
## [17006,]  1.021352e-01 -8.374312e-01 -2.714707e-01  1.465387e+00
## [17007,] -7.213076e-01 -6.293400e-01  9.315664e-01  6.275511e-02
## [17008,] -4.151988e-01 -8.217595e-01  7.410819e-01  2.708293e-01
## [17009,]  1.956180e-01 -8.510366e-01 -2.936656e-01 -3.230313e-01
## [17010,]  7.733492e-01 -2.526251e-02 -4.186620e-02 -3.598038e-01
## [17011,] -1.103083e+00  4.564845e-01  1.366560e+00 -1.030893e+00
## [17012,]  7.262830e-01 -3.593655e-01  1.279208e+00 -8.049114e-01
## [17013,]  8.185528e-01  5.876833e-01 -1.892159e+00 -1.063602e-01
## [17014,]  1.749059e-01 -8.901553e-01  1.070783e+00 -3.613375e-01
## [17015,] -6.539140e-01 -5.333977e-01  1.242491e+00  1.142566e+00
## [17016,]  7.287842e-01 -1.031349e+00 -2.489744e-01 -8.282908e-01
## [17017,]  1.847913e-01 -1.053421e-01 -2.350540e-01 -2.976664e-01
## [17018,]  5.909530e-01  2.902253e-01  1.160666e+00 -5.354046e-01
## [17019,] -2.237656e-01  4.623449e-02  2.042849e-01 -1.383300e+00
## [17020,]  7.918152e-01 -1.180687e-01  3.805166e-01 -9.774085e-02
## [17021,]  5.450870e-01  2.997528e-01  2.802568e-01 -1.077377e+00
## [17022,]  5.032157e-02 -8.885489e-01 -3.536841e-01 -6.224258e-01
## [17023,]  7.815551e-01 -7.648874e-01 -1.185431e+00  1.374350e+00
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## [17025,]  3.022473e-01  6.896866e-01 -4.675134e-01  7.259307e-02
## [17026,] -6.275826e-01 -1.036786e+00 -1.418899e+00  1.494708e+00
## [17027,]  6.780199e-01  5.144241e-02 -2.444853e-01 -5.157949e-01
## [17028,]  1.960186e-01 -5.776788e-01 -4.111535e-01 -1.718062e-01
## [17029,]  4.891202e-02 -9.972123e-01  7.585319e-01 -7.092184e-01
## [17030,]  2.330415e-02 -8.643847e-01  1.138954e+00 -5.028574e-01
## [17031,]  7.264501e-01 -6.361820e-01  9.800400e-01 -5.185970e-01
## [17032,] -8.610774e-01 -1.123229e+00  2.225297e-01  9.370622e-01
## [17033,]  1.281030e-01  4.222959e-01 -5.686318e-01 -3.884905e-01
## [17034,]  8.713507e-01 -5.076702e-01  1.020171e+00 -3.498617e-01
## [17035,]  8.878845e-02 -1.314231e+00  1.191680e+00  1.429266e+00
## [17036,] -1.286445e+00  1.577593e+00 -9.339717e-01 -1.564934e-02
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## [17037,]  1.049912e-01 -1.096504e+00  3.378895e-01  1.350776e+00
## [17038,]  2.479612e-01 -1.140211e-01 -1.827230e+00  1.777126e+00
## [17039,]  5.109948e-02  1.072154e+00  3.909327e-02 -4.580818e-01
## [17040,] -1.074593e-01  6.577160e-01  1.261422e+00 -9.970673e-01
## [17041,] -3.972555e-01  1.006427e+00 -2.889810e-01 -1.102568e+00
## [17042,]  2.669039e-01 -4.557635e-01 -1.343877e+00 -3.247973e-02
## [17043,]  2.749117e-01 -5.545446e-01 -5.067496e-01 -1.247772e-01
## [17044,]  3.228736e-01 -1.505081e-01 -6.812127e-01 -1.323845e-01
## [17045,]  5.891800e-01 -1.251620e+00  1.351738e+00  1.136743e+00
## [17046,]  3.965850e-01  4.670301e-01  1.189559e+00  8.717941e-01
## [17047,]  7.713926e-01 -1.019410e+00 -1.583624e+00 -5.131961e-01
## [17048,]  8.577694e-02 -4.557809e-01 -1.461112e+00 -4.822911e-01
## [17049,]  6.297199e-01 -1.216209e+00 -4.506257e-02 -7.186006e-01
## [17050,]  8.849074e-01 -1.862122e-01  1.094208e+00  1.438994e+00
## [17051,]  3.186745e-01 -2.819635e-01  7.592902e-01  1.643382e-01
## [17052,]  5.051221e-01 -1.034455e+00  1.376846e-01  9.290090e-01
## [17053,]  6.543752e-01 -3.839908e-01  1.954254e-02 -4.625818e-01
## [17054,] -5.347249e-01 -9.198027e-01  1.037467e+00 -2.543369e-01
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## [17058,] -5.384544e-01 -7.690686e-01 -1.654777e+00  1.526108e+00
## [17059,]  8.660266e-02  7.351213e-03 -6.762591e-01 -3.862588e-01
## [17060,]  7.628797e-01 -5.036436e-01  1.147160e+00 -6.075885e-01
## [17061,]  8.107547e-01 -4.229413e-01 -3.303938e-01 -2.047919e-01
## [17062,] -4.080753e-02 -7.027523e-01  1.283317e+00 -7.573987e-01
## [17063,]  3.357590e-01 -7.110205e-01  9.619469e-01  1.735454e+00
## [17064,] -5.295950e-01 -7.199068e-01  5.734298e-01  5.590786e-01
## [17065,]  5.482866e-01  1.585063e+00  1.100216e+00 -6.833194e-01
## [17066,]  2.457459e-01 -9.112758e-01  1.128118e+00  1.485529e+00
## [17067,]  4.048725e-01  1.129636e+00 -8.151624e-01  2.358851e-01
## [17068,] -3.724519e-01 -4.579431e-01 -5.289261e-01 -6.888523e-02
## [17069,]  3.757095e-02 -1.953041e-01  9.222537e-01 -2.207429e-01
## [17070,]  1.190964e-01  1.394118e+00 -4.092944e-02 -7.873420e-01
## [17071,]  1.308328e-01  7.135437e-01  1.538605e-01 -4.717322e-01
## [17072,]  7.203742e-01  5.990862e-01  9.086264e-01 -1.699463e-01
## [17073,]  7.967548e-01 -2.397827e-01 -5.761903e-01  1.600187e+00
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## [17075,]  2.721696e-01 -6.278826e-01 -1.905186e+00 -3.212992e-01
## [17076,]  7.809993e-01  1.432736e-01  1.071420e+00  1.534689e+00
## [17077,] -6.328421e-02  3.068532e-01  1.183339e+00 -6.040109e-01
## [17078,] -4.463262e-01 -5.954757e-01  2.169238e-02  1.817526e+00
## [17079,]  1.188804e-01  4.405182e-02 -5.251378e-01  4.760559e-02
## [17080,] -4.444374e-01 -6.496327e-01 -1.762075e+00 -2.757792e-01
## [17081,] -9.813138e-02 -1.349942e+00  1.443475e+00  9.705020e-01
## [17082,]  7.627816e-01 -1.255152e-01  8.900373e-01 -1.324451e-01
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## [17084,] -5.353651e-01 -1.571082e+00  4.497017e-01 -3.655216e-01
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## [17087,]  6.917468e-01 -4.030845e-01 -2.503806e-01 -4.656472e-01
## [17088,]  8.263005e-01 -6.961147e-01  1.110222e+00 -4.837491e-01
## [17089,]  1.254843e-01 -1.048351e+00  1.267536e+00 -6.642760e-01
## [17090,]  7.937996e-03  1.130997e+00 -6.719133e-01 -3.585693e-01
## [17091,]  1.790175e-01  7.644910e-02 -1.501847e+00 -1.787412e-01
## [17092,]  2.665755e-01 -5.724203e-01 -4.285009e-01 -2.951456e-01
## [17093,] -3.852370e-01 -3.165077e-01 -5.361760e-01  1.516339e-01
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## [17095,]  2.765727e-02 -1.787322e+00 -1.400912e-01 -7.530184e-01
## [17096,]  6.687292e-01 -4.707953e-01 -6.441272e-02  1.273252e+00
## [17097,]  2.974844e-01 -3.203888e-01  7.038132e-01  2.287463e-01
## [17098,]  5.445791e-01 -3.621268e-01  3.162948e-02 -7.485416e-01
## [17099,]  1.691617e-01  3.153036e-01  9.512569e-01 -3.686710e-01
## [17100,]  2.492381e-02  1.017795e+00 -1.344962e-02 -5.845822e-01
## [17101,]  2.426917e-01 -9.908446e-01 -7.863092e-01 -3.946385e-01
## [17102,]  2.844269e-01 -1.544962e-01 -3.111710e-01 -2.036692e-01
## [17103,]  1.807625e-01 -8.374134e-01 -1.842687e-01  1.567324e+00
## [17104,]  2.145962e-01 -6.050291e-01 -1.465430e+00 -4.527223e-01
## [17105,]  1.416756e-01 -8.970560e-01  9.815354e-01 -2.170524e-01
## [17106,] -2.527144e+00 -7.631496e-01 -5.442608e-01  1.475298e+00
## [17107,]  1.757085e-01 -1.162285e+00  1.216254e+00 -5.556959e-01
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## [17110,]  6.991195e-01  2.019816e-01 -2.932023e-01 -4.462838e-01
## [17111,]  2.336369e-01 -6.353901e-01 -1.299674e+00 -4.083503e-01
## [17112,]  3.187017e-01 -5.391512e-01 -4.122719e-01 -1.418355e-01
## [17113,]  6.269888e-01 -5.198013e-01  1.488253e+00 -1.085249e+00
## [17114,]  7.172670e-01  8.350118e-01  8.344245e-01 -2.224216e-01
## [17115,]  4.852792e-02 -5.652620e-01 -3.556292e-01  1.395878e+00
## [17116,]  8.299398e-01 -3.105136e-01  1.619906e-01 -4.522501e-01
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## [17118,]  6.242751e-01 -1.228889e+00 -9.054007e-01 -7.646386e-01
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## [17124,] -8.563881e-01 -1.234066e+00 -9.480714e-01 -3.404169e-01
## [17125,] -6.875530e-01 -4.328975e-01 -1.135078e+00  1.826780e-01
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## [17130,] -1.572893e+00  8.826652e-01 -1.520534e+00 -8.405710e-01
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## [17137,]  2.974824e-01 -5.062133e-01 -1.187840e+00  1.608962e+00
## [17138,]  1.465178e-01 -1.325646e+00  6.504609e-01 -5.030076e-01
## [17139,]  7.534102e-01 -8.285187e-01  1.803059e-01  1.319187e+00
## [17140,]  2.640445e-01 -4.327429e-01 -4.434783e-01 -1.055355e-01
## [17141,]  1.889842e-01 -1.053053e+00 -1.734249e+00 -5.757477e-01
## [17142,]  7.541611e-01  1.191225e-02 -9.797866e-01 -1.691912e-01
## [17143,]  1.369591e+00 -5.112385e-01 -5.071545e-01 -4.678929e-01
## [17144,]  2.771126e-01  2.188290e-01 -1.700915e+00  1.838869e-01
## [17145,]  8.834955e-01 -2.286785e-01  2.203636e-01 -4.508221e-01
## [17146,]  2.796357e-01 -4.067121e-01 -1.604743e+00 -2.615077e-01
## [17147,] -1.201564e-02  4.419217e-01 -1.008260e-01 -8.308996e-01
## [17148,]  6.317790e-01 -7.111928e-01 -1.600675e+00  1.116857e+00
## [17149,] -6.111434e-01  2.838892e-02  5.944253e-01  1.718038e+00
## [17150,]  5.414241e-01 -7.246531e-01  1.366093e+00 -9.573226e-01
## [17151,] -1.395612e+00  2.128937e-02 -3.408846e-02  1.137888e+00
## [17152,]  7.102375e-01 -1.509474e-01 -1.795688e-01 -7.041757e-01
## [17153,]  6.087380e-01  1.063076e+00  1.089947e+00 -7.774536e-01
## [17154,]  3.994772e-02 -4.235933e-01 -8.908805e-02 -8.494116e-01
## [17155,]  4.154439e-01 -7.103058e-01  1.531210e+00  6.816196e-01
## [17156,] -1.639827e+00 -3.421077e-01  1.636270e-01 -1.113813e+00
## [17157,]  1.486508e-01 -1.994461e-01 -1.721585e-01  1.389438e+00
## [17158,]  1.192074e+00  3.129651e-01 -4.509504e-01 -5.983928e-01
## [17159,] -3.590595e-02  1.164942e+00 -4.567606e-01 -6.427481e-01
## [17160,]  1.012941e+00  6.317292e-02  8.613579e-01 -1.133253e+00
## [17161,]  9.575966e-01  2.367303e-01 -3.435384e-01 -2.079860e-01
## [17162,]  8.738423e-01  4.431076e-02 -2.449947e-01  1.419767e+00
## [17163,]  2.345784e-01  5.227043e-01  3.904106e-01 -5.727689e-01
## [17164,] -3.571324e-01  1.502464e+00 -1.470765e+00  8.645013e-01
## [17165,]  4.973448e-02 -5.419287e-01  1.233003e+00 -6.393525e-01
## [17166,]  2.753700e-01 -8.523480e-01 -3.072058e-01 -2.866394e-01
## [17167,]  6.679946e-02 -1.044871e+00 -1.044476e-01  1.286797e+00
## [17168,] -5.411066e-02  2.648418e+00  1.019810e+00 -4.484814e-01
## [17169,]  7.888690e-01  2.273784e-01  8.934069e-01  1.797578e+00
## [17170,] -2.466770e+00  3.289227e-01  8.468321e-01 -1.013017e+00
## [17171,] -1.321610e+00  2.845907e+00  6.076066e-01  1.545204e+00
## [17172,]  2.778805e-01 -8.306748e-02 -2.011550e+00  1.746218e+00
## [17173,] -1.531201e+00  7.804325e-01  9.201514e-01 -3.319470e-01
## [17174,] -5.259948e-01 -3.333803e-01 -2.477287e-01  1.639747e+00
## [17175,] -1.834278e-01  2.230448e-01 -2.821302e-02 -1.338111e+00
## [17176,]  7.418931e-01  1.046436e-01 -1.079631e+00  1.635476e+00
## [17177,]  2.543908e-01 -2.751065e-01  5.121597e-01 -9.891507e-02
## [17178,] -7.126050e-01 -2.752952e-01  1.021517e+00 -3.732787e-01
## [17179,]  7.208083e-01 -1.074200e+00 -1.770729e-01  9.819971e-01
## [17180,]  3.309801e-02  3.355529e-01 -5.024415e-02 -1.189947e-01
## [17181,] -3.761299e-01 -8.932157e-01 -1.713856e+00  1.678421e+00
## [17182,] -5.771625e-01 -7.888822e-01 -1.631470e+00  1.440313e+00
## [17183,]  8.012441e-01 -1.796479e-01  8.940190e-01 -6.205420e-02
## [17184,] -4.191366e-02  4.907036e-02 -1.206711e+00 -3.655888e-01
## [17185,] -3.935844e-01  1.689940e-02  7.126415e-01  2.051784e-01
## [17186,]  3.282095e-01  8.253624e-02 -2.009825e+00  1.856674e+00
## [17187,] -1.681572e+00  1.162945e+00  1.768778e-01  4.048598e-01
## [17188,]  3.638938e-01 -6.799310e-01 -1.601466e+00  1.737695e+00
## [17189,]  8.291518e-01 -2.417116e-01 -3.270665e-01  1.800334e+00
## [17190,] -6.714111e-01 -1.277189e+00  1.115000e+00 -3.975330e-01
## [17191,] -6.889680e-01 -8.872695e-01  1.070269e-01 -2.075911e-01
## [17192,]  4.140833e-02  6.428739e-01  9.252107e-01 -2.831260e-01
## [17193,]  2.597802e-01  6.465544e-01  1.777349e-01  5.538177e-01
## [17194,]  4.230991e-01  6.756459e-01  6.014811e-02  3.932696e-01
## [17195,] -4.951394e-01 -5.029555e-01 -1.749642e+00  5.570340e-02
## [17196,]  2.253378e-02  4.545203e-01  1.140861e+00  1.222760e+00
## [17197,]  3.228661e-02 -8.077979e-01  1.168170e+00 -5.807743e-01
## [17198,]  1.385949e+00  5.664105e-01  1.119734e+00 -7.292786e-01
## [17199,]  9.661402e-01 -9.549915e-02 -5.196089e-01 -2.339161e-01
## [17200,] -9.442265e-01 -2.478019e-01 -9.566641e-01  4.087550e-01
## [17201,] -9.040553e-02 -9.165997e-01 -1.253862e+00 -8.456439e-01
## [17202,] -4.808071e-01 -7.691076e-01 -2.510055e-01  1.506162e+00
## [17203,] -2.498208e+00  5.311468e-01  8.497475e-01 -9.897013e-02
## [17204,] -6.128438e-01 -3.479596e-01 -7.306484e-02  4.443504e-02
## [17205,] -7.643109e-01  9.054904e-01  1.163013e+00  1.057350e+00
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## [17209,]  7.559575e-01 -1.265719e-01  1.036300e+00  1.657074e+00
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## [17212,] -6.067372e-01 -4.096553e-01 -3.284483e-01 -3.639115e-01
## [17213,] -4.558401e-01  6.543145e-01  1.781555e-01 -1.746404e-01
## [17214,] -1.625361e+00  9.805488e-01  1.041095e+00 -5.020679e-01
## [17215,]  1.017887e-01  3.576557e-02 -1.910939e+00 -3.918848e-01
## [17216,] -1.228234e+00 -9.399501e-02 -2.555614e-01  1.536623e+00
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## [17219,] -9.087314e-02 -9.486716e-01 -1.349990e-01  1.226393e+00
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## [17225,]  6.397171e-02  2.443038e-01 -8.876464e-01 -3.172833e-01
## [17226,]  4.179382e-01 -2.429744e-01  1.350553e+00 -9.811356e-01
## [17227,]  9.194834e-01 -3.194941e-01 -1.805146e+00 -2.722720e-01
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## [17229,] -1.139820e-01  1.351226e+00  1.238958e+00  9.846196e-01
## [17230,] -1.682979e+00  1.843855e+00 -1.554736e+00  1.214205e+00
## [17231,]  1.472230e-01 -5.814755e-01 -1.722220e+00 -6.280056e-01
## [17232,]  4.277154e-03 -9.938613e-01  1.301646e+00  1.247582e+00
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##  [17234,] -4.099557e-02 -7.855343e-01  3.663038e-01  1.008800e+00
##  [17235,]  6.813246e-01 -3.414995e-02  1.120889e+00  1.308304e+00
##  [17236,] -7.489989e-01 -1.201586e+00  7.839431e-01 -3.842090e-01
##  [17237,] -1.635635e+00  1.588222e+00 -3.836304e-01 -5.595412e-01
##  [17238,] -5.256979e-02 -1.375719e+00  1.171067e+00 -5.036942e-01
##  [17239,]  3.288115e-02 -3.495561e-01  1.009499e+00  1.649756e+00
##  [17240,] -2.198152e+00  6.599860e-01  9.453305e-01  1.561038e+00
##  [17241,] -2.332301e-01  1.458621e+00 -1.477177e+00 -1.033097e+00
##  [17242,]  1.280830e-01 -1.295393e+00  1.340952e+00  1.151505e+00
##  [17243,]  1.296773e-01 -1.167310e+00 -1.687054e+00 -5.920638e-01
##  [17244,] -1.221261e+00  2.799898e-01 -5.874281e-01  1.572582e+00
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##  [17249,] -5.194388e-01  2.605187e-01  1.044441e+00 -7.345634e-01
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##  [17251,]  6.649149e-01  3.099991e-01  9.906799e-01 -3.288093e-01
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##  [17253,] -1.046777e+00 -4.483274e-01 -1.666531e-01 -6.633792e-01
##  [17254,] -9.403140e-01 -1.209928e+00  3.274643e-02 -8.472484e-01
##  [17255,] -1.416068e-02 -1.031913e+00 -1.477167e+00 -6.928422e-01
##  [17256,] -5.832542e-01  2.723052e-01  8.533347e-01  1.834235e+00
##  [17257,] -6.496554e-02  1.839251e+00  9.234330e-01 -6.944398e-01
##  [17258,] -2.193298e-01 -8.940917e-01 -6.057250e-01  2.818238e-01
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##  [17260,]  3.360896e-02 -6.933883e-01 -1.505196e+00  1.289823e+00
##  [17261,]  7.754418e-01 -3.532876e-01 -1.849538e+00 -1.848597e-01
##  [17262,] -2.044371e+00 -1.067506e+00  3.315391e-02 -7.983557e-01
##  [17263,]  6.999881e-02  4.546603e-02 -9.067237e-01 -5.592388e-01
##  [17264,] -5.026559e-01 -7.469458e-01  8.968933e-01 -3.755245e-01
##  [17265,] -2.043968e+00 -5.506377e-01  1.320811e+00 -7.279122e-01
##  [17266,]  2.283255e-01  8.407698e-01 -6.740652e-01  1.605103e+00
##  [17267,]  1.536719e-01 -9.703360e-01 -1.163773e+00  1.341887e+00
##  [17268,]  7.448789e-01  2.511583e+00  9.287310e-01 -3.480515e-01
##  [17269,]  8.573282e-01 -4.781194e-02  7.824022e-01 -4.846514e-01
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##  [17271,]  1.324458e-01 -1.126604e-01  5.330837e-01 -4.017023e-01
##  [17272,] -2.361645e+00  3.527802e-01  3.062260e-02 -8.407182e-01
##  [17273,]  2.302623e-01 -2.454097e-02 -8.131055e-01 -1.472884e-01
##  [17274,] -1.066282e-03  6.869875e-01 -2.809220e-01 -7.003332e-01
##  [17275,] -1.553940e+00  2.158117e-01 -1.691724e-01 -7.624763e-01
##  [17276,]  2.207805e-01 -3.846634e-01  9.678141e-01  1.655958e+00
##  [17277,] -1.419996e+00  6.395394e-01  3.510968e-01 -4.609368e-01
##  [17278,]  1.033105e+00  4.677322e-01 -3.251863e-01 -4.905809e-02
##  [17279,] -4.678748e-01 -7.374621e-01 -6.501303e-01 -1.227532e-01
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##  [17296,]  2.590627e-02 -1.219584e+00 -4.361953e-01  1.018900e+00
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##  [17298,]  9.278266e-01  7.031188e-01  7.782602e-01 -6.620370e-02
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##  [17301,] -1.337183e+00  1.046561e+00 -1.425051e+00 -6.888415e-01
##  [17302,]  7.369069e-01 -4.671118e-01  1.220996e+00 -6.819452e-01
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##  [17304,]  3.662186e-01  3.217612e-01 -6.250403e-01  3.464432e-02
##  [17305,]  6.230627e-01 -6.483272e-01 -1.222946e+00 -5.914062e-01
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##  [17317,]  5.373048e-01 -1.430668e+00  1.528391e+00  8.702924e-01
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##  [17326,] -6.142653e-01 -1.126741e+00  1.018401e+00  1.792910e+00
##  [17327,] -2.176572e-01  1.071058e+00 -2.971068e-01 -1.117243e+00
##  [17328,]  1.762972e-01  8.165865e-01 -1.395508e+00 -2.572115e-01
##  [17329,]  7.086478e-01 -5.713808e-01 -1.798416e+00 -5.066958e-01
##  [17330,] -1.500990e+00 -3.358392e-01 -3.452201e-01 -7.576833e-01
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## [17331,]  1.054018e+00  5.197123e-01  7.924292e-01  7.447665e-02
## [17332,]  3.387166e-01 -2.947227e-01  2.651099e-02  1.763350e+00
## [17333,] -9.339855e-01  2.443807e+00  2.601846e-01  6.377969e-01
## [17334,] -1.452084e+00 -5.525233e-02  1.423636e+00 -8.605025e-01
## [17335,] -4.997153e-01 -5.659675e-01  1.007601e+00 -3.282401e-01
## [17336,] -7.138896e-02  7.543834e-01 -1.176652e+00  1.028334e+00
## [17337,] -2.503837e+00 -1.191485e+00 -2.643029e-01 -2.865666e-01
## [17338,] -5.832135e-01  1.588969e-01 -5.744495e-02 -6.696900e-01
## [17339,]  9.384740e-01  3.012264e-01 -8.367683e-01  1.553676e-01
## [17340,]  1.023798e+00 -3.241940e-02  1.322054e+00 -9.713638e-01
## [17341,] -1.233499e+00 -9.521371e-02 -1.583595e+00 -6.165159e-02
## [17342,] -2.133246e+00 -1.920185e-01  1.032859e+00 -3.115660e-01
## [17343,] -2.058738e+00 -4.019051e-01  2.619077e-01 -1.249792e-01
## [17344,] -6.887292e-02 -9.676096e-01  1.260614e+00  1.316684e+00
## [17345,]  7.987487e-01 -1.131579e+00  1.261686e+00 -6.226117e-01
## [17346,]  1.236086e+00  1.761632e-01  1.144878e+00 -5.836464e-01
## [17347,]  3.514230e-01 -3.859997e-01 -1.091267e+00  1.757185e+00
## [17348,]  6.005108e-01 -8.887192e-01  4.244066e-01  1.174412e+00
## [17349,] -5.135010e-01 -6.365582e-01  9.331831e-01 -1.554925e-01
## [17350,]  1.423788e+00 -2.209850e-01  1.026826e+00 -3.804847e-01
## [17351,]  3.907019e-01  4.974187e-01  7.744537e-01  1.425583e-01
## [17352,]  9.695769e-01 -3.433669e-01  9.328817e-01 -2.034783e-01
## [17353,] -1.188144e-01 -4.580222e-01 -4.646269e-02 -8.751935e-01
## [17354,] -1.134909e+00  1.343897e-01  1.585432e+00  4.817964e-01
## [17355,] -8.163835e-01  1.357958e-01  1.064901e+00 -1.055185e+00
## [17356,]  2.347499e-01 -5.585967e-01  9.683946e-01  1.760109e+00
## [17357,]  1.382082e+00 -1.114735e-01 -5.718652e-01 -2.661165e-01
## [17358,]  3.637855e-01 -7.120491e-02 -2.066431e+00 -4.412749e-02
## [17359,]  4.568055e-01 -6.647238e-03 -9.042719e-01  2.198428e-01
## [17360,] -1.081528e+00 -6.831883e-01 -4.850507e-04 -8.070360e-01
## [17361,] -2.060806e+00  1.823439e-01  1.167854e+00 -6.543494e-01
## [17362,] -7.183468e-01  6.767259e-02  1.382386e+00 -9.766168e-01
## [17363,]  8.643613e-01  4.724116e-01 -1.517668e+00 -4.464367e-01
## [17364,] -5.245554e-01  1.055505e+00 -1.756956e+00 -7.262165e-01
## [17365,]  5.888172e-01 -1.080179e+00  4.408101e-01 -8.119718e-01
## [17366,]  8.960862e-01 -1.153523e+00  1.160340e+00 -4.865418e-01
## [17367,]  9.825208e-01  5.378283e-02 -1.849153e+00 -1.951860e-01
## [17368,]  3.747788e-02 -8.441093e-01 -2.023520e-01 -4.868973e-01
## [17369,]  7.598146e-01 -8.602073e-03 -1.975257e+00 -2.137774e-01
## [17370,] -7.732270e-01  9.941164e-01  1.052618e+00 -6.156896e-01
## [17371,]  1.825307e-02  5.171044e-02 -1.028885e+00 -6.850127e-01
## [17372,]  2.674640e-01 -7.783024e-01 -1.648134e+00  1.771814e+00
## [17373,]  9.376981e-01  4.341235e-01 -5.648242e-01  9.987021e-02
## [17374,]  4.278362e-02 -8.528043e-01 -1.844170e+00  1.544759e+00
## [17375,] -4.810932e-01  1.146322e+00  1.044345e+00  1.451833e+00
## [17376,] -6.460578e-02 -5.930777e-01 -2.744322e-01 -7.115758e-01
## [17377,] -5.058213e-01 -5.022571e-01  9.307248e-01 -1.297864e-01
## [17378,] -9.455709e-01  1.484054e+00  5.501413e-02 -1.339568e+00
## [17379,]  6.258760e-01  9.655181e-01 -1.640101e+00 -3.899463e-01
## [17380,]  4.547806e-01 -3.454857e-01  1.467277e+00  8.973383e-01
## [17381,]  9.088258e-03 -1.443834e+00  2.628796e-01 -4.048946e-01
## [17382,]  9.592924e-02 -1.431765e+00  1.245646e+00 -4.383995e-01
## [17383,] -7.214342e-01 -4.392971e-01  1.455813e+00 -1.045153e+00
## [17384,] -3.310661e-01  5.994343e-01  1.356886e+00 -1.170734e+00
## [17385,] -6.606453e-01 -9.482954e-01  2.973894e-01 -8.269120e-01
## [17386,]  5.659334e-01  4.144341e-01 -3.030422e-01 -1.025161e+00
## [17387,] -1.275889e+00  2.786385e-01  1.293256e+00 -8.016309e-01
## [17388,] -1.427545e+00 -2.103083e-01  1.037210e+00 -2.407088e-01
## [17389,] -2.867163e-04  1.742642e+00 -7.899460e-01 -2.890832e-01
## [17390,] -7.428679e-01  1.499081e+00  2.143045e-02 -5.610644e-01
## [17391,]  7.590616e-01  2.491096e-01  1.479143e-01 -1.212777e-01
## [17392,]  1.959096e-01 -3.807840e-01 -1.672099e+00 -9.667221e-02
## [17393,] -5.650859e-01  6.637238e-01  4.079013e-01 -2.055246e-01
## [17394,]  9.626733e-01  5.370233e-01  8.274222e-01 -1.163320e-01
## [17395,]  6.040303e-01  5.463033e-01 -1.643332e+00 -6.188262e-01
## [17396,]  1.497785e+00  2.420722e-01  8.133422e-01  1.660636e+00
## [17397,]  8.958892e-01  3.223627e-01 -3.585149e-01 -3.851856e-01
## [17398,]  9.768493e-01 -1.249900e-01  9.960596e-01 -1.954893e-01
## [17399,] -3.750434e-01 -4.834118e-01 -2.004985e+00  1.745095e+00
## [17400,]  1.198808e-02 -1.139909e+00  1.177779e+00 -5.586971e-01
## [17401,]  1.405324e-01 -1.459893e+00 -5.895460e-02  1.296465e+00
## [17402,]  9.234697e-01  1.190689e-01  3.958263e-01  6.148960e-02
## [17403,] -1.293184e+00 -1.039636e-01 -2.004484e-01  1.334753e+00
## [17404,]  1.986321e-01 -5.563717e-02 -2.037347e+00 -7.412196e-02
## [17405,] -5.240419e-01 -7.976690e-01 -1.431748e+00  1.787527e+00
## [17406,] -2.697932e+00  7.413258e-02  4.862345e-01 -6.665495e-01
## [17407,]  2.244841e-01  4.632733e-01 -5.892916e-01 -1.213793e-01
## [17408,] -3.376597e-02 -5.787560e-01 -7.876492e-01 -6.715229e-01
## [17409,] -3.027128e-01  4.032293e-01 -3.221157e-03  2.002369e+00
## [17410,] -2.159799e+00  6.921807e-01  9.609249e-01 -2.208973e-01
## [17411,] -1.704270e-01 -5.773947e-01 -9.524922e-01 -1.106480e+00
## [17412,] -1.390667e-03 -7.730799e-01 -1.671769e-01 -5.705879e-01
## [17413,] -1.430994e+00  1.668911e-01  9.495253e-01 -1.894418e-01
## [17414,]  8.703433e-01 -8.329069e-01  1.136246e+00 -5.055436e-01
## [17415,]  8.209825e-01  7.074222e-01  6.133731e-01 -3.527857e-01
## [17416,]  5.796930e-01 -1.131213e-01  1.325607e-02  1.109888e+00
## [17417,] -1.266885e-01  3.363801e-01 -1.596167e+00 -7.735136e-01
## [17418,] -7.035358e-01  3.542163e-02 -4.405469e-01 -6.293133e-01
## [17419,] -1.253614e+00 -1.116740e+00 -5.329032e-01  2.353490e-01
## [17420,]  7.234009e-01  6.321199e-01  1.046436e+00 -5.677231e-01
## [17421,]  9.880439e-02 -6.147655e-01 -1.022450e-01  1.380176e+00
## [17422,] -1.165729e+00 -1.470859e-01 -6.628262e-01  9.441048e-02
## [17423,]  1.081506e+00  1.376770e+00  1.158310e+00 -8.772198e-01
## [17424,]  6.284344e-01  1.572050e-01  1.249864e+00 -8.603524e-01
## [17425,] -3.149926e-02  1.481102e+00  3.385964e-01 -7.332196e-01
## [17426,] -1.105669e+00  2.100748e-01  1.032700e+00 -3.802197e-01
## [17427,] -1.168004e+00 -8.340210e-02 -2.079787e-01 -5.728521e-01
## [17428,] -6.721632e-01 -1.068283e+00 -2.205896e-01 -3.992926e-01
```

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## [17429,]  7.757737e-01  5.845745e-01 -2.070329e+00 -1.060746e-01
## [17430,]  4.009660e-01 -5.220497e-01  7.638764e-01  9.262326e-02
## [17431,] -1.265722e+00  5.677186e-01 -2.045344e-01 -3.482098e-01
## [17432,]  2.491413e-01 -4.399683e-01  8.538459e-01 -1.711416e-02
## [17433,] -1.328983e+00  2.010588e-01 -9.095856e-02 -5.390959e-01
## [17434,]  3.681558e-01 -1.727706e-01 -7.086958e-01  1.875272e-02
## [17435,]  1.858415e-01 -4.347466e-02  7.124740e-01  2.228206e-01
## [17436,] -1.577276e+00  1.943799e+00 -7.399157e-01 -3.612269e-01
## [17437,] -1.364955e+00  8.190757e-01 -4.088963e-01 -1.962115e-02
## [17438,]  9.388149e-01  4.656477e-01  6.610018e-01 -1.773236e-01
## [17439,] -6.216097e-01  1.592212e-01 -1.513586e+00 -4.321416e-01
## [17440,]  2.580995e-01  1.286669e-01  5.195818e-01 -1.902078e-01
## [17441,] -3.153326e-01  9.097777e-01  7.546413e-01 -1.842071e-01
## [17442,]  2.208923e-01  1.621454e+00 -7.042547e-02  5.136942e-01
## [17443,]  1.557410e-01 -8.292564e-01  1.200732e+00 -5.654353e-01
## [17444,]  6.670950e-01 -6.225166e-01 -7.858501e-01 -4.544973e-01
## [17445,]  6.624637e-01 -4.443113e-01  7.038899e-01 -4.221333e-01
## [17446,] -5.380633e-01 -4.687727e-01  9.084204e-01 -1.830068e-01
## [17447,]  2.557115e-01 -7.222679e-01 -1.519440e+00  1.864279e+00
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## [17450,]  2.014699e-01 -7.528760e-01 -1.262020e+00 -4.933737e-01
## [17451,] -6.156271e-01  1.010626e+00  9.594337e-01 -4.253111e-01
## [17452,] -1.176939e+00 -9.036471e-02 -6.059244e-01 -4.069312e-01
## [17453,]  1.767270e-01 -2.966231e-01 -2.749303e-01 -4.518617e-01
## [17454,]  1.215549e+00  2.222976e-01  1.185583e+00 -5.276475e-01
## [17455,] -2.118411e+00  1.075677e+00  1.199410e-01 -7.388743e-01
## [17456,]  1.154885e-01  1.575267e+00  1.624212e+00 -1.540674e+00
## [17457,] -1.695677e+00 -3.282475e-01  1.432989e+00  9.385433e-01
## [17458,]  7.906128e-01  1.414370e-02  3.138406e-01 -6.716083e-02
## [17459,] -2.294786e+00  1.362589e+00  5.293838e-01 -6.314825e-01
## [17460,]  8.124665e-01 -1.070719e-01 -2.741686e-01 -5.560743e-01
## [17461,]  8.657364e-02 -8.639792e-01  7.360241e-01 -7.427862e-01
## [17462,]  8.888568e-01 -4.012091e-01 -5.381778e-01 -3.122162e-01
## [17463,]  5.288470e-01  3.244598e-01 -2.075043e-01 -8.026047e-01
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## [17465,] -5.525269e-01 -7.630947e-01  1.116168e+00 -4.845233e-01
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## [17467,]  1.088920e+00  9.308955e-01  4.891751e-01 -8.575859e-01
## [17468,] -8.216016e-02 -4.667180e-01  1.084243e+00 -4.656624e-01
## [17469,] -1.124940e+00  2.901994e-01  1.996947e-01 -8.117462e-01
## [17470,]  4.001656e-01  1.273854e+00 -5.821935e-01  2.278385e+00
## [17471,]  7.732593e-01 -5.381267e-01  5.467399e-01 -4.018662e-01
## [17472,]  7.013053e-01 -2.738899e-01 -1.373396e+00 -3.575422e-01
## [17473,] -5.823230e-01 -1.661125e+00  1.286942e+00  1.365127e+00
## [17474,]  1.020693e-01  2.172018e-01 -1.583181e+00 -4.481454e-01
## [17475,]  2.644394e-02 -9.114172e-01  1.267055e+00 -6.344394e-01
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## [17492,] -8.468984e-01 -8.015103e-01 -2.171149e-02 -7.936151e-01
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## [17497,]  1.016140e-01  5.530107e-01 -1.505431e+00 -4.950820e-01
## [17498,] -1.824722e-01 -4.532727e-01 -1.461747e+00 -8.580145e-01
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## [17500,]  1.335528e+00 -4.553699e-01  1.070068e+00  1.554207e+00
## [17501,] -5.663469e-01  4.474942e-01 -1.702236e+00 -2.111399e-01
## [17502,] -1.479725e+00 -5.107505e-01 -1.531625e+00 -3.755565e-01
## [17503,]  8.443684e-01 -4.071613e-01 -5.084761e-01 -1.290535e-01
## [17504,]  1.027899e-01 -6.087371e-01  1.147899e+00  1.433818e+00
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## [17507,]  1.006506e+00  3.701493e-01  9.507618e-01  1.768920e+00
## [17508,]  6.562447e-01 -2.201186e-01 -9.291832e-01 -5.531148e-01
## [17509,] -1.759926e+00 -1.367596e-01 -1.110377e+00  6.168669e-01
## [17510,]  1.206330e-01 -2.317120e-01  1.039008e+00 -4.093335e-01
## [17511,] -1.670956e+00 -7.083235e-01 -1.463737e+00 -9.675648e-01
## [17512,] -4.935089e-01 -8.301796e-01 -2.061253e+00  1.004932e-02
## [17513,] -3.129422e-01  1.030210e+00 -1.550889e-01  6.756720e-01
## [17514,] -2.007191e+00  2.336211e-01  5.665668e-02 -5.587687e-01
## [17515,]  6.763737e-01  6.382994e-02  2.722246e-02  1.464758e+00
## [17516,] -6.081043e-02 -3.558622e-01 -3.015647e-01 -4.134187e-01
## [17517,] -1.247867e-02 -4.846501e-01  1.013910e+00 -3.051525e-01
## [17518,] -2.050584e+00  1.770822e+00 -5.071157e-01 -4.696113e-01
## [17519,] -8.702467e-01  1.400368e+00  1.343534e+00  6.888356e-01
## [17520,]  1.941207e-01 -7.056201e-01  1.119358e+00 -4.524136e-01
## [17521,]  5.366502e-01 -9.491055e-01  1.339487e+00 -7.947396e-01
## [17522,] -6.301883e-01  5.011321e+00 -1.588163e+00  1.631749e+00
## [17523,] -1.121205e+00  1.593102e+00 -6.126456e-01  3.324796e-01
## [17524,] -5.873454e-02  3.940239e+00 -3.421073e-01  1.519571e+00
## [17525,]  6.314885e-01 -5.914448e-01 -2.546057e-01 -5.609492e-01
## [17526,]  1.576038e-01 -7.204844e-01 -5.845291e-02 -3.009914e-01
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## [17527,]  8.168700e-02 -2.538688e-01  1.172459e+00 -6.596113e-01
## [17528,]  3.682426e-01 -7.689460e-01  1.538984e-01 -1.181161e+00
## [17529,] -6.380684e-01  6.018974e-01 -6.594749e-01 -3.574613e-01
## [17530,]  6.008823e-01  6.333809e-01  3.270755e-01 -8.926059e-01
## [17531,] -3.271886e+00 -6.041754e-01  1.214266e+00 -5.719435e-01
## [17532,] -6.175532e-01 -5.596668e-01  1.006614e-01 -2.199732e-01
## [17533,]  2.187975e-01 -1.243999e+00  7.678278e-01 -3.287689e-01
## [17534,]  5.701785e-01 -2.587053e-01 -4.061983e-01 -1.199259e+00
## [17535,] -3.381010e-01  4.996646e-01 -9.375786e-01  1.441365e-01
## [17536,] -5.457109e-02 -6.112963e-01  1.197440e+00  1.392787e+00
## [17537,]  1.948377e-01 -6.968547e-01  1.118653e+00 -4.501199e-01
## [17538,]  4.952051e-01  4.524089e-01  1.099070e+00 -6.905326e-01
## [17539,] -9.042305e-02  2.150605e+00  1.214703e-01 -1.045228e+00
## [17540,] -2.300270e-01 -8.523238e-02 -2.239719e+00  2.873613e-01
## [17541,]  4.561369e-02  1.246083e+00  5.099468e-01 -4.660876e-01
## [17542,]  3.105083e-01 -3.275071e-01 -1.470486e-01 -2.996002e-02
## [17543,] -1.335359e+00  3.085342e+00 -2.013829e-01  1.371362e+00
## [17544,] -2.041029e+00  1.312378e+00 -5.192629e-01 -1.934941e-01
## [17545,]  9.914671e-01  9.364951e-01 -6.550375e-01  2.197297e-01
## [17546,] -1.005721e+00 -7.552011e-01 -1.342197e+00 -9.986571e-01
## [17547,]  9.878463e-02 -1.041231e+00  5.911024e-01 -7.479851e-01
## [17548,]  3.103522e-01  2.345646e-01 -8.886793e-02  1.911537e+00
## [17549,] -6.503168e-01 -1.736249e+00  1.403366e+00  1.185043e+00
## [17550,] -9.053310e-01  9.446301e-01 -1.094261e-01 -1.009525e+00
## [17551,] -3.820325e-01 -2.082352e-01 -1.390960e+00 -4.947735e-02
## [17552,] -5.053151e-01 -1.394700e+00 -1.130681e-01 -2.979161e-01
## [17553,]  8.039928e-01  8.872846e-01 -3.862242e-01 -5.154372e-01
## [17554,]  1.530295e+00  4.603462e-01 -5.125176e-01  1.368847e+00
## [17555,] -1.103830e+00 -3.129768e-01 -1.031215e+00  5.524241e-01
## [17556,]  1.441613e+00 -4.273970e-01 -4.030379e-02  1.572177e+00
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## [17558,]  7.549794e-02 -3.013450e-01 -1.778788e-02 -7.283819e-01
## [17559,] -4.981880e-01  1.085983e+00  9.867707e-01 -4.202991e-01
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## [17562,]  2.148133e-01  1.675436e+00 -2.643609e-01 -2.245480e-01
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## [17581,] -5.120232e-01 -2.699093e-01  9.608610e-01 -3.146390e-01
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## [17597,] -1.832464e-01 -1.222053e+00 -1.427644e+00  9.271138e-01
## [17598,] -2.904575e-01  9.108805e-01 -6.685088e-01  1.680421e+00
## [17599,] -2.330803e+00  1.303295e+00  5.087374e-01 -6.099788e-01
## [17600,]  6.476695e-01 -7.798651e-01  1.521283e-01 -5.509277e-01
## [17601,] -1.588163e+00  1.211426e+00 -3.845684e-01 -7.746381e-01
## [17602,]  1.401473e-01 -9.405006e-01 -1.756887e+00 -5.305496e-01
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## [17607,] -1.010830e+00  1.393857e+00  1.343428e+00 -1.156349e+00
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## [17616,] -1.671207e+00 -7.802594e-01 -1.290480e+00 -9.668072e-01
## [17617,] -1.650012e+00  1.486944e+00  1.226025e+00 -8.902084e-01
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## [17623,] -3.695426e-01 -1.048673e+00 -6.743226e-01  1.718911e+00
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## [17625,] -5.073934e-01  1.076691e-01 -1.293641e+00 -5.072189e-01
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## [17628,]  1.248673e+00 -5.046185e-01 -1.273458e-01 -7.173692e-01
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## [17631,] -6.661047e-01 -1.752173e+00 -1.252539e+00  1.308755e+00
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## [17633,]  1.317370e+00 -7.838693e-01 -1.310256e+00 -7.654443e-01
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## [17646,]  2.922099e-01 -5.158577e-01  2.946589e-01 -2.252979e-01
## [17647,] -2.002401e+00  1.381939e-01 -1.332236e+00 -2.061734e-02
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## [17649,] -6.976006e-01  7.673096e-01  1.202255e+00 -8.219667e-01
## [17650,]  7.496116e-01 -6.245945e-01 -1.804465e+00 -5.172556e-01
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## [17655,]  8.642495e-01  7.734206e-01  1.029001e+00  1.490699e+00
## [17656,] -2.898653e+00 -3.228034e-01  6.652740e-01 -9.205585e-01
## [17657,] -9.023364e-01 -4.123491e-01 -9.086758e-01  2.534108e+00
## [17658,] -1.450398e+00  1.664032e+00  1.167879e+00 -8.219153e-01
## [17659,] -1.331763e+00  8.333317e-01  7.361466e-01  1.155471e+00
## [17660,] -4.950583e-01  1.523384e-01 -1.229657e-01 -7.015793e-01
## [17661,]  1.838559e-01 -1.246215e+00 -3.805002e-01  1.388744e+00
## [17662,] -2.010892e+00  2.812850e-01 -8.267854e-02 -5.809533e-01
## [17663,] -2.216770e-01  8.180116e-01 -7.562356e-01 -1.130145e+00
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## [17665,] -1.258785e+00  5.666006e-01 -9.946121e-01 -5.185905e-01
## [17666,] -5.498372e-01  1.828562e+00  1.212816e+00 -6.726414e-01
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## [17692,] -7.299368e-01 -1.143881e-02 -1.333406e+00 -7.208820e-01
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## [17700,]  3.427577e-01 -2.196497e-01 -2.032031e+00 -1.083274e-01
## [17701,]  6.889215e-01  1.197908e+00 -1.989479e+00 -2.609409e-01
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## [17704,]  1.013649e+00  8.458260e-01 -6.980048e-01  3.514290e-03
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## [17706,]  7.119784e-01  8.990243e-02 -4.457107e-01 -3.533712e-01
## [17707,] -2.650426e+00 -9.792020e-01  1.079697e+00 -5.126482e-01
## [17708,]  1.082641e+00  2.360346e-01  1.288153e+00 -9.315598e-01
## [17709,]  6.094611e-01  1.779128e+00  4.250354e-01 -5.137693e-01
## [17710,] -1.796496e+00 -4.161566e-02  9.217409e-01 -6.405559e-02
## [17711,]  6.399172e-02 -7.835921e-01 -1.757280e+00 -2.260403e-01
## [17712,]  1.257356e+00 -1.183585e-01  1.094560e+00 -4.381278e-01
## [17713,]  2.281160e-01 -2.778395e-01  8.374318e-01 -4.100225e-02
## [17714,]  8.044341e-01 -5.011292e-01  2.023948e-01  1.502782e+00
## [17715,] -7.950902e-01  6.969295e-01  9.683240e-01 -4.465707e-01
## [17716,]  6.245596e-01 -1.296947e+00 -1.103826e-01 -6.222553e-01
## [17717,]  2.811291e-01  1.117267e+00  1.327887e+00 -1.143950e+00
## [17718,] -2.016726e+00  1.881643e-01 -1.234840e+00 -6.116941e-01
## [17719,] -4.603235e-01 -8.925192e-01  1.118856e+00 -3.133520e-01
## [17720,] -2.843725e+00 -3.212982e-01 -1.511950e+00 -6.583797e-01
## [17721,] -3.842333e-01 -7.763292e-01 -4.869368e-01  1.030437e-01
## [17722,]  4.383940e-01 -1.634409e-01  1.013676e+00 -1.040872e+00
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##  [17723,] -1.232898e+00 -9.662812e-01 -6.566061e-01  2.117484e+00
##  [17724,]  7.703004e-01  1.047664e+00 -3.724306e-02 -1.330610e-01
##  [17725,] -6.725561e-01  2.136889e-01 -5.417739e-02  1.297829e+00
##  [17726,]  7.824469e-01 -1.063603e-02  1.041585e+00 -3.174453e-01
##  [17727,]  3.299823e-01 -3.239383e-01 -1.810055e+00  1.702652e+00
##  [17728,] -7.391581e-01  6.047565e-01 -3.367677e-02 -8.764260e-01
##  [17729,]  5.080161e-02 -1.227610e-01 -1.430360e-01 -4.160064e-01
##  [17730,]  6.748543e-01 -7.220016e-01 -2.441132e-01 -4.347389e-01
##  [17731,]  1.373273e+00  1.980916e-01 -3.362443e-01 -5.093254e-01
##  [17732,]  1.674601e-01 -8.045821e-01  3.953359e-01 -5.942401e-01
##  [17733,] -1.438833e+00 -2.032268e-01 -3.224249e-01 -2.693970e-01
##  [17734,] -1.288326e+00 -2.057525e+00  1.197859e+00 -3.999351e-01
##  [17735,]  1.784383e-01  1.845641e-01 -8.644305e-01 -4.085889e-01
##  [17736,] -1.140422e+00 -1.775087e-01 -1.641487e-01  9.041504e-01
##  [17737,]  1.008364e+00  4.124998e-01  8.222572e-01 -3.360604e-02
##  [17738,] -1.517310e+00 -1.059537e+00 -1.186558e+00 -2.432666e-01
##  [17739,]  1.505688e-01  1.143914e-01 -7.285934e-01 -1.315940e-01
##  [17740,] -1.059175e+00  3.174461e-01 -7.330659e-01 -8.782380e-02
##  [17741,] -3.168178e+00  1.702277e+00  7.699788e-01  9.632259e-02
##  [17742,] -1.832927e+00  8.604826e-01 -4.954209e-01 -5.724069e-02
##  [17743,] -2.277350e+00  4.138374e-01 -1.844341e+00 -5.880002e-01
##  [17744,] -5.643109e-01 -1.155389e+00 -3.246555e-01 -6.358371e-01
##  [17745,] -8.390055e-02 -8.479012e-01 -1.577106e+00 -5.849531e-01
##  [17746,] -2.425624e+00 -5.571832e-01 -3.668454e-01 -9.205251e-02
##  [17747,]  7.486129e-01  1.301126e-01 -1.220108e+00  1.207580e+00
##  [17748,]  5.394125e-01  3.668670e-01  1.152744e+00 -7.179822e-01
##  [17749,]  8.146836e-01 -5.954762e-01  4.199463e-01 -6.827906e-01
##  [17750,]  1.019954e+00  6.380995e-01  7.494415e-01  3.107036e-02
##  [17751,] -1.906581e+00 -4.327901e-01  1.153693e+00  1.463918e+00
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##  [17753,]  2.737384e-01  1.563622e-01 -5.871806e-01  1.614463e+00
##  [17754,] -3.898506e-01 -6.043572e-01  3.113695e-01  3.527049e-01
##  [17755,] -4.890798e-01 -1.071972e+00 -4.703632e-01  4.835768e-02
##  [17756,] -6.029803e-01 -3.378516e-01 -8.767664e-01  6.431470e-02
##  [17757,]  1.477498e-01 -9.333274e-01  1.133952e+00 -4.400579e-01
##  [17758,] -3.914340e-01 -9.498078e-01 -4.974771e-01  1.634203e+00
##  [17759,] -3.222845e+00 -2.549122e-01 -1.277319e+00 -4.634910e-01
##  [17760,] -8.182603e-02 -1.360280e+00  1.351792e+00  1.230787e+00
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##  [17763,] -1.322967e+00  5.554364e-01  1.303140e+00 -8.777108e-01
##  [17764,] -1.263087e+00 -2.161749e-01 -8.662873e-01  2.275034e+00
##  [17765,] -1.329586e+00  1.374328e-01 -5.122778e-01  3.685799e-02
##  [17766,] -6.256535e-01  5.352891e-01 -3.280185e-01 -3.580709e-01
##  [17767,]  8.901458e-01 -1.349760e-01 -2.158746e+00  8.462293e-03
##  [17768,]  6.329570e-01 -7.966822e-02 -2.338201e-01 -5.637436e-01
##  [17769,]  1.189872e+00 -5.904362e-02  1.159970e+00 -6.969372e-01
##  [17770,] -1.471282e+00  1.099340e+00  1.222937e-01 -1.007780e+00
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##  [17776,] -4.250960e-01  5.463594e-01  8.831818e-01  1.315465e+00
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##  [17781,]  3.007104e-01 -5.171635e-01 -2.774809e-01 -2.096959e-01
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##  [17786,] -8.856571e-01  2.078340e+00  1.266869e+00 -1.119810e+00
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##  [17788,]  2.086139e-01 -1.216288e+00 -1.475555e-01 -5.003583e-01
##  [17789,] -1.602070e+00  1.987601e+00 -1.813080e+00 -7.826162e-01
##  [17790,]  5.816800e-01 -7.407020e-01  1.052308e+00 -6.575431e-01
##  [17791,] -3.653099e+00  3.332307e-01  1.367489e+00 -9.306018e-01
##  [17792,] -1.528684e+00 -2.050818e-01 -1.759719e+00 -5.473298e-01
##  [17793,]  8.763107e-01  2.174286e-02 -1.433601e+00 -3.283797e-01
##  [17794,] -8.458527e-02  1.530135e+00 -3.725597e-01  1.125871e+00
##  [17795,]  9.444168e-01 -2.246593e-01 -2.604594e-01 -2.964684e-01
##  [17796,] -7.877505e-01  5.667029e-01 -1.304734e-01 -7.440983e-01
##  [17797,]  4.262740e-01 -7.905675e-02 -2.983672e-01  1.437021e-01
##  [17798,]  7.018355e-01 -1.585405e+00  3.145632e-02  1.134622e+00
##  [17799,] -7.312463e-01  2.839316e-01 -2.086297e+00 -1.895090e-01
##  [17800,]  7.061838e-02  8.695644e-01 -1.156638e+00 -2.318179e-01
##  [17801,]  6.072593e-01  7.289127e-01 -5.060831e-01 -6.841640e-01
##  [17802,] -9.016398e-01 -7.258691e-01  5.549632e-01  9.038665e-01
##  [17803,] -2.718808e-02 -3.307875e-01  1.110314e+00 -7.996564e-01
##  [17804,] -6.643990e-01  2.294432e+00  9.777145e-01 -2.810354e-01
##  [17805,]  8.923351e-01  9.904957e-01 -3.866818e-01  2.477492e-01
##  [17806,] -6.180293e-01 -3.675960e-01 -5.918138e-01  3.354116e-01
##  [17807,]  6.781923e-01  1.413492e+00  6.994432e-01 -7.023259e-01
##  [17808,]  1.137768e-01  1.520854e+00  9.478861e-01 -3.965128e-01
##  [17809,]  7.944200e-02 -8.806667e-01 -1.943468e+00 -2.045917e-01
##  [17810,]  1.484952e+00  1.052704e+00  9.309426e-01 -4.330105e-01
##  [17811,]  4.567941e-01  1.591743e+00 -7.063232e-01  6.020907e-01
##  [17812,]  1.510459e+00  2.643248e+00  8.871948e-01 -2.522570e-01
##  [17813,] -8.454665e-01  4.192161e-01 -1.301892e-01 -1.366760e-01
##  [17814,] -1.337495e-01  2.548690e-01  1.888081e-01 -8.904907e-01
##  [17815,] -1.339532e+00  4.521877e-01  6.963377e-01 -3.027538e-01
##  [17816,] -7.460579e-01  3.892078e-01  1.252787e+00  1.178106e+00
##  [17817,] -5.785749e-01  9.672272e-01  9.843344e-01 -4.968206e-01
##  [17818,] -1.341447e+00  4.680043e-01  1.094916e+00 -4.896118e-01
##  [17819,]  5.683065e-02 -1.926000e-02 -4.908346e-01 -4.985751e-01
##  [17820,]  7.731302e-01  6.024087e-01  2.306495e-01 -2.980306e-02
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## [17821,]  1.419983e+00  7.644316e-01  3.533471e-01 -1.031990e-01
## [17822,] -2.625764e+00 -6.299512e-01  4.717156e-01 -1.811771e-01
## [17823,] -7.319470e-01 -6.113756e-01 -1.146713e+00 -3.163036e-01
## [17824,]  5.173431e-03 -9.548581e-01 -2.347229e-01  1.503937e+00
## [17825,]  7.050187e-01 -4.251717e-02 -4.431290e-01 -3.103771e-01
## [17826,]  2.919902e-01  6.673044e-02 -1.826227e+00  8.942957e-02
## [17827,]  7.698214e-01 -3.341224e-01  1.090266e+00 -3.827915e-01
## [17828,]  7.667227e-01  5.393922e-01 -1.816475e+00 -5.739637e-01
## [17829,]  5.377363e-02 -4.806561e-01 -2.004532e+00 -2.047384e-01
## [17830,] -1.289725e+00  2.774542e-01 -1.778555e-02 -8.529647e-01
## [17831,]  5.523893e-01 -1.343516e+00 -3.189017e-01 -8.289791e-01
## [17832,]  8.547899e-01  7.651667e-01 -2.010508e+00 -3.162544e-01
## [17833,] -7.649498e-02 -9.454771e-01  1.260291e+00 -7.476991e-01
## [17834,]  1.817139e-02 -1.508746e+00  1.411404e-02  1.205379e+00
## [17835,] -1.877002e+00  1.371506e+00 -1.508652e+00 -1.206739e+00
## [17836,] -2.048472e+00 -2.693624e-01  9.661660e-01 -2.163828e-01
## [17837,]  6.737616e-02 -1.333926e+00 -1.145732e+00 -6.254695e-01
## [17838,] -8.754849e-01  1.072836e+00  1.474278e+00 -1.245318e+00
## [17839,]  3.332903e-01  6.235322e-01  1.618641e+00 -1.626233e+00
## [17840,] -5.604636e-01  1.035693e+00 -1.854386e+00 -1.960370e-01
## [17841,] -5.763024e-01  1.670333e+00  9.067613e-01 -1.279683e-01
## [17842,]  4.179179e-02 -6.442006e-01 -5.131792e-01 -6.682734e-01
## [17843,] -9.100946e-02  4.588251e-01  1.185045e+00 -7.376301e-01
## [17844,] -1.870255e+00  2.515920e-01 -6.901387e-01 -2.409510e-01
## [17845,] -7.542798e-01  2.326863e+00  7.828701e-01 -8.079501e-01
## [17846,] -6.893384e-01 -9.991120e-01  1.324075e+00 -8.437834e-01
## [17847,]  8.164225e-01  3.592579e-01 -5.397346e-01 -4.531476e-01
## [17848,]  1.349388e+00 -4.489669e-01  1.189205e+00  1.253935e+00
## [17849,] -8.967483e-01 -1.145350e+00 -1.706494e+00 -4.835572e-01
## [17850,]  4.625446e-01  9.984022e-01  1.034496e+00 -6.926374e-01
## [17851,]  7.574621e-01 -3.217218e-01  1.005705e+00 -6.226846e-01
## [17852,]  3.703840e-01 -4.048121e-01 -1.907501e+00 -4.381907e-02
## [17853,] -1.556056e+00  6.600761e-01 -1.680656e-01 -7.348489e-01
## [17854,]  1.435958e-01 -4.582708e-01  1.552854e-01  1.536997e+00
## [17855,] -6.457275e-01  9.396851e-01  6.121877e-01 -3.486782e-01
## [17856,] -1.346439e+00 -9.683906e-01 -3.838158e-01 -4.317773e-01
## [17857,] -6.302201e-01  1.891138e+00  1.746493e-01  1.181128e+00
## [17858,] -1.324354e+00  6.109691e-01 -5.223243e-01 -4.834801e-01
## [17859,] -6.122122e-01 -3.578701e-01 -4.444226e-01 -1.513757e-01
## [17860,]  1.602799e-01  9.220952e-01 -7.290206e-01 -3.579744e-01
## [17861,] -1.489682e+00  1.090412e+00 -1.047874e+00  1.049549e+00
## [17862,] -5.419828e-01 -5.663484e-01  9.521039e-01  1.327899e+00
## [17863,] -1.346657e-02 -9.819248e-01  2.366351e-01 -6.706269e-01
## [17864,] -2.409046e+00 -1.585443e-01 -5.336450e-01  2.025339e+00
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## [17867,]  6.952024e-01 -2.230679e-01 -3.933105e-01  1.247952e+00
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## [17870,] -3.097490e+00 -1.123929e+00  9.349207e-01 -2.355999e-01
## [17871,] -2.888500e+00  1.587393e+00 -3.031033e-01 -6.020950e-01
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## [17875,] -6.645520e-01  6.767339e-02 -2.102109e+00 -6.835418e-02
## [17876,] -3.984150e-03 -3.606815e-02 -9.498935e-01 -2.527317e-01
## [17877,] -2.054686e+00 -2.806345e-01 -1.187502e+00 -2.940570e-01
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## [17881,]  1.380368e+00  1.227103e+00  8.859264e-01 -1.327602e-01
## [17882,]  6.802332e-01  1.171437e-01  4.074508e-02 -3.156259e-01
## [17883,]  8.497655e-01 -4.269899e-01  5.719672e-01 -5.204361e-01
## [17884,]  6.030911e-01 -1.651292e-01 -7.019972e-02  1.270884e+00
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## [17889,] -2.314417e+00  1.782109e+00  1.177017e+00 -6.651589e-01
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## [17894,]  2.436208e-01 -9.219801e-01 -1.121677e+00 -1.227704e-01
## [17895,]  7.499932e-01 -2.285325e-01 -6.539414e-01 -2.286260e-01
## [17896,] -9.640546e-01  2.536042e+00 -1.276731e+00 -1.370494e+00
## [17897,]  7.305430e-01 -2.254054e-01 -3.781466e-01  1.558132e+00
## [17898,] -2.372689e+00  5.577644e-01 -1.373861e+00 -1.438426e+00
## [17899,] -6.929359e-02  1.394278e+00  5.236917e-01 -8.861081e-01
## [17900,]  2.734623e-01 -7.424245e-01  9.565388e-01 -2.418394e-01
## [17901,]  1.337202e+00 -6.757450e-01  1.199022e+00 -6.442112e-01
## [17902,] -6.312455e-01  1.051061e+00 -7.689248e-01  1.032636e+00
## [17903,]  5.511998e-01 -2.630136e-01  1.779377e-02 -9.155977e-01
## [17904,]  3.125586e-01 -9.158878e-01  9.735607e-01 -1.834153e-01
## [17905,] -7.172715e-01  1.351821e+00 -1.901821e+00 -6.860447e-01
## [17906,] -5.785094e-01 -1.575128e+00  1.133816e+00  1.611446e+00
## [17907,]  3.570605e-01 -2.207929e-01 -7.032679e-01  1.778635e+00
## [17908,]  1.225138e+00 -5.403983e-01  1.226119e+00 -6.855748e-01
## [17909,]  9.403614e-01  1.325511e-01  9.297418e-01  1.718338e+00
## [17910,]  1.605236e+00  2.626374e-01  5.959129e-01 -2.704301e-01
## [17911,] -3.578297e-01  5.413394e-01  1.417179e+00 -1.248755e+00
## [17912,]  9.170665e-01 -1.977191e-01  5.803724e-01 -2.176566e-01
## [17913,] -7.061099e-01  2.112249e-01 -4.190594e-01 -6.291771e-01
## [17914,]  6.479288e-01  6.148601e-01  9.818435e-01 -4.265202e-01
## [17915,] -4.980769e-01  6.209092e-01 -3.599932e-01 -2.863505e-01
## [17916,]  6.779168e-01 -1.979552e-01  5.353877e-01  1.472291e+00
## [17917,]  5.544592e-01 -6.932772e-01 -1.090778e-01 -7.169676e-01
## [17918,] -6.465508e-01 -8.984112e-01 -1.536479e+00 -8.378907e-01
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## [17919,] -1.818400e+00  4.720724e-01  6.457030e-02  1.748819e+00
## [17920,]  5.299798e-01 -2.165934e-01 -7.036455e-02  3.923341e-01
## [17921,]  1.451270e+00  3.098116e-01  1.009523e+00  1.572414e+00
## [17922,] -1.362444e+00 -1.633406e-01  1.139413e+00  1.440937e+00
## [17923,] -6.017775e-01  4.729462e-01 -3.962130e-01 -2.916883e-01
## [17924,]  5.000368e-01  1.547619e-01  2.557726e-02 -8.861103e-01
## [17925,]  8.345698e-01  3.883091e-01 -4.432139e-01  1.884140e+00
## [17926,]  3.883458e-01 -6.584007e-01  2.671757e-01  2.009960e+00
## [17927,]  2.491248e-01 -1.085340e-01 -5.041400e-01 -7.004051e-04
## [17928,]  8.371393e-01 -1.014516e+00  9.125844e-01  1.214250e+00
## [17929,] -1.174029e+00 -1.329337e+00  9.145484e-01 -2.291121e-02
## [17930,] -7.677514e-02  8.588233e-01 -3.599470e-01 -3.363936e-01
## [17931,] -5.795473e-01  1.280739e+00  9.005815e-01 -3.572136e-01
## [17932,] -3.526591e+00 -1.515174e-01  7.026634e-02 -7.323562e-01
## [17933,]  1.524130e+00  5.691260e-03  8.558921e-01 -1.066463e-01
## [17934,]  6.574418e-01 -1.083779e+00 -4.124214e-02  1.198512e+00
## [17935,] -8.101065e-01  1.054745e+00 -1.647694e+00 -8.256765e-01
## [17936,]  8.116344e-01 -1.910869e-01  9.704922e-01 -1.586912e-01
## [17937,]  1.182142e+00  1.137009e+00 -5.378681e-01 -5.277881e-01
## [17938,]  1.010307e+00  7.479995e-01 -4.842081e-01 -1.789452e-02
## [17939,] -8.135281e-01  1.748616e+00 -6.793688e-01 -4.338786e-01
## [17940,] -5.955040e-01  2.011666e+00 -7.233386e-01 -1.744007e-01
## [17941,]  5.334240e-02 -3.826839e-01  1.085813e+00 -4.796695e-01
## [17942,]  9.291544e-01 -6.514527e-01  1.032142e+00 -3.401508e-01
## [17943,] -4.508063e-01 -2.622309e-01 -1.405700e+00 -2.507831e-01
## [17944,]  7.316546e-01  5.288358e-02  7.281431e-01 -4.373404e-01
## [17945,] -8.911671e-01  2.363168e-01  1.485945e+00 -1.208299e+00
## [17946,] -2.690740e+00 -8.526239e-01 -1.008084e+00 -5.139037e-01
## [17947,]  9.484161e-02 -1.265745e+00  1.254490e+00 -6.105271e-01
## [17948,] -9.290936e-02  8.868916e-01  1.075566e+00 -6.719901e-01
## [17949,]  6.779822e-01  4.715413e-01 -1.032855e+00  1.094844e+00
## [17950,] -2.557490e+00  2.286824e-01 -4.319212e-01 -3.258639e-01
## [17951,] -8.230905e-01 -3.112550e-01 -1.378084e+00 -1.241482e+00
## [17952,]  3.928362e-01  1.404844e+00 -1.543058e+00 -1.074677e+00
## [17953,]  8.192067e-01 -2.220983e-01 -1.940866e+00 -5.720199e-02
## [17954,]  8.183552e-01 -8.861519e-01  5.768473e-01  1.169870e+00
## [17955,]  9.052163e-01  7.302972e-01  3.978928e-01 -2.664479e-01
## [17956,] -7.976319e-01  5.706063e-01 -8.191872e-01  1.334986e+00
## [17957,]  1.286366e-01 -4.153395e-01  1.105454e+00 -5.554090e-01
## [17958,]  3.758633e-02 -3.664070e-01 -1.404561e+00  1.617248e+00
## [17959,]  9.234304e-01  8.103377e-01 -1.226097e+00  6.205338e-02
## [17960,] -4.027973e-02  9.026821e-01 -1.646521e+00 -2.807678e-01
## [17961,]  7.013243e-01 -4.366559e-01  4.955794e-01  9.333663e-01
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## [17965,]  6.217814e-01  2.803537e-01 -1.753914e+00 -4.749347e-01
## [17966,] -1.372307e+00  1.297522e+00  1.097113e+00 -6.699504e-01
## [17967,]  3.640147e-01 -5.362527e-01  8.554496e-01 -1.323479e-02
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## [17972,]  1.503241e+00 -8.292851e-02 -2.300296e-01 -5.558846e-01
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## [17977,]  6.488505e-01  4.892560e-01 -1.507641e+00  8.469813e-01
## [17978,] -1.436361e-01  5.404976e-01  4.475298e-01 -1.045323e+00
## [17979,] -1.661564e+00  1.179017e+00 -1.193045e+00 -1.220146e+00
## [17980,]  8.141452e-01 -5.206287e-02  5.141227e-01 -2.864540e-02
## [17981,] -6.529598e-01  9.739500e-02 -1.688107e+00  1.375167e+00
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## [17985,] -6.145174e-02 -1.179715e+00 -3.336070e-01 -5.303165e-01
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## [17989,] -1.085987e+00  2.959219e-01 -8.702426e-01 -1.044361e+00
## [17990,]  8.499593e-02 -6.678452e-01 -1.431899e+00 -5.094285e-01
## [17991,] -4.322195e-01  8.028448e-01 -1.361536e+00 -1.284516e-01
## [17992,]  4.141090e-02 -7.600310e-02 -3.836519e-01  1.373145e+00
## [17993,] -1.865038e+00 -1.190364e+00  7.305348e-02  1.863002e+00
## [17994,]  2.931807e-01 -5.838596e-01 -3.894276e-01 -2.033151e-01
## [17995,] -1.482076e+00  1.181231e+00 -1.858031e+00 -5.890813e-01
## [17996,]  9.568236e-01  1.381933e-01  3.727767e-01 -1.989529e-01
## [17997,] -1.905159e-01 -1.027508e+00  9.859174e-02 -1.054434e+00
## [17998,]  2.257267e-01  2.812725e-01 -5.055573e-01 -2.867043e-01
## [17999,] -6.965203e-01  3.669898e-01 -1.570665e+00  1.513892e+00
## [18000,] -2.412765e+00 -4.326780e-01 -7.444796e-01 -1.075717e+00
## [18001,]  7.688214e-01 -5.238700e-02 -1.793268e+00 -2.852738e-01
## [18002,]  5.693532e-01  7.304054e-01  1.095292e+00 -5.231221e-01
## [18003,] -1.702760e+00 -1.148825e+00  5.960957e-03 -7.504656e-01
## [18004,]  5.550282e-01  5.357244e-01  7.390242e-01 -5.749290e-01
## [18005,] -2.486837e+00 -7.043919e-01  1.009802e+00 -2.221841e-01
## [18006,] -7.258128e-01 -6.076213e-02 -6.232538e-01 -6.964849e-01
## [18007,]  2.117584e-01 -1.014673e+00 -1.234654e+00 -5.016777e-01
## [18008,] -1.149046e-01 -7.615345e-01 -1.162271e+00 -6.507433e-01
## [18009,] -9.691514e-01 -1.167980e+00 -1.418048e+00  1.192672e+00
## [18010,]  4.069922e-01  5.716826e-01  1.932994e-02  3.683417e-01
## [18011,] -9.251966e-01  1.127563e+00  6.110073e-01  8.351646e-01
## [18012,] -3.826798e-01 -5.895800e-01 -1.266091e+00  1.239615e-01
## [18013,]  1.474324e-01 -1.208029e+00 -1.719054e+00 -5.488488e-01
## [18014,] -3.199445e+00 -3.364647e-01 -1.718997e+00 -5.953388e-01
## [18015,]  9.792214e-01  4.840341e-01 -6.091908e-01  1.467825e-01
## [18016,] -3.766539e-01 -5.096270e-01  4.915657e-01 -3.544146e-02
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## [18017,]  5.503393e-01  4.075625e-01  1.202268e+00 -7.108848e-01
## [18018,]  6.271485e-02  1.198682e-01 -5.457449e-01 -4.576691e-01
## [18019,] -3.963753e-01  1.467382e+00  8.874830e-01 -2.827080e-01
## [18020,] -4.801254e-01 -9.084083e-01 -2.298065e-01  1.489984e+00
## [18021,] -4.676386e-01 -4.334992e-01 -6.272145e-01  1.745990e+00
## [18022,] -2.193746e+00  1.086473e+00 -2.842831e-01  9.080246e-01
## [18023,] -5.993312e-01  1.373234e+00  1.051569e+00  1.322460e+00
## [18024,] -2.601365e-01 -5.739360e-01  8.183901e-01  2.063368e+00
## [18025,]  4.220465e-01 -7.252066e-01 -2.859297e-01 -1.052308e+00
## [18026,]  4.820538e-02  4.507888e-01  8.422686e-01 -4.112359e-01
## [18027,] -5.849724e-02  3.446839e-01  1.242205e+00 -9.166320e-01
## [18028,] -8.574836e-01  1.188965e+00  1.233053e+00 -9.843541e-01
## [18029,]  1.231049e-01 -1.202241e+00 -1.656508e-02  1.140728e+00
## [18030,]  9.775624e-01  4.627555e-01  1.663785e-01 -1.199117e+00
## [18031,]  5.975778e-01 -6.355050e-01 -2.396870e-03 -8.442145e-01
## [18032,]  5.022054e-02 -5.113528e-01  5.926931e-02 -5.384720e-01
## [18033,]  7.594502e-01 -5.479726e-01  1.182641e+00  1.403219e+00
## [18034,]  2.274429e-02 -1.113888e+00 -8.059597e-02 -6.675713e-01
## [18035,]  3.776637e-01 -1.455353e-01 -1.893317e+00  1.767477e-01
## [18036,]  4.059985e-01  8.900884e-01  1.400391e+00 -1.297857e+00
## [18037,] -2.307646e-01  7.457609e-01 -1.559485e-02 -1.144100e+00
## [18038,]  7.476827e-01 -4.812570e-01 -6.289840e-02 -2.570702e-01
## [18039,] -2.197597e+00 -1.500074e-01 -2.186404e-02 -6.252944e-01
## [18040,] -2.874291e+00 -8.988706e-01 -1.260600e-02 -7.483811e-01
## [18041,] -1.600419e+00  4.867746e-01 -1.270056e+00 -6.084719e-01
## [18042,]  4.018638e-01 -4.654308e-01  7.409748e-03  1.881975e+00
## [18043,] -4.034024e-02 -3.440505e-01 -2.725996e-01 -3.824229e-01
## [18044,]  5.527058e-01  1.537569e-01  1.353935e+00  8.081536e-01
## [18045,] -4.126508e-01 -1.005153e+00 -4.189949e-01  1.807026e+00
## [18046,]  1.022753e-01 -1.204164e-01 -1.226769e+00 -6.551665e-01
## [18047,]  1.215350e+00 -4.190164e-01 -1.156837e-01 -7.092814e-01
## [18048,] -6.847504e-01  2.558429e-01 -2.135913e-01  1.111874e+00
## [18049,] -3.232764e-01  1.847444e-01 -8.110224e-01  3.522498e-01
## [18050,] -4.351476e-01  4.128423e-01  1.617483e+00  3.738352e-01
## [18051,]  1.220654e-01 -1.438165e-01 -7.923324e-01  1.274219e-02
## [18052,]  6.378656e-01  1.287666e-01  1.251255e+00  1.188869e+00
## [18053,]  8.243356e-02 -3.826494e-01  1.037295e+00  1.538349e+00
## [18054,]  8.587342e-01 -2.736535e-02 -6.376335e-01 -1.306569e-01
## [18055,]  1.052447e-01 -1.225112e+00 -1.323213e+00 -6.374882e-01
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## [18059,]  8.885082e-01  3.224276e-01  9.337406e-01 -3.151237e-01
## [18060,]  8.705456e-01 -5.107534e-01 -4.243776e-01 -1.499784e-01
## [18061,]  6.383693e-01 -2.211035e-01 -6.419158e-02  1.231503e+00
## [18062,]  8.010175e-01 -8.524787e-01  1.003644e+00  1.704632e+00
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## [18066,]  1.691032e-01 -1.108826e+00  7.565587e-02 -4.429474e-01
## [18067,] -4.542339e-01  5.373955e-01 -1.395712e-01 -5.743063e-01
## [18068,] -1.339611e+00  4.033533e-01 -2.205319e-01 -5.131520e-01
## [18069,] -5.633342e-01 -3.806294e-01 -1.346811e+00 -5.686842e-01
## [18070,] -2.014892e+00 -1.453314e-02 -1.872647e+00 -1.474963e-02
## [18071,] -3.073492e-01  4.663295e-01 -2.343284e+00  3.903292e-01
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## [18076,] -1.449934e+00 -5.761571e-01  6.635292e-03  1.152326e+00
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## [18078,]  2.988164e-01 -1.004488e+00 -1.640481e+00 -1.292886e-01
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## [18084,] -1.675223e-01 -1.947844e-01 -1.283051e+00 -1.091567e+00
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## [18086,]  3.683365e-01  5.754658e-02 -2.311692e+00  2.748154e-01
## [18087,]  8.112354e-01  6.664745e-01  7.341208e-01 -1.451060e-02
## [18088,]  4.811262e-01 -1.508656e+00  3.506463e-01  6.833286e-01
## [18089,]  6.628291e-01 -1.410859e+00  1.289549e+00  1.291973e+00
## [18090,]  2.096862e-01  2.091493e+00  9.858936e-01 -3.586293e-01
## [18091,]  8.191145e-01 -8.344258e-01 -2.812690e-01 -3.248174e-01
## [18092,] -1.379719e-01 -4.942884e-01 -1.508809e+00 -1.043158e+00
## [18093,]  8.268557e-01 -1.898171e-01  1.303518e-01  1.684173e+00
## [18094,] -5.495042e-01 -1.193887e+00  1.069477e+00 -1.355882e-01
## [18095,] -2.026449e+00 -1.720080e-01  9.266317e-01 -6.266980e-02
## [18096,] -1.328035e+00 -1.518282e+00  1.207840e+00 -4.425339e-01
## [18097,] -7.861291e-02  2.373433e+00 -2.248697e-01 -5.506999e-01
## [18098,] -5.498761e-01 -4.942890e-01 -2.384611e-01 -4.685725e-01
## [18099,] -1.602342e-01 -3.266894e-01  7.257373e-01 -1.038561e+00
## [18100,]  6.338832e-01  9.920206e-02 -1.773057e+00 -5.247167e-01
## [18101,] -1.948763e+00 -1.706372e-01 -7.250384e-01  1.185278e-01
## [18102,]  6.365999e-01 -7.703308e-01  5.730554e-01  1.269112e+00
## [18103,] -3.366337e+00 -1.861735e-01 -1.353134e+00 -9.740002e-01
## [18104,]  1.162196e+00 -1.165973e+00 -1.277342e-01 -9.309792e-01
## [18105,] -9.040573e-01  7.773633e-01 -1.584777e-01  3.853738e-01
## [18106,] -2.929997e+00 -7.026929e-02  1.174717e-01  3.225432e-01
## [18107,]  2.814177e-01 -2.525165e-01 -1.714332e+00  1.578683e+00
## [18108,] -1.930076e+00  5.344302e-01 -6.093338e-01 -3.533303e-01
## [18109,] -2.020367e-01 -4.287632e-01  1.462263e+00  8.261209e-01
## [18110,]  7.628581e-01  7.723346e-01  2.519466e-01 -4.517814e-02
## [18111,]  7.419441e-02 -1.062139e+00 -1.464683e-01 -5.394629e-01
## [18112,]  7.897153e-02 -1.067873e+00 -1.359157e+00 -5.757589e-01
## [18113,]  1.413592e+00 -3.226947e-01  1.004749e+00 -2.928372e-01
## [18114,]  8.243873e-02 -3.759123e-02 -3.435466e-02 -4.079231e-01
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## [18115,]  6.444254e-01  1.125412e+00 -5.801722e-01 -4.536590e-01
## [18116,]  7.384901e-01 -2.219754e-01 -3.816340e-01 -3.145171e-01
## [18117,] -3.387373e-02 -3.306393e-01 -1.091121e+00 -8.606885e-01
## [18118,] -1.244737e+00  3.000774e-01 -1.828238e+00 -5.540095e-01
## [18119,]  1.269428e+00  2.166108e-01  1.020379e+00 -7.175525e-01
## [18120,] -5.489707e-01 -9.213891e-01 -1.575428e+00  1.466563e+00
## [18121,] -2.614584e+00  1.866791e-01  8.216182e-01 -2.108973e-02
## [18122,]  8.590408e-01 -3.237515e-01  9.381397e-01 -1.531052e-01
## [18123,]  6.991643e-03  7.665055e-01  1.110343e+00 -4.962596e-01
## [18124,]  1.844612e-01 -3.480529e-01 -1.550062e-01 -4.691926e-01
## [18125,] -1.713585e+00  6.576098e-02 -5.732554e-01  1.473811e-01
## [18126,] -4.749571e-01  1.760511e-01  9.970763e-01 -3.546399e-01
## [18127,]  6.496506e-01 -6.068326e-01 -7.397938e-01 -5.038407e-01
## [18128,]  2.936863e-01 -6.177988e-01  3.892188e-01  1.591374e+00
## [18129,] -3.046533e-01  1.638561e-01  1.051782e+00 -1.177737e+00
## [18130,]  6.496013e-01  2.123923e-01 -1.510915e+00 -5.325357e-01
## [18131,]  2.698080e-03  1.891007e+00  1.030707e+00 -6.100398e-01
## [18132,] -6.095242e-01  2.328506e-01 -2.135044e-01 -6.391568e-01
## [18133,] -1.002227e+00  3.066638e-01  1.472496e+00 -1.263405e+00
## [18134,]  1.500660e-01 -3.646647e-01 -1.853284e+00 -4.355281e-01
## [18135,] -2.255921e+00 -6.573365e-01  1.301209e+00 -6.807943e-01
## [18136,] -2.135369e+00  3.575108e-01 -3.651824e-01 -2.694612e-01
## [18137,]  2.990693e-01  4.368131e-02 -1.414630e-01 -1.527853e-01
## [18138,] -9.168487e-01  2.190045e+00  1.373899e-01  9.601800e-01
## [18139,]  2.942775e-01 -4.380510e-01 -1.100596e+00 -2.100904e-01
## [18140,]  1.804549e-01  3.090142e-01 -1.661658e+00 -2.596983e-01
## [18141,]  9.761731e-01  4.961814e-01 -3.179133e-01 -7.215269e-02
## [18142,] -4.490423e-01 -8.662694e-01 -5.248717e-01  1.611708e-01
## [18143,] -1.666635e-01 -8.643601e-01  2.048653e-01 -1.019711e+00
## [18144,]  8.669633e-01 -6.407947e-01  1.007270e+00  1.669586e+00
## [18145,] -5.399217e-01 -1.479447e+00 -1.570070e+00  1.195971e+00
## [18146,]  1.472008e+00  1.602145e+00 -3.128724e-01 -4.662682e-01
## [18147,]  1.108338e+00 -1.046465e+00 -2.158655e-01 -1.064635e+00
## [18148,]  7.823588e-01 -4.963767e-01 -1.617808e-01 -4.013551e-01
## [18149,]  6.369966e-01 -8.882505e-01 -1.704371e+00  1.240103e+00
## [18150,]  2.306311e-01 -8.737340e-01 -1.925487e-01  1.383869e+00
## [18151,]  7.686725e-01 -1.697802e-01 -1.967578e+00 -2.107084e-01
## [18152,] -5.833823e-01  1.157019e-01 -5.102653e-01 -5.162482e-01
## [18153,] -9.443783e-02 -4.728819e-01  9.292530e-02  1.044339e+00
## [18154,]  1.448483e-01 -4.868910e-01  9.172778e-01 -1.585747e-01
## [18155,] -6.414076e-01 -1.425225e+00 -9.174991e-01 -6.352064e-01
## [18156,]  8.141720e-01  2.621679e-01 -7.580123e-01 -1.197351e-01
## [18157,] -3.183029e-01 -7.190686e-01 -1.364453e+00  2.967166e-02
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## [18163,] -5.308232e-01 -2.531808e-01  1.060430e+00  1.468962e+00
## [18164,] -8.221380e-01  1.931758e+00  9.044741e-01 -1.012761e+00
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## [18167,]  6.412026e-01  4.779523e-02 -2.061431e-01 -6.914234e-01
## [18168,]  8.277651e-01 -3.762211e-01  1.464632e-01 -6.124943e-01
## [18169,]  3.013331e-01  8.467263e-02  8.131547e-01  2.081631e+00
## [18170,]  7.040886e-01  1.104061e+00 -1.812380e+00 -3.474466e-01
## [18171,]  6.007803e-02 -1.206613e+00 -9.303142e-02 -5.964435e-01
## [18172,]  7.069332e-01 -1.158264e+00 -2.110218e-01 -4.147958e-01
## [18173,] -7.065874e-02  1.246664e-01 -2.091290e-01  1.437102e+00
## [18174,] -6.035790e-01 -3.567942e-01 -9.275147e-01 -7.913263e-01
## [18175,]  7.673537e-01 -1.832509e-02  5.641687e-01  1.718448e+00
## [18176,]  3.659555e-01  1.464018e+00 -4.239839e-01 -9.425453e-01
## [18177,] -2.225588e+00  3.091506e-01  1.405376e+00  8.015295e-01
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## [18180,] -1.227108e-01  1.163893e-01  1.717918e-01 -5.193794e-01
## [18181,]  7.931762e-01 -3.083369e-01 -1.875534e+00 -3.836869e-01
## [18182,] -8.799652e-01  8.459129e-01 -2.353662e-01 -8.973829e-01
## [18183,] -1.494991e-01  1.463152e-01  9.417011e-01 -9.244831e-01
## [18184,]  3.161805e-01  3.799205e-01 -1.741818e+00 -8.455000e-02
## [18185,] -2.486757e+00 -1.547174e-01  4.294668e-01 -1.803745e-01
## [18186,] -7.008562e-01 -2.917260e-01 -3.200941e-01 -3.646438e-01
## [18187,]  6.255014e-01 -1.363566e+00 -1.626987e-01 -7.635367e-01
## [18188,] -8.034060e-01 -6.692982e-01  9.191871e-01 -4.329575e-01
## [18189,] -2.242307e+00  1.857660e-01 -3.129366e-01  1.222412e+00
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## [18191,]  1.062882e+00  3.792470e-01 -5.735828e-01  9.020612e-02
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## [18193,]  6.184658e-01 -2.475620e-01  1.160086e+00 -5.200011e-01
## [18194,]  3.238378e-02 -3.582069e-02  9.703709e-01 -3.658796e-01
## [18195,]  1.536063e+00 -4.843510e-01  1.168990e+00  1.327113e+00
## [18196,] -1.341659e+00  6.617024e-01 -1.733983e+00 -2.342002e-01
## [18197,] -7.148411e-01 -6.402295e-02  2.456745e-01 -6.053070e-01
## [18198,]  9.258388e-01 -1.444955e-01  9.211313e-01  1.851615e+00
## [18199,]  2.325104e-01 -3.957824e-02 -1.657180e+00 -1.840552e-01
## [18200,] -1.829873e-01  8.232963e-01  1.569201e-02 -1.098521e+00
## [18201,] -1.575298e+00  6.622188e-01 -1.687975e+00 -8.697736e-01
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## [18203,] -5.242864e-01 -7.673538e-01  2.984904e-01  1.360565e-02
## [18204,] -2.277274e+00  1.857902e+00 -1.925927e+00  1.410198e+00
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## [18206,]  8.460624e-01 -2.694292e-01 -9.813315e-01 -9.759119e-02
## [18207,]  1.538740e-01 -3.399780e-01 -6.934809e-01 -1.703077e-01
## [18208,]  2.137073e-01 -1.094258e+00  1.128826e+00 -4.453298e-01
## [18209,]  8.442230e-01 -1.241760e-01 -2.048549e+00 -1.197715e-01
## [18210,]  2.299562e-01 -5.656916e-01  9.726280e-01 -1.950733e-01
## [18211,]  1.630922e-01 -2.914515e-01  1.178021e+00 -5.040492e-01
## [18212,] -1.064751e-01 -9.052300e-01 -1.348301e+00 -6.465462e-01
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##  [18213,] -2.047400e+00 -4.284182e-01  1.004371e+00  1.704563e+00
##  [18214,]  3.015251e-01 -2.793135e-01 -6.923811e-01  1.889166e+00
##  [18215,]  9.639201e-01 -6.148368e-01  2.761218e-01 -2.728432e-01
##  [18216,]  1.812795e-01  7.689682e-01 -6.093833e-02 -7.032140e-01
##  [18217,]  2.511295e-01 -2.421749e-01 -1.076559e+00 -3.564475e-01
##  [18218,] -1.639932e-01  3.458346e-02  3.415996e-01 -1.108987e+00
##  [18219,]  3.174042e-01  4.850374e-01  5.679178e-01  3.739280e-01
##  [18220,] -5.385519e-01  1.369439e+00  9.539846e-01 -2.888131e-01
##  [18221,]  2.290873e-01 -3.935900e-01  9.643670e-01 -9.196560e-02
##  [18222,] -6.968916e-01 -1.356634e+00 -1.603443e+00 -7.677870e-01
##  [18223,] -6.631711e-01 -1.299354e+00  4.365846e-01 -4.138956e-01
##  [18224,]  1.085985e+00 -1.363256e+00  1.474882e+00 -9.989240e-01
##  [18225,]  7.953098e-01 -4.862447e-02 -1.873895e+00 -1.151468e-01
##  [18226,]  9.389772e-01  1.313032e-02  4.512717e-01  6.490665e-02
##  [18227,] -6.125544e-01 -1.696981e-01  1.297293e+00 -8.452057e-01
##  [18228,]  4.238727e-02 -1.296496e+00 -2.199600e-01  1.139829e+00
##  [18229,] -1.163106e-01 -1.236167e+00  1.525046e-01 -1.121295e+00
##  [18230,] -4.772227e-01 -6.151503e-01 -1.763430e+00  1.449763e+00
##  [18231,]  1.137321e-01 -1.371977e+00 -8.521443e-02  1.348741e+00
##  [18232,]  3.753541e-01  1.973149e-01 -3.848416e-01  3.084973e-01
##  [18233,]  9.966518e-01  7.597235e-01 -1.226233e+00 -1.135457e+00
##  [18234,] -1.990558e+00 -1.552395e+00 -9.445238e-02  1.357707e+00
##  [18235,]  3.434133e-01 -3.042067e-01  1.344705e-02  1.776487e+00
##  [18236,]  7.940044e-01  2.220375e-01 -4.168915e-01 -5.806519e-02
##  [18237,]  8.028087e-01 -2.828658e-01 -1.622132e+00 -2.278629e-01
##  [18238,]  7.347525e-01 -1.337039e-01  9.598257e-01 -2.126700e-01
##  [18239,] -4.598546e-02  1.458633e+00  1.906649e-01 -7.787012e-01
##  [18240,] -1.717173e+00 -6.713490e-01  1.552006e+00  8.296645e-01
##  [18241,] -1.467180e+00 -2.078008e+00  1.252432e+00  1.457415e+00
##  [18242,]  1.251578e+00  9.163852e-01  2.469903e-01 -6.996875e-01
##  [18243,]  2.247027e-01 -3.950579e-01  1.202330e-01  1.431623e+00
##  [18244,]  4.473909e-02  1.796148e+00  1.013067e+00 -5.353079e-01
##  [18245,] -1.915785e+00 -5.352127e-01 -4.708227e-01 -4.512291e-01
##  [18246,] -8.181818e-01 -1.305123e+00  1.235285e+00 -5.516997e-01
##  [18247,] -2.001376e+00  1.652593e+00  6.615248e-01  2.117684e-01
##  [18248,]  7.318683e-01 -8.427468e-01 -1.387762e+00 -5.796563e-01
##  [18249,] -3.024993e-01 -4.097117e-01 -3.114918e-01 -1.287942e+00
##  [18250,] -9.860541e-02  4.847687e-01 -7.832090e-01 -8.562388e-01
##  [18251,] -1.351777e+00  8.429173e-01 -1.098243e-01  5.080361e-02
##  [18252,] -1.834587e+00  6.081344e-01 -8.509186e-01  2.648856e-01
##  [18253,]  6.244523e-03  6.084048e-02 -1.948850e+00  1.575708e+00
##  [18254,]  2.732351e-01 -4.280212e-01  8.484734e-01  3.305913e-02
##  [18255,]  8.500689e-01 -5.148728e-01  1.541942e-01 -2.457867e-01
##  [18256,]  7.793045e-01  9.572673e-01 -6.940258e-01 -2.499003e-01
##  [18257,]  3.113154e-01 -1.366027e-01  8.900360e-02  3.710089e-02
##  [18258,] -1.170146e-02 -1.241886e+00  1.292724e+00  1.201292e+00
##  [18259,] -1.238322e+00  5.006292e-01  1.018006e+00 -4.362178e-01
##  [18260,]  4.187061e-01 -2.235970e-01 -1.376386e+00 -1.043485e+00
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##  [18263,]  9.484392e-01  5.671760e-01 -5.480155e-01  1.379630e-01
##  [18264,]  8.192797e-01 -1.147842e+00  1.304285e+00  1.166528e+00
##  [18265,]  5.141854e-01  2.011408e-01  1.195575e+00 -7.946544e-01
##  [18266,] -1.810900e+00 -1.387125e-01  1.340324e+00 -8.743149e-01
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##  [18268,] -7.595621e-01 -1.048537e+00  1.086247e+00 -3.654921e-01
##  [18269,] -7.986736e-01 -1.127168e+00  1.247146e+00 -5.045680e-01
##  [18270,]  7.903650e-01 -4.473219e-01  6.678762e-01 -3.368868e-01
##  [18271,]  2.268017e-01 -6.451045e-01 -7.098710e-01 -2.352346e-01
##  [18272,]  8.535015e-01 -1.590887e-01 -6.443776e-01 -2.021200e-01
##  [18273,] -6.200485e-01  5.904869e-01  1.127986e+00 -6.560941e-01
##  [18274,]  7.879475e-01 -4.669272e-01 -9.971394e-01  1.230797e+00
##  [18275,] -1.690323e+00  2.133052e+00 -1.412851e+00 -6.833247e-01
##  [18276,] -1.572508e+00  1.745135e+00 -1.501689e+00 -1.208958e+00
##  [18277,] -2.180119e+00 -8.180520e-01  1.218994e+00 -5.144152e-01
##  [18278,] -2.005916e-01  1.759569e-01  1.104592e+00 -6.593566e-01
##  [18279,] -1.512814e+00  1.158135e+00 -3.199627e-01  1.239889e+00
##  [18280,]  8.510944e-01 -5.874183e-03 -1.954466e+00 -3.990217e-01
##  [18281,]  6.991103e-03 -9.205824e-01 -1.842839e+00 -3.853621e-01
##  [18282,]  8.544490e-01 -4.835908e-01 -1.495445e+00 -1.179702e-01
##  [18283,]  7.848434e-01  5.371360e-01 -1.701001e-01  1.343490e+00
##  [18284,] -1.248279e+00 -2.633347e-01 -1.975306e+00  1.687094e+00
##  [18285,]  3.691842e-01 -5.585928e-01 -1.958420e+00  1.747630e+00
##  [18286,]  6.316790e-01 -5.065686e-01 -1.771926e+00 -5.733308e-01
##  [18287,]  8.070312e-01  8.353884e-01 -8.150082e-01  1.716409e-02
##  [18288,] -8.034008e-01  1.429010e+00  1.369257e+00 -1.130278e+00
##  [18289,] -9.200659e-01 -5.197194e-01  1.214369e+00  6.488441e-01
##  [18290,]  9.951860e-02  4.511117e-01 -1.109983e+00 -5.929370e-01
##  [18291,] -7.844270e-01 -1.183357e+00  1.138659e-01 -4.865220e-01
##  [18292,]  1.059421e-01 -1.428724e-01 -4.665971e-01 -2.627095e-01
##  [18293,]  4.239982e-01 -5.554047e-01  4.100712e-01  1.251711e-01
##  [18294,] -5.232526e-01 -1.486285e+00 -3.432554e-01 -5.724695e-01
##  [18295,] -7.412229e-01  1.107949e+00 -1.354517e+00  5.643436e-01
##  [18296,] -1.956785e-01 -1.550034e-01  1.383761e+00 -1.057768e+00
##  [18297,] -6.663808e-01  1.021230e+00 -1.821903e+00 -6.809458e-01
##  [18298,] -2.696275e+00 -6.665541e-01  3.545332e-01 -5.053838e-01
##  [18299,] -1.528598e+00  6.134345e-01  1.036497e+00 -3.796984e-01
##  [18300,]  6.312736e-01 -8.676799e-01 -3.304487e-01 -7.114448e-01
##  [18301,] -1.150877e+00  9.271337e-02 -1.039071e+00 -3.249338e-01
##  [18302,] -6.504668e-01 -2.482098e-01  1.311635e+00 -7.516321e-01
##  [18303,]  1.225959e+00 -9.734666e-01 -1.268351e+00 -7.948820e-01
##  [18304,] -7.201632e-02  1.333609e+00  2.481768e-01 -4.878117e-01
##  [18305,]  2.772310e-01 -8.943020e-01 -1.205483e+00  1.672411e+00
##  [18306,] -2.146817e+00  9.836724e-01  6.185657e-01  1.612007e+00
##  [18307,]  1.160403e-01 -1.001815e+00  9.085464e-01  1.537585e+00
##  [18308,] -2.751700e+00  9.443613e-01 -1.879788e-01  1.412271e+00
##  [18309,]  6.656060e-01 -4.277453e-01  1.165608e+00 -5.316564e-01
##  [18310,] -9.130065e-01  1.042080e+00  9.097838e-01 -4.542391e-01
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## [18311,] -1.422436e+00  1.066782e+00  8.254595e-01 -6.392819e-02
## [18312,]  1.339284e+00  1.133015e-01  6.474325e-01 -5.911978e-01
## [18313,] -1.911663e+00  6.841064e-01 -3.277956e-01  1.723619e-01
## [18314,]  8.775309e-01  2.805792e-01 -5.710971e-01 -4.170279e-01
## [18315,] -3.083128e+00 -9.541837e-01 -1.097655e+00 -3.601509e-01
## [18316,] -5.913237e-01  1.089061e+00 -2.016173e+00 -2.633983e-01
## [18317,] -1.381491e+00 -1.587462e+00 -2.653665e-01 -5.871322e-01
## [18318,] -1.703461e-01 -1.534447e+00  1.445484e+00  1.011093e+00
## [18319,] -5.712298e-02 -3.161731e-01  1.318653e+00  9.909398e-01
## [18320,] -6.445485e-01  4.029490e-01 -1.114524e-01 -8.564716e-01
## [18321,] -1.336512e+00  1.440881e+00  1.045917e+00  1.283127e+00
## [18322,]  5.146611e-01 -4.590273e-01  1.327064e+00 -8.876247e-01
## [18323,] -5.589426e-01 -6.487569e-01  8.457747e-01  1.426406e-01
## [18324,]  7.671889e-01 -9.469953e-01  1.091582e+00 -4.328281e-01
## [18325,]  3.809518e-01 -9.916163e-01  9.279898e-01 -3.830641e-02
## [18326,]  2.864638e-01  1.659530e-01 -1.585872e+00 -2.077176e-02
## [18327,]  8.291633e-01 -4.481281e-01  9.657652e-01 -1.411502e-01
## [18328,] -1.985169e+00  1.233592e+00  8.933961e-01 -3.331250e-01
## [18329,]  1.469281e-01 -1.142718e+00  1.185431e+00 -3.854297e-01
## [18330,]  1.224756e+00 -6.239782e-02 -2.914532e-01 -4.959802e-01
## [18331,]  8.011364e-01 -5.269111e-01 -5.404784e-01 -3.682529e-01
## [18332,]  6.946437e-01 -1.272989e+00  1.133405e+00 -4.349823e-01
## [18333,] -7.500353e-02  1.420794e+00  9.866881e-02  9.807875e-01
## [18334,] -7.649775e-01 -2.677002e-01  2.386691e-01  1.316914e+00
## [18335,] -1.750614e+00  1.574294e+00 -1.266228e-01 -8.229638e-01
## [18336,] -1.293273e+00  2.084751e+00  2.699537e-01 -4.362013e-01
## [18337,]  6.721863e-01 -3.702841e-01 -4.180759e-01  1.379577e+00
## [18338,]  1.341990e+00  5.034900e-02  9.725663e-01  1.530385e+00
## [18339,]  2.655339e-01  4.898508e-01  1.032722e+00 -1.251019e+00
## [18340,]  6.909272e-01  3.239493e+00  1.725824e-01 -5.618977e-01
## [18341,] -3.089857e-01 -1.085050e+00 -1.074396e+00 -1.154187e+00
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## [18343,] -4.528985e-01 -5.336290e-01 -1.718859e+00 -2.991782e-01
## [18344,]  7.373971e-01 -1.002420e-02  7.690513e-01 -1.988294e-01
## [18345,] -8.783005e-02  1.181903e+00  1.147757e+00  1.474627e+00
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## [18348,] -5.718970e-01  7.006174e-01 -7.098187e-01 -2.024165e-01
## [18349,]  2.012493e-01 -7.440437e-01  6.161716e-02  1.505964e+00
## [18350,] -1.578134e+00  9.756351e-01 -6.079216e-01 -4.793084e-01
## [18351,] -7.939408e-01 -7.579654e-01 -1.441580e+00 -1.444178e-01
## [18352,] -6.774118e-02 -1.573347e+00  1.550664e+00  8.871121e-01
## [18353,]  8.150380e-01 -7.288125e-01  9.684798e-01  1.171851e+00
## [18354,]  1.830735e-01 -1.194112e+00 -1.708314e+00 -6.066898e-01
## [18355,]  5.325849e-02  1.233679e+00  9.887164e-01 -2.392642e-01
## [18356,]  2.398446e-02 -1.153414e+00  2.221019e-02  1.060810e+00
## [18357,]  8.161474e-01 -4.257772e-01  1.119147e+00  1.367013e+00
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## [18359,]  3.868739e-01  2.842973e-01  8.143895e-01  1.959881e+00
## [18360,]  3.717740e-02 -1.074959e+00  5.145844e-02 -8.973221e-01
## [18361,]  2.813841e-01 -9.827762e-01 -4.764598e-01 -2.921159e-01
## [18362,]  8.787960e-01  7.292095e-02  8.302803e-01 -4.768229e-02
## [18363,] -5.673949e-01 -1.573918e+00  1.042529e+00  1.419304e+00
## [18364,] -1.792147e+00  1.028323e+00  2.878269e-01  1.896915e+00
## [18365,] -1.381531e+00  1.155195e+00 -2.433908e-01 -7.121038e-01
## [18366,] -1.718079e+00  1.493286e+00  1.778077e-01 -7.239110e-01
## [18367,] -8.898569e-02  7.827577e-01  1.230522e+00 -9.408171e-01
## [18368,]  8.163275e-01  5.340050e-01  7.261384e-01 -1.128516e-02
## [18369,]  7.992159e-01  4.357951e+00  3.839008e-02 -2.878874e-01
## [18370,]  5.829268e-01 -9.498979e-02 -1.093412e-01 -7.069600e-01
## [18371,] -1.355333e+00 -1.024407e-01  7.621361e-01  4.877051e-02
## [18372,] -5.966559e-01 -7.171531e-01 -7.028546e-01  1.536529e-03
## [18373,] -1.206175e+00 -7.136257e-02  9.730519e-01 -2.197037e-01
## [18374,] -2.136774e+00 -8.083126e-01 -1.091916e+00  1.459503e+00
## [18375,]  9.483921e-01  1.180978e+00 -5.590012e-01 -5.992089e-02
## [18376,] -1.755171e-01  3.102462e+00  1.255426e+00  9.845769e-01
## [18377,]  2.851848e-01 -4.266701e-01  7.714360e-01  2.027429e+00
## [18378,] -7.412405e-01  4.320071e-01 -1.251220e+00 -4.013015e-01
## [18379,] -2.324818e+00  1.041793e+00 -1.857933e+00 -6.206251e-01
## [18380,]  7.966389e-01 -3.546109e-01 -1.540315e-01  1.296482e+00
## [18381,] -1.745964e+00  7.181408e-01  5.385850e-01  5.109981e-01
## [18382,] -6.412135e-01  1.617067e+00 -2.148450e-01 -6.362666e-01
## [18383,] -2.022256e-01  1.041642e+00 -1.545401e-01 -9.283363e-01
## [18384,] -2.706266e+00  1.340855e+00  1.068417e+00  1.470929e+00
## [18385,] -6.397887e-02 -7.726381e-01  1.903065e-01  9.589915e-01
## [18386,] -3.564815e-01  1.531550e+00 -5.886572e-01 -9.443046e-02
## [18387,]  8.332546e-01 -1.873974e-01  8.481584e-01  1.646641e-02
## [18388,]  4.196859e-01 -4.661306e-03  8.178597e-01  1.480268e-01
## [18389,]  8.550878e-01  7.102014e-01 -1.755142e+00 -9.586257e-02
## [18390,]  5.477650e-01 -1.028056e+00 -3.847662e-01 -1.038248e+00
## [18391,]  2.829409e-01 -6.064026e-01 -6.365248e-01  1.719859e+00
## [18392,] -9.244453e-01  3.394709e-01 -1.075737e+00 -1.076224e+00
## [18393,] -7.643494e-01 -1.846998e+00  1.015338e+00  1.312014e+00
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## [18395,]  1.412742e+00  1.689990e-01 -4.461053e-01 -2.339049e-01
## [18396,]  1.543749e-01 -1.044899e+00  1.960914e-01  1.344773e+00
## [18397,]  2.551969e-01  1.011338e+00  3.485973e-01 -1.392444e-01
## [18398,] -6.149244e-01 -1.060593e+00 -2.002909e-01 -2.799800e-01
## [18399,]  1.208336e-01  1.211305e+00 -4.317840e-01 -7.945507e-01
## [18400,]  1.406266e-01 -1.216005e+00  1.348516e+00 -6.749982e-01
## [18401,]  3.250107e-01  6.271678e-01 -8.509600e-01  3.589911e-01
## [18402,] -2.864630e-01 -4.559939e-01  8.066376e-01  1.699183e-01
## [18403,] -6.959101e-01  1.348342e+00  9.256108e-02  9.963574e-01
## [18404,] -2.072891e+00  3.497033e-01 -1.623420e-01 -6.833163e-01
## [18405,] -1.397829e+00  1.445023e+00  8.355304e-01 -2.599930e-01
## [18406,]  3.469798e-01 -3.695344e-01 -9.221684e-01 -1.220061e+00
## [18407,] -2.475452e+00 -2.431475e-01 -1.444505e+00 -1.928063e-01
## [18408,]  1.411760e+00 -3.696659e-01  2.411156e-01  1.378804e+00
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##  [18409,] -5.959188e-01 -5.559602e-01  1.143947e+00 -5.646666e-01
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##  [18411,] -6.096578e-01 -3.108322e-01 -1.745180e+00  2.155644e-02
##  [18412,] -4.900890e-01 -7.081801e-01 -7.445115e-02  1.689730e+00
##  [18413,] -9.277518e-01  1.062107e+00  9.707251e-01  1.351120e+00
##  [18414,]  1.854916e-01 -7.497631e-01 -2.125442e-01  1.490232e+00
##  [18415,] -2.372310e-01 -9.290537e-01 -1.098243e-01 -9.365902e-01
##  [18416,]  9.308921e-01  2.564428e+00  1.245406e+00 -1.046613e+00
##  [18417,] -4.491869e-01 -1.502904e+00 -1.382025e-01  1.475712e+00
##  [18418,] -2.725651e+00 -1.004560e+00  1.253204e+00 -5.667231e-01
##  [18419,] -1.282815e+00 -7.400105e-01 -1.701703e+00  5.503782e-02
##  [18420,] -7.849350e-01  8.377817e-01  1.185424e+00 -8.502974e-01
##  [18421,] -4.289410e-01  2.817512e-01 -1.291892e+00 -5.554954e-01
##  [18422,] -8.138167e-01  7.418039e-01  1.560958e-01 -9.564602e-01
##  [18423,]  6.438623e-01 -1.141174e+00  1.399849e+00  1.056602e+00
##  [18424,] -6.059138e-01 -3.101262e-01 -9.930074e-02  7.001190e-02
##  [18425,]  1.001144e+00  2.753252e-01  2.554856e-01 -1.376422e+00
##  [18426,]  1.300903e+00  1.333887e+00  5.768908e-02 -2.197465e-01
##  [18427,] -2.035262e+00  1.393418e+00  3.679171e-01  5.368743e-03
##  [18428,] -1.677587e+00 -3.923647e-01  1.358035e+00 -8.585158e-01
##  [18429,]  2.777838e-01 -1.838331e-01 -2.905725e-01  1.452514e-01
##  [18430,]  1.811734e-01 -1.088313e+00  1.093625e+00  1.572388e+00
##  [18431,]  1.540532e+00  3.290625e-01  1.928102e-01  1.767006e+00
##  [18432,]  1.191490e-01 -1.071908e+00 -3.745608e-01 -5.823702e-01
##  [18433,] -9.386347e-01 -1.696412e+00 -6.550444e-01  1.215790e+00
##  [18434,] -4.312034e-01  5.429858e-01  1.108990e+00 -3.706203e-01
##  [18435,] -1.039456e-01 -1.315174e-01 -1.642662e-01 -5.301963e-01
##  [18436,]  9.771570e-01 -6.823104e-01  1.072111e+00  1.592383e+00
##  [18437,] -6.299428e-01 -1.704760e-01 -1.211815e+00 -9.539127e-01
##  [18438,] -5.028274e-01  1.435616e-01 -1.890988e+00  1.499031e+00
##  [18439,] -6.231799e-01 -5.534358e-01 -5.224869e-01 -4.598567e-01
##  [18440,] -2.796553e-01  3.095232e-01  1.226721e+00 -8.481127e-01
##  [18441,] -4.372006e-01 -7.029641e-01  4.113676e-01  2.173116e-01
##  [18442,] -3.665668e-01 -4.979542e-01 -4.727900e-01  1.774418e+00
##  [18443,] -5.130301e-01  5.822945e-01 -2.131143e+00 -8.047796e-02
##  [18444,]  1.242311e-01 -6.846572e-01 -1.326475e+00  1.540570e+00
##  [18445,]  2.337359e-01  1.062602e-01 -3.301800e-01 -2.778961e-01
##  [18446,] -1.487857e+00 -6.523917e-01 -6.040847e-01  1.655434e+00
##  [18447,]  1.308347e+00  8.352935e-02 -9.882968e-01  1.508902e+00
##  [18448,] -4.806089e-01 -5.869808e-02 -3.225179e-01 -2.712163e-01
##  [18449,]  3.088209e-01  1.734901e+00  7.149313e-01 -1.120890e+00
##  [18450,]  1.460024e+00  2.576464e-01 -1.874785e+00 -1.711839e-01
##  [18451,] -3.765546e-02  4.552975e-01 -1.441927e-01 -7.399600e-01
##  [18452,]  1.944441e-01 -1.032848e+00  1.032210e+00 -3.196957e-01
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##  [18455,]  8.005070e-01 -1.449576e-02 -4.390296e-01 -6.784392e-02
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##  [18457,]  9.464299e-01  2.698778e-04 -1.933228e+00  2.773553e-02
##  [18458,] -1.724965e+00  3.581143e-01 -9.564378e-01 -1.487334e+00
##  [18459,] -2.161183e-01  1.508748e+00  6.572432e-01  1.019337e+00
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##  [18464,]  9.378784e-01 -7.054606e-01  4.596396e-01  1.459303e+00
##  [18465,]  7.375682e-01  4.349193e-02 -1.945099e+00 -3.538194e-01
##  [18466,] -2.722926e+00  1.406982e+00  4.501364e-01 -2.395817e-01
##  [18467,]  4.334760e-01  1.843403e+00  7.753461e-01 -8.216509e-01
##  [18468,] -2.707416e+00 -1.829987e-01  1.025731e+00 -3.021344e-01
##  [18469,] -8.495507e-01  1.078975e+00  1.307473e+00 -8.491006e-01
##  [18470,]  8.595003e-01 -7.315185e-02  9.969457e-01 -3.335724e-01
##  [18471,] -5.703538e-01 -1.054440e+00 -4.663646e-02  1.429720e+00
##  [18472,]  1.110208e-01 -1.126907e+00 -1.226062e+00 -4.069543e-01
##  [18473,] -2.188016e-01 -1.362833e+00 -1.121325e+00 -9.803456e-01
##  [18474,]  6.175336e-01  1.024403e+00 -4.474406e-01 -4.037841e-01
##  [18475,] -5.575523e-01  1.531699e-01 -5.708029e-01 -4.414732e-01
##  [18476,] -1.575900e-01 -3.135187e-02  4.729343e-01  1.217197e+00
##  [18477,]  3.159473e-01 -3.668349e-01 -1.509761e+00 -1.532462e-01
##  [18478,]  3.860671e-01 -3.226168e-01  3.018463e-01  1.892407e+00
##  [18479,] -2.573610e-01  5.492237e-01 -2.502564e-01 -8.067078e-01
##  [18480,]  1.211129e+00  8.651603e-01  1.128386e+00  1.098299e+00
##  [18481,]  1.308311e+00 -2.835217e-01  8.573197e-01 -6.872827e-01
##  [18482,]  1.278825e+00 -3.206270e-01  1.023791e+00 -3.857159e-01
##  [18483,]  1.291168e-01  2.003948e+00  8.096106e-01  2.012529e+00
##  [18484,]  3.202554e-01  1.987740e-01 -6.108198e-01 -6.972017e-02
##  [18485,] -6.634920e-01  3.661607e-01  9.707092e-01 -3.912476e-01
##  [18486,]  8.027013e-02 -9.554589e-01 -2.113567e-01 -4.970330e-01
##  [18487,]  1.011712e+00  2.528645e-01  7.936553e-01 -2.855477e-02
##  [18488,]  7.302609e-01  2.150203e-01 -2.643675e-01 -4.164150e-01
##  [18489,]  2.405173e-01 -8.627477e-01 -2.555537e-01 -3.740991e-01
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##  [18492,]  1.944890e-01 -1.067293e-01  4.764212e-01 -1.318743e-02
##  [18493,] -4.983840e-01 -5.554276e-01  1.005567e+00 -3.241433e-01
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##  [18498,] -5.808177e-01  3.176326e-01 -1.937912e+00 -4.797183e-01
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##  [18502,] -6.078255e-02 -4.024540e-01  1.049812e+00 -6.708549e-01
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##  [18505,]  5.941499e-01  2.027513e-02  9.361631e-03 -9.864940e-01
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## [18508,]  5.444949e-01 -1.515559e+00 -9.466624e-01 -9.057106e-01
## [18509,]  5.794678e-01 -1.514180e+00 -6.359010e-01  1.042979e+00
## [18510,] -7.523575e-02  6.056614e-02 -3.666595e-01 -7.962689e-01
## [18511,]  5.654664e-01 -1.183443e+00 -1.275013e+00  9.051687e-01
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## [18514,] -1.017543e+00  1.024453e-01 -1.916038e-01 -1.125653e+00
## [18515,]  8.859532e-01  9.456811e-02 -2.094216e+00 -9.523720e-02
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## [18517,] -7.451879e-01 -1.414174e+00 -9.985632e-01 -4.524437e-01
## [18518,]  2.515836e-01  1.531698e+00 -6.317281e-01 -4.439010e-01
## [18519,] -1.712040e-01  1.551886e+00  1.646460e-01 -7.051491e-01
## [18520,] -6.453722e-01  1.191454e+00 -5.778819e-01 -5.366436e-01
## [18521,] -7.467623e-01 -8.995345e-01  9.041918e-01  2.674473e-03
## [18522,]  1.896560e-01  1.863177e+00  4.251458e-01  1.553724e+00
## [18523,]  1.294160e-01  8.747263e-01 -8.671958e-01 -6.957496e-02
## [18524,] -6.301927e-02  6.650825e-02  1.223213e+00 -7.243312e-01
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## [18528,]  4.205645e-01 -1.403136e+00  2.937913e-01  5.916930e-01
## [18529,] -5.660203e-03 -5.605417e-02 -1.345459e+00 -7.633096e-01
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## [18545,] -5.701385e-01 -8.034449e-01 -1.295846e+00  1.894843e+00
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## [18549,]  2.046240e-02 -1.071893e+00  1.293192e+00 -7.564546e-01
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## [18574,]  7.826776e-03 -1.022642e+00 -1.499594e-01 -5.765566e-01
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## [18583,]  2.332643e-02 -1.339716e+00 -1.071160e+00 -7.387316e-01
## [18584,] -1.646192e-01 -1.942942e-01 -1.409120e+00 -1.041630e+00
## [18585,] -1.361513e+00 -4.090382e-01 -1.505299e+00 -7.023192e-01
## [18586,] -1.001307e-01  2.528029e-01 -1.565821e+00 -7.379289e-01
## [18587,]  4.672960e-01 -3.158799e-01  7.023907e-01  2.596687e-01
## [18588,]  7.696299e-01 -1.170244e+00 -2.307817e-01 -3.747850e-01
## [18589,]  1.529056e-02  1.631912e+00  1.693868e-01 -3.561941e-01
## [18590,]  1.633071e-01 -3.398395e-02 -1.949185e+00 -2.624425e-01
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## [18601,] -5.786695e-01  1.816217e+00 -5.002777e-01  1.713101e+00
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## [18640,] -8.943798e-01  7.335189e-01  6.953676e-01 -9.241684e-01
## [18641,] -7.411166e-01 -1.291001e+00 -5.056670e-01  1.783154e+00
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## [18654,] -2.764671e+00  8.390718e-01 -1.304526e+00 -5.896319e-01
## [18655,]  5.430609e-01  2.666301e+00  1.145681e+00 -5.417649e-01
## [18656,] -2.675062e+00 -7.329430e-01 -1.752190e+00 -4.823274e-01
## [18657,]  4.244122e-01 -3.982635e-02  6.196439e-01  3.494960e-01
## [18658,]  2.492716e-01 -6.177383e-01  8.850836e-01 -4.068342e-02
## [18659,] -1.234635e+00 -9.869746e-02  1.105868e+00  1.530038e+00
## [18660,] -1.465516e+00  3.318068e-01 -1.769464e+00 -6.490561e-01
## [18661,]  1.689109e-01 -3.455314e-01 -1.901859e+00 -2.905669e-01
## [18662,]  8.715000e-01  4.492188e-01  9.927142e-01 -3.600877e-01
## [18663,]  7.369925e-01 -2.527462e-01  1.026479e-01 -2.523937e-01
## [18664,]  3.605377e-01 -5.367403e-01  3.550756e-01 -4.630350e-02
## [18665,]  3.074467e-01  2.378682e-01 -5.630846e-01  5.265036e-01
## [18666,]  7.582248e-01  2.066208e-01 -3.488053e-01  1.544173e+00
## [18667,]  7.091074e-01 -8.376167e-01 -4.153232e-01 -5.263147e-01
## [18668,]  7.319331e-01 -3.449185e-01  1.008470e+00 -3.400250e-01
## [18669,]  4.073770e-01 -8.592685e-02 -2.034575e+00  2.218728e-01
## [18670,]  5.927380e-01 -1.517115e-01  1.100392e+00 -5.427770e-01
## [18671,]  9.206379e-01 -2.017323e-01  6.750119e-01 -3.335448e-01
## [18672,]  6.253110e-01  8.064799e-01  9.014035e-01 -3.395095e-01
## [18673,]  1.148014e-01 -1.339527e+00 -8.494045e-01  1.070399e+00
## [18674,]  7.462290e-01 -3.452255e-01  9.723090e-01 -2.992337e-01
## [18675,] -4.561266e-01 -1.067748e+00  1.798148e-01  1.954707e+00
## [18676,]  1.559228e-01 -1.126787e+00 -2.459346e-01 -3.484128e-01
## [18677,] -3.948250e-02 -1.040805e-01  9.861674e-01 -3.210148e-01
## [18678,]  6.457032e-01  2.876682e-01 -1.418983e-02 -4.191764e-01
## [18679,]  4.856831e-01 -3.663923e-01  5.394764e-01 -9.978547e-01
## [18680,] -7.885442e-01 -5.628216e-01  1.079927e+00  1.469152e+00
## [18681,] -1.476992e+00  1.755053e+00  1.239361e+00 -8.927232e-01
## [18682,] -7.847063e-01  1.800712e+00  8.217079e-01 -5.661147e-01
## [18683,]  7.358662e-01 -4.646585e-02 -1.807145e-01 -7.892018e-01
## [18684,] -4.666559e-01 -3.023096e-01 -4.168585e-01 -4.941928e-02
## [18685,]  4.320358e-01 -1.052232e-01 -8.401674e-01  1.995771e+00
## [18686,] -4.817829e-01 -1.356694e+00  1.123507e+00 -3.908445e-01
## [18687,] -2.154893e+00  4.292133e-01 -1.136485e-01 -2.567915e-01
## [18688,] -3.064250e+00  1.613274e-01 -4.009360e-01 -2.044264e-01
## [18689,] -6.777487e-01  7.945986e-01 -5.461512e-01 -6.402398e-01
## [18690,]  2.252330e-01 -1.063042e-01 -3.513067e-01  1.526135e-03
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## [18696,] -6.330908e-01 -1.159585e+00 -1.617833e+00  1.231405e+00
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## [18699,]  6.650166e-01 -6.057660e-02 -1.699542e+00 -6.796882e-01
## [18700,]  8.423441e-01 -3.645206e-01  9.031858e-01 -1.766720e-01
## [18701,] -6.397017e-01  1.796553e-01 -1.607171e+00 -9.435676e-01
## [18702,]  7.233374e-02 -1.630221e+00  1.376751e+00  1.219665e+00
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##  [18704,]  1.153154e+00  2.540812e-01  1.188412e+00  1.205140e+00
##  [18705,]  1.011609e+00 -1.342244e-01  8.170704e-01 -6.500408e-02
##  [18706,]  2.617118e-01 -5.348248e-01  8.209144e-01  1.230044e-02
##  [18707,] -1.395422e-01 -5.784718e-01 -1.355138e+00 -9.495625e-01
##  [18708,]  1.687223e-01 -3.087531e-01  9.116048e-01 -1.861466e-01
##  [18709,]  2.494528e-01 -5.351104e-01 -1.319783e+00 -3.629068e-01
##  [18710,]  2.378728e-01 -7.754109e-01 -2.725359e-01  1.612506e+00
##  [18711,]  8.446010e-01 -2.691554e-01 -1.472529e+00 -2.193099e-01
##  [18712,]  2.055735e-01 -6.562147e-01  1.058813e+00 -2.798318e-01
##  [18713,]  7.497638e-02 -1.184022e-01  4.058727e-01 -5.378408e-01
##  [18714,] -1.471913e+00  3.774349e-01 -2.487916e-01 -6.406138e-01
##  [18715,] -3.762104e-02  3.141407e+00  3.159307e-01  9.837989e-01
##  [18716,] -9.595820e-02 -3.290491e-01 -2.722387e-02 -8.630759e-01
##  [18717,] -5.719895e-01 -2.365306e-02  1.217051e+00 -6.372000e-01
##  [18718,] -3.099685e-02  4.470659e-01  1.047452e+00 -4.826736e-01
##  [18719,] -5.331613e-01  9.524778e-01 -9.624555e-02 -3.434406e-01
##  [18720,]  9.016519e-01 -5.182930e-01 -1.655807e+00 -4.635702e-01
##  [18721,] -5.375448e-01 -2.369456e-01  1.057863e+00  1.457807e+00
##  [18722,] -8.134418e-01 -3.759992e-01  1.420531e+00 -9.230444e-01
##  [18723,]  8.761555e-01  2.669783e-01  1.464419e-01  1.540292e+00
##  [18724,]  7.352186e-01 -4.198303e-01  1.123695e+00  1.564378e+00
##  [18725,] -6.619248e-01 -2.218808e+00 -5.541449e-01  1.061052e+00
##  [18726,]  4.464317e-01 -4.843097e-01  4.625017e-02 -9.689089e-01
##  [18727,] -6.005017e-01 -9.639813e-01 -1.904992e+00 -2.650112e-01
##  [18728,]  5.169086e-01  5.054763e-01  1.618493e-02  1.119544e+00
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##  [18730,]  6.817588e-01 -4.716241e-01 -6.807034e-01 -9.660291e-01
##  [18731,]  1.183237e-01  4.504305e-01 -1.123428e+00 -4.260200e-01
##  [18732,]  6.134527e-01 -1.569669e-02 -4.395018e-02 -9.324191e-01
##  [18733,] -8.979330e-02  2.076768e-01 -4.334833e-01 -7.013892e-01
##  [18734,]  7.550012e-01 -3.355765e-01 -2.864926e-01 -3.235933e-01
##  [18735,] -4.896255e-01  9.963919e-01  1.097826e+00 -4.488594e-01
##  [18736,]  4.132153e-02 -9.779752e-01  5.413449e-04  1.115238e+00
##  [18737,]  2.575219e-01  1.285540e+00 -6.748896e-01  5.548022e-02
##  [18738,]  3.055301e-01  7.339445e-02  7.581448e-01  1.646074e-01
##  [18739,]  1.031197e-01 -7.130422e-01  9.488215e-01 -5.142510e-01
##  [18740,] -2.802169e-01 -8.052306e-01 -4.699091e-01  1.975103e+00
##  [18741,]  2.571736e-01 -4.110182e-01 -3.130796e-01  1.565863e+00
##  [18742,]  2.353450e-01 -1.595823e-01  9.594146e-01  1.703874e+00
##  [18743,]  1.402467e+00  7.722428e-01 -3.301699e-01  1.075917e+00
##  [18744,] -5.860073e-01 -1.362208e+00  9.060325e-01  1.656842e-02
##  [18745,] -2.046123e+00  6.561450e-01  8.610214e-01 -1.078675e-01
##  [18746,] -1.084592e-01  4.643234e-01 -9.352867e-01 -6.912424e-01
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##  [18748,] -1.079132e+00  5.989893e-01  7.078375e-01  1.718752e-01
##  [18749,]  1.412314e-02 -1.273423e+00  1.288507e+00 -6.924318e-01
##  [18750,]  7.383095e-01  5.846178e-01 -6.014656e-01 -3.900280e-01
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##  [18752,] -1.277965e+00 -1.829701e-01  1.420248e+00 -8.836637e-01
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##  [18754,]  9.113746e-01  2.529609e-01 -3.077136e-01  1.633401e+00
##  [18755,]  1.726069e-01  4.053299e-01 -6.755689e-01 -8.572625e-02
##  [18756,] -4.537721e-01  7.922619e-01  3.645206e-01 -5.300498e-01
##  [18757,]  2.595546e-01 -8.465323e-01 -1.772531e-01 -3.496927e-01
##  [18758,] -1.937526e+00  2.989739e-01 -1.894073e+00 -4.182842e-01
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##  [18762,] -3.154171e+00 -9.579207e-01 -3.593713e-01 -1.046133e-01
##  [18763,]  5.668400e-01 -1.045367e-01  3.674570e-01 -7.588493e-01
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##  [18767,]  2.465243e-01  1.678038e+00  5.017643e-01 -1.307295e+00
##  [18768,] -2.312455e+00  1.004965e-01  8.035030e-01  2.105963e+00
##  [18769,]  2.132597e-02 -5.828064e-01  1.141458e+00 -5.766884e-01
##  [18770,] -1.077669e-01 -6.576185e-01 -1.745589e+00 -6.262842e-01
##  [18771,]  2.111639e-01 -4.857220e-01  1.073076e-01 -2.589265e-01
##  [18772,]  7.831963e-01 -2.040036e-01  1.101236e+00 -5.297974e-01
##  [18773,] -1.491881e+00  8.320352e-01 -1.537678e+00 -8.576812e-01
##  [18774,] -5.862512e-01 -3.185698e-01 -1.939199e+00  1.676072e+00
##  [18775,]  4.072317e-02 -3.614900e-01  8.950248e-01 -1.498422e-01
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##  [18778,] -3.497717e-01  1.313944e+00  4.780081e-03 -9.686157e-01
##  [18779,]  1.195162e+00 -5.856548e-01  1.235950e+00  8.568891e-01
##  [18780,]  4.080101e-01  1.715596e+00  1.208119e+00  9.559517e-01
##  [18781,]  1.166158e-01 -1.135695e+00  1.079540e+00 -3.180153e-01
##  [18782,] -1.286511e+00 -3.187915e-01  1.116019e+00 -4.458662e-01
##  [18783,] -1.057746e+00  1.202045e+00  1.401768e+00 -1.283037e+00
##  [18784,]  1.301244e+00 -2.530581e-01 -4.932157e-01 -5.170425e-01
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##  [18786,] -2.441967e+00  1.883812e-01  2.817596e-02 -1.023075e+00
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##  [18793,]  5.641976e-01 -8.322193e-01 -7.921857e-02 -7.183289e-01
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##  [18798,]  8.577665e-01  1.034761e-01 -3.486221e-01 -1.439881e-01
##  [18799,] -1.571108e+00 -5.151515e-01 -9.235861e-02 -6.329938e-01
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## [18803,]  6.537644e-01 -2.749281e-02  9.834688e-01 -3.726764e-01
## [18804,]  1.218032e+00 -3.927046e-02  1.174649e+00 -7.167864e-01
## [18805,]  7.816173e-01 -3.353199e-01 -2.089438e-01  1.220368e+00
## [18806,]  7.771060e-01  1.233171e-02  8.590118e-02 -6.628371e-01
## [18807,] -5.276074e-01 -3.805119e-01 -1.336271e+00 -5.020469e-01
## [18808,]  7.143852e-01 -3.429171e-02 -4.165575e-01 -8.283336e-01
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## [18812,] -2.578830e+00  8.243506e-02 -1.418731e+00  6.116753e-02
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## [18815,] -3.796725e-01  1.654558e+00 -8.438985e-01 -1.892907e-01
## [18816,] -5.774245e-01 -5.127743e-02  9.659518e-01 -2.756288e-01
## [18817,] -5.147971e-02 -1.034701e+00  8.236461e-01 -4.894559e-01
## [18818,]  4.765751e-01 -2.428114e-01 -7.143853e-02 -8.508334e-01
## [18819,]  2.926466e-01  3.101636e-01 -1.636070e-01 -1.383632e-01
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## [18821,]  8.094600e-02  1.670944e+00 -4.038122e-01 -5.140144e-01
## [18822,] -3.727036e-01  5.189616e-02 -1.833650e+00  1.795613e+00
## [18823,] -5.938216e-01 -9.111658e-01  1.052418e-01 -2.003275e-01
## [18824,] -2.205614e+00  2.768143e-01  1.016633e+00  1.493603e+00
## [18825,] -3.342572e+00 -1.586008e-01  1.327641e+00 -8.437800e-01
## [18826,]  7.751019e-01 -4.058237e-01 -1.763738e+00 -3.088633e-01
## [18827,] -4.232446e-01  5.155593e-01  9.864669e-01 -4.392357e-01
## [18828,]  5.638282e-01  2.576215e-01  1.045096e+00 -5.506498e-01
## [18829,]  5.485113e-01 -2.387157e-01  1.430659e+00  9.234891e-01
## [18830,] -7.683311e-03 -1.628864e+00  1.046738e+00  1.133008e+00
## [18831,] -3.598733e-01 -6.686314e-01  6.746989e-01 -1.092689e-02
## [18832,] -1.256880e-02 -1.503095e+00  4.210060e-02  1.135472e+00
## [18833,] -1.958277e+00  4.172392e-01 -4.523871e-01  3.775823e-02
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## [18835,]  1.333379e+00  3.902342e-01  1.045393e+00 -4.133287e-01
## [18836,] -8.758472e-01  1.500944e+00 -8.060788e-03 -6.082075e-01
## [18837,]  1.412778e+00  5.534577e-02 -3.155628e-01  1.651240e+00
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## [18840,] -3.802995e-01 -1.497136e+00 -2.566358e-01  1.653235e+00
## [18841,]  1.787007e-01  9.152612e-01  9.568177e-01  1.292473e+00
## [18842,]  5.306821e-01 -7.586117e-01 -1.438837e+00 -8.399422e-01
## [18843,]  1.264243e+00 -1.077300e+00  1.207708e+00  1.320601e+00
## [18844,]  1.835436e-01 -2.840565e-01 -1.654074e+00 -2.097803e-01
## [18845,] -2.416098e+00 -5.769694e-01  1.410578e+00 -9.749168e-01
## [18846,] -7.536617e-01 -1.220092e+00  9.432743e-01 -4.782410e-02
## [18847,] -2.195441e+00  6.826067e-01  1.053373e+00 -3.241484e-01
## [18848,] -2.041180e+00 -3.586745e-01 -2.692083e-01 -3.484933e-01
## [18849,] -7.214793e-01 -5.794233e-01  9.403195e-01 -2.054039e-01
## [18850,] -2.064634e-01  1.033154e+00 -2.375030e+00  4.621802e-01
## [18851,] -8.063618e-01 -6.687351e-01 -1.515876e+00  8.901659e-01
## [18852,]  3.470046e-01 -1.066857e+00 -3.883777e-01 -1.327251e-01
## [18853,]  5.584879e-01  7.248778e-01  2.241265e-01 -6.649728e-01
## [18854,] -8.913398e-01  2.233227e-01  1.376746e+00 -1.171306e+00
## [18855,]  3.662926e-03 -1.444387e+00  1.511848e-03 -7.578487e-01
## [18856,]  4.890629e-01  4.986550e-01  8.611977e-01 -8.397350e-01
## [18857,] -7.228154e-01  4.248685e-01  1.262581e+00 -8.280911e-01
## [18858,] -5.826511e-01 -3.188694e-01 -3.058543e-01 -3.178447e-01
## [18859,]  7.198085e-01 -6.863403e-01 -8.073004e-01  1.260346e+00
## [18860,] -7.231497e-01 -1.337851e+00  1.303319e+00 -7.486852e-01
## [18861,]  3.347428e-01 -2.994174e-01  7.664435e-01  2.046487e+00
## [18862,]  2.203322e-01 -7.412028e-01 -3.602124e-01  1.646658e+00
## [18863,] -1.021148e+00  1.793465e+00 -1.197821e+00 -1.210871e+00
## [18864,]  7.882335e-01 -7.828603e-01  1.152273e+00  1.453505e+00
## [18865,] -2.349029e+00 -4.657349e-01 -5.368009e-01 -8.373943e-01
## [18866,]  8.435461e-01  1.548305e+00  8.213491e-01  8.239043e-02
## [18867,] -1.346231e-01  3.873010e+00  9.706476e-01 -7.902388e-01
## [18868,]  7.061396e-01 -9.775835e-01  1.410491e+00 -9.353564e-01
## [18869,]  8.063879e-01 -1.013590e+00  1.192474e+00 -5.747698e-01
## [18870,]  6.417870e-01 -1.252933e+00 -4.589163e-01  7.647107e-01
## [18871,]  3.960483e-01  2.139106e+00 -1.054368e-01 -8.116824e-01
## [18872,]  1.631662e-01 -5.601205e-01 -1.810251e+00 -4.389833e-01
## [18873,]  1.240694e-01 -8.063501e-01 -3.587820e-01 -2.588912e-01
## [18874,]  1.155054e+00 -1.410555e+00  1.417599e+00 -9.536681e-01
## [18875,]  1.144126e-02 -9.150510e-01  2.682476e-02 -8.025239e-01
## [18876,] -1.303595e+00  1.421214e-01 -1.423099e+00  2.058512e+00
## [18877,] -1.032990e+00  9.570509e-02  8.080828e-01  1.219393e-02
## [18878,]  1.629755e-01  2.939816e-01 -6.050173e-01  1.805017e-01
## [18879,] -2.205526e-01  2.141384e+00  1.226791e+00 -1.017941e+00
## [18880,] -4.180497e-01  2.938420e-01 -1.267930e+00  1.312712e+00
## [18881,]  8.095720e-01 -1.752967e-01  9.378707e-01 -2.396293e-01
## [18882,] -6.478196e-01  4.754797e-01 -1.583488e+00 -1.071658e+00
## [18883,] -1.494076e+00 -8.344190e-01  1.215685e-01 -1.026756e+00
## [18884,]  1.231355e-01 -9.985025e-01 -4.797225e-02 -5.492951e-01
## [18885,]  1.174499e+00 -7.011019e-01 -1.664357e+00 -7.646773e-01
## [18886,] -1.073137e-02 -1.431448e+00  9.475959e-01  9.299545e-01
## [18887,]  3.321032e-01 -2.764368e-01  6.413283e-01  7.587008e-02
## [18888,]  6.536604e-01 -8.245640e-01 -2.035035e-01 -4.981186e-01
## [18889,]  2.502772e-01  1.157397e+00  1.390128e-01 -1.255401e+00
## [18890,] -5.835897e-02 -2.065025e-01 -6.224988e-04  1.167439e+00
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## [18892,]  4.415663e-02 -1.074729e+00  1.273690e+00 -6.137300e-01
## [18893,]  9.802963e-01 -6.902856e-01  7.357735e-01  1.581491e+00
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## [18895,] -8.059547e-01  2.031018e+00  1.493124e-01 -9.777926e-01
## [18896,]  1.245595e+00  2.315552e+00 -8.428478e-01 -3.582108e-01
## [18897,]  8.308964e-02 -6.455237e-01  1.227492e+00 -7.045090e-01
## [18898,]  6.947329e-01  6.479124e-01 -1.460294e+00 -3.627064e-01
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## [18899,]  7.881184e-01 -5.117236e-01 -1.172885e-01  1.537025e+00
## [18900,]  8.357758e-01  6.317614e-01  9.226560e-01  1.730034e+00
## [18901,]  8.237035e-01 -1.881533e-01 -2.040773e+00 -1.675208e-01
## [18902,] -3.116178e+00  9.729889e-01 -5.214434e-01  1.648686e+00
## [18903,]  1.171015e-01  1.044277e-01  3.635500e-01 -4.239490e-01
## [18904,]  1.901212e-02  5.033311e-01 -1.942477e+00 -5.098956e-01
## [18905,] -7.643502e-01  2.330345e+00  1.136154e+00 -8.169655e-01
## [18906,]  2.935667e-01 -8.231768e-01 -5.660451e-01 -2.791619e-01
## [18907,]  3.217272e-01  4.018424e-01 -8.445721e-01 -5.057810e-02
## [18908,] -8.008474e-02  7.555271e-01 -5.708400e-01 -6.076563e-01
## [18909,] -1.319232e+00 -2.469255e-01  1.272109e+00 -7.386881e-01
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## [18911,]  2.438806e-01 -5.738982e-01 -1.306909e+00 -9.931174e-02
## [18912,]  1.366628e+00 -6.602186e-01  1.001638e+00  1.624568e+00
## [18913,]  1.723083e-01 -9.149358e-02 -3.546551e-01  1.686701e+00
## [18914,] -6.672599e-01 -1.407088e+00 -1.627083e+00 -7.048305e-01
## [18915,] -7.235245e-01 -3.308414e-01  4.994428e-01  9.447084e-01
## [18916,] -7.125492e-01 -1.851454e+00  1.365632e+00  1.246342e+00
## [18917,] -1.426361e+00 -2.246503e+00 -5.964983e-02  1.412449e+00
## [18918,] -5.624050e-01  1.281714e+00  9.653868e-01 -3.461152e-01
## [18919,]  7.457585e-01 -3.989429e-01  1.207232e+00 -6.547599e-01
## [18920,] -9.543245e-01  2.110280e-01  8.142086e-01 -5.670697e-03
## [18921,]  6.160671e-01  3.900828e-01  1.127583e+00 -5.565988e-01
## [18922,] -5.481176e-01  8.950172e-01 -3.555899e-01 -3.234224e-01
## [18923,]  2.599435e-01  1.368819e-02 -1.052644e-02 -8.543551e-02
## [18924,]  2.773897e-01 -6.321505e-02  1.083175e+00  1.624997e+00
## [18925,]  2.150624e-01 -1.144719e+00  1.191032e+00 -4.681209e-01
## [18926,] -1.927756e+00  8.610825e-01 -1.410731e+00 -3.261770e-01
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## [18930,] -7.653966e-01  1.621044e+00  6.443690e-01 -9.890599e-01
## [18931,] -6.417242e-01 -5.082973e-01 -1.521492e-01 -6.806286e-01
## [18932,] -6.916654e-01  1.243401e+00  1.107164e+00 -6.530126e-01
## [18933,]  7.688857e-01 -6.787478e-01  1.217660e+00 -7.226165e-01
## [18934,] -2.221317e+00  3.620766e-01  1.380105e+00 -1.031665e+00
## [18935,] -1.396516e+00 -1.074682e+00  1.103503e+00 -2.223662e-01
## [18936,] -5.699073e-01  6.260075e-01  9.064232e-01 -1.909083e-01
## [18937,]  1.034610e+00  1.356969e-01  8.641098e-01 -1.666548e-02
## [18938,] -1.493799e+00 -1.617348e+00 -2.337565e-01 -2.890741e-01
## [18939,] -9.459561e-01  1.826855e+00  1.234145e+00 -9.589855e-01
## [18940,]  6.029997e-01 -9.904915e-01  2.024205e-01 -6.717375e-01
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## [18950,] -1.012273e+00 -1.333854e+00 -5.583874e-03 -7.160621e-01
## [18951,] -7.158178e-01  7.945028e-01  1.062367e+00 -5.205641e-01
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## [18955,]  8.858145e-01  2.513168e-01 -4.104502e-01 -2.485169e-01
## [18956,] -1.301365e+00 -1.427869e+00  1.576469e-01  9.155842e-02
## [18957,]  7.826155e-01 -1.627302e-01  1.140084e+00 -6.310234e-01
## [18958,]  2.795190e-01 -2.868949e-01  8.864019e-01  4.235672e-02
## [18959,]  7.724731e-01 -6.510433e-01 -1.657227e+00 -7.046912e-01
## [18960,]  5.511476e-01 -1.392850e+00 -1.421530e+00  9.354362e-01
## [18961,]  9.964365e-01  1.571159e-01  4.745561e-01  1.855655e+00
## [18962,] -2.025508e-01  8.468997e-01 -9.766686e-01 -9.686112e-01
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## [18969,]  1.195925e+00 -6.276463e-01 -9.747794e-01 -1.043570e+00
## [18970,]  1.211202e+00 -5.150326e-01  8.512835e-01  1.247472e+00
## [18971,]  8.731820e-01 -2.516829e-01  6.124495e-01 -3.191883e-01
## [18972,] -2.947496e-01 -8.456805e-01  9.075572e-01  1.944301e+00
## [18973,] -1.451853e+00 -4.313916e-01  1.224847e+00 -6.387044e-01
## [18974,]  3.691317e-01 -5.792999e-01 -4.943623e-01 -1.670715e-02
## [18975,] -4.965836e-01  5.622983e-01 -3.495628e-01 -2.913124e-01
## [18976,]  4.765396e-02  1.397997e-01  2.216203e-01 -4.860713e-01
## [18977,]  1.289244e-01 -7.215750e-01 -1.676925e+00 -5.471242e-02
## [18978,]  6.836214e-01  1.504508e-01  9.088824e-01 -2.748755e-01
## [18979,]  6.055798e-01  4.698491e-01 -1.574997e+00 -6.452657e-01
## [18980,]  5.890539e-01  4.458947e-02  1.899770e-01 -5.526597e-01
## [18981,]  9.054674e-01 -9.505279e-01  3.109121e-01  1.362694e+00
## [18982,] -5.195779e-01 -1.497268e+00 -2.778716e-01  1.265344e+00
## [18983,] -2.657954e-01  6.954825e-02 -7.394052e-01  2.040136e+00
## [18984,] -5.345450e-02 -8.487249e-01  1.236657e+00  1.364041e+00
## [18985,]  7.507524e-01  1.263450e+00  8.038770e-01 -1.147695e-01
## [18986,]  1.220575e-01 -1.382775e+00 -6.263944e-01 -5.912896e-01
## [18987,] -5.994200e-01 -3.009462e-01  3.311916e-01 -1.119608e-01
## [18988,]  6.533815e-01  1.100776e+00  1.053900e+00 -6.742144e-01
## [18989,] -5.682419e-01 -1.103021e+00  1.084636e+00 -3.501144e-01
## [18990,] -1.917530e-01  3.897170e-01  1.087633e+00 -6.205314e-01
## [18991,] -1.199650e-01  1.121279e+00 -3.891161e-01 -8.890636e-01
## [18992,] -3.221789e+00 -8.474849e-01  1.087689e+00 -3.052535e-01
## [18993,]  9.913940e-02 -8.429594e-01 -1.767183e+00 -1.576869e-01
## [18994,] -5.019260e-02 -9.383697e-01  1.281126e+00 -7.027147e-01
## [18995,]  8.229290e-01 -1.154901e-01 -4.554624e-02  1.676290e+00
## [18996,]  1.047318e+00 -6.440952e-01  8.694997e-01 -5.002502e-02
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## [18997,]  1.437058e+00  7.449035e-01 -1.004077e+00  1.163453e+00
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## [18999,]  1.037024e+00 -2.524008e-01  8.497631e-01  5.446001e-02
## [19000,]  1.193120e+00  1.795826e-01 -1.263527e+00 -9.566028e-01
## [19001,] -2.706256e+00 -6.508627e-01 -1.724430e+00  1.396237e+00
## [19002,]  9.836048e-01 -7.317022e-02  8.273609e-01 -2.985342e-02
## [19003,] -1.804661e+00  6.687224e-01  1.267606e+00  1.076234e+00
## [19004,] -8.149737e-01  2.800247e-02 -1.075860e+00 -9.084868e-01
## [19005,]  7.395084e-01 -8.964072e-01  1.124708e+00 -4.952591e-01
## [19006,] -1.280237e-01  3.444927e-01  1.171673e+00 -7.246256e-01
## [19007,] -7.457776e-01  1.075224e+00 -1.894048e+00 -6.112244e-01
## [19008,] -9.679508e-01  2.155864e-01  1.363715e+00  8.940215e-01
## [19009,]  7.173789e-01  6.429964e-03 -7.463826e-01 -8.382677e-01
## [19010,]  1.065448e+00  3.902326e-01  6.015099e-01  8.732359e-02
## [19011,]  1.261935e-01 -5.167667e-01 -5.704768e-01 -3.701674e-01
## [19012,] -1.927321e+00 -4.085035e-01  1.116008e+00 -4.162312e-01
## [19013,] -4.288475e-01 -1.683418e-01  7.936670e-01  9.395082e-02
## [19014,] -5.710162e-01  2.318540e-01 -1.626981e+00  1.056646e+00
## [19015,] -8.101668e-01  2.784910e+00  1.262263e+00  1.025326e+00
## [19016,]  2.049594e-02  1.098236e+00 -1.404361e+00 -4.509219e-01
## [19017,] -4.685275e-01  1.772245e+00 -4.579833e-01  1.800167e+00
## [19018,] -7.006906e-01  1.074393e+00  4.573212e-01 -6.137067e-01
## [19019,] -3.518708e-01  7.267469e-01  3.370002e-01  8.029625e-01
## [19020,] -5.802307e-02  5.886973e-01 -4.695064e-01 -6.880851e-01
## [19021,] -8.770738e-01  1.547858e+00  1.358238e+00 -1.173365e+00
## [19022,]  5.708355e-01 -4.003870e-01 -8.489738e-02 -9.048912e-01
## [19023,]  7.844556e-02 -1.233864e+00 -1.110677e+00 -6.087198e-01
## [19024,]  1.219853e+00  8.849715e-01  4.518796e-01 -6.616853e-01
## [19025,] -1.351913e+00 -2.312878e-01 -6.706316e-01 -6.271462e-01
## [19026,]  3.300817e-02  1.545787e-01 -2.166900e-01 -5.972418e-01
## [19027,] -1.821548e-01  5.165718e-01  1.166366e+00 -8.168497e-01
## [19028,]  3.997825e-01  1.098369e+00 -1.671278e+00 -1.038263e+00
## [19029,] -1.400986e+00 -8.377919e-01 -5.625997e-01 -2.347471e-01
## [19030,]  6.959843e-01 -1.776397e-02 -3.814351e-01 -2.940046e-01
## [19031,]  6.707126e-01 -5.198093e-01 -1.690525e+00 -4.587992e-01
## [19032,] -2.343214e+00  6.160208e-01  1.203438e+00 -8.155687e-01
## [19033,]  1.364037e-01 -1.205130e+00 -1.025469e-01  1.411527e+00
## [19034,] -1.369546e+00 -9.087567e-02  7.995091e-01  8.531724e-03
## [19035,] -9.575637e-01 -5.373788e-01 -2.593112e-01 -4.617506e-01
## [19036,] -1.937058e+00  7.090806e-01  8.708879e-01  1.773038e-02
## [19037,]  1.332339e+00 -4.612882e-01 -1.764819e+00 -3.342200e-01
## [19038,] -1.512899e+00 -1.540468e+00 -1.425087e+00  1.234318e+00
## [19039,] -1.397997e+00  9.292605e-01  6.594682e-01 -3.703533e-01
## [19040,] -1.610024e-01 -6.532199e-01  1.464344e+00 -1.143302e+00
## [19041,]  7.170649e-01 -8.029276e-01  1.321912e+00  1.073596e+00
## [19042,] -3.275658e-02  1.789906e+00 -2.455019e-01 -7.846913e-01
## [19043,]  1.325089e+00  6.471172e-01 -6.198747e-01 -3.605079e-01
## [19044,]  2.063820e-01 -8.404792e-03  6.116775e-01  3.712713e-02
## [19045,] -8.682129e-01  2.150140e+00  1.078502e+00 -7.279901e-01
## [19046,]  4.213277e-01  3.364846e-01 -1.260235e+00 -9.712758e-01
## [19047,]  6.706352e-02 -6.437227e-01  1.126201e+00 -4.857262e-01
## [19048,]  5.813705e-01 -4.229039e-01 -9.794562e-01 -6.752952e-01
## [19049,] -4.205325e-01  6.461150e-01 -1.231301e+00 -3.413599e-01
## [19050,]  1.134756e+00  3.794974e-02  1.517260e-01  1.046299e+00
## [19051,]  1.138540e+00  2.414937e-01  1.130593e+00 -6.585630e-01
## [19052,]  9.739982e-01 -1.973411e-01  9.581354e-01 -1.930497e-01
## [19053,] -9.536479e-02 -2.773303e-01 -1.303881e-01 -5.225384e-01
## [19054,] -7.289752e-01  2.423088e+00 -1.782498e+00 -8.953328e-01
## [19055,]  7.400529e-01  3.942500e-01 -6.298915e-01 -3.904225e-01
## [19056,] -3.357568e+00  9.258359e-01  6.071507e-01 -4.100139e-01
## [19057,]  2.410535e-01  2.514256e-01  7.673558e-01  1.368186e-01
## [19058,] -1.327095e+00 -2.052505e-01 -1.676253e+00 -6.270800e-01
## [19059,]  1.983238e-01  7.477185e-01 -7.031549e-01 -3.047878e-01
## [19060,]  3.011938e-01 -9.734931e-01  1.070162e+00  1.610476e+00
## [19061,]  5.429137e-01 -1.074314e+00  1.523518e-01 -1.037837e+00
## [19062,]  6.110874e-02 -1.521143e+00 -2.450249e-01 -6.311142e-01
## [19063,]  5.097672e-01 -1.543531e-01 -1.126341e+00 -8.124898e-01
## [19064,] -1.852701e-01  1.057751e+00  1.493411e+00 -1.388805e+00
## [19065,] -1.158801e+00 -2.285382e-01 -1.169288e+00 -3.853489e-01
## [19066,] -2.342839e-01  1.109009e+00  1.371984e+00  6.015280e-01
## [19067,] -1.642495e+00  3.918428e-01  1.457184e+00 -1.214671e+00
## [19068,] -2.701848e+00  2.235086e+00 -1.835725e+00 -4.561778e-01
## [19069,] -1.376697e+00  7.322417e-01 -8.548972e-02 -1.376885e+00
## [19070,]  6.025358e-02 -5.893907e-01 -1.379493e-01  1.354118e+00
## [19071,] -1.642279e+00  7.109607e-01 -3.601409e-01  1.396452e+00
## [19072,] -2.496370e+00  1.462555e-03  7.487806e-01  6.823171e-02
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## [19079,]  3.037863e-02  5.733302e-01  1.244027e+00  1.210648e+00
## [19080,] -5.177043e-01 -1.350485e-01 -1.911049e-01 -1.365170e-01
## [19081,]  1.580721e-02 -6.340321e-01 -1.620036e+00 -8.010612e-01
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## [19083,]  8.992389e-01 -7.312161e-02  9.647125e-01 -3.335094e-01
## [19084,]  6.126017e-01  4.202597e-01  1.733869e-02  1.368515e+00
## [19085,] -2.079975e+00 -2.850030e-01 -2.876288e-01 -4.670480e-01
## [19086,] -1.860117e+00  7.373424e-01 -4.710559e-01 -1.282200e-01
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## [19088,]  4.273461e-02 -2.459955e-01 -6.470773e-01 -2.017217e-01
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## [19091,] -4.310525e-01 -9.985559e-01 -1.358629e+00 -2.817350e-01
## [19092,]  1.274483e-01  1.046818e-01 -1.186284e+00 -3.216169e-01
## [19093,]  7.976517e-01 -3.028690e-01  1.012875e+00  1.645127e+00
## [19094,]  9.357587e-01 -1.219550e-01  4.683309e-01  1.561541e+00
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##  [19101,] -3.747621e-01 -9.725843e-01 -1.617183e+00 -1.456216e-01
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##  [19105,]  1.906894e-01  3.105105e+00 -1.491698e+00  1.632466e+00
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##  [19118,]  1.155033e-01 -9.904272e-01 -1.598406e+00  1.462174e+00
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##  [19135,]  4.520724e-01 -2.575020e-01 -3.387798e-01 -9.408046e-01
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##  [19146,] -2.246541e-01  9.376248e-01  1.234856e+00 -9.834659e-01
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##  [19148,] -1.481716e+00 -1.550318e+00  1.152175e+00  1.645296e+00
##  [19149,] -7.892423e-01  1.471883e-01  7.651097e-01 -8.093593e-01
##  [19150,] -3.731582e-01  1.982505e+00  6.421059e-01  3.381406e-02
##  [19151,]  7.846614e-01  2.719577e-01 -1.862981e-01 -5.114874e-01
##  [19152,] -2.093834e+00 -1.023705e+00  1.351368e+00  1.169494e+00
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##  [19156,]  1.532318e-01 -1.289678e+00 -2.059068e-01  1.564210e+00
##  [19157,] -2.604973e+00  8.771389e-01 -1.394113e+00 -3.429375e-01
##  [19158,]  8.440444e-01  4.653224e-01 -1.302444e-01 -3.330512e-01
##  [19159,]  1.983798e-01  3.393226e-01 -5.947948e-01 -3.854442e-01
##  [19160,] -9.293464e-01 -4.419545e-01 -5.689858e-02  1.115681e+00
##  [19161,] -3.801170e-01  4.617720e-01 -4.803583e-01 -1.129598e-01
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##  [19163,]  7.134891e-01 -3.383720e-01  1.188878e+00  1.504661e+00
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##  [19165,]  6.796505e-01 -6.108503e-02  9.172561e-02 -3.475515e-01
##  [19166,] -8.290827e-02 -1.560926e+00  1.422805e+00  1.189232e+00
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##  [19170,] -1.953258e+00 -1.799371e-01 -4.577833e-01 -6.933447e-03
##  [19171,] -1.448073e+00 -1.158979e+00 -7.539603e-02 -1.409792e-01
##  [19172,]  4.171048e-01 -1.932576e-01  7.087445e-01  2.927687e-01
##  [19173,]  3.031159e-01 -5.621320e-01 -1.975982e+00 -2.308093e-01
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##  [19183,] -8.754503e-01  5.216533e-01 -1.372634e+00  1.103488e+00
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##  [19189,]  6.904585e-01  7.025190e-01 -4.241523e-01 -3.811771e-01
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##  [19191,] -2.959354e-01  9.931015e-01  7.520050e-01  5.336170e-02
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##  [19195,]  7.257016e-01 -2.671374e-01 -6.752188e-01 -3.744395e-01
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##  [19199,]  1.271931e+00  3.001031e-01  1.052939e+00 -3.645407e-01
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##  [19202,]  3.616726e-02  4.886369e-01  8.131135e-01 -6.852068e-02
##  [19203,]  7.908353e-01  1.704194e-01  1.064835e+00 -2.959683e-01
##  [19204,] -4.080025e-02 -1.222300e+00  7.962657e-01  8.717692e-01
##  [19205,]  1.325645e+00  1.160271e-01  8.939910e-01 -2.164347e-01
##  [19206,]  1.992179e-01  2.381778e-01 -1.888894e+00  1.817764e+00
##  [19207,]  9.820370e-01  2.227797e+00  6.513725e-02 -1.098538e+00
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##  [19218,] -1.679067e+00 -7.514952e-02  1.315404e+00 -8.235091e-01
##  [19219,]  5.684790e-01 -4.854710e-01  2.767502e-02 -7.090468e-01
##  [19220,] -3.391610e-01  3.303340e-01 -9.476289e-02 -3.113166e-01
##  [19221,] -1.291346e+00  4.116875e-01 -5.913506e-02 -6.398233e-01
##  [19222,] -1.224699e+00  7.415079e-01 -3.841619e-01  1.349086e+00
##  [19223,] -6.798881e-02 -1.290167e+00 -2.659735e-01 -6.288758e-01
##  [19224,] -4.191244e-01  1.298365e+00  5.514855e-02  4.795944e-01
##  [19225,]  3.727042e-01  8.041106e-01  8.313694e-01  2.178387e+00
##  [19226,] -2.051932e+00  2.982085e-01  1.160050e+00 -6.257538e-01
##  [19227,]  6.461585e-01 -2.297356e-01  4.121399e-01 -5.602630e-01
##  [19228,] -6.722909e-01  1.775565e+00  1.299543e+00 -9.479094e-01
##  [19229,] -8.356012e-02  2.460315e-01 -1.549536e-01 -6.627905e-01
##  [19230,]  7.157156e-01 -3.541162e-01 -3.333077e-01 -4.398412e-01
##  [19231,] -5.132613e-01  1.052725e+00 -3.251902e-01 -4.760707e-01
##  [19232,] -1.387722e+00  2.287304e-01  6.807969e-01  1.269705e-01
##  [19233,]  7.774220e-02 -1.381747e+00  1.319057e+00 -6.752180e-01
##  [19234,]  7.860729e-01 -1.761099e-01  9.539557e-01  1.741625e+00
##  [19235,]  8.738185e-01 -8.564453e-01 -1.083268e+00  1.401794e+00
##  [19236,] -6.736720e-01  2.335030e+00  1.011796e+00 -6.840089e-01
##  [19237,] -1.487878e+00  1.979651e-01 -1.521561e-01 -6.649236e-01
##  [19238,] -1.288572e+00 -1.602773e+00 -3.445763e-01  1.830161e+00
##  [19239,]  8.268871e-02 -3.897760e-01 -1.306930e+00 -1.169892e-01
##  [19240,]  8.955056e-01 -7.069881e-02  7.749792e-01 -2.519146e-01
##  [19241,] -4.516710e-01 -2.100643e-01 -1.650629e+00 -2.300489e-01
##  [19242,]  7.915166e-01 -2.893713e-01 -6.052106e-01  1.596456e+00
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##  [19244,]  7.103993e-01  2.272275e-03 -1.219654e+00 -3.957907e-01
##  [19245,]  1.032948e-01 -4.492188e-01  8.338504e-01 -1.159266e-02
##  [19246,] -5.303215e-01 -1.243396e+00  1.136261e+00  1.550556e+00
##  [19247,] -4.154602e-01 -5.989780e-01  8.341983e-01  7.490214e-02
##  [19248,] -2.472332e+00  1.933204e+00 -9.243787e-01  2.137707e-01
##  [19249,]  5.880852e-01  6.018823e-01  1.239410e+00 -6.355304e-01
##  [19250,] -1.623538e+00  5.360545e-01 -4.406683e-01 -6.591433e-01
##  [19251,]  3.624999e-02 -6.961758e-01 -5.118084e-01 -5.939706e-01
##  [19252,] -5.790822e-01  3.644311e+00 -5.854666e-01 -3.583995e-01
##  [19253,]  7.287982e-01 -1.173829e+00  1.243759e+00  1.030027e+00
##  [19254,]  1.295348e+00  1.393996e-01 -1.607791e+00  1.328386e+00
##  [19255,]  4.591148e-01  7.084963e-01 -7.043718e-01 -7.960204e-01
##  [19256,] -7.172197e-01 -1.484838e+00  1.240542e+00 -5.467440e-01
##  [19257,]  1.893725e-01  1.390447e-02 -2.112396e+00  1.990090e+00
##  [19258,] -1.645167e+00 -5.734967e-01 -1.722280e+00 -6.838482e-01
##  [19259,] -4.480590e-01  3.033567e-01  9.130034e-01 -1.735497e-01
##  [19260,]  5.886007e-02  9.737222e-02 -1.579776e-01  1.103989e+00
##  [19261,]  8.593775e-01  9.461818e-02  8.859092e-01 -1.437454e-02
##  [19262,]  3.298960e-01 -3.006700e-01  8.827018e-01  1.906652e+00
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##  [19264,] -1.032653e+00 -1.292562e+00 -1.406069e+00 -7.998376e-01
##  [19265,]  1.867556e-01  3.685086e-01  8.473275e-01  1.039242e-02
##  [19266,] -7.049627e-01 -7.404458e-01  4.443141e-03 -8.768053e-01
##  [19267,] -4.213789e-01 -6.176932e-01  1.061889e+00  1.657471e+00
##  [19268,]  1.379040e+00  1.240074e+00  1.042201e+00 -6.669059e-01
##  [19269,]  2.051531e-01  1.831976e-01 -6.116490e-01 -3.643094e-01
##  [19270,] -6.650867e-01 -5.643911e-01 -1.001966e-01 -7.488867e-01
##  [19271,] -1.439496e+00  2.092145e+00 -4.269787e-01  1.039132e+00
##  [19272,]  6.620492e-01 -2.324393e-01  1.127242e+00 -5.110630e-01
##  [19273,]  2.042460e-01 -1.110642e+00  1.148821e+00 -3.469093e-01
##  [19274,] -3.119274e-02 -6.552443e-01 -1.615777e+00 -4.536965e-01
##  [19275,]  1.633125e-01  1.440086e-01 -1.614182e+00  1.621715e+00
##  [19276,] -2.008005e+00  7.035173e-01 -2.024930e+00  5.051951e-02
##  [19277,]  4.653708e-01 -9.850412e-02 -9.691702e-02 -8.535042e-01
##  [19278,]  5.322637e-01  2.323840e+00 -3.713178e-01 -8.620058e-01
##  [19279,]  2.344591e-01  3.509565e-03 -1.219429e+00 -3.213887e-01
##  [19280,]  3.447508e-01 -1.511384e-01 -2.057838e-01  2.274494e-01
##  [19281,]  6.179204e-01  1.042643e+00  8.634799e-01 -3.236581e-01
##  [19282,] -1.562171e+00  1.419385e+00 -1.779600e-01 -8.925508e-01
##  [19283,] -5.800324e-01  1.508363e+00  8.093517e-01 -1.129007e-01
##  [19284,]  1.236010e+00  1.097903e+00  1.293871e+00  1.213478e+00
##  [19285,] -1.346048e+00 -1.382561e+00 -1.529628e+00  1.767466e+00
##  [19286,]  6.210021e-01 -1.524873e-01  1.028879e+00 -4.621341e-01
##  [19287,]  1.505069e-01  2.768770e-02  7.747351e-01  1.366022e-01
##  [19288,]  9.483214e-01 -8.677216e-01  1.013805e+00  1.632087e+00
##  [19289,] -1.124536e-01 -1.450308e+00  5.093244e-01  1.123314e+00
##  [19290,] -3.161363e+00 -1.108368e+00  1.240415e+00 -5.253203e-01
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## [19291,] -3.624868e-02  2.611002e-02  1.143948e+00 -7.362374e-01
## [19292,] -9.610679e-01  1.307482e+00  1.909636e-01  2.562675e-01
## [19293,] -4.346708e-01  7.020599e-01  1.306912e-01 -1.128772e-01
## [19294,]  1.403958e+00  3.256793e-01  1.567777e-01 -1.648165e-01
## [19295,]  3.313570e-01 -1.465886e-01  7.371270e-01  2.068760e-01
## [19296,]  1.728096e-01 -1.528415e-01 -1.479094e+00 -2.155440e-01
## [19297,]  5.208107e-01 -3.959074e-01 -9.453128e-02 -7.667579e-01
## [19298,] -8.039437e-01 -5.480769e-01 -1.349460e+00 -6.956628e-01
## [19299,] -6.378322e-01 -1.884239e-01 -2.296173e-01 -6.226450e-01
## [19300,] -1.353170e+00  1.863435e+00 -2.097660e+00 -2.019430e-01
## [19301,] -1.345647e+00  6.339542e-01 -1.883471e+00 -5.301799e-01
## [19302,]  1.656761e-01  7.273620e-01 -2.005081e+00 -3.977344e-01
## [19303,] -1.551713e+00 -1.442288e+00 -1.740222e+00 -4.670847e-01
## [19304,]  9.654090e-01 -5.088761e-01  1.030525e+00 -2.578947e-01
## [19305,] -5.155506e-01  7.318716e-01 -4.662168e-01 -7.867195e-02
## [19306,]  6.710337e-01 -3.731848e-01 -1.854534e+00 -4.572513e-01
## [19307,]  6.307883e-01  1.454283e+00 -3.947717e-01 -4.004865e-01
## [19308,] -1.890496e-01  5.694580e-01 -1.066042e+00 -1.109720e+00
## [19309,] -1.817263e+00 -1.245663e+00 -4.542190e-01 -6.115096e-02
## [19310,] -9.447995e-01  1.070913e+00  1.315831e+00 -1.040097e+00
## [19311,] -1.818615e-02 -8.493735e-01  1.211484e+00 -6.088590e-01
## [19312,]  6.123360e-01  1.028257e-02  8.896151e-01 -4.857799e-01
## [19313,] -5.934602e-01 -1.652103e+00 -1.556923e+00  1.252387e+00
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## [19315,]  8.485182e-01  1.338378e-01  2.880183e-01 -3.604771e-01
## [19316,]  2.477992e-01 -1.127918e+00  1.131592e+00  1.472660e+00
## [19317,]  2.173223e-01 -2.496013e-01 -5.551119e-01 -2.122976e-01
## [19318,]  8.926963e-01 -1.550207e-01 -8.612414e-01  1.302468e-01
## [19319,] -9.137531e-01  1.462528e+00 -6.705670e-01 -4.760518e-01
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## [19321,]  1.313537e+00  4.834531e-01  9.065992e-01 -5.715221e-01
## [19322,] -2.054941e+00  4.219556e-01 -1.414250e-01  1.204211e+00
## [19323,] -8.552775e-01  1.676394e+00 -2.137183e+00 -3.149465e-01
## [19324,] -6.900775e-01 -1.437265e-01 -1.923119e-01 -5.564072e-01
## [19325,] -1.681672e-01  1.237980e+00 -5.016908e-01 -7.031333e-01
## [19326,] -1.195261e+00 -8.879943e-01 -1.383058e-01 -6.684975e-02
## [19327,]  6.165913e-01 -7.800557e-01 -9.002194e-02 -8.405333e-01
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## [19331,]  9.570623e-01 -3.518166e-01 -1.105383e+00 -1.771513e-01
## [19332,]  5.214149e-01  3.418444e-01  1.227234e+00 -8.707855e-01
## [19333,] -9.062259e-01 -1.194368e+00 -3.865226e-01  1.369415e+00
## [19334,] -1.172189e+00  1.438293e+00 -5.203696e-01 -2.364446e-01
## [19335,]  7.131850e-02 -5.917882e-01 -2.816397e-01 -1.642119e-01
## [19336,] -7.557958e-01 -1.125728e+00  9.371743e-01 -4.305152e-02
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## [19343,] -1.123477e-01 -1.325485e+00  1.244751e+00 -6.435452e-01
## [19344,] -7.841134e-01 -1.131742e+00 -1.678206e+00  1.315142e+00
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## [19346,] -1.433767e-01  5.111484e-03 -7.021214e-02 -8.276833e-01
## [19347,]  4.795536e-02 -6.412482e-01 -9.905854e-02 -5.772401e-01
## [19348,] -1.208060e+00 -1.448823e+00  8.681076e-01  2.039861e-01
## [19349,]  9.300499e-01 -7.405198e-01 -1.774278e-01 -3.017604e-01
## [19350,]  4.931886e-01  1.187992e+00 -1.220073e+00 -1.140051e+00
## [19351,]  5.014607e-01  1.370566e+00 -1.700458e+00 -8.334029e-01
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## [19359,]  2.470921e-01 -6.037382e-01  1.055968e+00 -3.185493e-01
## [19360,]  1.724275e-01 -3.206571e-01 -6.053067e-02 -1.526670e-01
## [19361,]  3.341473e-01  2.434158e-01  6.352931e-01  2.763112e-01
## [19362,] -6.720947e-01 -2.924410e-01  2.402397e-01 -5.358080e-01
## [19363,] -7.037718e-01 -1.251937e+00  1.167553e+00 -4.778211e-01
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## [19370,]  2.987511e-01  1.177055e-01 -4.589731e-01 -1.171566e-01
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## [19376,] -2.196375e+00 -8.553062e-01  3.612726e-01 -5.844302e-01
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## [19387,] -1.403024e+00 -1.366160e-01 -7.260838e-01  1.085646e+00
## [19388,] -1.834619e+00 -6.640437e-01 -3.153879e-01 -9.429681e-01
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##  [19391,]  9.274008e-02  8.112427e-01  1.544418e-01 -5.398388e-01
##  [19392,]  8.609782e-03 -1.341656e+00  1.831429e-01  8.352659e-01
##  [19393,] -4.818711e-01 -7.790445e-01 -1.093367e+00 -1.455449e-01
##  [19394,] -2.476118e+00 -1.346115e-01 -1.984125e+00 -1.986875e-01
##  [19395,]  1.063636e-01 -8.168366e-01 -4.009888e-01  1.771388e+00
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##  [19400,] -1.049259e-02  1.510491e+00  1.012408e+00 -5.750275e-01
##  [19401,] -4.940236e-01 -9.436662e-01 -3.136365e-01 -4.188231e-01
##  [19402,] -6.503911e-01  2.127440e-01  1.406997e+00 -1.055669e+00
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##  [19404,]  9.142594e-01 -1.830417e-01 -2.150075e-01 -3.687450e-01
##  [19405,]  8.639608e-01  1.141599e+00  1.289978e+00 -1.189695e+00
##  [19406,]  3.205890e-01  1.025329e-03 -2.056168e+00 -1.275186e-01
##  [19407,]  1.136603e-01 -1.301743e+00  1.027899e+00 -5.638629e-01
##  [19408,] -3.272556e-01 -7.773645e-01 -1.530887e+00 -1.028134e-03
##  [19409,] -3.301553e+00  9.235474e-04  1.202728e+00 -7.077030e-01
##  [19410,]  2.389805e-01 -1.121617e+00 -1.906207e-01 -2.801913e-01
##  [19411,] -9.778475e-01  1.381725e+00  1.258559e+00 -1.062559e+00
##  [19412,] -1.138770e+00  4.878545e-01 -1.570848e+00 -1.157551e+00
##  [19413,] -1.065875e+00 -9.971966e-01 -5.906688e-01  2.580751e-01
##  [19414,]  4.228873e-01  1.804459e+00 -8.109594e-02 -9.837424e-01
##  [19415,] -1.854646e+00 -7.064578e-02  9.912092e-01 -2.049664e-01
##  [19416,] -4.561533e-01  1.811349e+00 -1.314429e+00 -2.084774e-01
##  [19417,] -1.263917e+00  3.045224e-02  9.522570e-01 -1.397848e-01
##  [19418,]  2.896267e-01 -4.698463e-02 -1.290445e-01 -1.822918e-01
##  [19419,]  7.254913e-01  2.653008e-01 -4.010296e-01 -6.875538e-01
##  [19420,]  3.840180e-02  7.185590e-01 -4.827499e-01 -6.989340e-01
##  [19421,] -4.870564e-01 -9.899910e-01 -1.514727e+00  1.629377e+00
##  [19422,]  7.574822e-01 -6.608413e-01 -2.618063e-01 -3.509230e-01
##  [19423,]  8.365307e-01 -1.523771e+00  1.278502e+00 -6.720022e-01
##  [19424,] -9.565555e-01 -1.423478e+00  4.020764e-01 -6.081829e-01
##  [19425,]  9.408387e-02 -1.214819e-01  8.313768e-02  1.775484e+00
##  [19426,] -4.742573e-01  2.556500e+00 -4.934051e-01 -6.337104e-02
##  [19427,]  5.335214e-01  2.071317e+00  9.147156e-01 -5.226865e-01
##  [19428,]  8.836795e-02  2.402341e-02  9.369471e-01 -6.109747e-01
##  [19429,] -7.721188e-02  1.953131e-01  9.092290e-01 -7.672660e-01
##  [19430,] -2.103192e+00  7.980629e-01 -1.880423e-01  1.152819e+00
##  [19431,] -2.338827e+00  1.191155e+00  1.059957e+00 -6.255266e-01
##  [19432,]  1.343013e+00  5.079519e-01  1.501035e-01  9.057904e-01
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##  [19436,]  5.024517e-02 -1.082766e+00  3.809704e-01 -7.148364e-01
##  [19437,] -8.234726e-01 -4.876497e-01  3.744581e-02 -9.244174e-01
##  [19438,]  5.878553e-01  3.631147e-01  1.206037e+00 -7.310370e-01
##  [19439,]  7.356033e-01  6.931516e-01 -5.859745e-01 -1.468201e-01
##  [19440,]  1.248105e+00  4.106669e-01 -1.731503e-01 -7.974661e-01
##  [19441,]  3.532417e-01  3.832690e-01  4.404189e-01 -1.261936e+00
##  [19442,] -6.103119e-01 -7.714842e-01  1.207117e+00 -6.307499e-01
##  [19443,] -1.928466e+00  1.742173e+00  1.570956e-02 -1.264751e+00
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##  [19446,] -1.387208e+00  3.563671e-01  1.053919e+00 -3.692675e-01
##  [19447,] -1.333076e+00 -1.162942e+00 -1.694569e+00  1.356623e+00
##  [19448,] -9.441171e-03 -1.161071e+00 -1.415619e+00 -8.039370e-01
##  [19449,] -4.460781e-01  7.308981e-01  1.200312e-01  1.879623e+00
##  [19450,] -1.716610e+00  6.899316e-01  1.511970e+00 -1.358165e+00
##  [19451,]  2.187290e-01 -4.966242e-01 -2.071773e+00 -5.444107e-02
##  [19452,]  1.484259e-01  1.436214e+00 -7.809345e-01 -2.006321e-01
##  [19453,] -1.496084e-02 -2.021669e+00  2.630476e-01  8.368458e-01
##  [19454,]  5.786880e-01 -1.698224e+00  5.568468e-02 -7.998197e-01
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##  [19457,] -2.126613e+00  1.245282e+00 -5.311043e-01 -2.192204e-01
##  [19458,] -1.365035e+00 -1.600532e+00 -3.374284e-02  1.284611e+00
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##  [19460,] -6.120306e-01  5.876577e-01  1.667031e-01 -5.500821e-01
##  [19461,]  7.571707e-01  3.902116e-02 -1.574424e+00 -4.005564e-01
##  [19462,]  1.299286e-01 -1.246835e+00 -3.518731e-01 -5.817750e-01
##  [19463,]  8.551846e-02  1.141898e+00 -5.198252e-01 -5.698635e-01
##  [19464,] -2.765674e+00 -1.296792e+00  1.393510e+00  1.138447e+00
##  [19465,]  1.099960e+00  4.091300e-01  7.343904e-01  1.772392e-01
##  [19466,]  1.378930e-01 -1.263323e+00  1.246371e+00  1.331527e+00
##  [19467,] -8.267912e-01 -2.271560e-02 -3.394922e-02 -9.514562e-01
##  [19468,]  8.050387e-01 -7.539983e-01  9.415542e-01 -1.128495e-01
##  [19469,] -8.542631e-01  1.099290e+00  4.934515e-02 -1.185726e+00
##  [19470,] -1.429565e+00  9.777767e-01 -2.618504e-01 -6.341216e-01
##  [19471,] -4.293735e-02 -1.238448e+00 -5.972296e-02 -7.237379e-01
##  [19472,]  5.088360e-01 -7.720548e-01 -7.311863e-03 -9.915873e-01
##  [19473,] -4.814505e-01  1.412740e+00 -6.207807e-01 -4.049498e-01
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##  [19478,] -5.893760e-01  5.078516e-01 -2.804266e-01 -9.274635e-01
##  [19479,] -1.215241e+00  2.522093e-01 -1.468088e+00  2.615715e-02
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##  [19483,] -9.464638e-01  1.391350e-01  1.306976e+00  9.506644e-01
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##  [19485,] -1.366087e+00  1.239114e+00  1.074027e+00 -6.538457e-01
##  [19486,] -1.870794e-01  1.409762e+00 -1.781651e+00 -9.062674e-01
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##  [19488,] -2.507310e-02  1.257834e+00 -4.306252e-01 -5.211967e-01
##  [19489,]  8.704214e-01 -3.451525e-01  1.032000e+00 -4.335210e-01
##  [19490,] -1.260913e+00  8.601881e-01 -1.418084e+00  1.120723e+00
##  [19491,]  2.276664e-01  1.402004e-02 -1.710175e+00 -1.711327e-01
##  [19492,]  7.480724e-02 -1.934334e-01 -3.945633e-01 -2.989181e-01
##  [19493,] -6.453134e-01  7.274668e-01  2.230840e-01 -8.713312e-01
##  [19494,]  8.038254e-01 -1.791938e-01  2.217299e-01 -1.795199e-01
##  [19495,]  5.937131e-01 -5.294717e-01 -1.387487e+00 -6.500855e-01
##  [19496,] -1.965790e+00  5.717457e-01 -8.358378e-02 -4.036310e-01
##  [19497,]  7.132300e-01  5.166285e-01 -7.046173e-01 -2.292508e-01
##  [19498,]  6.267077e-01  8.359286e-01  5.957904e-01 -3.618901e-01
##  [19499,] -1.118365e+00  7.000487e-01  3.749669e-01 -1.618403e-01
##  [19500,]  1.481307e+00 -3.443274e-01  9.127379e-01  1.796991e+00
##  [19501,]  5.802624e-01  8.082068e-01 -9.352566e-01 -7.155147e-01
##  [19502,] -2.624467e+00 -1.030047e+00 -6.178620e-02 -6.246202e-01
##  [19503,] -2.578314e-01 -1.178045e+00  7.450868e-02 -9.925934e-01
##  [19504,] -4.719930e-01 -1.359066e+00 -1.463463e+00  1.614325e+00
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##  [19506,] -9.966274e-02 -3.635588e-01 -1.037040e+00 -1.011524e+00
##  [19507,]  7.097233e-01 -9.362521e-01  1.191123e+00  1.363698e+00
##  [19508,] -5.627255e-01 -1.892217e+00  8.515420e-02  1.145742e+00
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##  [19510,] -1.634715e+00  1.251347e-01  6.567518e-02 -1.035575e+00
##  [19511,]  4.318190e-01  2.360980e-01 -2.105872e+00  4.077548e-01
##  [19512,]  1.417836e+00  3.904870e-01  1.160961e+00 -6.937076e-01
##  [19513,]  8.079542e-01  2.689106e-01 -2.654972e-01 -4.513046e-01
##  [19514,] -1.712701e+00  5.112897e-01  1.202565e+00 -7.645684e-01
##  [19515,] -6.835832e-01 -3.393373e-01 -1.511100e+00  1.946846e-01
##  [19516,] -6.631607e-01 -1.387102e+00 -1.589562e+00 -4.623628e-01
##  [19517,]  8.089474e-01  3.957844e-01  1.036029e+00 -5.022653e-01
##  [19518,]  7.910916e-01  8.281274e-02 -6.827562e-01 -6.109226e-02
##  [19519,] -1.565472e+00  1.438105e+00 -1.558209e+00 -1.197539e+00
##  [19520,]  4.617198e-01  4.392682e-01  8.573213e-01 -8.070426e-01
##  [19521,] -2.320625e+00 -1.481346e-02  1.325952e+00 -8.597414e-01
##  [19522,] -7.015906e-02  7.587517e-01 -5.003975e-01  1.254921e+00
##  [19523,]  7.050329e-02 -1.761516e+00  1.425781e+00  1.099911e+00
##  [19524,]  5.584786e-01  1.485107e-01  1.149015e+00 -6.949631e-01
##  [19525,]  7.568867e-01 -6.255200e-01 -1.683021e+00 -7.244808e-01
##  [19526,] -2.379623e+00  3.292244e-01 -1.665300e-02  1.022961e+00
##  [19527,]  6.605121e-02 -5.550545e-01 -2.059031e-01 -4.979288e-01
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##  [19529,] -3.704043e-01  9.122191e-01  8.901465e-01  1.796253e+00
##  [19530,] -4.419455e-01  1.240275e+00 -7.653635e-02 -1.722237e-01
##  [19531,] -4.479994e-01 -9.582494e-01  5.978434e-02 -7.968881e-02
##  [19532,] -4.558618e-01  1.042327e+00  1.318927e+00 -1.174186e+00
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##  [19534,] -2.559145e-01 -2.585280e-01 -1.789220e+00  4.464362e-01
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##  [19538,] -6.820517e-02 -3.003423e-01 -8.741506e-03 -7.101865e-01
##  [19539,]  3.302014e-01  5.480309e-02 -1.746271e+00 -7.894108e-02
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##  [19544,]  1.304137e-01 -1.096262e+00 -7.881522e-02 -6.696829e-01
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##  [19548,]  9.991313e-01  1.867392e-01  8.314988e-01 -7.137184e-02
##  [19549,] -5.232302e-01 -1.027813e+00 -3.534016e-01  1.318633e+00
##  [19550,]  2.651343e-01 -1.156144e+00 -2.634637e-01  1.635407e+00
##  [19551,]  9.309913e-01  1.681064e-01 -6.136168e-01  1.739579e-01
##  [19552,]  6.652043e-01 -9.042697e-01  1.246663e+00 -6.848304e-01
##  [19553,] -2.457016e-02 -1.985334e+00 -6.212751e-02  1.046259e+00
##  [19554,]  6.925533e-01  4.915994e-01 -4.560593e-01 -3.811486e-01
##  [19555,] -2.844742e-01 -9.341909e-01 -6.117669e-01  2.186015e+00
##  [19556,]  8.121984e-01 -8.944325e-02 -1.088864e+00 -6.057250e-01
##  [19557,] -5.206057e-01  6.949266e-01 -8.564958e-01 -6.366349e-02
##  [19558,] -1.530382e-01  1.565376e+00  6.738670e-01  8.525596e-01
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##  [19561,] -6.370232e-01 -1.035221e+00 -4.115059e-01 -5.609023e-01
##  [19562,] -9.807508e-01 -1.336900e+00 -2.846047e-02  1.208075e+00
##  [19563,]  1.311530e+00 -1.642331e-01 -1.072062e+00 -3.949036e-01
##  [19564,] -6.729224e-01 -4.352467e-01  1.040120e+00  1.541017e+00
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##  [19567,]  1.722314e-01 -3.323804e-01  1.077767e+00 -4.538859e-01
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##  [19570,]  5.007843e-01 -6.002285e-01  1.276139e+00 -8.178617e-01
##  [19571,]  1.247625e+00 -6.594012e-01 -2.094741e-01 -5.229446e-01
##  [19572,] -1.552252e+00  9.451280e-01 -4.093272e-01 -3.790047e-01
##  [19573,] -7.279655e-01  2.403343e+00 -1.887885e+00 -6.789254e-01
##  [19574,] -1.727613e+00  2.031904e+00  9.983617e-01 -6.553157e-01
##  [19575,]  3.259728e-02  2.908890e-01  1.140209e+00  1.452971e+00
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##  [19577,]  8.853416e-01 -8.013260e-01 -3.598327e-01 -1.645253e-01
##  [19578,]  7.876520e-01 -7.851334e-01  1.171455e+00  1.445472e+00
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##  [19581,] -1.182457e+00 -9.051602e-01 -4.824778e-01 -2.653599e-03
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##  [19586,] -2.979683e+00  5.658011e-01  1.096920e+00 -1.122056e+00
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##  [19591,]  8.454533e-01 -4.384124e-01  9.148048e-01 -1.799767e-01
##  [19592,]  6.299929e-01  7.576321e-01 -7.682404e-01 -3.665375e-01
##  [19593,] -1.467284e+00 -4.054233e-01 -1.598830e+00 -7.657455e-01
##  [19594,] -2.095983e+00 -2.619220e-01 -2.586987e-01 -3.635821e-01
##  [19595,]  9.091844e-01  3.005073e-02  1.936333e-01 -2.155009e-01
##  [19596,] -3.175640e-01 -4.414087e-01 -1.579581e+00  5.945060e-02
##  [19597,]  9.603087e-01  7.157036e-02 -6.516055e-01 -1.515577e-01
##  [19598,]  7.167183e-01  2.895115e-02 -2.176288e-01 -4.729315e-01
##  [19599,] -2.097138e+00 -3.316514e-01  9.987012e-01 -2.386338e-01
##  [19600,]  7.441957e-01  4.313708e-01  9.314435e-01 -2.326594e-01
##  [19601,]  9.107457e-01  1.712277e-01 -1.433575e+00 -3.392370e-01
##  [19602,]  7.446019e-01 -5.578024e-01 -1.460069e-02 -3.750636e-01
##  [19603,]  5.305627e-02 -4.473527e-01 -1.236165e+00  1.650003e+00
##  [19604,]  9.437835e-01 -1.498777e-01 -3.379679e-01  1.521971e+00
##  [19605,] -4.945326e-02 -1.870957e+00  3.317666e-02  9.721617e-01
##  [19606,]  6.239452e-01  1.053163e+00 -1.951563e+00 -4.126114e-01
##  [19607,]  6.304893e-01  5.305171e-01 -6.195439e-01  8.385016e-01
##  [19608,]  2.452469e-01 -8.975919e-01  1.073950e+00 -3.497691e-01
##  [19609,] -7.505299e-01 -1.206371e+00  1.352193e+00 -8.101853e-01
##  [19610,] -1.326699e+00  5.228452e-01 -1.043660e-01 -2.604898e-01
##  [19611,] -2.986919e-01 -4.768889e-01  7.103565e-01  1.965183e+00
##  [19612,] -1.880337e+00 -4.933914e-01  8.768795e-01 -3.132744e-01
##  [19613,]  6.551816e-01 -1.198917e+00  1.172264e+00 -5.209121e-01
##  [19614,] -1.818552e+00  1.311281e+00 -5.736951e-01  4.434678e-02
##  [19615,] -1.493058e+00 -9.714355e-01  1.005081e+00  1.063233e+00
##  [19616,] -1.740020e+00 -4.817365e-01 -1.579030e+00 -9.141146e-01
##  [19617,] -6.387850e-01 -8.294267e-01 -1.694981e+00  1.271152e+00
##  [19618,] -7.236647e-01 -1.061568e+00  2.227851e-01  6.474073e-03
##  [19619,] -5.289276e-02  8.603400e-03 -1.423498e-01  9.301619e-01
##  [19620,] -1.707024e+00  1.578795e+00 -1.578317e+00  7.531943e-01
##  [19621,] -1.570377e+00  1.572385e-02  1.138637e+00 -5.410294e-01
##  [19622,]  6.934215e-01 -2.831796e-01  1.009035e-01 -3.397498e-01
##  [19623,]  7.452121e-01 -8.427431e-01 -1.340123e+00 -3.239859e-01
##  [19624,]  1.181582e-01 -1.667206e+00  1.445109e+00  1.068530e+00
##  [19625,]  7.701363e-02 -6.536721e-01 -9.690150e-01 -3.953280e-01
##  [19626,]  2.916286e-01  1.647538e-01  8.729689e-01  1.416006e-02
##  [19627,] -1.478215e+00 -2.198803e-01  1.211156e+00 -6.452520e-01
##  [19628,]  6.706756e-01  1.119578e+00 -4.787204e-01 -7.063396e-01
##  [19629,]  6.871225e-01 -2.240433e-01 -1.870968e+00 -4.090199e-01
##  [19630,]  2.020653e-01 -5.065557e-01 -4.354567e-01 -1.462342e-01
##  [19631,]  3.701597e-01 -3.015300e-01 -1.712203e+00 -3.804115e-02
##  [19632,] -8.176839e-01  1.546412e+00  1.197421e+00 -9.107473e-01
##  [19633,] -2.504057e+00 -2.003118e+00 -1.589402e+00 -2.936260e-01
##  [19634,] -2.115701e+00 -1.001052e-02 -4.622567e-01 -5.234318e-01
##  [19635,] -1.493640e+00 -4.565803e-01  1.321438e-01 -1.002235e+00
##  [19636,]  8.378279e-01 -2.425027e-01  8.080505e-01  3.553441e-02
##  [19637,]  8.430627e-01 -4.202785e-01  1.134847e+00 -5.288620e-01
##  [19638,]  7.350422e-01 -2.408568e-01 -2.999336e-01 -4.407637e-01
##  [19639,]  7.263233e-01 -9.585529e-01 -1.093138e+00 -4.783885e-01
##  [19640,] -1.105087e+00  2.722294e-01  1.004872e+00 -3.648172e-01
##  [19641,] -5.461849e-01  1.691800e+00 -4.130977e-01 -5.177586e-01
##  [19642,] -8.110907e-01 -2.334433e-01 -2.060752e+00 -1.247316e-01
##  [19643,] -1.319552e+00 -1.974704e-01  1.063629e+00  1.549453e+00
##  [19644,] -9.754367e-02 -8.682726e-01  1.301617e+00 -7.980229e-01
##  [19645,] -6.512298e-01 -7.209743e-01 -3.735749e-02 -5.628620e-01
##  [19646,]  2.508419e-01  1.677045e-01  7.964041e-01 -3.907270e-02
##  [19647,]  6.231889e-01 -1.200747e+00  1.515186e-01 -8.754896e-01
##  [19648,]  5.856770e-01 -1.158961e+00  1.092278e-01  1.088525e+00
##  [19649,] -1.094124e+00  6.941636e-01  8.864165e-01 -2.711567e-01
##  [19650,]  6.080980e-01 -4.072125e-01  1.137338e+00 -5.440001e-01
##  [19651,]  1.613951e+00  1.507407e+00  3.167198e-01  1.654660e+00
##  [19652,]  2.242800e-01 -7.858925e-01 -2.407098e-01 -2.672527e-01
##  [19653,]  1.570546e-01  2.779100e-01 -2.606067e-01 -3.155448e-01
##  [19654,] -1.161010e+00 -1.135527e+00 -2.164026e+00  2.148099e+00
##  [19655,]  1.026709e+00  6.529036e-01 -1.993202e+00 -1.432184e-02
##  [19656,]  7.392644e-01  1.878488e+00  7.343429e-01  2.099666e-02
##  [19657,]  6.206146e-02 -1.144266e+00 -6.678875e-01  1.355642e+00
##  [19658,]  8.330220e-01 -6.987878e-01  1.164899e+00 -4.898767e-01
##  [19659,] -6.728796e-01 -1.410136e+00 -2.256609e-01 -4.776734e-01
##  [19660,]  1.440425e-01 -4.858004e-01 -1.885522e+00 -3.554034e-01
##  [19661,] -1.639897e-01  1.774469e+00 -3.135516e-01 -1.087461e+00
##  [19662,] -7.130928e-01  1.083618e+00 -1.631658e+00 -1.013965e+00
##  [19663,] -2.341856e+00  1.044550e-02 -9.348171e-02 -7.965828e-01
##  [19664,] -3.459002e-01 -9.594645e-01 -4.676043e-01 -7.444328e-02
##  [19665,]  7.989771e-01 -1.148021e+00 -2.693204e-02  1.055623e+00
##  [19666,] -1.190135e+00  2.754726e-01  2.742488e-01  1.667454e+00
##  [19667,] -1.418588e+00 -2.660410e-01 -1.051902e-01 -8.115060e-01
##  [19668,]  8.109210e-01  1.869861e-01  1.008522e+00 -4.144074e-01
##  [19669,]  6.593043e-01 -1.134826e+00  1.960797e-02  1.177152e+00
##  [19670,] -6.351420e-01  1.759817e+00  9.731348e-01  1.240275e+00
##  [19671,]  6.198787e-02 -7.049349e-01  1.081130e+00 -3.948972e-01
##  [19672,] -2.442177e+00  5.760001e-01  9.067163e-01 -1.200287e+00
##  [19673,]  5.761144e-01  3.177885e-01 -3.419505e-01 -5.734698e-01
##  [19674,]  1.138312e+00 -8.183139e-01 -3.971854e-02 -8.091217e-01
##  [19675,]  2.101763e-01 -2.734398e-01  9.874854e-01 -2.180451e-01
##  [19676,]  8.770035e-01 -3.810053e-01  1.013782e+00  1.705885e+00
##  [19677,]  3.342842e-01 -2.069886e-01 -2.277417e-02 -7.603775e-02
##  [19678,] -9.598357e-01  2.037468e+00 -1.685350e+00 -1.036013e+00
##  [19679,]  2.177402e-01 -6.447688e-01  5.415739e-01  1.578960e+00
##  [19680,] -1.614172e+00  7.190431e-01  1.273999e-01 -1.331578e+00
##  [19681,]  1.962654e-01  2.877132e-01 -9.161484e-02 -1.491460e+00
##  [19682,]  1.340087e+00 -1.847518e-01 -9.274047e-01 -2.565015e-01
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##  [19684,] -3.963186e-01 -4.653773e-01 -7.241457e-01  1.918038e+00
##  [19685,]  9.156565e-01 -1.845098e-01  9.067701e-02 -3.388636e-01
##  [19686,]  7.824220e-01 -5.927202e-01  1.041412e+00 -6.951564e-01
##  [19687,]  2.567472e-01  8.381311e-01 -2.601136e-01 -1.171791e-02
##  [19688,]  9.419080e-02  1.290488e-01 -1.730970e-01  1.306365e+00
##  [19689,] -5.631715e-01 -1.250067e+00 -5.479815e-01 -3.964684e-01
##  [19690,]  6.427751e-01 -8.214994e-01  5.368125e-01 -6.534851e-01
##  [19691,] -1.391683e+00  1.852378e+00  7.994034e-01 -2.057253e-01
##  [19692,] -4.720058e-02  7.032510e-01 -3.763844e-01 -9.058192e-01
##  [19693,]  9.447290e-01  2.626114e-01 -4.916065e-01  1.540371e+00
##  [19694,] -4.233056e-01  3.143924e-01 -5.750990e-01 -3.860712e-01
##  [19695,] -5.246615e-01  7.223215e-01  3.493538e-02 -3.221704e-01
##  [19696,]  9.398668e-01  1.839639e-01  8.335250e-01 -9.947995e-02
##  [19697,]  7.706483e-01 -1.471983e-01 -1.335296e+00  1.539608e+00
##  [19698,] -6.475392e-01  1.097899e+00 -6.679134e-02  9.726339e-01
##  [19699,]  3.104082e-01  1.634659e+00  6.135534e-01  7.870654e-01
##  [19700,]  6.151466e-01 -5.029643e-01  1.272598e+00  1.269822e+00
##  [19701,] -1.217879e-02  2.494932e-01  8.652729e-01 -4.632807e-01
##  [19702,]  1.290034e+00  3.378882e-01  1.186471e+00  1.195060e+00
##  [19703,]  8.591797e-01  3.077846e-01 -6.842793e-01  1.350667e-02
##  [19704,] -2.862417e+00 -2.646439e-01 -1.325371e+00 -6.892743e-01
##  [19705,] -8.791150e-01  3.480340e+00 -2.608464e-01  7.664634e-01
##  [19706,]  1.043448e+00  1.893272e-01  8.134455e-01  2.237449e-02
##  [19707,] -2.705841e+00  1.338350e+00 -1.585195e+00 -5.496131e-01
##  [19708,] -1.041493e-01  3.938724e-01  4.174253e-01 -9.245550e-01
##  [19709,]  8.995662e-01 -5.946463e-01  1.009901e+00 -2.970244e-01
##  [19710,] -2.180302e+00  2.457448e-02 -1.256286e+00 -5.622851e-01
##  [19711,] -1.505052e+00  7.838803e-01  1.170170e+00 -8.151383e-01
##  [19712,] -2.679305e+00  4.693383e-02 -1.690856e+00 -3.884959e-01
##  [19713,] -7.582476e-01 -1.022281e+00 -4.500549e-01 -4.272405e-01
##  [19714,] -7.079442e-01 -9.099712e-01  2.731527e-01 -4.837268e-01
##  [19715,] -6.773776e-01  1.214439e+00  1.018228e+00 -3.990114e-01
##  [19716,] -7.262461e-01 -9.052154e-01 -1.652306e+00 -7.757420e-01
##  [19717,] -4.488441e-01  1.060322e+00 -6.684392e-01 -3.495924e-01
##  [19718,] -2.113965e+00  1.113834e+00  7.606703e-01 -3.297242e-01
##  [19719,] -6.421133e-01  8.673610e-01 -3.021259e-01 -3.754911e-01
##  [19720,]  9.304027e-01  4.744298e-01  7.788937e-01 -7.792039e-02
##  [19721,] -2.330167e+00 -1.942341e-01 -1.131298e+00 -7.737999e-01
##  [19722,]  1.287634e+00 -3.283919e-01  2.224628e-01 -5.313723e-01
##  [19723,]  5.797585e-01  2.774917e+00  9.714919e-01 -3.111539e-01
##  [19724,] -4.590006e-01  9.357658e-01 -8.327951e-01 -1.552912e-01
##  [19725,] -2.434664e+00  3.574053e-01 -3.016957e-01  8.927500e-01
##  [19726,]  1.362074e+00  1.048034e-01  1.098866e+00 -3.962648e-01
##  [19727,] -1.184269e+00 -5.473968e-02  9.841568e-01  1.675017e+00
##  [19728,] -4.983453e-01  5.403894e-01 -7.926289e-01 -5.215553e-01
##  [19729,]  1.744296e-01 -6.194495e-01  9.659764e-01 -2.164755e-01
##  [19730,]  2.524160e-01 -1.022299e+00  9.663970e-01 -3.741840e-01
##  [19731,]  2.704653e-01 -4.314507e-01  1.642422e-01 -1.578665e-03
##  [19732,] -2.583136e+00  5.406697e-01  6.883227e-01  1.668474e-01
##  [19733,]  8.326327e-01  1.223418e-01 -2.027983e+00 -2.213933e-01
##  [19734,] -1.692930e+00  1.443275e-01  1.356526e+00 -8.493105e-01
##  [19735,]  8.212613e-01  8.199958e-01 -7.530630e-01 -1.400439e+00
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##  [19737,]  1.082782e+00  4.453054e-01 -2.162783e+00  7.325976e-02
##  [19738,]  8.257661e-01 -4.741453e-01  3.564132e-01  1.224373e+00
##  [19739,]  9.723732e-01  4.624651e-01 -3.166487e-03 -5.801314e-02
##  [19740,] -8.320646e-01  4.574116e-01 -9.407891e-01 -8.911754e-01
##  [19741,] -6.350824e-02 -7.668244e-01  1.457917e+00  8.969164e-01
##  [19742,]  4.514972e-01 -3.496185e-01  7.659519e-01  2.038489e-01
##  [19743,] -2.416747e-01 -4.669561e-01 -1.963360e+00  2.071107e-01
##  [19744,] -2.444610e-01  2.972993e-01  2.866021e-01 -1.339373e+00
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##  [19746,]  1.354206e+00 -3.882622e-02  8.742835e-01 -1.645264e-01
##  [19747,]  9.033317e-02 -2.440900e-02  5.339886e-01 -2.324168e-01
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##  [19749,] -4.068360e-01  1.288476e-01  1.520773e+00 -1.214601e+00
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##  [19751,] -4.081187e-01 -6.849084e-01 -2.731465e-01 -1.779907e-01
##  [19752,] -5.302921e-01 -4.842821e-01 -1.453045e-01  2.009474e+00
##  [19753,] -5.384270e-01  1.776251e+00  8.913786e-01 -3.266125e-01
##  [19754,]  2.427035e-01 -1.112180e+00  9.219984e-01 -3.842505e-01
##  [19755,]  8.263427e-01 -4.724619e-01 -7.250270e-01 -1.737578e-01
##  [19756,]  6.447551e-02 -1.897864e+00  1.306905e+00  1.052645e+00
##  [19757,]  1.044014e-01 -4.095985e-01 -1.092598e+00 -8.362027e-02
##  [19758,]  2.989027e-01 -1.043863e+00 -1.824071e+00  1.527051e+00
##  [19759,]  6.661876e-01 -2.396735e-01  9.757039e-01 -3.608710e-01
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##  [19761,]  2.769753e-02 -4.350705e-01 -1.240660e-01 -4.907545e-01
##  [19762,]  8.819203e-01  2.237457e-03 -4.677830e-01 -3.081150e-01
##  [19763,]  8.720931e-01  1.202467e-01  9.535317e-01 -2.795598e-01
##  [19764,] -1.497014e+00  1.281679e-01 -1.519475e+00 -7.462370e-01
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##  [19770,]  1.042219e+00  2.476061e+00  1.237450e+00  9.516318e-01
##  [19771,] -2.276938e+00  1.262505e+00 -1.570522e+00 -7.765256e-01
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##  [19776,] -1.597242e+00 -4.386831e-01 -1.615967e+00 -7.495828e-01
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##  [19778,] -8.767170e-02 -7.743807e-01  4.931413e-02 -9.953058e-01
##  [19779,] -7.576467e-01  8.182958e-01  1.074224e+00 -1.240666e+00
##  [19780,]  3.732781e-01 -2.701611e-01  2.680654e-01  2.097569e+00
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##  [19781,] -2.267197e-01 -3.677101e-01 -6.436241e-03  9.560203e-01
##  [19782,]  1.130023e+00  1.404039e+00 -1.663624e+00 -7.401485e-01
##  [19783,]  4.940586e-02  1.041755e+00  8.113396e-01 -1.985792e-01
##  [19784,] -7.922160e-03 -1.048276e+00 -9.858965e-01 -6.523676e-01
##  [19785,]  7.916498e-01 -2.079918e-01 -2.928523e-01  1.716968e+00
##  [19786,]  1.669618e-01  1.243828e-01 -4.170549e-01 -7.341718e-02
##  [19787,]  7.475494e-01 -4.250841e-01 -1.709735e+00 -7.189783e-01
##  [19788,] -2.193949e+00  1.003160e+00  9.543349e-01 -4.064111e-01
##  [19789,]  8.122083e-01  4.176710e-01 -1.219968e+00 -4.335643e-01
##  [19790,] -5.881441e-01  1.099964e+00  9.676639e-01 -5.001983e-01
##  [19791,] -1.128401e+00  8.939561e-01  8.974174e-02 -3.808709e-01
##  [19792,] -2.496979e-01  1.662724e-01 -1.351820e+00 -1.113604e+00
##  [19793,]  1.496194e+00 -2.863993e-01  1.061972e+00  1.599271e+00
##  [19794,] -1.321109e+00  5.601280e-01 -7.781982e-01 -4.714846e-01
##  [19795,] -1.527363e-01 -3.545177e-01 -7.254554e-01 -1.282595e+00
##  [19796,]  7.116639e-01 -5.498417e-01 -1.422148e+00 -5.861566e-01
##  [19797,]  2.260402e-01  1.302433e+00 -2.041353e-01  1.417472e+00
##  [19798,]  7.441686e-01 -7.312421e-01  1.055029e+00 -2.707876e-01
##  [19799,]  1.377372e+00 -3.712798e-01  1.031556e+00  1.548813e+00
##  [19800,]  4.998494e-02 -1.266355e+00  1.220385e+00 -5.974548e-01
##  [19801,]  1.583552e-01 -9.403499e-01  9.419030e-01  1.877631e+00
##  [19802,] -6.093612e-01  1.120559e+00 -5.420165e-01 -4.162776e-01
##  [19803,]  2.869433e-02 -9.910264e-01  9.200984e-01 -7.380046e-01
##  [19804,]  8.437045e-01 -6.916315e-01  8.949246e-01 -1.588050e-02
##  [19805,]  1.029579e+00  3.862666e-01 -2.708517e-01 -1.375478e-02
##  [19806,]  3.844659e-01  9.061881e-02  7.388797e-01  1.132856e-01
##  [19807,]  7.379536e-01 -7.265189e-01 -2.567489e-01 -3.958922e-01
##  [19808,] -1.617376e+00  4.053870e-01 -4.007276e-01 -6.704791e-01
##  [19809,] -2.126314e+00  1.890238e-01  1.040697e+00 -3.625228e-01
##  [19810,]  7.220789e-01  1.245382e+00  2.326420e-01 -2.662827e-01
##  [19811,] -6.674433e-01 -4.241067e-01  1.303536e+00 -7.949504e-01
##  [19812,] -1.161903e+00  7.996100e-01  8.144327e-03 -2.461352e-01
##  [19813,] -2.309601e-01  7.651622e-01  2.071432e-01 -1.333183e+00
##  [19814,]  2.882079e-02  7.290314e-01  1.129213e+00  1.391672e+00
##  [19815,]  7.923125e-02 -5.918971e-01 -1.625448e+00 -5.146254e-01
##  [19816,]  8.696837e-01  4.416055e-01  2.145603e-01  6.478300e-02
##  [19817,]  1.484241e+00  8.284315e-01 -5.370922e-01 -1.748457e-01
##  [19818,] -7.643912e-01 -5.320225e-01  1.055627e+00 -3.268513e-01
##  [19819,]  4.992152e-01  2.074830e-01  7.123711e-01 -1.012516e+00
##  [19820,]  5.910352e-01 -1.525062e-01  1.341280e+00 -9.884423e-01
##  [19821,]  1.110593e+00  6.263619e-01  4.413582e-02  1.870789e-01
##  [19822,]  8.387382e-01 -5.089993e-01  9.356816e-02 -2.464148e-01
##  [19823,]  5.276470e-01 -2.777958e-01  1.219924e+00 -8.113837e-01
##  [19824,] -9.609868e-01  8.042709e-01 -1.381752e+00 -1.141605e+00
##  [19825,] -1.380013e+00  5.491813e-03 -1.509703e+00 -1.255014e-01
##  [19826,]  4.738782e-01 -1.000746e+00  2.852275e-01  6.393256e-01
##  [19827,] -1.992096e+00  4.245051e-01  7.954029e-01  9.415426e-02
##  [19828,]  9.015530e-01 -1.383072e-01 -4.703154e-01  1.754441e+00
##  [19829,]  6.620157e-01  4.512621e-01 -1.398614e+00 -3.735121e-01
##  [19830,] -1.333886e+00  1.440364e+00  8.121804e-02 -3.849452e-01
##  [19831,]  8.189936e-01 -6.788967e-03 -1.969989e+00 -1.884639e-01
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##  [19833,]  9.928083e-01  1.010796e+00  4.971852e-02  1.768229e+00
##  [19834,] -2.836192e+00  7.889484e-01  1.366382e+00 -9.266467e-01
##  [19835,]  2.361287e-01  1.118364e+00  8.759403e-01 -1.596194e-01
##  [19836,] -2.857312e-01 -1.105438e+00  1.503173e+00  7.948306e-01
##  [19837,] -1.404492e+00  6.412337e-01 -3.069186e-01 -4.144372e-01
##  [19838,] -5.614078e-01 -3.528170e-01  7.809072e-01  2.036253e+00
##  [19839,] -1.068710e-01  8.714361e-01  7.776673e-01 -8.200141e-01
##  [19840,]  7.162848e-01  4.797001e-01 -2.412682e-01 -6.249657e-01
##  [19841,]  7.361772e-01 -1.377399e-01 -3.219627e-01 -3.338828e-01
##  [19842,]  6.880241e-01  1.106764e+00  9.426030e-01 -2.982136e-01
##  [19843,]  7.862454e-01 -1.049645e-01 -6.617775e-01 -2.350280e-01
##  [19844,]  4.228940e-01  1.033031e-01 -5.943532e-01  3.120500e-01
##  [19845,]  7.241322e-01 -6.246388e-01  7.039255e-01  9.588084e-01
##  [19846,]  7.081346e-01  7.181650e-01  8.427557e-01 -2.517812e-01
##  [19847,] -3.906897e-01  1.097820e+00  9.177967e-01  1.670620e+00
##  [19848,]  8.033036e-01  5.026002e-01 -1.500967e+00 -1.452716e-01
##  [19849,] -1.136589e+00  9.370245e-01 -2.547213e-01  1.625690e+00
##  [19850,]  9.149760e-02 -3.605412e-02  1.429383e+00  8.640181e-01
##  [19851,] -1.905644e-01  1.557797e+00 -8.847486e-02 -1.023721e+00
##  [19852,] -1.068388e+00  8.080772e-01  7.070737e-01  2.084360e-01
##  [19853,] -3.118034e+00 -8.385531e-02  7.607799e-01 -1.396632e-01
##  [19854,]  5.293169e-01 -9.774542e-02 -1.116849e+00 -9.521483e-01
##  [19855,] -7.060587e-01  1.015259e+00  8.478666e-01 -4.773721e-01
##  [19856,] -5.845914e-02 -2.876045e-01 -1.600839e+00 -8.394218e-01
##  [19857,] -5.320059e-01  2.449475e+00 -7.565400e-01 -6.064223e-03
##  [19858,] -8.265984e-01  1.750610e+00  8.928866e-01 -1.030600e+00
##  [19859,] -1.322356e+00  6.805368e-01  1.109041e+00 -6.205010e-01
##  [19860,]  8.884859e-01  4.001460e-01  8.394336e-01 -1.870272e-01
##  [19861,]  5.668853e-01 -1.084877e+00  6.569586e-01  8.335946e-01
##  [19862,]  2.177465e-01 -7.461245e-02  2.412353e-01  1.747807e+00
##  [19863,]  1.485174e+00  7.625246e-01  4.750218e-01 -2.204093e-02
##  [19864,] -5.524242e-01 -5.422687e-01 -2.856088e-01 -8.950905e-02
##  [19865,] -5.289097e-01  1.841858e-01 -4.398928e-01 -6.507580e-01
##  [19866,] -1.447206e+00 -8.323774e-01  1.185116e+00 -6.194567e-01
##  [19867,]  1.332789e+00  2.525531e-01  1.051110e+00 -4.264668e-01
##  [19868,] -5.849239e-01 -7.806864e-01 -1.089227e+00 -1.710465e-01
##  [19869,] -2.432403e-01  5.480766e-01  5.639165e-01 -7.284134e-01
##  [19870,]  1.381995e+00  4.164316e-01 -2.826748e-01 -2.490160e-01
##  [19871,] -1.285769e+00 -1.613113e+00  1.112479e+00 -3.327851e-01
##  [19872,] -7.563479e-01  1.462984e+00 -1.634001e+00 -5.354867e-01
##  [19873,]  8.606179e-01 -4.060650e-01 -1.798861e+00 -5.532601e-01
##  [19874,]  8.182024e-01 -9.538474e-02  2.987067e-01 -1.548433e-02
##  [19875,]  6.749849e-02  5.674764e-01  3.977181e-01 -6.325897e-01
##  [19876,]  8.407600e-01  5.082537e-01  8.591480e-01 -1.167857e-02
##  [19877,]  9.538980e-01 -2.546139e-01 -7.065803e-01  1.670242e-01
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## [19879,]  9.591332e-01  4.033445e-01 -4.723529e-01 -1.609475e-01
## [19880,]  5.135215e-01 -6.613213e-01 -2.418472e-01 -1.397548e+00
## [19881,]  9.663122e-02 -5.551836e-01 -1.753325e+00  1.354207e+00
## [19882,] -2.852225e-01  8.997981e-01  1.278952e+00 -1.031425e+00
## [19883,]  8.767082e-01 -6.436284e-01 -5.366183e-01  1.432867e+00
## [19884,]  6.881755e-01 -5.467140e-01  8.436997e-01 -3.607543e-01
## [19885,]  2.826510e-01  7.647521e-01 -2.117775e+00 -4.073956e-05
## [19886,] -4.785892e-01  7.037796e-01  1.245236e-01 -4.431402e-01
## [19887,]  1.154629e+00 -2.433432e-01  1.297763e+00 -8.279552e-01
## [19888,]  9.224772e-01 -9.561128e-01  1.175723e+00  1.428605e+00
## [19889,] -4.595099e-01 -1.154091e-01 -6.196709e-01  2.281829e-01
## [19890,] -4.591582e-01  4.737169e-01  1.100730e+00 -5.530061e-01
## [19891,]  5.585680e-01  4.346623e-02  2.668645e-01 -6.396969e-01
## [19892,] -7.302377e-01  1.609926e+00 -5.411352e-01  1.321727e+00
## [19893,] -9.255924e-01  2.583834e-01  1.094688e+00 -6.005890e-01
## [19894,] -5.784689e-01 -1.821986e-02 -7.538433e-02 -5.343230e-01
## [19895,]  8.243079e-01 -1.142034e-01 -1.828456e+00 -5.037602e-01
## [19896,]  2.885469e-03 -8.297283e-01  1.039543e+00 -3.088908e-01
## [19897,] -1.030539e-01 -6.900791e-01 -1.535119e+00 -8.899319e-01
## [19898,] -1.551210e-02 -6.528779e-01 -5.250832e-01 -8.447137e-01
## [19899,]  2.503286e-01 -6.817216e-01  9.947518e-01 -2.963712e-01
## [19900,]  5.419753e-01  2.055691e-01  2.572466e-01 -6.572440e-01
## [19901,] -4.733053e-01 -3.241719e-01 -1.153811e+00  1.533640e+00
## [19902,] -4.700892e-01  2.763710e-01  1.029607e+00 -4.386498e-01
## [19903,]  5.444221e-02  2.672739e+00 -3.754748e-01 -1.248774e-01
## [19904,]  3.991267e-01 -2.945689e-01 -5.198239e-01  7.188227e-02
## [19905,] -1.568877e+00 -3.470133e-01  4.853573e-02 -9.341748e-01
## [19906,]  7.754524e-01 -5.445200e-01  9.813187e-01 -2.593058e-01
## [19907,] -2.862626e+00 -1.190793e-02  1.146598e+00 -5.839387e-01
## [19908,] -1.962181e+00  2.353198e-01 -2.765146e-01 -4.336684e-01
## [19909,] -1.472555e+00 -2.605077e-01  8.909056e-01 -3.488498e-01
## [19910,] -2.579291e+00 -9.609631e-01  1.031989e+00 -1.979413e-01
## [19911,] -9.592164e-01  2.296691e+00 -1.652501e+00 -9.603413e-01
## [19912,] -2.642908e+00  3.688408e-02 -3.709676e-01 -3.861241e-01
## [19913,] -6.492024e-01 -3.634108e-01  8.993378e-01 -4.581419e-01
## [19914,] -1.607585e-01 -1.154651e+00 -1.661080e-01  1.017627e+00
## [19915,] -7.880556e-01 -6.613760e-01  8.904910e-03 -4.190656e-01
## [19916,] -9.239773e-01  4.671604e-01  1.274450e+00  1.030087e+00
## [19917,]  1.408586e+00 -8.151596e-03 -1.884407e-01 -1.932685e-01
## [19918,] -2.345879e-02 -8.294378e-01  1.327666e+00 -8.374274e-01
## [19919,]  6.911790e-01 -9.045615e-01  8.569806e-01  1.312228e+00
## [19920,] -1.382222e+00 -5.922152e-01  1.444854e+00  9.060586e-01
## [19921,] -1.159335e+00  3.581557e-01 -3.937523e-01 -1.008661e-01
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## [19923,]  7.675482e-01 -9.140459e-01  1.119815e+00  1.504119e+00
## [19924,] -8.347170e-01  7.574015e-01 -1.372699e+00  6.654465e-01
## [19925,] -4.513639e-01 -7.172496e-01  9.716380e-01 -2.314208e-01
## [19926,]  7.438961e-01 -1.111211e+00 -3.102216e-01 -8.855236e-01
## [19927,] -3.013569e-01 -7.213571e-01 -5.316511e-01  1.907222e+00
## [19928,]  1.013846e+00  4.661032e-01 -2.481278e-01  8.450883e-01
## [19929,] -5.400815e-01 -1.539249e-01  1.119991e+00 -5.498107e-01
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## [19932,]  4.307977e-01  7.157148e-02 -1.471490e+00  1.945454e+00
## [19933,] -1.645604e+00  6.943158e-01  1.294864e+00 -9.630734e-01
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## [19937,]  3.534020e-01  6.601003e-01 -7.443572e-01  7.574492e-02
## [19938,]  5.053123e-01  5.431279e-01 -7.891670e-02 -7.215134e-01
## [19939,] -1.443749e+00 -1.602816e+00 -1.596210e+00 -3.389433e-01
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## [19948,]  7.523215e-02  1.341965e-01  8.234972e-01  1.198017e+00
## [19949,]  4.571624e-01 -1.200030e-02 -1.623944e+00  3.828666e-01
## [19950,]  1.379137e+00  3.787880e-01 -5.716060e-01 -1.159411e-01
## [19951,] -6.734891e-02 -1.784001e-01 -1.200616e-01  1.126452e+00
## [19952,]  7.456849e-02 -1.339450e+00  1.167272e+00 -4.462880e-01
## [19953,]  1.521448e+00  3.353680e-01 -1.313444e+00 -5.131532e-01
## [19954,] -2.230650e+00  8.487041e-02  1.440708e+00 -1.091358e+00
## [19955,]  1.470183e+00  4.758001e-01 -1.990820e+00 -2.692531e-01
## [19956,]  7.600662e-01 -8.775990e-01  1.050164e+00 -3.378481e-01
## [19957,]  5.941493e-01 -1.310857e+00 -3.504403e-02 -7.635131e-01
## [19958,] -1.493787e+00 -1.945299e+00  1.272508e+00  1.407620e+00
## [19959,] -7.242334e-01 -1.384246e+00 -2.472346e-01 -3.364202e-01
## [19960,]  5.323216e-01  1.418405e+00 -6.028350e-01 -6.451519e-01
## [19961,]  7.456780e-01 -3.094551e-01  1.057412e+00 -3.275557e-01
## [19962,] -2.349556e+00  2.051456e-01 -3.473219e-01  1.067879e+00
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## [19966,]  1.625787e-01 -8.018455e-01  7.746591e-01  1.533955e+00
## [19967,]  1.339461e+00 -5.361244e-02 -2.638365e-01 -4.581563e-01
## [19968,] -3.499165e+00 -8.434579e-01  1.333605e+00  1.153329e+00
## [19969,] -2.568768e-01  5.839431e-01  1.375815e+00 -1.211373e+00
## [19970,] -2.808517e+00 -1.061874e+00  1.264379e+00 -5.947696e-01
## [19971,]  6.705577e-01 -6.665954e-01 -1.796936e-01 -5.512181e-01
## [19972,] -2.561313e-01 -8.609479e-01  7.220989e-01  2.299193e-01
## [19973,] -2.273811e+00  8.046616e-01 -1.756911e+00  1.138354e+00
## [19974,]  1.053919e+00 -7.183979e-01  4.380900e-01 -1.162422e+00
## [19975,]  5.196268e-01  2.357113e-01 -1.630360e-01 -6.993258e-01
## [19976,]  7.288226e-01 -4.564130e-01 -1.621014e+00 -5.431023e-01
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##  [19977,]  6.279269e-01 -4.579352e-01  1.181180e+00 -7.029229e-01
##  [19978,]  5.486913e-01 -4.981924e-01 -3.305286e-01 -7.577473e-01
##  [19979,] -2.540753e+00  9.231734e-02  9.034971e-01 -9.020969e-02
##  [19980,]  8.147144e-01  7.382557e-01 -3.531775e-01 -4.627253e-01
##  [19981,] -6.032413e-01 -5.807519e-03  1.109030e+00  1.327302e+00
##  [19982,] -1.343880e+00  5.874999e-01  9.699880e-01 -6.880595e-01
##  [19983,] -7.590375e-01 -1.032675e-01  4.594065e-01  1.330339e+00
##  [19984,] -6.023720e-01 -2.679017e-01  1.263000e+00 -7.308006e-01
##  [19985,] -1.265274e+00 -2.116620e-01  9.419773e-01  1.205696e+00
##  [19986,]  4.229980e-01 -5.200457e-01 -6.443343e-01  9.219181e-02
##  [19987,]  7.848711e-01 -1.511088e-01  8.273942e-01 -6.886285e-02
##  [19988,] -1.780923e+00 -1.267271e-01  8.230540e-01 -4.977365e-03
##  [19989,]  8.018393e-01 -3.775922e-01  1.034706e+00 -2.139877e-01
##  [19990,]  1.420354e-01 -1.037040e+00 -1.683842e+00 -5.594281e-01
##  [19991,]  7.519757e-01  1.270135e-01 -1.000282e+00 -7.396330e-01
##  [19992,]  1.061209e-01  5.652432e-01 -8.947038e-01 -3.875106e-01
##  [19993,] -6.162713e-01  6.683711e-01  1.422460e-01 -7.901131e-01
##  [19994,]  6.129448e-01 -1.177155e+00 -9.837722e-01 -9.123703e-01
##  [19995,]  4.982329e-01  1.925756e-01 -7.015692e-01  3.659459e-01
##  [19996,]  4.088308e-01 -7.104427e-01 -4.888227e-01  4.999338e-02
##  [19997,] -1.839865e+00 -3.326951e-01 -6.606571e-01 -2.337900e-01
##  [19998,]  8.400518e-01  2.396067e-01 -1.650535e+00 -1.962111e-01
##  [19999,]  4.650313e-01 -4.451833e-01  6.098574e-01  4.035163e-01
##  [20000,]  1.250710e-01 -1.563655e-01 -2.129361e+00  2.842525e-03
##  [20001,]  9.477037e-01 -1.619606e-01 -2.039488e+00  1.451916e-01
##  [20002,]  1.324092e-01 -5.855652e-01  6.905359e-01  1.873173e+00
##  [20003,] -8.262078e-01 -1.799872e-01 -1.183421e+00 -9.751554e-01
##  [20004,] -5.401315e-01  6.345459e-01  1.045211e+00 -3.340159e-01
##  [20005,] -2.555908e+00 -5.484014e-01 -4.636799e-01 -4.350970e-01
##  [20006,] -7.713684e-01  2.859006e+00  2.439282e-01 -7.262555e-01
##  [20007,] -1.476801e-01  2.341737e-02  1.180825e+00 -7.897813e-01
##  [20008,] -1.248996e+00 -6.940178e-03  1.124924e+00 -5.314684e-01
##  [20009,] -2.359733e+00 -5.101025e-01  8.144131e-03 -8.511101e-01
##  [20010,]  3.007698e-01 -5.557101e-01 -1.525886e+00 -6.591154e-02
##  [20011,] -2.692834e+00  1.400796e+00  8.408907e-01 -2.728347e-01
##  [20012,] -3.800333e-01 -9.185486e-01 -1.960444e+00 -1.661505e-01
##  [20013,]  8.774098e-01 -6.974397e-01 -1.606359e+00 -5.415951e-01
##  [20014,]  4.983700e-02  6.715325e-01 -2.353232e-01 -7.066959e-01
##  [20015,]  1.327644e-01 -1.078466e+00  1.210795e+00  1.154863e+00
##  [20016,]  7.212362e-01  7.162775e-01 -5.887276e-01  1.525187e+00
##  [20017,] -1.584488e+00 -5.846710e-01 -8.625444e-01 -6.200630e-01
##  [20018,] -1.506088e+00  3.204691e-01  8.329514e-01 -3.524591e-01
##  [20019,] -2.280650e+00 -2.624669e-01 -1.490322e+00 -7.434916e-01
##  [20020,]  9.959738e-02  7.298459e-01  8.251563e-01 -1.272208e-01
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##  [20023,] -1.568305e+00  6.058681e-01  1.141675e+00 -1.255843e+00
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##  [20025,]  9.199965e-02 -6.963941e-01  6.876192e-01 -5.777621e-01
##  [20026,] -7.973126e-02 -1.571199e+00  1.319885e+00  1.230815e+00
##  [20027,] -1.223191e+00  5.440327e-01  9.420631e-01  1.656532e+00
##  [20028,]  2.208008e-01 -5.150375e-01 -4.478675e-01 -1.056207e-01
##  [20029,] -1.339951e+00  2.732414e+00 -2.554703e-01 -4.985764e-01
##  [20030,]  8.337825e-01 -7.325617e-01  1.179873e+00  1.358218e+00
##  [20031,] -5.931666e-01 -5.981334e-01  9.309843e-01 -1.298356e-01
##  [20032,] -1.416233e+00  1.514220e+00 -2.184009e-01 -7.631635e-01
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##  [20035,] -6.264907e-04 -1.225981e+00 -1.738374e+00  1.395200e+00
##  [20036,]  1.343050e+00 -4.467087e-01  6.572498e-01 -6.277896e-01
##  [20037,] -1.292549e+00 -7.398684e-02  9.538266e-01 -2.042583e-01
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##  [20045,] -7.188209e-01 -1.289797e+00 -1.356644e+00 -5.793207e-01
##  [20046,]  2.900835e-01  4.948013e-01 -2.170618e+00  1.355630e-02
##  [20047,] -1.078247e-01  1.156771e+00  1.071483e+00 -7.698251e-01
##  [20048,]  3.889934e-01  3.444427e-01 -8.758220e-01  1.018246e-01
##  [20049,] -2.293088e-01 -3.278773e-01 -1.092074e+00 -8.691225e-01
##  [20050,]  8.090709e-02 -4.221634e-02 -3.548965e-01 -2.898612e-01
##  [20051,] -5.801159e-01  1.533163e+00  5.344728e-01 -3.461076e-01
##  [20052,] -8.124017e-02  6.800082e-01  1.269984e+00 -9.468452e-01
##  [20053,]  2.111600e-01 -8.312691e-01 -9.780400e-01 -3.198948e-01
##  [20054,]  7.895453e-01  2.952704e-01 -6.315289e-01  1.733605e+00
##  [20055,] -7.770728e-01  1.997177e-01 -1.526749e+00 -7.725680e-01
##  [20056,]  7.529146e-02 -4.815296e-01 -1.335582e+00  1.462145e+00
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##  [20058,] -7.065514e-01 -6.039881e-01  8.910436e-01 -4.066315e-01
##  [20059,]  4.578579e-01 -4.391818e-01  7.565783e-01  2.131669e-01
##  [20060,] -3.415431e-01 -3.677690e-01 -1.914497e+00  5.931664e-04
##  [20061,] -4.741323e-01 -1.632523e-01  1.518959e+00 -1.367586e+00
##  [20062,] -6.143641e-01 -1.136948e+00  4.700978e-01 -4.967212e-01
##  [20063,] -7.492521e-01  9.884729e-02 -7.255885e-01 -7.623820e-01
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##  [20065,] -9.986100e-02 -1.612042e-01 -1.813623e+00 -5.509187e-01
##  [20066,]  5.965556e-01  3.636207e-01  1.299228e-01 -7.398382e-01
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##  [20071,]  8.571331e-02 -2.573206e-01 -1.594077e+00 -3.319802e-01
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##  [20073,]  1.674366e-01 -2.193840e-02 -1.755243e+00  1.600064e+00
##  [20074,] -5.893941e-01 -6.764342e-01  2.971875e-02 -3.942416e-01
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## [20075,] -3.910924e-01  7.046399e-01  1.313814e+00  7.849272e-01
## [20076,] -1.300453e-01  1.887503e-01  1.189302e+00 -8.355212e-01
## [20077,]  2.914826e-01 -4.159575e-01 -1.385658e+00  3.342734e-02
## [20078,] -2.515627e+00 -1.128866e+00  9.588841e-01 -3.589441e-01
## [20079,] -8.604282e-02 -3.317397e-01  1.253419e+00  1.134665e+00
## [20080,] -1.617736e+00 -6.411173e-01 -4.083552e-02 -7.519571e-01
## [20081,]  9.735201e-03 -1.634837e-01 -1.679957e+00 -5.118240e-01
## [20082,] -6.808177e-02  2.631785e-01  4.915004e-01 -8.218016e-01
## [20083,] -6.541969e-01  3.335355e+00 -4.650578e-01 -4.382641e-01
## [20084,] -4.942623e-01 -4.364292e-01  8.909358e-01  1.944885e+00
## [20085,] -1.381312e+00 -1.145462e+00 -4.226639e-01 -5.672361e-02
## [20086,]  1.457304e+00 -7.510790e-02  1.071702e+00  1.534616e+00
## [20087,] -5.070844e-02 -1.125034e+00 -3.250536e-01 -5.082070e-01
## [20088,]  4.124288e-02 -4.846200e-01  1.329231e+00 -8.108823e-01
## [20089,] -3.615881e-02 -1.140839e+00  1.396286e+00 -8.195770e-01
## [20090,] -8.888990e-01 -9.660703e-01 -1.493345e+00 -9.771107e-01
## [20091,]  1.702024e-01 -3.723518e-02 -3.694540e-01 -4.667709e-01
## [20092,] -9.639888e-02  2.302773e+00 -1.591068e+00  1.102136e+00
## [20093,]  3.798927e-01  1.498907e-01  5.477311e-01  4.797262e-01
## [20094,] -2.662244e-01  3.187464e-01  1.180449e+00 -8.047897e-01
## [20095,] -4.108461e-01 -3.889301e-01 -1.864001e+00  2.386161e-02
## [20096,]  9.101114e-02 -1.108710e+00 -6.860232e-01 -8.040767e-01
## [20097,]  2.920820e-01  5.666199e-01 -4.933558e-01  5.272742e-02
## [20098,]  7.489198e-01 -7.636591e-01 -1.645913e-02 -8.190436e-01
## [20099,] -6.449116e-01 -1.705885e+00 -1.564201e+00  1.149768e+00
## [20100,] -2.697156e+00 -9.055642e-01 -1.770118e+00 -4.425805e-01
## [20101,] -1.163833e+00  2.001487e-01  1.437317e+00 -1.193840e+00
## [20102,] -7.794232e-01 -3.581499e-01 -1.886955e+00  1.721945e+00
## [20103,]  5.022153e-01  8.844115e-02  8.160289e-01 -7.382725e-01
## [20104,]  6.767717e-01 -1.376937e-01  7.108037e-02  1.368382e+00
## [20105,]  7.777141e-01 -3.269514e-01  8.895294e-01 -3.635685e-01
## [20106,]  1.828539e-01 -1.213394e+00 -1.096609e+00 -3.394658e-01
## [20107,] -8.272689e-02  1.221702e+00  1.162310e+00 -7.012127e-01
## [20108,] -7.497140e-01  2.348487e-01 -1.000991e+00 -4.527768e-01
## [20109,]  2.812061e-02  1.718557e-01 -4.670672e-01  1.658169e+00
## [20110,]  3.208422e-02  2.601427e-01  5.598961e-01 -1.387362e-01
## [20111,]  3.657250e-01  2.075704e-01 -5.448607e-01  5.128423e-02
## [20112,]  2.902625e-01 -5.775942e-01  9.285881e-01 -1.870344e-01
## [20113,]  2.634631e-01  2.720956e-01 -5.283394e-01  6.357541e-02
## [20114,] -3.444815e-01 -1.400501e-01 -6.044858e-01  3.568078e-02
## [20115,] -3.507629e-01  4.792202e-02 -1.074249e+00  5.400027e-02
## [20116,]  3.724774e-02 -5.003028e-01 -1.320579e+00 -4.736487e-01
## [20117,]  3.142872e-02  9.538223e-02 -1.168485e+00 -1.640788e-01
## [20118,]  1.608001e-01 -2.240621e-01  7.889586e-01  1.336417e-01
## [20119,]  3.783667e-01  1.677877e-02  7.233743e-01  1.013663e-01
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## [20122,] -2.518366e-02  8.059623e-01 -1.257650e+00 -7.028847e-01
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## [20127,]  7.482011e-01 -7.635059e-01  1.061926e+00  1.586688e+00
## [20128,]  4.306974e-02 -2.225540e-01 -2.138762e-01 -5.162849e-01
## [20129,] -8.489507e-01 -5.351321e-02  1.486700e+00 -1.146461e+00
## [20130,]  7.320106e-01 -8.346350e-01  3.208535e-03 -3.366860e-01
## [20131,]  2.084774e-01 -3.781185e-01 -1.173136e+00 -4.163987e-01
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## [20133,] -2.425385e-01  1.248331e+00  1.215080e+00 -8.997746e-01
## [20134,] -4.362150e-01 -3.119546e-01 -8.636175e-01  2.078418e+00
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## [20136,]  7.547193e-02 -2.974121e-01 -2.010232e-01 -5.518897e-01
## [20137,] -2.244787e+00 -4.960810e-02  2.347690e-01 -5.233480e-01
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## [20139,] -5.422499e-02 -4.882745e-01 -5.598007e-02  9.284656e-01
## [20140,]  7.511501e-01 -7.297601e-01  9.871775e-01 -2.331564e-01
## [20141,] -8.246450e-01 -6.940464e-01  1.208584e+00  1.343493e+00
## [20142,] -1.761131e-01  8.318739e-01 -1.205106e-01 -8.685893e-01
## [20143,] -2.261106e-02  1.336254e+00  8.504729e-01 -3.327175e-01
## [20144,]  1.007960e-03 -1.629072e+00 -1.864331e-01 -4.243177e-01
## [20145,]  1.491219e-01 -1.485562e+00  1.278638e+00 -6.533099e-01
## [20146,]  2.081837e-01 -1.248211e+00  1.141356e+00 -4.717456e-01
## [20147,]  9.593309e-02 -2.719620e-01 -6.601183e-01  1.759974e+00
## [20148,]  2.635876e-01 -1.274539e+00  9.994957e-01  1.472226e+00
## [20149,]  1.193556e+00 -5.293013e-02 -1.607417e+00 -6.329841e-01
## [20150,] -1.384186e+00 -1.385749e-01 -5.562409e-01 -9.029620e-01
## [20151,]  1.044716e-01  2.324265e-01  1.957588e-01 -5.731556e-01
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## [20154,] -1.801205e+00  2.028241e-01 -5.073630e-01 -3.825284e-02
## [20155,] -4.352958e-01 -2.024441e-01 -6.080389e-01  1.873653e+00
## [20156,] -3.383029e-01 -5.477499e-01 -3.890462e-01  9.989059e-03
## [20157,]  2.232450e-01 -3.465408e-01 -1.992691e+00  1.791894e+00
## [20158,] -5.248778e-01  7.873115e-01 -1.291038e+00 -4.745379e-02
## [20159,] -8.226013e-01 -9.937159e-01 -5.156149e-01 -2.065083e-01
## [20160,]  1.434453e-01 -2.146913e-01 -2.560958e-01 -5.180383e-01
## [20161,] -7.489189e-01 -6.600292e-01 -3.076711e-01 -3.113679e-01
## [20162,]  1.298982e-02  1.104572e+00 -2.041644e+00 -1.571805e-01
## [20163,] -5.665894e-01 -4.077127e-01  9.882023e-01 -2.626966e-01
## [20164,]  2.428645e-01 -3.611655e-01 -4.592175e-01  1.896681e+00
## [20165,] -8.667206e-01 -1.502298e+00  1.156435e+00 -3.655178e-01
## [20166,] -4.558994e-01 -7.330935e-02  6.198720e-01  1.895605e+00
## [20167,] -2.109339e-01 -5.720940e-01 -2.749676e-01 -8.550751e-01
## [20168,]  1.795717e-01  2.809558e+00 -7.555954e-01 -1.739678e-01
## [20169,] -1.358238e+00 -1.938019e+00  5.311729e-01 -1.210712e-01
## [20170,] -5.523017e-01 -3.410293e-01  8.957179e-01 -1.973275e-01
## [20171,] -2.342817e-01  3.564689e-01  1.999407e-02 -1.102239e+00
## [20172,] -3.952534e-01 -7.073785e-01 -4.400448e-01 -1.090014e-01
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## [20173,]  2.800759e-01 -5.227217e-01 -1.854738e+00  1.538491e+00
## [20174,] -1.337003e-01  5.140879e-01 -1.641206e+00 -5.618531e-01
## [20175,]  6.256806e-02 -1.081616e+00  1.179287e+00  1.398849e+00
## [20176,]  4.322353e-03 -1.503449e-01 -4.186053e-01 -2.293053e-01
## [20177,]  1.024325e-01 -1.343187e+00  1.189550e+00  1.454772e+00
## [20178,]  2.183881e-01 -8.925773e-03 -4.499070e-01 -7.299439e-02
## [20179,] -1.170373e+00 -2.358694e-01 -6.479442e-01 -9.913380e-01
## [20180,]  7.672890e-02  4.844794e-02  9.981092e-01  1.572081e+00
## [20181,]  5.104748e-02 -9.661607e-01 -1.717678e+00  1.311675e+00
## [20182,]  9.413979e-02  5.741177e-01 -8.122302e-02  1.883588e+00
## [20183,] -1.967136e-01  1.964025e+00  1.009607e+00 -6.857155e-01
## [20184,] -7.212650e-01 -7.406099e-01 -1.846467e+00  1.861716e+00
## [20185,]  9.850297e-02 -4.347232e-01  1.215146e+00 -6.545735e-01
## [20186,]  2.817617e-01 -8.931215e-01  1.018250e+00 -2.580489e-01
## [20187,]  2.430188e-01 -2.307757e-01  1.792660e-01  3.071172e-01
## [20188,]  8.762147e-02 -8.055515e-01 -3.097860e-01 -3.477487e-01
## [20189,] -5.736183e-01  6.392907e-01 -1.506307e-01 -4.639786e-01
## [20190,] -5.872453e-01 -1.777840e+00 -8.976952e-01  1.293213e+00
## [20191,]  1.579441e+00 -2.511867e-01 -5.676416e-01 -4.209278e-01
## [20192,]  1.104163e+00 -6.994760e-01  4.041833e-02  9.584752e-01
## [20193,]  1.342295e+00  5.869910e-01 -7.680179e-01 -9.043519e-01
## [20194,] -2.563194e-01  2.236272e-01  2.674274e-02 -1.068148e+00
## [20195,]  9.940895e-02 -1.082444e+00  9.691943e-01  1.477752e+00
## [20196,]  2.798682e-01 -1.652809e-01  5.505746e-02  2.018228e+00
## [20197,] -2.688926e-02  1.360558e+00  1.641947e-01 -6.137007e-01
## [20198,] -1.086228e-01 -1.130035e+00 -1.177166e+00 -9.238442e-01
## [20199,] -7.286266e-01 -4.216134e-01 -4.477590e-01 -5.051435e-01
## [20200,] -4.864747e-02 -1.272780e+00  7.339028e-01  1.317431e+00
## [20201,]  1.897830e-01 -1.677398e+00 -8.616107e-02 -5.923435e-01
## [20202,]  8.558591e-02 -1.188364e+00 -1.671890e+00  1.347514e+00
## [20203,]  1.548504e-02 -1.041963e+00 -1.182744e+00 -6.040320e-01
## [20204,]  2.127107e-01 -1.370329e-01  9.262962e-01 -1.817291e-01
## [20205,] -2.877886e-01  1.465872e+00 -1.006572e-01 -1.338656e+00
## [20206,] -6.749235e-01 -2.804748e-01 -1.729794e+00 -3.562057e-01
## [20207,] -7.124702e-01 -9.883661e-01  1.271835e+00 -6.913138e-01
## [20208,]  1.025790e-02 -9.308377e-01 -1.864987e+00 -3.719119e-01
## [20209,]  2.391644e-01  6.220076e-01 -7.952437e-01  1.957216e+00
## [20210,] -6.317718e-02 -1.555892e+00  1.222833e+00 -5.557680e-01
## [20211,] -8.961349e-01  1.491931e+00  1.542239e-02 -4.109218e-01
## [20212,] -4.376012e-01  4.918561e-01  1.459143e+00 -1.670168e+00
## [20213,]  1.257533e-01 -1.410200e-03  1.259023e+00  1.269366e+00
## [20214,] -4.205456e-01 -7.982050e-01 -3.347874e-01 -1.014033e-02
## [20215,] -3.114739e-01  1.201764e+00 -1.576599e+00  7.056928e-01
## [20216,] -2.602015e-01  7.092145e-01  1.142503e+00 -7.513508e-01
## [20217,]  1.303287e-01 -4.034392e-02  1.311804e+00  1.382290e+00
## [20218,]  8.845322e-01 -3.276663e-01 -7.620831e-01  3.144610e-02
## [20219,]  2.804973e-01 -9.241810e-01 -1.513820e+00 -3.291630e-01
## [20220,] -2.550709e-02  7.267769e+00 -1.128603e+00  3.448359e+00
## [20221,] -2.845891e-01 -8.926779e-01  1.398881e+00 -1.005248e+00
## [20222,] -2.196663e+00  2.930930e-01  6.922652e-01  1.091919e+00
## [20223,] -2.437526e+00  6.967593e-01 -1.115644e+00 -1.225844e+00
## [20224,] -4.380348e-02 -1.142345e+00 -1.406618e+00 -1.155257e+00
## [20225,] -5.355309e-01 -8.449450e-01 -3.113012e-01 -2.612931e-01
## [20226,] -6.057654e-01 -9.898861e-01 -3.214238e-01 -7.065784e-01
## [20227,]  2.999760e-01  1.201350e-01 -3.481159e-01  1.416641e-01
## [20228,] -7.026762e-01 -9.738579e-01  3.165886e-01  1.539996e+00
## [20229,] -4.688565e-02 -9.147997e-01 -1.451700e+00 -7.576993e-01
## [20230,] -6.628469e-01 -6.265843e-01 -1.095901e+00 -8.031294e-01
## [20231,] -1.289992e+00 -2.131918e-01  1.986887e-01 -7.055985e-01
## [20232,] -1.553247e-01 -1.497618e+00  1.743222e-01  1.005335e+00
## [20233,] -9.473128e-02  2.171572e-01  1.237526e+00 -8.703121e-01
## [20234,]  8.059725e-02 -8.252308e-01  1.266427e+00  1.243453e+00
## [20235,]  2.303776e-01 -3.216467e-01 -2.061791e-01  1.237703e-02
## [20236,]  6.124581e-01 -1.083215e+00 -2.449039e-02 -8.396112e-01
## [20237,] -8.004054e-01 -1.482808e+00 -1.502798e+00 -5.909389e-01
## [20238,]  2.477706e-01 -3.642627e-01  2.983369e-02  1.510945e+00
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## [20240,] -3.323403e-01 -5.258752e-01 -1.751702e+00  1.738559e-02
## [20241,]  1.281672e-01 -2.016231e-01 -1.682077e+00 -4.596403e-01
## [20242,]  1.206845e-01 -6.888501e-01 -1.339200e+00 -3.165472e-01
## [20243,]  1.106887e-01 -1.252824e+00 -7.517129e-01  1.226772e+00
## [20244,]  2.047815e-01 -8.125785e-01 -1.868059e+00 -3.550950e-01
## [20245,] -2.924127e-01  4.477680e-01 -8.992783e-03 -9.004236e-01
## [20246,]  2.491923e-01 -9.181791e-01 -4.050668e-01  1.706367e+00
## [20247,] -1.429991e-01  4.598899e-01 -3.149528e-01 -5.114128e-01
## [20248,] -2.257563e+00  6.188811e-01 -1.031041e-01 -7.618185e-01
## [20249,] -6.997605e-01  1.117412e-01 -1.560855e+00 -7.937212e-01
## [20250,]  2.263236e-02 -1.754265e+00  1.549495e+00  8.376087e-01
## [20251,] -6.883669e-01 -5.699280e-01 -1.570029e-01  1.204019e+00
## [20252,] -7.741632e-01 -1.062354e+00 -1.753406e+00  1.701670e+00
## [20253,] -2.121124e-01 -5.883567e-01  6.533709e-01  3.603984e-01
## [20254,] -1.087061e+00  3.398891e-01 -7.029715e-01 -1.516362e-01
## [20255,]  1.478720e-01 -3.851160e-02 -2.920355e-01  1.316340e+00
## [20256,]  1.095007e-01 -1.051382e+00 -1.661260e+00  1.311327e+00
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## [20259,] -5.501854e-01 -1.049202e+00  1.194745e+00 -5.281802e-01
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## [20266,]  1.255646e-01 -2.613346e-02 -1.092018e+00 -5.825355e-01
## [20267,] -7.064456e-01 -4.160780e-01  1.970491e-01 -1.722247e-01
## [20268,] -4.008400e-01  1.485459e-01 -4.239629e-01 -5.043108e-02
## [20269,]  8.937676e-01 -9.755018e-01  1.159647e+00  1.465781e+00
## [20270,]  1.208858e-01 -1.224607e+00 -2.402651e-01  1.217210e+00
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##  [20271,]  1.519586e-01 -9.835958e-01  1.070402e+00 -3.236845e-01
##  [20272,]  2.266883e-01 -4.331802e-01  2.093991e-02 -1.048351e-01
##  [20273,]  5.078993e-01 -3.414382e-01 -1.550156e+00 -9.721978e-01
##  [20274,]  1.066748e-02 -7.189152e-01  1.329224e+00 -8.880344e-01
##  [20275,]  3.821058e-01  2.507370e-01 -8.558436e-01  7.447759e-02
##  [20276,] -1.429345e+00  3.446651e-02  4.564952e-01 -1.231227e+00
##  [20277,]  6.683755e-02 -1.063349e-01 -8.440501e-01 -7.236628e-01
##  [20278,]  4.022323e-01  1.532779e-02 -4.074099e-01  7.424581e-02
##  [20279,]  1.621505e-01 -3.284724e-01 -2.421184e-01 -4.943609e-01
##  [20280,] -5.588172e-01 -7.777116e-01  1.023574e+00 -2.865968e-01
##  [20281,]  2.219698e-01 -2.224938e-01 -6.501360e-01  1.493983e+00
##  [20282,]  7.549572e-01 -5.821593e-01 -1.740619e+00 -5.260374e-01
##  [20283,]  3.595639e-01  1.207658e+00 -1.523694e+00 -1.250695e+00
##  [20284,]  7.490370e-01  2.544460e-01 -1.590135e-01 -3.240716e-01
##  [20285,] -1.777817e-01  7.762095e-01  3.250485e-02 -5.983537e-01
##  [20286,]  2.131965e-01 -2.885362e-01 -1.718538e+00 -3.968680e-02
##  [20287,]  2.020887e-02 -1.687668e+00  9.955882e-02  1.077025e+00
##  [20288,] -8.942685e-01 -1.909632e+00  1.506988e-01  1.287225e+00
##  [20289,]  8.274235e-01 -2.666044e-01  8.168988e-01  1.020785e-02
##  [20290,]  4.415168e-01 -6.338628e-01  7.553031e-01  1.673472e-01
##  [20291,]  4.967246e-02 -1.015432e+00 -8.522973e-01 -8.876000e-01
##  [20292,]  2.073174e-01 -5.818345e-01 -1.683409e+00 -4.561580e-01
##  [20293,] -5.519729e-01 -9.014665e-01 -1.619326e+00  1.477484e+00
##  [20294,]  7.558823e-01  2.652207e-02  8.906554e-01 -1.352290e-01
##  [20295,] -7.041113e-01 -5.485143e-01 -2.076735e-01 -6.619533e-01
##  [20296,]  5.423187e-01  2.123777e-01  6.528083e-01 -7.497952e-01
##  [20297,] -4.523697e-01  2.068297e+00  2.558794e-02  3.120146e-02
##  [20298,]  2.291715e-01 -3.242379e-01 -1.533910e+00  1.599840e+00
##  [20299,]  1.125104e-01 -5.599887e-01 -2.197451e-01 -4.914430e-01
##  [20300,] -2.439524e-01  3.876292e-01 -1.049482e+00 -7.938564e-01
##  [20301,]  4.492696e-01  7.886982e-02  2.822562e-01  2.656570e-01
##  [20302,]  1.584859e+00  1.084254e+00 -5.551129e-01 -2.507317e-01
##  [20303,] -1.324495e+00  1.622585e+00 -1.592768e+00 -3.844437e-01
##  [20304,] -5.831696e-01 -1.672009e+00 -1.396548e+00 -7.510260e-01
##  [20305,]  7.270539e-01 -7.845386e-01 -9.297005e-01  1.243206e+00
##  [20306,] -2.036161e+00 -7.156334e-01  1.316262e+00 -7.229007e-01
##  [20307,] -2.817068e+00  5.502399e-01 -1.386509e-01 -9.163033e-01
##  [20308,]  1.148583e+00 -3.131480e-01 -3.480663e-01 -7.654125e-01
##  [20309,] -1.154535e+00  5.464367e-01  9.920733e-01 -2.588887e-01
##  [20310,]  2.190081e-01  5.827074e-01 -3.422735e-01  1.230063e+00
##  [20311,] -1.899311e-01  9.523928e-02  4.657707e-01 -6.890737e-01
##  [20312,] -2.432918e-01 -6.571680e-01  6.901709e-01  2.811437e-01
##  [20313,] -4.893062e-01  1.230466e+00  1.552788e-01 -1.288860e+00
##  [20314,]  8.456621e-01  9.141241e-03  1.131623e+00  1.362782e+00
##  [20315,] -5.172817e-01 -5.715812e-01 -5.384475e-01  2.086161e+00
##  [20316,] -1.872759e+00  1.412745e-01 -1.402928e+00 -2.727987e-01
##  [20317,]  9.617195e-01  9.493365e-01  7.596891e-01  2.485330e-02
##  [20318,]  1.336667e-01 -1.458374e-01 -4.276698e-01  1.632296e+00
##  [20319,] -8.277044e-01 -1.081618e+00 -1.392996e-01 -5.559973e-01
##  [20320,]  8.821214e-02  6.134590e-01 -1.579060e+00  1.517853e+00
##  [20321,]  1.504194e-01 -1.712820e-01  6.670296e-02 -2.520280e-01
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##  [20323,] -2.272659e+00  2.619833e-01  1.135514e+00 -5.890742e-01
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##  [20325,]  1.512658e+00 -1.327161e-01 -4.214856e-01 -5.451571e-02
##  [20326,] -3.958757e-01 -1.259097e+00 -2.830970e-01 -2.052004e-01
##  [20327,]  8.468967e-01  4.798652e-01  7.445318e-01 -1.181292e-01
##  [20328,] -1.428642e-02 -9.120384e-01  1.265721e+00 -6.247321e-01
##  [20329,] -2.065948e+00 -1.143258e+00  1.013649e+00 -1.981566e-01
##  [20330,] -1.297755e+00 -2.252373e-01 -4.113474e-01 -2.052811e-01
##  [20331,]  1.459469e-01 -1.263655e+00  1.153219e+00  1.187577e+00
##  [20332,] -3.392328e+00  7.281785e-01  1.033438e+00 -5.077852e-01
##  [20333,] -2.393713e+00  7.064861e-01 -6.993100e-01  1.788229e-01
##  [20334,]  1.179661e+00 -1.051599e+00  1.302713e+00 -7.316171e-01
##  [20335,]  6.802343e-01 -1.377085e+00  1.296847e+00 -6.176280e-01
##  [20336,] -1.516614e+00  6.515800e-01 -3.840055e-01 -6.745534e-01
##  [20337,]  1.345024e+00  4.186596e-01 -2.069815e-01 -1.736186e-01
##  [20338,] -1.048349e+00  1.426792e+00 -6.096999e-01 -4.965381e-01
##  [20339,] -7.179774e-01  8.719182e-01  1.162771e+00 -7.512028e-01
##  [20340,] -5.656840e-01 -7.822264e-01  8.671238e-01  1.966513e+00
##  [20341,] -2.138609e+00 -6.398011e-01 -1.041773e-01 -5.290181e-01
##  [20342,] -6.181488e-01 -8.875584e-01 -2.401218e-01  1.156241e+00
##  [20343,]  1.907700e-01 -8.109762e-01 -1.534159e+00  1.296654e+00
##  [20344,]  6.550410e-02 -9.281261e-01 -1.742890e+00 -5.920266e-01
##  [20345,]  3.167330e-01 -6.843431e-01 -5.998021e-01  2.136529e-01
##  [20346,]  6.465777e-01 -3.388678e-01 -1.133613e+00 -4.868259e-01
##  [20347,] -7.771254e-01  2.028571e+00  7.616024e-02 -8.955840e-01
##  [20348,] -7.552451e-01  1.783825e+00 -4.109954e-01  1.331898e+00
##  [20349,]  7.962957e-01 -6.872042e-01  1.115616e+00 -3.651416e-01
##  [20350,] -2.221101e+00 -2.885187e-01 -1.709674e+00 -6.184737e-01
##  [20351,]  2.962734e-01  2.834184e-01  1.364399e+00 -1.187338e+00
##  [20352,]  7.628217e-01 -2.489847e-01  1.032524e+00 -2.807076e-01
##  [20353,]  1.953632e-01 -5.583311e-01 -2.848868e-01 -3.054076e-01
##  [20354,]  7.497948e-01  5.513017e-01  3.475077e-01 -2.993086e-01
##  [20355,]  1.198130e+00 -8.825913e-01  1.359177e+00 -8.101588e-01
##  [20356,] -6.537313e-01  4.376661e-01 -3.483338e-01 -4.672745e-01
##  [20357,]  7.223240e-01 -4.117816e-01 -8.366205e-01 -7.377429e-01
##  [20358,] -1.715738e+00  1.140715e-01  1.131771e+00 -5.955927e-01
##  [20359,] -1.601942e+00  2.040088e-01  1.286123e+00  8.775182e-01
##  [20360,]  4.153313e-02 -7.217114e-01 -1.546575e+00 -6.258763e-01
##  [20361,] -8.467776e-01 -9.493421e-01 -1.279622e+00 -1.079622e+00
##  [20362,] -2.208909e+00  8.822140e-01  1.273548e+00  9.220757e-01
##  [20363,]  5.339463e-01 -4.904165e-01  1.206204e+00 -7.201207e-01
##  [20364,]  6.071556e-01 -7.806530e-01  1.283165e+00 -7.134738e-01
##  [20365,] -7.515366e-01  2.575759e-01 -3.180809e-02 -9.265943e-01
##  [20366,]  1.548249e-01 -7.799147e-01 -3.468197e-01 -6.259588e-01
##  [20367,] -2.051642e+00 -3.348696e-01 -1.481280e+00  1.530888e+00
##  [20368,]  2.712444e-01 -2.721254e-02 -2.084489e+00 -9.152604e-02
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##  [20369,] -1.675232e+00  3.039339e+00  7.017029e-02  1.095676e+00
##  [20370,]  6.128225e-01  2.273548e-01  1.118632e+00  1.372114e+00
##  [20371,] -1.367191e+00 -1.691868e+00 -4.099760e-01 -5.830510e-01
##  [20372,] -8.178709e-01  2.084089e+00  3.276786e-02 -6.702947e-01
##  [20373,] -5.202644e-01  6.630032e-01 -5.382322e-01 -7.030327e-01
##  [20374,]  2.810064e-01 -1.377478e-01 -2.038147e+00  1.495421e-01
##  [20375,] -7.296061e-02 -6.967177e-01 -1.844658e-01  1.297239e+00
##  [20376,]  9.513226e-01 -5.519065e-01  1.013673e+00  1.660917e+00
##  [20377,]  8.375990e-01 -5.279977e-01  7.488576e-01  1.822254e+00
##  [20378,] -7.263573e-01 -6.670798e-01 -1.551421e+00 -5.479687e-01
##  [20379,] -7.216712e-01  4.999372e-01 -2.338643e-01 -5.826290e-01
##  [20380,] -6.894938e-01  4.426328e-01  1.152605e+00  1.328427e+00
##  [20381,]  2.422804e-01 -2.254925e-01  1.151409e+00  1.520219e+00
##  [20382,]  1.619057e+00  1.412725e+00  8.535154e-01 -1.158273e-01
##  [20383,] -6.533337e-02 -6.821695e-01  1.147059e+00 -9.130713e-01
##  [20384,]  9.112557e-01 -1.094765e+00  1.104010e+00  1.511066e+00
##  [20385,]  6.019092e-01  2.687532e+00  1.031840e+00 -4.739479e-01
##  [20386,]  3.865284e-01 -3.049184e-01 -6.207358e-01  2.069431e-01
##  [20387,]  9.085802e-01  9.504383e-01  8.220988e-01 -1.015380e-01
##  [20388,] -4.159357e-01  4.244316e-01  9.080856e-01 -1.892824e-01
##  [20389,] -6.530843e-01 -1.400209e+00 -7.751374e-01 -6.390857e-01
##  [20390,]  1.021860e+00  7.309732e-01  7.705279e-01  1.977908e+00
##  [20391,] -2.155982e+00 -6.271782e-01 -1.680479e+00 -6.145170e-01
##  [20392,] -1.274045e+00  8.429939e-02 -2.464644e-01 -3.981163e-01
##  [20393,] -3.634436e-01  8.049487e-01 -1.587378e+00 -7.041310e-02
##  [20394,]  2.867039e-01 -5.796088e-01 -1.892620e+00 -2.935981e-01
##  [20395,]  1.407490e+00 -3.307513e-01 -7.971913e-01 -4.663044e-01
##  [20396,]  7.469950e-02 -1.338010e+00 -1.285469e+00  1.314186e+00
##  [20397,]  6.550918e-01 -1.161867e+00  4.713954e-01  1.156135e+00
##  [20398,] -5.071519e-01 -4.651467e-01 -1.419519e+00  5.346940e-02
##  [20399,] -1.386747e+00 -8.547254e-01 -1.363661e+00  1.291703e+00
##  [20400,] -3.146681e+00 -6.376945e-01 -3.167339e-01  1.772674e+00
##  [20401,] -1.510560e+00  5.507478e-01  8.665363e-01  1.541054e+00
##  [20402,] -8.934332e-01  1.347094e+00  7.437566e-01 -6.487184e-01
##  [20403,]  1.864657e-01 -8.803737e-01 -3.894874e-01  1.298292e+00
##  [20404,]  1.008823e+00  4.539395e-01  6.148402e-01  4.008231e-01
##  [20405,] -8.006614e-01  1.551592e+00 -1.635510e+00 -1.061626e+00
##  [20406,] -1.984753e+00  8.986965e-01  6.683908e-01  1.874726e-01
##  [20407,]  1.204764e-01 -1.192457e+00 -1.089149e-01  1.485987e+00
##  [20408,]  8.393539e-01  7.555096e-02  4.459138e-02 -5.212532e-01
##  [20409,] -2.082943e+00 -2.464356e-01  9.898412e-01  1.706550e+00
##  [20410,]  8.255364e-03 -4.676752e-01 -1.396422e+00 -9.403011e-01
##  [20411,] -8.253386e-01 -1.686727e-01  3.486828e-01 -4.414743e-01
##  [20412,] -1.742118e-01 -1.162586e+00  6.732242e-01 -8.219562e-01
##  [20413,] -1.329299e-02  1.901637e+00 -1.622607e+00 -6.496907e-01
##  [20414,]  1.130330e+00  2.916573e+00  9.925507e-01 -7.860193e-01
##  [20415,]  3.386605e-02  4.287845e-01 -1.819548e+00 -6.186006e-01
##  [20416,]  5.797027e-01 -9.011716e-01 -8.884383e-01  1.109169e+00
##  [20417,]  3.167026e-02 -7.005344e-01 -4.977180e-01  9.641681e-01
##  [20418,] -1.043343e-01 -6.185415e-02  6.887045e-02 -1.108585e+00
##  [20419,] -3.962578e-02 -8.297668e-01  1.196133e+00 -6.442587e-01
##  [20420,]  2.355108e-01  1.940416e-01 -2.069094e+00  1.792518e+00
##  [20421,] -9.099964e-01  2.158304e+00 -1.451707e-01 -4.680293e-01
##  [20422,] -1.196650e+00 -6.236038e-01 -2.313798e+00  4.026866e-01
##  [20423,]  6.638942e-01 -5.531004e-01 -1.314100e+00 -4.721881e-01
##  [20424,]  6.632353e-02 -7.397655e-01 -1.946541e+00 -2.191303e-01
##  [20425,]  8.904845e-01  1.459180e-01  8.279570e-01 -1.857338e-02
##  [20426,] -2.843642e+00  1.451860e+00 -1.207661e+00 -7.346369e-01
##  [20427,] -2.582682e+00 -1.055031e+00  8.839328e-01 -5.265024e-01
##  [20428,]  9.161425e-01 -1.338781e-01 -1.355171e+00  2.034663e-01
##  [20429,]  7.640601e-01 -5.134959e-02  9.854933e-01  1.606823e+00
##  [20430,]  1.033245e-01 -9.066942e-01  9.200454e-01 -7.488296e-02
##  [20431,]  4.508210e-01 -3.500277e-01  1.462299e+00 -1.142245e+00
##  [20432,] -1.819689e+00  1.128658e-01 -4.360121e-01 -1.061599e-01
##  [20433,] -2.683222e+00  1.528831e-01  1.000277e+00 -1.675860e-01
##  [20434,]  5.303968e-01 -8.779628e-01 -1.598876e+00 -8.602455e-01
##  [20435,] -2.460613e+00  1.690274e+00 -3.250731e-04  3.207678e-01
##  [20436,]  2.710393e-01 -3.333245e-01 -1.267962e+00 -2.567740e-01
##  [20437,] -5.139813e-01 -1.217276e+00 -2.475805e-01  1.586113e+00
##  [20438,] -2.267008e+00  9.742668e-01  6.052180e-01 -4.211934e-01
##  [20439,]  8.116363e-01  4.941946e-01 -7.943252e-01 -9.519175e-02
##  [20440,]  1.268974e+00 -4.611209e-01 -3.627770e-01  1.212942e+00
##  [20441,]  9.283418e-01 -2.724905e-01 -5.892755e-01 -3.507047e-01
##  [20442,]  9.456406e-01  1.473795e-01 -4.703035e-01 -2.607507e-01
##  [20443,] -3.271561e-01  6.881505e-02  4.699913e-01  1.786391e-01
##  [20444,]  1.656187e-01 -9.909959e-01 -3.646687e-01 -1.884193e-01
##  [20445,] -1.502950e+00  2.841828e-01 -1.885855e-01 -6.503539e-01
##  [20446,] -6.488859e-01  4.302026e-01  9.912762e-01 -3.902897e-01
##  [20447,]  6.781344e-01 -6.049976e-01 -2.450240e-01  1.380819e+00
##  [20448,]  9.149552e-01  2.068777e-01 -1.771832e+00 -7.582105e-02
##  [20449,]  1.241623e+00 -4.857749e-01 -1.071556e-01 -7.369570e-01
##  [20450,] -2.217021e+00 -3.924085e-01 -8.650966e-01 -5.780417e-01
##  [20451,]  3.667980e-01 -1.242480e+00  2.417922e-01 -1.249112e+00
##  [20452,] -2.437107e+00  3.826949e-01 -1.265134e+00 -1.262563e+00
##  [20453,] -1.283738e+00  1.721726e+00  3.817537e-01 -4.157250e-01
##  [20454,]  6.114467e-01 -7.940258e-01  3.011694e-01 -6.083011e-01
##  [20455,]  5.407344e-01  5.504532e-02  1.167883e+00 -6.538171e-01
##  [20456,] -9.384654e-01 -1.002828e+00 -1.749597e+00 -5.402398e-01
##  [20457,]  1.437654e-01 -7.926677e-01  1.155025e+00  1.409195e+00
##  [20458,]  3.808835e-01  9.162501e-01 -1.392809e+00 -1.119068e+00
##  [20459,] -5.646736e-01  2.110314e+00  5.305760e-01 -3.397297e-01
##  [20460,]  3.172546e-01  1.435577e+00  1.513459e+00 -1.472653e+00
##  [20461,] -1.507956e+00  1.844883e+00 -4.935389e-01  1.088710e+00
##  [20462,]  7.024322e-01 -7.414814e-02  1.117176e+00 -4.165812e-01
##  [20463,] -6.438548e-01  4.062967e-02 -8.309952e-02 -8.018322e-01
##  [20464,] -1.466750e+00  3.236964e-01 -1.756098e+00  1.822311e+00
##  [20465,]  6.410031e-01 -5.204606e-01 -1.583367e+00 -6.443400e-01
##  [20466,] -1.416310e+00 -1.197477e-01 -6.150409e-01 -2.376320e-01
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## [20467,]  1.094227e+00 -2.980642e-01  1.447627e+00  9.583018e-01
## [20468,] -1.927439e+00  9.472918e-01 -2.167270e+00  1.200023e-01
## [20469,] -2.240006e+00 -4.941319e-01  2.541662e-01 -7.632544e-01
## [20470,] -1.960014e-01  1.070846e-01 -7.864754e-01  4.096298e-01
## [20471,] -5.599881e-02  3.972527e+00  1.851953e-01  1.165373e+00
## [20472,]  6.388355e-01  1.490335e+00 -1.913330e+00 -7.228610e-01
## [20473,]  1.228874e+00 -3.846162e-01 -2.345197e-01 -5.311700e-01
## [20474,] -1.317692e+00  2.149525e+00  6.974217e-01  2.655513e-01
## [20475,]  1.491482e-01 -1.202572e+00 -1.537707e+00  1.120416e+00
## [20476,]  8.415627e-01 -7.183617e-02  1.099590e+00  1.449531e+00
## [20477,] -2.220325e+00 -2.013057e-01  1.248086e+00  1.159417e+00
## [20478,]  5.368937e-02 -9.147070e-01  1.113428e+00 -4.377466e-01
## [20479,]  7.837235e-01 -2.054553e-01 -4.828156e-01 -9.936498e-02
## [20480,] -4.519391e-01 -1.210936e+00 -3.171468e-01  1.733075e+00
## [20481,]  1.168928e+00  6.530736e-01 -2.475023e-01 -8.023476e-01
## [20482,] -1.421086e-01 -6.307712e-01 -5.069569e-01  6.884510e-01
## [20483,] -3.129442e+00 -8.100878e-01 -1.143386e+00 -2.996088e-01
## [20484,] -1.400443e+00  5.056422e-01 -1.195054e+00 -4.409490e-01
## [20485,]  9.633781e-01 -2.299586e-01  8.946831e-01 -1.046201e-01
## [20486,] -6.681673e-01 -9.875301e-01 -1.826978e+00  1.605955e+00
## [20487,]  7.041454e-01  4.161270e-01 -4.238041e-01 -2.316614e-01
## [20488,]  2.031678e-01  2.313964e+00  1.495881e+00 -1.269603e+00
## [20489,] -2.710624e+00  1.046811e+00  3.692021e-01 -2.802800e-01
## [20490,] -6.109817e-01  1.378494e+00  1.128685e+00 -6.708691e-01
## [20491,]  8.116424e-01 -6.179833e-01 -1.534770e+00  1.253364e+00
## [20492,] -2.003142e+00 -9.914833e-01 -1.421421e+00 -7.393894e-01
## [20493,]  8.793028e-01 -6.587502e-01 -2.356825e-01  1.465781e+00
## [20494,] -1.211771e+00 -9.060794e-02  1.056309e+00 -4.402081e-01
## [20495,] -7.766017e-01 -7.106791e-01 -1.426822e+00 -8.726099e-01
## [20496,] -4.071605e-01 -5.219677e-01 -4.585611e-01 -1.125184e-01
## [20497,] -1.332915e+00  1.348745e-01  2.380256e-01 -5.325592e-01
## [20498,] -2.596431e+00  8.261798e-02  7.953891e-01  1.414169e+00
## [20499,]  7.988258e-01 -7.303142e-02 -1.087519e+00 -2.957709e-01
## [20500,] -8.356548e-01 -1.167640e+00  1.191486e+00 -5.607824e-01
## [20501,] -1.456135e+00 -1.760804e-01 -1.867373e+00 -3.646945e-01
## [20502,]  7.765526e-01 -7.448951e-01  1.129422e+00 -4.130209e-01
## [20503,]  1.505022e+00  1.290981e+00  8.742984e-01 -3.563921e-01
## [20504,]  8.238160e-01 -1.664599e-01  2.028405e-01 -4.681873e-01
## [20505,]  8.649382e-01  5.740686e-01  8.243604e-01  5.287293e-02
## [20506,] -1.424167e-01  3.542428e-01 -6.262201e-02 -7.899603e-01
## [20507,]  7.593462e-01  5.033834e-01  1.102936e+00 -6.155548e-01
## [20508,]  8.475701e-01 -2.095992e-01  1.078044e+00 -4.848200e-01
## [20509,] -1.114381e+00  1.509597e-01 -4.142417e-01 -1.991188e-01
## [20510,]  6.219766e-01  7.625440e-01  1.302738e+00 -9.372042e-01
## [20511,]  8.773412e-01  3.976839e-01  7.025940e-01  1.966451e-01
## [20512,] -4.127821e-01  6.303114e-01 -4.788723e-01  2.438426e+00
## [20513,]  3.268967e-01 -1.837682e-01 -2.223035e+00  1.446937e-01
## [20514,]  9.325500e-02  1.063790e-01 -4.090684e-02 -6.557929e-01
## [20515,] -1.855689e+00 -2.133507e-01  1.031636e+00 -2.315263e-01
## [20516,] -5.480742e-01 -1.897536e-01  2.992715e-01 -4.166672e-01
## [20517,] -7.894893e-01 -1.321524e+00 -9.829313e-01 -5.384121e-01
## [20518,] -5.358902e-01  7.740397e-01  1.024899e+00 -4.410138e-01
## [20519,] -1.568129e+00  3.079607e-01  1.266348e+00 -8.285666e-01
## [20520,]  6.262863e-01  8.615913e-01 -1.913479e+00 -5.246842e-01
## [20521,]  2.404325e-01 -9.759137e-01 -1.469514e+00 -4.273013e-01
## [20522,] -5.717017e-01 -1.290044e+00  1.249320e+00 -6.071057e-01
## [20523,] -4.032044e-01  2.607752e-01  1.496427e+00 -1.386167e+00
## [20524,]  8.914197e-01  8.654818e-01 -2.409862e-01 -3.286458e-01
## [20525,]  9.839958e-01 -3.228263e-01 -5.627121e-03 -9.115624e-02
## [20526,] -1.426085e+00 -9.078454e-01 -1.668788e+00  1.625897e+00
## [20527,]  4.155923e-01 -2.140264e-01 -5.595517e-01  1.924358e+00
## [20528,]  8.323912e-01 -6.428277e-02  1.613571e+00 -1.452603e+00
## [20529,] -6.379499e-02  1.686912e-02  1.216210e+00 -7.269990e-01
## [20530,]  1.231286e-01 -4.585760e-01 -1.516686e+00  1.464799e+00
## [20531,] -1.346990e+00 -5.418306e-01  1.341034e+00 -8.388471e-01
## [20532,]  1.283934e-03 -6.714140e-01 -1.867267e-01 -3.410990e-01
## [20533,]  1.245375e+00  4.017194e-02 -3.483517e-01 -4.820093e-01
## [20534,]  9.252963e-02 -7.866867e-01 -1.940381e-01 -4.667471e-01
## [20535,]  7.080181e-01 -3.491530e-01  2.208386e-01 -5.367471e-01
## [20536,]  2.096564e-01 -9.377658e-01  1.108409e+00 -4.348118e-01
## [20537,] -3.754497e-02  1.849338e+00 -4.004171e-01 -7.413869e-01
## [20538,] -1.596330e+00 -4.508106e-02  8.331429e-01 -6.238226e-01
## [20539,] -1.147250e+00  3.043233e-01  8.427722e-01 -3.084422e-02
## [20540,] -8.905007e-01 -1.634733e+00 -6.719230e-01 -8.017434e-01
## [20541,]  2.580728e-01 -5.335683e-01 -1.238552e+00  6.423196e-02
## [20542,]  1.381275e+00  1.149620e+00  1.782102e-01  1.804347e+00
## [20543,] -2.220885e+00 -7.676049e-01  1.774675e-01 -5.754137e-01
## [20544,] -5.039039e-01 -1.086185e-01  1.167266e+00 -5.813450e-01
## [20545,]  9.332278e-02  1.810456e+00 -2.808872e-01  1.338992e+00
## [20546,]  4.375870e-01  2.500466e+00  3.239279e-01  1.044980e+00
## [20547,] -8.934561e-02 -3.219570e-01  1.602083e+00  5.162712e-01
## [20548,] -5.064784e-01  4.306789e-01  8.899097e-01 -4.919634e-02
## [20549,] -2.156479e+00  4.897146e-01 -4.480626e-01 -3.395765e-01
## [20550,]  8.100810e-01  4.522257e-01 -4.380805e-01 -1.944369e-01
## [20551,] -2.215406e+00 -4.915321e-01 -2.574586e-02 -7.863877e-01
## [20552,]  1.014240e+00  1.011283e+00  1.282153e+00 -1.079503e+00
## [20553,] -9.260597e-02 -2.001530e-01 -1.580082e-02 -9.945868e-01
## [20554,] -3.766329e-01 -4.319508e-01 -6.530271e-01  3.800762e-01
## [20555,]  3.113241e-01 -6.196685e-01 -3.677920e-01 -1.777796e-01
## [20556,] -5.352135e-02  9.476151e-01 -4.823906e-01 -6.487099e-01
## [20557,]  4.611352e-04 -5.896637e-01 -1.688303e-01  1.090583e+00
## [20558,] -1.333895e+00 -2.395764e-01  1.037402e+00 -3.269298e-01
## [20559,]  7.650934e-01  8.921258e-01 -5.689644e-02 -4.832470e-01
## [20560,] -2.361310e-01  6.979726e-01 -8.065512e-03 -1.160763e+00
## [20561,] -7.151329e-01  7.364493e-01 -4.589209e-01 -9.069767e-02
## [20562,]  6.959822e-01 -7.144906e-01  1.056500e+00 -3.649375e-01
## [20563,]  7.152171e-02 -1.323001e+00 -8.236028e-01 -5.055880e-01
## [20564,] -7.417384e-01  9.605404e-03  2.509295e-01 -6.547588e-01
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##  [20565,]  8.616576e-01  4.241549e-01  4.825081e-01 -6.846094e-02
##  [20566,]  1.311061e+00  7.693087e-02  9.259076e-01 -2.591600e-01
##  [20567,]  6.830909e-01 -7.198885e-01 -1.712877e-01 -5.333549e-01
##  [20568,]  7.079673e-01  5.659292e-01 -4.820564e-01 -1.928702e-01
##  [20569,]  2.387949e-01 -4.436484e-01 -1.812452e+00  1.448143e+00
##  [20570,]  6.744041e-01  1.036785e+00 -7.424739e-01 -2.547273e-01
##  [20571,] -8.353681e-02  1.209749e+00 -1.630995e+00 -6.131059e-01
##  [20572,] -6.379321e-01 -1.956580e+00 -1.283583e-02 -6.479881e-01
##  [20573,] -1.206148e+00 -5.301007e-02 -2.520283e-01  1.206214e-02
##  [20574,]  1.172718e-01 -1.215875e+00 -1.367736e+00 -5.975404e-01
##  [20575,]  5.291527e-02  3.993387e-01 -5.829167e-01 -4.436859e-01
##  [20576,]  7.864139e-01 -1.165134e+00  1.363989e+00 -7.746350e-01
##  [20577,]  1.232140e+00  4.809984e+00  9.305684e-01 -7.329599e-02
##  [20578,]  7.434685e-01 -8.642244e-01 -2.880594e-01 -3.840374e-01
##  [20579,]  6.790045e-01 -8.307569e-01 -1.614276e+00 -7.378295e-01
##  [20580,] -1.414017e+00 -1.747275e+00 -2.247151e-01  1.620221e+00
##  [20581,] -6.249090e-01 -1.419665e+00  1.317017e+00  1.288252e+00
##  [20582,] -7.068005e-01 -1.163148e+00  5.865524e-01  3.919055e-02
##  [20583,]  5.226798e-01 -5.186513e-01 -1.516709e+00  8.866286e-01
##  [20584,]  8.373903e-01 -1.122883e+00  1.226344e+00 -5.335345e-01
##  [20585,]  8.299739e-01  2.809133e-01  4.271356e-01 -3.678959e-01
##  [20586,] -6.864526e-01 -8.473549e-02  1.043827e+00 -4.947307e-01
##  [20587,]  1.923573e-01 -7.971611e-01  1.070606e+00  1.623560e+00
##  [20588,]  7.420205e-02 -2.973626e-02  1.147656e+00 -6.494155e-01
##  [20589,]  1.017058e+00 -9.365054e-02 -7.870437e-01 -4.352156e-03
##  [20590,] -5.412528e-01  7.634423e-01 -1.939852e-01  1.345640e+00
##  [20591,]  9.356187e-01 -3.404409e-02 -4.318746e-01 -3.070881e-01
##  [20592,]  1.530849e-01  5.493928e-01  9.959757e-01 -4.063643e-01
##  [20593,] -5.221727e-01 -3.573100e-01 -1.911613e+00 -2.434795e-01
##  [20594,]  9.046680e-01 -2.825055e-01 -1.004077e+00 -4.002251e-01
##  [20595,]  1.981895e-01 -6.074636e-02  1.010455e+00 -3.595225e-01
##  [20596,] -4.850005e-01 -3.490952e-01 -1.875358e+00 -3.613366e-01
##  [20597,]  9.596232e-01  1.904118e-02 -1.127760e-02  1.585260e+00
##  [20598,]  1.321682e+00  6.649245e-01 -3.728146e-02 -6.146554e-01
##  [20599,]  5.217344e-02 -6.986304e-01  1.298908e+00 -7.942408e-01
##  [20600,]  2.415024e-01 -3.996789e-01 -7.142046e-01 -3.122407e-01
##  [20601,] -1.062927e+00  4.220752e-01  8.740646e-01  1.808076e+00
##  [20602,] -1.801430e-01  1.828975e-01 -8.729378e-01  4.634371e-01
##  [20603,]  9.370605e-01  2.071063e+00 -4.262463e-01  3.607330e-01
##  [20604,] -2.275828e+00 -6.678381e-01  1.346358e+00 -8.260208e-01
##  [20605,]  3.298860e-01 -2.068458e-01 -1.456307e+00  1.489282e-01
##  [20606,]  5.431142e-01 -9.319379e-01  6.592804e-01  1.043172e+00
##  [20607,] -6.080370e-01  8.479860e-01  9.197333e-01 -4.082370e-01
##  [20608,]  6.189325e-01  2.136441e-02 -2.898056e-01 -4.749512e-01
##  [20609,]  1.070837e-01  1.252698e+00 -4.828045e-01 -3.757192e-01
##  [20610,] -1.495919e+00 -9.607104e-01  1.012671e+00  1.655272e+00
##  [20611,] -1.916744e+00  4.007920e-01 -1.928335e+00 -3.579944e-01
##  [20612,] -1.022555e+00  1.192484e+00  8.481102e-01  9.815106e-02
##  [20613,] -5.015770e-01 -7.310103e-01  1.084634e+00  1.483433e+00
##  [20614,]  5.815089e-01 -1.150782e+00 -3.758015e-01  1.116535e+00
##  [20615,]  9.653557e-01  2.448336e+00 -1.693469e+00 -1.045357e+00
##  [20616,]  1.020450e+00  4.530325e-01  7.968334e-01  2.030703e-03
##  [20617,] -6.999579e-01  5.440536e-01 -1.007567e-01 -9.235940e-01
##  [20618,]  6.999772e-01  6.124024e-01  1.162531e+00 -6.559487e-01
##  [20619,]  3.947487e-01 -4.276935e-01  6.088927e-01  7.435197e-02
##  [20620,] -1.828907e+00  2.314631e+00 -6.386251e-01  5.221100e-02
##  [20621,]  1.626824e-01 -4.973244e-01  3.440249e-02 -1.507297e-01
##  [20622,] -1.568238e+00  1.227572e+00  1.314640e-01 -1.192549e+00
##  [20623,] -7.501590e-01  1.043959e+00 -1.751346e+00 -8.689343e-01
##  [20624,]  1.282000e+00 -3.606936e-01  4.796590e-01 -6.393246e-01
##  [20625,]  2.371979e-01 -3.559977e-01 -3.556316e-02 -3.406386e-01
##  [20626,]  7.003951e-01 -6.427295e-01 -1.958877e-01 -3.824224e-01
##  [20627,] -7.704537e-01  1.203921e+00 -1.462185e+00 -9.314549e-01
##  [20628,]  2.779506e-01  8.967972e-01  4.528866e-01 -1.687644e+00
##  [20629,]  5.037288e-01  3.214487e-01  3.929594e-01  4.188118e-01
##  [20630,] -3.069477e-02 -8.746502e-01  1.365227e+00  1.075638e+00
##  [20631,]  1.109906e+00  2.489451e+00  6.232493e-01  6.548286e-01
##  [20632,]  8.203597e-01 -2.548559e-01 -4.198505e-01 -1.423561e-01
##  [20633,] -5.393145e-02  1.175647e-01  1.709555e-01  1.117223e+00
##  [20634,]  6.884763e-02 -9.274857e-01  9.685365e-01 -1.612475e-01
##  [20635,] -7.460072e-01 -2.942054e-01 -3.543081e-02  1.096687e+00
##  [20636,]  4.040259e-01 -1.743057e-02  1.478510e+00 -1.215944e+00
##  [20637,] -8.904123e-01 -1.292485e+00 -1.598416e+00  1.334668e+00
##  [20638,]  7.971778e-01  6.049250e-01  1.024448e+00  1.795350e+00
##  [20639,] -9.128948e-01  9.786479e-01  4.096828e-01 -9.771042e-01
##  [20640,] -2.683294e+00  1.232092e+00 -8.406438e-01 -4.902313e-02
##  [20641,] -7.029711e-01  7.372954e-01 -8.207833e-01 -7.884767e-01
##  [20642,] -6.168731e-01  1.308062e-01  1.031559e+00 -5.167735e-01
##  [20643,] -8.394317e-01 -1.836126e+00  1.175856e+00 -3.427918e-01
##  [20644,] -1.982099e+00 -9.619210e-01  1.349736e+00  1.208232e+00
##  [20645,]  1.400288e-01 -2.756735e-01  1.074676e+00 -2.973858e-01
##  [20646,] -2.771566e-01  6.739288e-02  1.320350e+00 -8.935502e-01
##  [20647,]  5.457447e-01  1.472604e+00  9.882782e-01 -5.677785e-01
##  [20648,]  3.572274e-01 -4.081198e-02  7.139057e-01  2.735990e-01
##  [20649,] -6.764937e-01 -4.648547e-01  1.339262e+00 -8.282381e-01
##  [20650,]  5.741609e-01 -5.326284e-01  1.286007e+00 -8.509055e-01
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##  [20652,] -1.269970e+00 -1.339887e+00 -1.522559e-01 -3.089382e-01
##  [20653,]  1.101466e+00  5.870396e-01  1.220080e+00 -8.452203e-01
##  [20654,] -1.227045e+00  4.049546e-01  1.121434e+00 -4.572018e-01
##  [20655,]  9.652291e-01  4.128680e-01  2.654801e-01  1.751654e+00
##  [20656,]  4.874756e-01  2.142151e+00 -1.105046e-01 -7.444034e-01
##  [20657,]  8.813785e-01 -3.251687e-01 -1.507499e+00 -4.926297e-02
##  [20658,] -4.747997e-01  1.038403e+00 -2.495422e-01 -5.531556e-01
##  [20659,]  1.047514e+00  6.477469e-01  9.214659e-01 -9.767348e-01
##  [20660,] -2.802204e-01 -7.545248e-02 -8.472491e-01  2.039039e+00
##  [20661,]  1.425395e-01  1.617629e-01  8.643379e-01 -1.870344e-01
##  [20662,] -2.015142e+00  2.567993e-01 -1.593578e+00 -6.122487e-01
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##  [20663,]  1.340736e+00  8.507194e-01  9.939185e-01 -4.547972e-01
##  [20664,] -1.215285e+00  4.692588e-01 -3.180140e-01 -4.084055e-01
##  [20665,] -2.491348e+00 -4.454376e-01 -5.593484e-01 -6.991415e-02
##  [20666,]  1.082707e-01 -9.758257e-01 -1.623646e+00  1.211739e+00
##  [20667,] -2.113076e+00 -2.656819e-01 -5.528936e-01 -3.261054e-01
##  [20668,] -1.359201e+00 -2.357877e-01 -1.266626e+00  1.152610e+00
##  [20669,]  8.384771e-01  4.775170e-01 -1.901416e+00 -4.968927e-01
##  [20670,]  1.479139e+00  1.012617e+00  2.857741e-01 -4.899853e-01
##  [20671,] -2.741140e-01  6.320739e-01 -8.572491e-01 -1.099700e+00
##  [20672,]  2.363196e-01 -8.484787e-02  3.560302e-01 -1.331707e-01
##  [20673,]  7.517390e-01 -7.895998e-01 -1.533766e+00 -5.527098e-01
##  [20674,] -8.742594e-01 -8.813886e-01 -1.671607e+00 -3.652089e-01
##  [20675,] -2.176689e-01 -2.213051e-01 -9.275060e-01  5.715373e-01
##  [20676,] -2.763213e+00  9.281577e-01  1.009479e+00 -5.046910e-01
##  [20677,] -1.271566e+00  1.435599e-01 -8.993643e-02 -1.845009e-01
##  [20678,]  7.792890e-01 -6.195317e-01 -1.613317e+00  1.149910e+00
##  [20679,] -2.067543e-01  1.104261e+00  1.210654e+00 -9.276799e-01
##  [20680,]  7.563685e-01  2.881954e-02  1.015044e+00  1.587133e+00
##  [20681,]  1.388326e+00  4.449682e-01  1.067276e+00  1.616979e+00
##  [20682,] -1.273818e+00 -5.799231e-01 -7.355829e-01  4.486338e-01
##  [20683,]  1.580594e-01 -3.897930e-01 -1.592609e-01 -5.226927e-01
##  [20684,] -2.673688e+00  6.724416e-01  9.294285e-01 -2.294840e-01
##  [20685,] -1.790883e+00 -1.751472e+00 -1.155503e+00  1.772264e+00
##  [20686,]  1.034613e+00  5.986388e-01  9.478676e-01 -1.014940e+00
##  [20687,] -6.698869e-01 -1.463069e-01  1.208744e+00  1.304683e+00
##  [20688,]  6.085354e-01 -1.353585e-01  1.062540e+00 -4.972305e-01
##  [20689,] -3.766940e-02  4.716163e-01  1.295135e+00  1.051425e+00
##  [20690,] -1.990449e+00  5.612994e-01 -2.011933e-02 -3.226316e-02
##  [20691,] -1.707094e+00 -1.590870e-01  8.179158e-03 -9.101086e-01
##  [20692,] -2.210357e+00  1.582702e+00 -4.569252e-01 -3.856155e-01
##  [20693,] -2.006231e+00 -1.340405e+00 -1.696430e-01 -2.399369e-01
##  [20694,] -7.556872e-01 -6.932876e-01  1.133429e+00 -5.275820e-01
##  [20695,]  1.083292e+00 -6.328592e-01  1.461798e+00 -1.125643e+00
##  [20696,]  9.807501e-02 -6.389979e-02 -7.396308e-01 -4.716240e-02
##  [20697,]  1.034355e-01  9.629741e-01  1.195984e+00  9.744972e-01
##  [20698,] -3.670244e-01  9.779467e-01 -5.524780e-01  6.493450e-02
##  [20699,] -1.225449e+00 -5.514001e-02 -1.777799e+00 -5.594538e-01
##  [20700,]  9.311475e-01 -4.706743e-01 -4.716479e-01 -1.122134e-02
##  [20701,]  5.534170e-01  6.162021e+00  8.112514e-01  2.714552e+00
##  [20702,] -1.312453e+00  4.939453e-01 -3.497200e-01 -4.078523e-01
##  [20703,]  5.339562e-01 -9.199694e-01 -1.387939e-02 -8.071121e-01
##  [20704,]  3.175171e-02  1.439933e+00 -9.861630e-02 -8.462728e-01
##  [20705,] -1.515857e+00  5.019629e-01 -9.502510e-01 -9.331056e-01
##  [20706,]  7.968039e-01 -2.739366e-01 -1.406361e+00 -3.369296e-01
##  [20707,] -2.151025e+00 -1.621595e-01 -1.900459e-01  1.454987e+00
##  [20708,] -1.187123e+00 -6.782965e-01 -8.882260e-01  4.013504e-01
##  [20709,]  6.849879e-01 -2.485366e-01  3.226825e-01 -3.643840e-01
##  [20710,] -6.607385e-01  6.908083e-02  7.615774e-01  2.377892e-02
##  [20711,]  5.636337e-02 -1.625493e+00  9.755478e-01 -6.594789e-01
##  [20712,]  3.321787e-01 -3.403321e-01  4.967327e-01  3.009838e-01
##  [20713,]  7.563243e-01 -3.091215e-01 -2.163656e-01 -4.199043e-01
##  [20714,]  7.726982e-01  1.576804e+00  7.015686e-01 -1.301557e-02
##  [20715,]  2.092869e-02 -1.347030e+00  1.332220e+00 -6.996896e-01
##  [20716,]  7.190939e-01  3.501660e-01  1.185309e+00 -7.347555e-01
##  [20717,]  3.764308e-01 -2.408748e-01  6.473398e-01  3.202376e-01
##  [20718,] -1.217941e-01  1.914946e-01 -5.531698e-01  1.050298e+00
##  [20719,] -1.085724e+00  8.813029e-01 -1.655236e+00 -9.950600e-01
##  [20720,]  9.867656e-01  2.539684e-01  8.246544e-01  1.013251e-03
##  [20721,]  8.147825e-01  2.117175e+00 -1.317863e-01  4.247329e-01
##  [20722,]  1.447820e-01 -8.290592e-01  2.102517e-01 -6.429696e-01
##  [20723,]  1.187934e-01 -6.661365e-01 -1.645007e+00 -5.247315e-01
##  [20724,] -2.118912e+00 -5.752986e-01 -6.884202e-01  1.461381e+00
##  [20725,] -1.114246e+00  7.909417e-01 -1.311585e+00 -7.082565e-01
##  [20726,]  1.053026e+00  6.741214e-01 -1.262490e-01  1.592119e-01
##  [20727,]  2.035325e-01 -1.438359e+00 -7.384759e-01 -3.956602e-01
##  [20728,] -1.287729e+00 -7.290588e-02 -2.497246e-01 -4.352956e-01
##  [20729,] -3.697760e-01  1.416263e-01 -7.256126e-01  4.737657e-01
##  [20730,] -4.760417e-02 -8.036273e-01  9.133478e-01  1.160959e+00
##  [20731,]  7.920400e-01 -6.551177e-01  1.266533e+00 -6.924593e-01
##  [20732,] -1.637778e+00 -2.053724e+00  6.602889e-02  1.198808e+00
##  [20733,]  9.182267e-01 -2.026186e-01  1.464795e-01  1.589074e+00
##  [20734,]  6.991477e-01  9.348466e-01 -4.112607e-01 -1.951171e-01
##  [20735,] -6.194761e-01  6.366714e-01  2.848544e-01  1.251694e+00
##  [20736,] -5.433605e-01  1.894619e+00  3.627341e-01  1.575643e+00
##  [20737,]  5.630744e-01 -1.364203e+00  1.453892e+00  1.041398e+00
##  [20738,]  1.680292e-01 -5.357124e-01 -1.495875e+00  1.540297e+00
##  [20739,] -1.216973e+00 -1.319060e+00 -3.000847e-01  1.635804e+00
##  [20740,] -1.148492e+00 -1.151846e+00  1.041786e-01 -1.009476e+00
##  [20741,] -1.204027e+00 -1.700099e+00 -2.924905e-01 -1.692837e-01
##  [20742,]  8.875761e-01  2.080281e-01  7.891446e-01 -6.195342e-03
##  [20743,]  6.473209e-01 -6.336605e-01 -1.392091e+00 -5.505000e-01
##  [20744,] -7.778758e-01 -9.052623e-01  1.372443e+00  1.004994e+00
##  [20745,] -1.945523e+00  9.842479e-03  3.817035e-01  1.664095e-01
##  [20746,]  1.294897e+00  7.028775e-01  2.109413e-01 -2.638012e-01
##  [20747,]  5.478443e-01  8.277288e-01  8.317255e-01 -5.332197e-01
##  [20748,]  9.653850e-01  4.269508e-01 -1.062440e+00 -5.222041e-02
##  [20749,] -6.660597e-01  8.603988e-01  1.054435e+00 -6.118734e-01
##  [20750,]  1.658549e-01 -3.533604e-01 -1.742225e+00 -2.859109e-01
##  [20751,] -1.347781e+00 -1.113892e+00 -1.810516e+00  1.904233e+00
##  [20752,] -4.687024e-01  7.468271e-01 -6.861663e-01 -2.262627e-01
##  [20753,]  1.248392e-01  6.785911e-03 -4.548996e-01  3.201690e-02
##  [20754,]  2.031344e-02 -1.233638e+00  1.346057e+00 -7.869929e-01
##  [20755,] -1.212456e-01 -1.242815e-01  4.845721e-01  1.277925e+00
##  [20756,] -7.621044e-01  8.745622e-02  1.070865e+00 -4.617310e-01
##  [20757,]  6.894737e-01 -8.042872e-01 -2.230376e-01 -4.193101e-01
##  [20758,] -6.635171e-01 -1.577418e-02 -5.268215e-01  2.617845e-01
##  [20759,]  6.354100e-01 -6.653477e-01  1.179752e+00 -5.238047e-01
##  [20760,] -1.164558e-01 -6.456015e-01  4.923568e-02  8.471557e-01
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## [20761,]  1.541751e+00  8.835751e-01 -1.188620e-04 -4.102646e-01
## [20762,] -5.150101e-01  1.360561e-01 -2.017622e-01  1.354575e+00
## [20763,]  3.818598e-01  1.948290e+00 -9.366369e-02 -8.575587e-01
## [20764,]  4.529182e-01  1.594141e-01 -1.304801e+00 -9.063008e-01
## [20765,] -2.414205e-01  3.592903e-01  2.777569e-01 -1.407923e+00
## [20766,] -1.322744e+00  1.867066e-01 -1.918126e+00 -3.264357e-01
## [20767,] -2.049225e+00  8.889870e-01 -1.278577e+00 -1.001738e-02
## [20768,] -8.083582e-01 -7.273465e-01 -1.409771e-01 -7.245658e-01
## [20769,] -8.738088e-01  7.411657e-01  1.189452e+00 -8.547299e-01
## [20770,]  1.334157e+00 -4.086536e-01 -1.688166e+00 -4.610426e-01
## [20771,] -2.909241e-01 -7.911995e-01 -3.239280e-01  1.917081e+00
## [20772,]  7.658146e-01 -4.485886e-01 -1.758852e+00 -6.675131e-01
## [20773,]  4.819961e-01  5.498825e-01  1.144745e+00 -7.254811e-01
## [20774,] -1.329480e-02  1.584769e-01 -5.004629e-01 -2.669072e-01
## [20775,] -8.222646e-01  2.547420e+00 -4.295821e-01 -8.817020e-01
## [20776,]  1.434165e-01  1.201805e+00 -1.635413e+00 -2.771323e-01
## [20777,] -1.338475e+00  8.129390e-01 -1.793738e-01 -6.745850e-01
## [20778,]  1.730421e-01  3.496559e-01 -9.376454e-01 -1.024883e-02
## [20779,]  6.712785e-01 -7.678389e-01 -1.524270e+00 -9.589388e-01
## [20780,]  8.473253e-01 -4.959886e-01  1.114523e+00 -5.188326e-01
## [20781,]  6.763316e-01 -1.029541e+00  1.261923e+00  1.266399e+00
## [20782,]  3.110262e-01  3.493350e-01 -5.155418e-01  8.205340e-02
## [20783,]  2.185319e-01 -2.780756e-01  3.128332e-01 -3.594680e-01
## [20784,] -1.523270e-01  1.926820e+00 -1.662971e-01  5.702988e-01
## [20785,]  2.952188e-01  1.165496e+00  9.730954e-01 -3.423169e-01
## [20786,] -8.435526e-02 -1.177153e+00 -1.388903e+00  8.251799e-01
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## [20790,] -1.943668e-01  1.335281e+00 -3.590932e-01 -5.336416e-01
## [20791,] -6.265670e-03  6.394362e-01 -4.575355e-01 -2.332789e-01
## [20792,] -4.666445e-01 -4.529020e-01 -3.859439e-01 -2.500531e-01
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## [20796,] -1.031663e+00 -2.664767e-01 -9.843066e-01  3.819362e-01
## [20797,] -1.431109e+00  1.745144e+00 -3.597598e-01 -6.012443e-01
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## [20800,]  1.197213e+00  1.410009e-01 -4.856344e-01 -5.885766e-01
## [20801,]  5.949318e-01 -4.126956e-01  1.166087e+00 -6.698456e-01
## [20802,]  8.777735e-01  1.800510e-01 -1.962418e+00 -3.302533e-01
## [20803,] -1.203458e+00  5.576827e-01  7.842121e-01 -3.487053e-01
## [20804,]  4.139122e-01  1.394598e-01  2.014342e-01 -1.207836e+00
## [20805,] -1.740578e+00  1.095191e+00  5.957598e-02 -1.171545e+00
## [20806,] -1.215937e+00  1.106295e+00  1.625771e-01 -3.172166e-01
## [20807,]  9.753764e-01  5.563565e-01 -1.609017e-01  9.985378e-03
## [20808,] -1.185258e+00 -9.000886e-01  9.768422e-01  1.818538e+00
## [20809,]  4.047386e-01  1.253614e+00 -1.155058e-01  8.424576e-01
## [20810,]  8.349493e-01  6.172237e-01  7.975833e-01  6.355525e-03
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## [20813,] -6.495759e-01  8.893416e-01  1.014956e+00 -3.666897e-01
## [20814,] -3.585881e-01 -6.028768e-01  8.263488e-01  1.040259e-02
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## [20816,] -7.180420e-01  4.803871e-01  9.780600e-01 -4.929233e-01
## [20817,]  1.282160e+00  3.928307e-01  9.379955e-01 -2.974008e-01
## [20818,] -8.218508e-01 -7.145759e-01  3.261331e-02 -9.359690e-01
## [20819,] -6.642153e-01 -2.980084e-01  1.289250e+00  1.079838e+00
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## [20836,] -1.927677e+00 -2.041196e+00 -1.175270e+00 -4.325364e-01
## [20837,] -1.269974e+00 -5.969155e-03  9.985129e-01 -3.494715e-01
## [20838,]  6.468082e-01 -7.781012e-01  1.112524e+00  1.122217e+00
## [20839,]  1.375210e+00 -2.795377e-01  1.145339e+00  1.332409e+00
## [20840,]  1.202237e+00  8.327878e-01  9.362634e-01 -4.222426e-01
## [20841,]  1.816439e-01 -2.801354e-01  1.060577e+00 -4.255492e-01
## [20842,]  9.613801e-01  1.512386e+00 -8.222050e-01  1.788611e+00
## [20843,] -1.213234e-01 -1.520252e-01 -2.590347e-01 -9.401070e-01
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## [20846,] -1.679975e+00 -1.158594e+00 -1.036445e-01 -6.142346e-01
## [20847,] -6.682126e-01  7.831020e-01  1.063593e+00 -5.818061e-01
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## [20852,]  4.725179e-01  4.395178e-01 -1.536677e+00 -8.333496e-01
## [20853,] -4.333754e-01  1.234283e+00 -5.038747e-01 -2.970334e-01
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## [20857,] -6.081650e-01  6.026911e-01  1.167671e+00 -7.351851e-01
## [20858,]  8.666001e-03 -8.154337e-01 -2.072894e-01 -7.859039e-01
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## [20862,] -8.347388e-01 -6.966090e-02  1.376755e+00 -1.081121e+00
## [20863,]  6.520860e-01 -1.173314e+00 -1.418943e+00 -1.063004e+00
## [20864,] -7.138921e-01  7.255340e-01 -1.495146e+00 -5.792274e-01
## [20865,]  8.147779e-01 -5.704564e-01 -1.753951e+00 -5.816815e-01
## [20866,] -2.038056e+00 -3.575937e-01 -4.908378e-01 -2.423178e-01
## [20867,]  6.578954e-01 -4.910910e-01 -1.470376e+00  8.701679e-01
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## [20870,] -2.702470e+00 -2.308916e-01 -3.188612e-01 -3.081230e-01
## [20871,]  8.854043e-01 -6.494859e-01  1.124935e+00 -4.586477e-01
## [20872,] -2.104558e+00  1.814787e-02  1.068334e+00 -4.312193e-01
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## [20874,]  2.799617e-01  1.573553e+00  1.064573e-02 -3.414027e-01
## [20875,]  1.254275e-01  1.992269e-01 -1.689362e+00  1.599761e+00
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## [20882,]  2.152422e-01 -5.405077e-01 -4.407250e-01 -4.027954e-01
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## [20885,]  8.732270e-01 -7.154992e-01 -1.984763e-01 -5.070782e-01
## [20886,]  3.713101e-01  4.311411e-02  8.880797e-01  1.885948e+00
## [20887,] -1.018387e+00  3.234313e-01 -9.339922e-01 -1.311979e+00
## [20888,] -5.807635e-01  5.164675e-01 -9.849533e-01 -8.777252e-01
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## [20890,]  9.432569e-01 -1.605226e-01 -4.169907e-01 -2.524458e-01
## [20891,]  7.830572e-01  6.757223e-01  1.064771e+00 -5.430232e-01
## [20892,] -1.427298e+00  2.332307e+00  9.782980e-01 -4.826802e-01
## [20893,] -2.174356e+00  1.379357e+00 -5.576701e-01 -3.258925e-01
## [20894,]  2.200741e-01 -5.497994e-01  2.005049e-01  1.450359e+00
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## [20896,]  6.825319e-01 -1.389002e-01 -1.348753e+00 -4.828104e-01
## [20897,]  1.056487e-01 -9.559111e-03 -1.766401e+00 -6.529258e-01
## [20898,] -1.905304e+00  8.149821e-01 -1.800676e+00 -2.830287e-01
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## [20900,] -2.140888e-01  1.994058e+00  1.155871e+00 -9.910321e-01
## [20901,]  8.108686e-01 -2.665978e-01 -6.723910e-01 -1.945489e-01
## [20902,] -2.693173e+00 -4.688820e-01 -1.089355e-01 -3.137625e-01
## [20903,]  2.043238e-01  3.442110e-01 -5.892368e-01 -3.621340e-01
## [20904,] -1.446370e+00  2.788447e-01 -4.339285e-01 -5.457918e-01
## [20905,] -2.014935e+00 -5.921599e-01  1.299368e+00  1.188036e+00
## [20906,]  1.343113e-02 -2.051676e-01 -1.408686e+00 -6.249148e-01
## [20907,] -4.863655e-01  5.280342e-01 -1.270426e+00 -3.763260e-01
## [20908,]  2.656898e-01 -4.108573e-01  7.799336e-01  1.329300e-01
## [20909,] -2.698544e+00 -1.969146e-02 -5.182069e-02  1.609666e+00
## [20910,]  1.300857e-01 -1.497786e+00  1.286911e+00  1.284967e+00
## [20911,] -4.108154e-01  7.735482e-01 -4.922861e-01 -1.419257e+00
## [20912,] -1.221669e+00 -1.035333e+00 -1.405873e+00  1.846948e-01
## [20913,] -2.833173e+00  6.964068e-01  1.024264e+00 -4.854539e-01
## [20914,] -7.049282e-01 -3.798512e-01 -1.845826e-01 -6.054516e-01
## [20915,]  3.050484e-01  2.138997e-01 -5.989710e-01  2.686310e-01
## [20916,]  1.116879e+00  3.601280e-01  1.092297e+00 -6.791829e-01
## [20917,]  2.349617e-01 -9.818340e-01  1.115821e+00  1.588739e+00
## [20918,]  4.975323e-02  7.705577e-01  9.164105e-01 -3.438233e-01
## [20919,] -7.873929e-01 -3.894459e-01  3.637305e-01  7.951252e-01
## [20920,] -3.989010e-01 -4.598850e-01 -1.853190e+00 -1.404676e-01
## [20921,]  2.919145e-01 -7.950324e-02 -1.121381e+00 -1.814850e-01
## [20922,] -4.540167e-01 -6.773791e-01 -3.955218e-01 -2.920862e-01
## [20923,] -1.442138e-01 -1.577748e+00 -1.160278e+00  7.548534e-01
## [20924,]  7.889896e-01 -6.795584e-01  3.362583e-01  1.658641e+00
## [20925,] -6.010952e-01  5.873497e-02 -1.057841e+00 -9.925441e-01
## [20926,]  8.699693e-02  2.365656e-01 -3.046622e-01 -6.334248e-01
## [20927,]  7.011634e-01 -3.293000e-01  1.220703e+00 -7.422155e-01
## [20928,]  1.671231e-03  1.388216e+00 -1.903486e-01 -4.089470e-01
## [20929,]  6.323469e-01  4.336432e-01  7.391206e-01 -6.090795e-01
## [20930,]  2.486191e-01 -5.587042e-01  1.072192e+00 -3.179678e-01
## [20931,]  8.408090e-01  3.387802e-01 -8.118231e-01  4.656199e-02
## [20932,] -6.987308e-01  1.136576e+00  4.602156e-01 -6.063593e-01
## [20933,]  7.251463e-01 -5.424746e-01 -1.395529e+00 -3.223123e-01
## [20934,]  7.897686e-01 -6.149343e-01  1.266101e+00  1.160425e+00
## [20935,] -2.282410e+00 -4.094833e-02  7.439983e-01 -7.840104e-01
## [20936,]  1.467361e+00  1.428035e+00 -6.744471e-02 -4.936537e-01
## [20937,]  6.264366e-01 -7.170549e-01 -2.994765e-01 -6.669249e-01
## [20938,]  8.402722e-01 -6.515605e-01 -1.111833e-01  1.256383e+00
## [20939,] -2.823728e-05 -1.425496e+00  1.272902e+00 -6.363765e-01
## [20940,]  8.605532e-01 -5.930478e-01 -3.089145e-01 -4.489761e-01
## [20941,] -6.414657e-01  5.727068e-01 -2.113466e-01 -4.273779e-01
## [20942,] -3.800394e-01 -6.466616e-01  9.542224e-01 -7.981207e-02
## [20943,]  6.083983e-01 -8.820322e-01  9.614333e-01 -7.399845e-01
## [20944,]  2.445827e-01 -4.383624e-01 -2.747981e-01  5.593413e-02
## [20945,]  3.929385e-01 -4.340718e-01  9.244136e-01  1.881220e+00
## [20946,]  7.568306e-01  2.475511e-03  9.173976e-01 -2.339337e-01
## [20947,] -2.263112e+00 -7.250666e-02  1.187499e+00 -7.485303e-01
## [20948,]  8.601298e-01 -6.380610e-01  9.283534e-01 -8.084248e-02
## [20949,]  4.790293e-01 -1.230695e+00 -1.448796e+00 -1.039508e+00
## [20950,] -2.036556e+00  3.292413e-01 -4.100833e-01 -2.401846e-01
## [20951,]  4.232475e-01 -4.209596e-01  1.418849e+00 -1.096972e+00
## [20952,] -1.444206e+00  5.918471e-01 -1.594396e+00 -5.824468e-01
## [20953,]  1.908384e-02 -9.527569e-01  1.004690e+00 -2.737023e-01
## [20954,] -7.061452e-01  5.183232e-01  1.126028e+00 -6.975335e-01
## [20955,]  6.754015e-01 -2.204289e-01 -2.508307e-01 -4.844318e-01
## [20956,] -6.132572e-01 -1.285946e-01  1.304255e+00 -8.460519e-01
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## [20957,] -8.721668e-01 -7.320779e-01  1.398993e+00 -1.031657e+00
## [20958,] -4.779085e-01  1.197136e+00 -6.819082e-01 -3.027138e-01
## [20959,]  1.289443e+00 -2.694189e-02 -2.555711e-01  1.301093e+00
## [20960,] -2.153310e+00  1.443313e-01  1.045672e+00 -4.206420e-01
## [20961,] -5.947981e-01  2.190392e-01  1.114738e+00 -5.391990e-01
## [20962,] -1.327197e+00 -3.823781e-02  5.603402e-02 -5.372456e-01
## [20963,]  3.638827e-01 -3.999468e-01  8.729823e-01 -9.766408e-03
## [20964,] -4.967308e-01  4.928856e-01 -3.219506e-01 -3.063082e-01
## [20965,] -1.648465e+00  1.149829e+00 -1.076472e+00 -9.912338e-01
## [20966,] -2.293328e+00  1.125311e+00  4.988417e-01  4.703364e-01
## [20967,]  3.745516e-02 -3.989114e-02  1.093386e+00 -5.782213e-01
## [20968,] -7.195562e-02  3.112623e+00  7.812323e-01  1.353552e+00
## [20969,]  2.282531e-01 -4.538463e-01  9.928870e-01 -3.226636e-01
## [20970,] -8.160947e-01  1.923441e+00  1.147383e+00 -8.627705e-01
## [20971,]  5.118751e-01  2.783163e+00  1.114129e+00 -5.836254e-01
## [20972,] -6.798302e-02 -8.421709e-01 -1.237005e+00 -5.380319e-01
## [20973,] -7.538079e-01  1.326313e+00 -4.424646e-01 -1.298645e-01
## [20974,] -2.418121e+00 -2.411808e-01 -8.531525e-02  1.781616e+00
## [20975,] -2.834889e+00  1.442645e+00  7.586943e-01  1.288761e+00
## [20976,]  8.457561e-01  2.349027e-01  8.982030e-01 -1.247899e-01
## [20977,] -2.789683e+00 -1.018023e+00 -4.383265e-01 -5.756383e-01
## [20978,]  8.131638e-02  3.041693e-01  9.344043e-01 -3.217858e-01
## [20979,]  1.232334e+00 -4.223815e-03 -3.246028e-01 -5.192182e-01
## [20980,]  1.269585e+00  9.215555e-01  9.742947e-01 -4.039248e-01
## [20981,]  8.403084e-01 -1.630790e-01  1.026891e+00 -3.883586e-01
## [20982,] -3.024559e+00 -5.124174e-01  9.996470e-01 -1.284857e-01
## [20983,]  8.214955e-01 -1.064875e+00 -3.158217e-01 -5.708153e-01
## [20984,]  7.491541e-01 -1.865350e-01 -3.284807e-01 -4.530318e-01
## [20985,]  4.759736e-01 -7.523766e-01 -1.190116e+00 -9.671626e-01
## [20986,]  8.039884e-01 -1.105333e+00 -1.284087e+00 -6.719698e-01
## [20987,] -1.289086e+00  5.530671e-01 -1.860739e+00 -1.865729e-01
## [20988,]  1.178499e+00 -3.128621e-01 -1.697473e+00 -7.170750e-01
## [20989,]  1.077080e+00  2.178413e-01 -2.177077e+00  5.056972e-02
## [20990,]  6.284255e-01 -6.932583e-01 -8.787683e-01 -5.703588e-01
## [20991,]  2.115778e-01 -5.918313e-01 -1.711677e+00 -3.133493e-01
## [20992,] -5.798741e-01  6.788300e-01 -4.769346e-03  1.563825e+00
## [20993,]  1.014178e-01  1.589581e-01 -3.095265e-01  1.549488e+00
## [20994,] -3.050551e-01  9.268252e-01 -3.028161e-01 -1.118806e+00
## [20995,]  8.276960e-01  2.926542e-02  1.029042e+00  1.633200e+00
## [20996,] -1.209563e+00  1.100632e+00 -1.718637e+00 -1.519095e-01
## [20997,]  8.605304e-01  3.000717e-01 -5.871953e-01 -1.078776e-01
## [20998,] -2.048976e+00  2.404658e-01  9.039763e-01 -1.586490e-01
## [20999,] -1.524862e+00 -5.064121e-01 -4.841209e-01 -1.823060e-01
## [21000,]  8.686973e-01 -2.670004e-02 -8.621953e-01 -1.002281e-02
## [21001,]  1.290991e+00 -1.838404e-02 -2.881042e-01  1.490700e+00
## [21002,] -1.444918e+00  1.909384e+00 -1.680576e-01 -8.086465e-01
## [21003,] -8.728787e-01  5.708266e-01  1.137262e+00 -6.680326e-01
## [21004,]  1.048296e+00 -8.504881e-01  1.493976e+00  8.116331e-01
## [21005,]  8.109833e-01  6.221328e-02  5.005328e-01 -2.182823e-02
## [21006,]  5.333171e-01 -5.658045e-01 -3.957291e-02 -7.737105e-01
## [21007,]  1.493614e-01 -7.085098e-01  1.057146e+00  1.268183e+00
## [21008,] -5.471839e-01  1.824420e-01 -1.654707e-01 -5.724070e-01
## [21009,]  5.848673e-01  1.389856e+00 -1.087437e-01 -6.720465e-01
## [21010,]  2.638962e-01  6.655487e-02 -5.589397e-01 -8.317744e-02
## [21011,]  1.691695e-01 -8.109759e-01  1.169109e+00 -5.265953e-01
## [21012,]  8.657365e-01  3.723428e-01  7.608907e-01  6.207815e-02
## [21013,] -2.376906e+00  4.486614e-05 -2.123317e+00  5.513594e-02
## [21014,]  2.887291e-01  8.185579e-01  7.468006e-01  1.000334e-01
## [21015,]  2.085428e-01 -1.011674e+00 -2.220984e-01 -5.135356e-01
## [21016,] -8.235820e-01 -7.848511e-01  9.915843e-01 -5.064162e-01
## [21017,]  1.420730e-01 -1.005390e+00  9.795604e-01  1.384765e+00
## [21018,]  1.380716e-01 -6.666546e-01  1.141214e+00  1.411956e+00
## [21019,] -2.420916e+00  5.146024e-01 -1.373660e+00  2.221072e-01
## [21020,]  4.285913e-01  2.269811e+00 -1.049454e+00 -8.458918e-01
## [21021,] -6.098945e-01 -1.006138e+00 -3.708001e-01 -7.117810e-01
## [21022,]  3.177808e-01 -3.061760e-01  8.122648e-01  5.280147e-02
## [21023,] -2.914963e+00 -6.646729e-02 -1.475346e+00  1.675389e-01
## [21024,]  9.209107e-01  4.564956e-01  6.320995e-01  2.219171e-01
## [21025,] -1.415177e+00 -3.888541e-01 -1.439156e+00 -8.296696e-01
## [21026,]  1.496296e+00 -5.407490e-01  9.868643e-01 -2.469197e-01
## [21027,] -6.935899e-01  1.742207e-01 -1.668861e-01 -8.252141e-01
## [21028,]  1.394361e+00  7.425233e-01  1.063103e+00 -6.801143e-01
## [21029,]  4.900516e-01  3.580152e-02  1.307689e+00 -8.934305e-01
## [21030,] -6.614517e-01 -2.607588e-01 -1.122959e-01  1.330912e+00
## [21031,] -1.262696e-01  1.922373e+00 -4.205978e-01 -8.324114e-01
## [21032,]  7.630090e-01  3.571265e-01 -2.681999e-01  1.603430e+00
## [21033,]  5.968519e-01 -1.455481e+00  4.717674e-02  1.110791e+00
## [21034,] -1.479847e+00  1.006602e-01  1.397808e+00 -1.073715e+00
## [21035,] -1.736689e+00  7.196886e+00  6.563178e-01  6.038316e-01
## [21036,]  9.737652e-01  4.400424e-01  8.218910e-02 -1.962443e-02
## [21037,]  5.308702e-01  2.267616e+00 -3.238430e-01 -4.736502e-01
## [21038,]  5.354852e-01 -2.415482e-01 -1.121323e-01 -7.205232e-01
## [21039,]  8.113500e-01 -2.586549e-01 -1.130345e+00 -5.156565e-01
## [21040,]  7.867629e-01  3.903215e-01  8.585335e-01 -3.683464e-02
## [21041,]  5.832931e-01  2.129130e-01 -1.447477e+00 -5.957944e-01
## [21042,]  1.377388e+00  6.733483e-01 -7.492027e-02 -7.056393e-02
## [21043,]  7.672063e-01 -7.101337e-01  9.850830e-01 -1.993962e-01
## [21044,] -7.502427e-01  7.698383e-01 -1.256549e-01 -6.440404e-01
## [21045,]  2.336159e-01 -2.448342e-01 -1.802774e+00 -2.129063e-01
## [21046,]  5.565143e-01 -1.031756e+00 -1.341250e+00  9.217514e-01
## [21047,] -2.966292e+00  4.292529e-01 -2.267330e+00  2.364808e-01
## [21048,]  1.121557e-01 -1.052538e+00  3.579493e-01 -5.827164e-01
## [21049,] -9.398661e-03 -9.208609e-01 -8.657449e-01 -8.670701e-01
## [21050,] -5.918512e-01  3.579679e-01  1.192551e+00  1.214228e+00
## [21051,] -6.772354e-01  3.131072e-01 -1.340437e+00 -7.879781e-01
## [21052,]  9.638053e-02 -1.225411e+00  1.382144e+00  1.204974e+00
## [21053,]  8.879623e-01  2.663854e-01 -2.077612e+00 -8.465664e-02
## [21054,]  6.801275e-02 -1.324104e+00  1.253944e+00 -5.779152e-01
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##  [21055,]  7.807126e-01 -2.413283e-01 -8.172307e-02  1.158539e+00
##  [21056,]  6.015520e-01  7.622440e-01 -2.449835e-01 -1.039664e+00
##  [21057,]  7.319654e-01  5.985134e-01  8.648670e-01 -1.318345e-01
##  [21058,]  9.764182e-01 -2.425287e-01 -1.998823e+00 -2.433923e-01
##  [21059,]  4.760727e-02 -4.914436e-01 -1.847535e+00 -4.694883e-01
##  [21060,] -4.362720e-02  4.297348e-01 -1.504565e+00 -5.681742e-01
##  [21061,] -2.821068e-01  9.055897e-01  1.535937e-01  1.017521e+00
##  [21062,]  1.537937e+00  4.971314e-01 -1.734728e+00 -8.972427e-02
##  [21063,]  4.435515e-01  1.438093e+00 -1.807175e+00 -7.904142e-01
##  [21064,] -3.136702e+00  2.799569e-01 -7.041944e-01 -1.273057e+00
##  [21065,]  7.002662e-01 -3.277432e-01  1.223176e+00  1.288469e+00
##  [21066,] -5.513461e-01  7.288723e-01  4.212275e-01 -6.213379e-01
##  [21067,]  9.444848e-01 -5.779338e-01  1.027666e+00  1.640668e+00
##  [21068,] -2.218840e+00  1.108290e+00 -6.351995e-01 -3.627984e-01
##  [21069,]  9.780228e-02 -4.632204e-01 -1.706983e+00 -8.672211e-02
##  [21070,] -6.500409e-01 -2.280924e-01  8.050461e-01  8.073840e-03
##  [21071,] -1.457860e+00  5.588490e-01  1.191730e+00 -7.461062e-01
##  [21072,]  8.971242e-02 -9.474841e-02 -8.606991e-01 -3.900773e-01
##  [21073,] -1.166529e+00  2.913333e+00 -5.738971e-01 -3.458010e-01
##  [21074,]  6.441415e-01  1.861379e-01 -1.500433e+00 -5.488582e-01
##  [21075,] -6.780087e-01  6.783225e-01 -1.934363e+00 -4.672288e-01
##  [21076,]  6.359627e-01 -1.339771e+00  1.017179e+00  1.115869e+00
##  [21077,] -4.894177e-03  1.665994e-01 -1.932649e-01 -2.230761e-01
##  [21078,]  6.051262e-02 -2.331839e-01  1.267727e+00  1.121110e+00
##  [21079,]  6.152827e-01  4.747334e-01 -2.917455e-01 -5.920574e-01
##  [21080,]  8.341647e-01 -2.462488e-01  8.634055e-01 -8.080546e-02
##  [21081,]  7.431350e-01  2.140537e-01 -2.629809e-01 -4.048344e-01
##  [21082,]  5.816814e-01  5.035188e-01 -5.001070e-01 -6.502710e-01
##  [21083,]  5.914493e-01 -1.063196e+00 -1.052234e-01 -6.723044e-01
##  [21084,] -1.301069e+00  1.756801e+00  4.033302e-01 -2.087586e-01
##  [21085,]  8.062668e-01 -7.277099e-01  1.060338e+00 -2.396178e-01
##  [21086,] -1.326168e+00 -1.437524e+00  8.471243e-01  1.585933e-01
##  [21087,] -3.551914e-01  8.293410e-01  9.405058e-01 -2.664451e-01
##  [21088,]  8.567105e-01 -3.857072e-01  9.573668e-01  1.685374e+00
##  [21089,] -5.696704e-01 -7.451800e-01  9.637576e-01 -1.057253e-01
##  [21090,]  8.653864e-01  1.120476e-01 -2.040043e+00 -1.534412e-01
##  [21091,] -5.315638e-01  1.356373e+00 -1.810715e-01 -5.274110e-01
##  [21092,]  4.123228e-02  3.023978e+00 -1.052315e+00  2.663441e-02
##  [21093,] -1.144670e-01  1.609267e+00  1.221186e+00 -7.131371e-01
##  [21094,]  5.428885e-01 -1.107787e+00 -1.188045e+00 -8.619208e-01
##  [21095,] -2.272085e+00 -5.216324e-01  7.515764e-01 -6.580325e-01
##  [21096,] -1.676947e-01  8.837637e-01 -1.276081e+00 -7.923881e-01
##  [21097,] -1.764393e-02  1.243010e+00  6.710986e-01 -5.801168e-01
##  [21098,]  1.097865e+00  4.355030e-01  1.149853e+00 -7.313238e-01
##  [21099,] -5.951210e-01  3.237370e-01 -4.089985e-01 -3.136761e-01
##  [21100,] -1.368443e+00 -1.142097e+00 -9.350532e-01 -5.312833e-02
##  [21101,]  6.436961e-01 -3.938119e-02  1.111136e+00  1.326734e+00
##  [21102,]  5.854834e-01 -2.274413e-01 -1.478109e+00 -7.692902e-01
##  [21103,]  1.485905e-01 -9.495039e-01  1.203627e+00 -5.892346e-01
##  [21104,]  6.788743e-01 -8.645532e-01  1.195535e+00 -6.371258e-01
##  [21105,]  2.843135e-01 -5.692445e-02 -1.601225e+00 -2.281961e-01
##  [21106,]  6.856998e-01  2.438953e-02 -1.741534e+00 -7.970164e-01
##  [21107,]  1.364061e+00  8.653493e-01  3.042650e-01 -8.008373e-01
##  [21108,]  6.547444e-01 -1.390745e+00 -1.417097e+00 -1.074168e+00
##  [21109,]  2.635857e-01 -2.249396e-01 -4.937817e-01  1.183617e-01
##  [21110,]  1.071517e+00 -2.181288e-01  4.205053e-02 -9.125772e-01
##  [21111,]  1.314991e+00 -4.651515e-03 -1.578701e-01 -5.267125e-01
##  [21112,] -8.203587e-01 -4.841895e-01 -4.550278e-01 -1.732180e-01
##  [21113,]  3.022780e-01 -3.804045e-01  7.666989e-01  1.223369e-01
##  [21114,]  2.257709e-01 -4.220290e-01  9.293332e-01 -1.777305e-01
##  [21115,]  8.911629e-01 -2.457417e-03 -9.399031e-02  1.902955e+00
##  [21116,]  1.939044e-01 -1.111888e+00 -1.086750e+00 -4.032737e-01
##  [21117,] -5.155246e-01  2.293750e-01  6.421278e-01  1.841759e-01
##  [21118,]  8.891430e-01  3.506475e-01 -3.343293e-01 -2.614505e-01
##  [21119,]  1.015644e+00  1.103507e+00  2.026512e-02  4.311387e-02
##  [21120,] -1.340171e+00  6.965600e-01  5.919913e-01 -2.497363e-01
##  [21121,]  2.992133e-01 -6.489283e-01  7.619430e-01  2.042270e+00
##  [21122,] -2.235518e-01 -1.065767e+00 -6.381035e-01  6.543225e-01
##  [21123,]  8.390100e-01  4.952513e-01  7.253605e-01  1.202836e-01
##  [21124,] -2.754126e+00 -1.169273e-01  1.099894e+00 -4.152842e-01
##  [21125,]  3.354539e-02 -3.408047e-01 -9.846353e-02 -8.527307e-01
##  [21126,]  6.271476e-01 -4.746034e-01  9.710003e-01 -5.202739e-01
##  [21127,]  2.827392e-01  1.887536e+00  9.483780e-01  1.816745e+00
##  [21128,]  1.107098e-01 -9.771240e-01  1.084773e+00 -3.199884e-01
##  [21129,] -6.071023e-01 -6.256308e-01 -3.550539e-01  1.854373e+00
##  [21130,]  7.463770e-01 -9.258307e-01  1.372951e+00 -8.392485e-01
##  [21131,] -1.556300e+00  6.816687e-01 -1.488186e-01  1.034573e+00
##  [21132,]  7.040410e-01 -2.341504e-01 -1.702693e+00 -3.682405e-01
##  [21133,]  5.598893e-01 -4.366357e-01  1.251609e+00 -7.705310e-01
##  [21134,] -7.014982e-01 -1.114380e+00  3.040289e-02 -9.061709e-01
##  [21135,]  7.366770e-01  1.201763e+00 -1.655274e+00 -5.744358e-01
##  [21136,] -4.797531e-01 -9.648216e-01 -6.108939e-01  2.156939e+00
##  [21137,]  3.623051e-01 -1.835590e-01  7.114205e-01  2.128417e+00
##  [21138,] -1.251861e+00  1.178550e-01  1.336845e+00 -1.069485e+00
##  [21139,] -2.364141e+00  1.227772e+00  1.149696e+00  1.150137e+00
##  [21140,]  1.428396e-01 -9.278696e-01  7.874756e-01 -3.728117e-01
##  [21141,] -2.484981e-01  4.769507e-01  1.486982e+00 -1.366833e+00
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##  [21143,]  9.310642e-01 -3.596009e-01 -1.335902e+00 -3.719281e-01
##  [21144,]  9.657386e-01 -7.869317e-02  9.078058e-01 -9.361640e-02
##  [21145,]  3.670846e-01 -2.993310e-01 -1.777996e+00  1.043644e-01
##  [21146,] -2.655449e+00  1.025643e+00 -4.591120e-01 -7.539421e-02
##  [21147,] -1.596049e+00 -8.900569e-01 -1.008697e+00  5.271871e-01
##  [21148,]  8.924170e-01  4.223113e-01 -1.083169e+00  7.945131e-02
##  [21149,] -5.329524e-01 -1.078205e+00 -5.286926e-01 -3.180945e-01
##  [21150,] -1.456463e+00 -1.850729e-02  1.062481e+00 -2.925935e-01
##  [21151,] -1.315726e+00  2.109278e-01 -1.592098e-01 -4.883638e-01
##  [21152,] -1.376571e+00  4.450363e-01 -4.545245e-01 -6.220432e-01
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## [21153,]  3.269440e-02  3.110148e-01  9.413527e-01 -3.299742e-01
## [21154,]  1.243597e+00 -9.002160e-01 -1.313032e+00 -9.853007e-01
## [21155,] -9.071549e-01 -3.866610e-02 -2.629176e-02 -1.088257e+00
## [21156,]  1.116968e-01 -2.133933e-01  4.789797e-01  1.202955e-02
## [21157,]  1.377656e+00  3.221019e-01  5.501820e-01 -2.203541e-01
## [21158,]  2.773531e-01 -1.426319e-01  7.712666e-01  2.032647e+00
## [21159,]  6.239277e-01  7.478070e-01 -3.225860e-01 -4.904655e-01
## [21160,]  3.680281e-01 -1.913990e-01 -1.497971e+00 -1.165479e+00
## [21161,]  8.408163e-02 -2.518272e-01 -1.755335e+00  1.352183e+00
## [21162,] -7.910710e-01  3.657764e-01  1.198414e+00 -7.474280e-01
## [21163,] -1.257900e+00  6.385592e-01 -5.316639e-03 -5.092286e-01
## [21164,]  1.143601e+00  9.576451e-02  1.324764e+00 -1.013474e+00
## [21165,] -3.516428e-02 -1.556564e+00  1.246188e-01  9.687440e-01
## [21166,] -1.583897e+00 -1.654462e-02  1.322843e+00 -9.029116e-01
## [21167,] -7.449400e-01 -1.446170e+00  9.088773e-01  1.416567e+00
## [21168,] -5.595924e-01 -7.295858e-01 -1.801582e+00 -1.365637e-01
## [21169,] -1.247508e+00 -4.155507e-01  1.434035e+00 -1.133621e+00
## [21170,]  1.329366e+00  6.539073e-01  1.005466e+00 -3.165685e-01
## [21171,]  1.116153e+00 -6.284553e-01  1.200687e+00 -9.647500e-01
## [21172,] -1.091619e+00  4.051477e-01  8.512722e-01 -9.593113e-02
## [21173,] -6.249452e-01  8.239569e-01  1.571536e-01 -5.550390e-01
## [21174,] -1.248442e+00  9.618199e-01 -5.695199e-01 -4.710140e-01
## [21175,]  8.553632e-01  3.602193e-01  7.855714e-01  3.213115e-02
## [21176,] -3.030250e-01 -7.454522e-02  1.071308e-01 -1.209855e+00
## [21177,] -5.123861e-01  6.497506e-01  2.955354e-01 -1.635522e+00
## [21178,]  1.326314e+00  4.546306e-01  9.628326e-01 -3.220669e-01
## [21179,] -2.455987e+00 -1.930697e-01  8.919769e-01 -8.312572e-02
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## [21182,]  9.175242e-01  1.887274e-01 -6.281870e-02 -2.320853e-01
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## [21184,] -2.011608e+00  1.101339e-01 -4.037874e-01  1.734593e+00
## [21185,]  7.060259e-01 -2.421604e-01 -4.348664e-01 -3.257518e-01
## [21186,]  6.958919e-01 -4.439455e-02 -2.473473e-02 -4.302009e-01
## [21187,]  6.965398e-01 -6.176393e-01  1.167656e+00 -5.746970e-01
## [21188,]  8.556072e-01 -7.134828e-01 -3.010595e-01  1.617003e+00
## [21189,]  9.120440e-01 -9.459079e-02 -2.690497e-01  1.493332e+00
## [21190,] -8.068247e-01  1.774059e+00  1.213107e+00 -8.783809e-01
## [21191,]  8.375223e-01 -6.331267e-02 -4.716614e-01  1.867209e+00
## [21192,] -1.749150e-01  1.245419e+00 -3.508371e-01 -1.057967e+00
## [21193,]  7.969736e-01 -1.179714e-01 -1.216426e+00  1.619069e+00
## [21194,]  1.704431e+00  1.090165e+00  7.410950e-01  6.825538e-02
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## [21199,]  7.415201e-01  5.251066e-01 -4.485724e-01 -7.099769e-01
## [21200,] -1.422261e+00 -8.587183e-01 -1.152138e+00 -2.862816e-01
## [21201,]  1.972344e-01 -7.784360e-01 -1.589142e+00 -5.232862e-01
## [21202,] -9.169369e-01 -1.325274e+00 -1.373927e-01 -4.815869e-01
## [21203,]  1.420556e+00  4.152342e-01 -6.531106e-01  1.783896e+00
## [21204,] -8.738472e-01  8.668822e-02  1.127218e+00 -7.014875e-01
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## [21206,] -5.449459e-02 -1.280838e+00 -1.363483e-01 -5.258963e-01
## [21207,] -1.079975e+00  6.461469e-01  3.915763e-01  3.962042e-01
## [21208,] -9.067234e-01  9.909403e-01  5.601745e-03 -7.107136e-01
## [21209,] -2.189669e+00 -8.028624e-01  9.963872e-01 -7.673822e-01
## [21210,]  3.214518e-01  5.818532e-01  2.028875e-01 -1.358295e+00
## [21211,]  7.038275e-01 -3.039187e-01 -1.065517e+00 -5.743866e-01
## [21212,] -4.410769e-01  1.083019e+00 -1.773529e+00 -2.722146e-01
## [21213,]  5.963058e-01  1.991233e-01 -6.549574e-01 -7.591097e-01
## [21214,] -1.460735e+00 -2.306716e-01  7.994385e-01 -2.148660e-03
## [21215,]  4.851162e-01  3.654038e+00 -1.456835e+00 -7.154139e-01
## [21216,] -1.435797e-01 -7.475937e-01 -1.669153e+00 -7.300842e-01
## [21217,] -5.232956e-01  7.153910e-01 -4.195613e-01  1.535153e+00
## [21218,]  4.617730e-01 -6.976012e-01 -1.478549e+00 -1.113887e+00
## [21219,]  9.685166e-01 -1.447314e-01  8.924537e-01 -8.755086e-02
## [21220,] -2.448106e-02 -1.020346e+00  1.298970e+00  1.189995e+00
## [21221,] -9.582063e-01 -4.833921e-01  8.916770e-01 -4.461813e-01
## [21222,] -4.688420e-01 -7.314208e-01 -1.529033e+00 -3.442316e-01
## [21223,]  1.704256e-02 -1.147558e+00 -2.095754e-01  1.450541e+00
## [21224,] -2.013818e-01  7.440223e-02 -1.315168e+00  7.268340e-01
## [21225,]  1.168557e-01  1.563542e-01  8.868073e-02 -2.126075e-01
## [21226,] -7.020211e-01  1.290128e+00 -6.306349e-01 -4.435984e-01
## [21227,] -2.165313e+00  1.088045e-03  1.020850e+00 -3.028145e-01
## [21228,]  3.356126e-01 -5.827546e-01  9.046612e-01  1.889774e+00
## [21229,]  8.291892e-01  1.469134e+00 -6.589651e-01 -3.952900e-01
## [21230,] -2.954322e-02 -4.177667e-01 -7.352594e-01 -8.488248e-01
## [21231,]  8.575447e-01 -2.525992e-01 -4.631236e-01 -5.383236e-02
## [21232,] -2.731212e+00 -8.052421e-01 -1.065449e-01 -5.701733e-01
## [21233,]  1.106566e+00  5.771289e-01  3.035018e-01  2.190574e-01
## [21234,] -6.503016e-01 -5.705361e-01  1.207520e+00 -6.950490e-01
## [21235,]  1.687988e+00  9.189705e-01 -4.914020e-01  1.772252e+00
## [21236,]  1.046276e-01 -1.219989e-01 -2.073370e+00 -5.453265e-02
## [21237,] -6.828182e-01 -6.146766e-02  4.398234e-01 -9.216212e-01
## [21238,]  9.998157e-01 -9.069313e-01  2.634985e-01  6.598665e-01
## [21239,]  9.594219e-01 -1.546578e-01 -2.763561e-01  7.926803e-02
## [21240,]  1.023092e-01  5.157881e-01 -3.963591e-01 -4.256809e-01
## [21241,]  7.311016e-01 -3.616925e-01 -4.259413e-01  1.463452e+00
## [21242,]  7.335368e-01  2.522560e-01 -2.962926e-01 -2.171674e-01
## [21243,]  7.125730e-01 -1.141370e+00  1.327008e+00  1.217365e+00
## [21244,]  8.754894e-01 -3.069133e-01  8.305321e-01  7.663805e-03
## [21245,] -6.939218e-01  5.512668e-01  1.205524e+00 -7.420644e-01
## [21246,] -6.482630e-01 -1.108320e-01 -2.367729e-01 -8.348080e-01
## [21247,] -7.580020e-01  1.740488e+00  1.352848e+00  7.164498e-01
## [21248,] -4.115865e-01  2.644673e-01  1.098121e+00 -4.736110e-01
## [21249,] -2.103881e+00 -4.477372e-02  1.098509e+00 -3.555647e-01
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##  [21253,]  7.614260e-01 -2.126701e-01 -1.789992e+00 -6.481480e-01
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##  [21257,] -5.207135e-01  7.097021e-01 -1.672364e-01 -3.788324e-01
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##  [21259,]  8.045943e-02 -1.354459e+00  1.525827e+00  9.886880e-01
##  [21260,] -1.424089e+00  1.711601e-01 -1.976525e+00 -2.382075e-01
##  [21261,] -1.643394e+00  1.320094e+00  9.837367e-01 -5.359777e-01
##  [21262,] -2.289100e+00 -7.472623e-01 -3.836547e-01 -7.263136e-01
##  [21263,]  6.275093e-01 -2.406315e-01  1.209654e+00 -6.979848e-01
##  [21264,]  8.546791e-01  1.504082e-01  8.539799e-01  1.845902e+00
##  [21265,]  1.371497e+00 -4.235643e-01 -3.480096e-01 -4.463792e-01
##  [21266,]  5.441565e-01  2.678598e+00 -2.032512e-01 -6.257041e-01
##  [21267,] -6.975163e-01  1.088158e+00  1.102359e+00 -6.740903e-01
##  [21268,]  2.483534e-01 -2.906750e-01  1.034686e+00 -2.859302e-01
##  [21269,] -2.073964e+00 -6.988007e-01 -3.944320e-03 -8.168942e-01
##  [21270,]  7.707852e-01  7.516876e-01 -1.616548e+00 -4.862839e-01
##  [21271,]  8.016411e-01 -8.876668e-01  1.108997e+00  1.576928e+00
##  [21272,] -1.238105e+00 -1.132140e+00  3.025413e-01 -1.890039e-01
##  [21273,]  8.571732e-01 -3.355471e-01  8.849876e-01 -4.745648e-01
##  [21274,] -6.761235e-01  1.029909e+00 -3.540757e-01 -4.124523e-01
##  [21275,] -7.527576e-02 -3.413937e-01 -1.733328e+00  1.310571e+00
##  [21276,] -2.909550e-01  2.232891e+00  1.340401e+00 -1.279166e+00
##  [21277,] -1.558806e+00  1.441731e+00 -1.476431e-01 -8.949355e-01
##  [21278,]  9.021792e-01 -5.267964e-01  8.433455e-01  3.978012e-02
##  [21279,]  7.632723e-01 -4.609593e-01 -1.103780e+00 -2.092403e-01
##  [21280,] -2.866536e-01 -1.140048e-01  7.274337e-01  2.076369e+00
##  [21281,]  1.419328e-01 -8.517498e-01  8.798242e-01  1.918914e-02
##  [21282,] -7.548033e-01  1.080214e+00  1.052929e+00 -5.732977e-01
##  [21283,] -2.624406e+00  1.985449e-01  8.479319e-01 -4.878548e-02
##  [21284,]  8.440752e-01  1.477601e-01 -5.033232e-01 -5.162560e-01
##  [21285,]  2.085827e-01  2.573584e-01 -9.026128e-01 -3.305984e-01
##  [21286,] -4.337475e-01 -5.312148e-02  1.389620e-01 -1.279964e+00
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##  [21289,] -7.912892e-01  7.980322e-01 -1.727633e+00 -7.792142e-01
##  [21290,] -6.274250e-01  3.688038e-01  3.033041e-01 -3.801211e-01
##  [21291,] -2.073221e-01 -7.847635e-01  9.969625e-01 -8.388510e-01
##  [21292,]  1.773472e+00  6.803650e-01  6.949309e-01  1.906496e-01
##  [21293,] -1.500753e-02  8.521812e-01 -3.708988e-01 -1.982517e-01
##  [21294,]  1.300783e+00 -5.812125e-01  1.030826e+00 -3.638368e-01
##  [21295,]  4.354762e-01 -5.122010e-01 -2.292887e-02 -1.022232e+00
##  [21296,] -4.112211e-01 -5.381670e-01  7.591629e-01  1.139511e-01
##  [21297,] -1.295638e+00  4.884218e-01 -1.317946e+00  1.415361e+00
##  [21298,] -6.807464e-01  9.503895e-01  7.584012e-01 -6.648837e-01
##  [21299,] -2.825098e+00  8.879408e-01 -1.159001e+00 -8.991685e-01
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##  [21301,] -3.375433e+00  1.075504e+00 -1.781979e+00 -6.921544e-01
##  [21302,]  2.183604e-01  9.450747e-02  7.650699e-01 -7.870882e-03
##  [21303,]  6.530992e-01  1.128767e-01  1.049433e+00 -4.763947e-01
##  [21304,]  8.227359e-01  2.480378e-02 -9.157323e-01  1.146078e-02
##  [21305,]  8.667982e-01 -3.806982e-01  8.501657e-01  1.922079e+00
##  [21306,] -1.360257e+00 -1.490934e-01  1.018231e+00 -3.655449e-01
##  [21307,] -6.228727e-01  1.393180e+00 -3.501533e-01 -5.334870e-01
##  [21308,]  5.860466e-01 -5.203181e-01 -9.713907e-01 -7.654305e-01
##  [21309,] -6.594820e-01  1.331811e+00  1.211185e+00 -9.238713e-01
##  [21310,] -2.054363e-01  1.268843e+00  7.605235e-01 -8.003172e-01
##  [21311,]  2.822663e-01 -6.203558e-01 -1.877461e+00 -2.871271e-02
##  [21312,] -9.869715e-01  3.387832e+00 -3.353173e-01  5.177749e-01
##  [21313,] -1.293410e-01 -1.147618e+00  1.280433e+00 -6.766165e-01
##  [21314,] -3.808504e-01  3.566641e-01  1.019489e-01 -1.383978e+00
##  [21315,]  3.406793e-01  7.366838e-01  9.459939e-01 -1.054829e+00
##  [21316,] -2.197459e-01  6.804285e-01 -3.449430e-01 -6.899767e-01
##  [21317,]  3.566843e-01  2.775969e-01  8.116533e-02 -1.102612e+00
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##  [21321,] -1.963376e+00  5.273615e-01 -1.625889e+00 -1.259811e-01
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##  [21327,]  1.215634e+00 -8.160682e-01  1.316682e+00 -8.275560e-01
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##  [21333,]  6.173796e-01 -1.205533e-01  1.171214e+00  1.337453e+00
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##  [21341,] -5.329120e-01  5.901368e-01 -3.619990e-01 -4.104300e-01
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##  [21345,]  5.403604e-01 -9.320041e-01  5.929410e-04 -8.899070e-01
##  [21346,]  1.247396e+00 -1.615583e-01  1.109684e+00 -5.735101e-01
##  [21347,] -7.558441e-01  4.187647e-02  1.224230e+00 -7.105994e-01
##  [21348,] -7.411956e-01  3.536425e-01  1.250855e+00 -6.685155e-01
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##  [21351,] -2.519135e+00 -3.509309e-01  9.621394e-01 -1.003194e-01
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##  [21353,]  6.385997e-01  1.134018e+00 -2.014387e+00 -3.558896e-01
##  [21354,]  4.019384e-01 -2.450212e-01  7.436914e-01  2.101210e+00
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##  [21358,]  1.253347e+00 -2.974641e-01  1.160836e+00 -6.611359e-01
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##  [21365,] -8.788206e-01  2.711527e+00 -4.099685e-01 -9.880115e-01
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##  [21372,]  4.520886e-01  2.456591e-02 -6.886282e-01  4.863115e-01
##  [21373,]  6.660074e-01 -8.400042e-01 -7.845222e-02 -7.516627e-01
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##  [21382,] -5.110959e-01 -3.009128e-01  8.542622e-01 -9.878403e-02
##  [21383,]  1.319070e-01  2.141284e-01 -1.658823e+00 -5.555535e-01
##  [21384,]  1.432572e+00  5.311973e-01  1.090642e+00  1.224430e+00
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##  [21401,]  6.384472e-01 -3.735832e-01 -2.809525e-01 -4.682508e-01
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##  [21406,]  1.684455e-01 -1.085568e+00 -1.903838e+00 -2.549380e-01
##  [21407,] -1.513498e+00  7.568910e-01  4.713467e-01 -3.430695e-01
##  [21408,] -4.236646e-01  6.368539e-01  9.217930e-01 -2.833694e-01
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##  [21415,] -3.257748e+00 -2.738721e-01  1.067671e+00  1.578710e+00
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##  [21417,] -1.346322e+00  8.784765e-01 -5.050614e-01 -5.133936e-01
##  [21418,] -1.591989e+00 -8.147691e-01  6.583111e-02  8.059170e-01
##  [21419,] -1.729781e-01 -1.077886e+00 -1.005055e+00 -8.430714e-01
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##  [21422,] -2.075894e+00  1.124450e-02  1.015065e+00 -2.671731e-01
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##  [21428,]  1.002281e-01 -6.597892e-01 -1.141971e+00 -4.461023e-01
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## [21471,]  2.103507e-01 -4.838437e-01 -1.193053e+00 -2.881502e-01
## [21472,] -3.285774e-01 -7.633847e-01  1.470543e+00 -1.107585e+00
## [21473,]  8.713608e-01  1.251332e+00 -5.393071e-01 -3.028083e-01
## [21474,]  8.816537e-01 -4.541116e-02  6.624283e-01 -5.898684e-02
## [21475,]  1.723468e-01  5.076131e-02 -1.533981e-01  1.760921e+00
## [21476,] -1.971369e+00 -3.619190e-01  3.458454e-01  1.288725e+00
## [21477,]  2.403415e-01 -5.292187e-01 -3.840511e-01  1.853196e+00
## [21478,]  2.090700e-01 -6.663224e-01  4.457919e-01  1.683361e+00
## [21479,]  8.116813e-01 -2.683664e-01 -1.670304e+00 -5.280228e-01
## [21480,] -1.600467e-01 -2.938499e-01 -1.236911e+00 -9.435542e-01
## [21481,]  1.418846e+00  5.108883e-01  1.194758e+00  1.159449e+00
## [21482,] -4.965456e-01  1.012859e+00  2.719554e-02 -4.891730e-01
## [21483,] -9.857545e-01 -2.324751e-01  2.729062e-01  1.320181e+00
## [21484,]  1.193930e-02 -5.606626e-01  6.910437e-01 -7.267173e-01
## [21485,] -4.454879e-01  9.229760e-01  8.440699e-01 -1.889016e-01
## [21486,]  8.315685e-01 -5.407567e-01 -3.966060e-01 -6.281507e-01
## [21487,] -4.557296e-01  1.571592e+00 -6.906988e-01 -2.288530e-01
## [21488,]  2.872694e-01 -2.958902e-02 -2.011840e+00 -2.108573e-01
## [21489,]  1.981277e-01 -4.739589e-01 -4.788255e-01 -4.722939e-01
## [21490,] -1.654374e-02  9.247945e-01  9.632175e-01 -3.900962e-01
## [21491,] -3.370184e-02  1.618864e+00 -1.493962e-01 -6.328664e-01
## [21492,] -1.347486e+00 -1.464988e+00 -2.407166e-01  1.879893e+00
## [21493,] -2.303139e-01 -3.354504e-02  1.577771e+00  4.544526e-01
## [21494,] -1.407629e-01 -5.774768e-03 -1.139333e-01 -8.619887e-01
## [21495,]  2.884281e-01  1.217994e-01 -1.611111e+00  1.650607e+00
## [21496,] -7.477893e-01  1.907922e-01 -1.601866e+00 -6.892455e-01
## [21497,]  5.441936e-03 -3.513735e-01  8.881265e-01  1.128059e+00
## [21498,]  2.352403e-01 -5.189479e-01 -3.068353e-01 -3.416086e-01
## [21499,]  6.104852e-02 -7.350881e-01 -2.550963e-01 -4.681041e-01
## [21500,] -7.400313e-01 -1.519233e+00  1.257842e+00 -6.002005e-01
## [21501,]  2.494869e-01 -2.042753e-01  1.042724e+00 -2.802579e-01
## [21502,] -6.255553e-01  4.462590e-02 -1.395127e+00 -6.434185e-01
## [21503,] -3.988222e-01  5.914944e-01  1.297911e+00 -1.087202e+00
## [21504,] -6.529337e-01 -1.300177e+00  5.469559e-01 -6.114020e-01
## [21505,] -6.605688e-01  1.255310e+00 -1.607023e+00 -3.714588e-01
## [21506,] -4.412012e-02  4.796133e-01 -1.447385e+00  8.973783e-01
## [21507,]  2.551197e-02 -1.220598e+00 -9.841229e-01 -5.996615e-01
## [21508,]  6.139498e-02 -1.018312e+00  1.215427e+00 -6.447473e-01
## [21509,]  5.277904e-01  7.406124e-01  1.053102e+00 -5.894054e-01
## [21510,] -2.817049e+00  7.269076e-01  9.788663e-01 -3.819199e-01
## [21511,]  5.688002e-01 -1.052611e+00 -8.831570e-01 -7.794039e-01
## [21512,]  1.763047e-01  5.935764e-01 -8.051540e-01 -1.939239e-02
## [21513,] -2.197739e-02 -1.101202e+00  1.365455e+00 -7.779857e-01
## [21514,]  1.170010e-01  4.937861e-01 -8.250780e-01  6.043588e-02
## [21515,]  7.162409e-02  2.883649e-01  9.443002e-01 -3.454770e-01
## [21516,] -4.436147e-01 -1.311590e+00  1.178553e+00 -3.317427e-01
## [21517,]  6.628708e-01 -3.999260e-01  1.561654e-01 -4.277100e-01
## [21518,]  1.660403e-01 -5.835214e-01 -1.485867e+00 -4.143375e-01
## [21519,] -7.884492e-01 -2.939089e-01 -2.082392e+00 -7.696016e-02
## [21520,] -1.557515e+00 -1.081299e-01  1.122292e-01 -9.036279e-01
## [21521,]  5.155064e-01  1.461145e+00  3.906648e-01 -5.979688e-01
## [21522,] -3.892571e-01 -6.117125e-01  2.479276e-01 -1.166285e-01
## [21523,] -6.197685e-01 -6.101168e-01  7.489863e-01  2.182299e+00
## [21524,] -2.130237e-01  1.627062e+00  9.591194e-01 -5.277279e-01
## [21525,]  2.678657e-01 -2.881239e-01  9.008495e-01  1.868559e+00
## [21526,]  8.493111e-01 -8.337254e-03  9.145526e-01 -5.168589e-02
## [21527,]  3.595506e-01 -3.995072e-02  1.953579e-01 -2.347042e-02
## [21528,]  7.807631e-01 -1.766916e-01 -2.635637e-01 -5.917671e-01
## [21529,]  8.314962e-01  1.000486e+00 -4.304075e-01 -3.481587e-01
## [21530,]  5.940235e-01 -4.745100e-01  1.393906e+00  1.008875e+00
## [21531,]  7.103872e-01 -6.490947e-01  1.128699e+00 -5.360644e-01
## [21532,] -4.838353e-01  1.080414e-01  5.378282e-01 -4.176455e-01
## [21533,]  1.127545e-01 -1.222906e+00 -1.505610e+00 -6.258068e-01
## [21534,]  2.301191e-01  1.959830e-01  8.163345e-01 -8.479970e-02
## [21535,] -4.131761e-01 -1.194346e+00  5.960969e-01  1.593537e+00
## [21536,]  1.113938e+00  1.562415e+00 -2.818071e-01 -8.326938e-01
## [21537,]  3.300672e-04 -1.233684e+00  6.195759e-01 -7.510033e-01
## [21538,]  1.491500e+00  1.981000e-01 -2.035532e+00 -1.243900e-01
## [21539,]  1.334762e+00 -5.468721e-01  1.156652e+00 -6.248292e-01
## [21540,] -2.879245e+00  4.211048e-01 -7.249174e-01  2.921009e-01
## [21541,] -6.294644e-01 -5.294703e-01 -1.703192e+00 -7.191015e-01
## [21542,]  1.711624e-01 -9.607245e-01  1.011050e+00  1.680324e+00
## [21543,]  4.286840e-01 -3.511284e-02  6.492701e-01  4.373180e-01
## [21544,] -2.563850e+00 -3.010700e-01 -1.120603e+00 -1.175598e-01
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## [21545,]  2.831270e-01 -5.800772e-01 -1.384029e+00  1.702168e+00
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## [21547,]  2.267505e-01 -4.127070e-01  9.746164e-01  1.752750e+00
## [21548,] -1.063358e-01 -7.331139e-01  1.204868e+00  1.279469e+00
## [21549,] -3.560608e-01 -4.605905e-01  8.667261e-01  2.044737e+00
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## [21552,] -2.193725e+00  6.267325e-01 -4.260035e-01 -3.438185e-01
## [21553,] -2.636949e+00  7.027161e-01  7.954205e-01 -1.080058e-01
## [21554,] -8.454458e-01  1.239775e+00  1.342945e+00 -1.128066e+00
## [21555,] -7.081319e-01 -1.316649e+00  1.189304e+00 -4.987145e-01
## [21556,] -5.586828e-01 -6.301090e-02  1.103092e+00 -4.844599e-01
## [21557,]  6.524714e-01  1.138568e-02 -2.000541e-01  1.180279e+00
## [21558,] -4.338751e-01  1.750240e-01 -1.355140e+00  2.075803e+00
## [21559,] -1.999353e+00 -2.195187e-01  6.704730e-01  9.817206e-03
## [21560,]  8.456033e-01 -3.755985e-01  1.029895e+00 -3.943832e-01
## [21561,] -6.305714e-01  9.756577e-01  1.330345e+00  9.197639e-01
## [21562,]  1.926583e-01 -7.944438e-02 -1.769855e+00 -4.698065e-02
## [21563,] -2.028808e-01  8.728966e-01 -1.441025e+00 -6.750071e-01
## [21564,] -2.219874e+00 -1.236130e-01  1.070978e+00 -4.368121e-01
## [21565,] -3.846040e-01 -5.304982e-01  8.859170e-01 -5.644153e-02
## [21566,] -9.064430e-02  1.256119e+00  7.830885e-01 -2.520133e-01
## [21567,]  8.138609e-02 -3.737631e-02 -1.309347e+00 -5.360862e-01
## [21568,] -1.033948e-01 -6.326922e-01  4.495561e-01 -5.657851e-01
## [21569,] -3.794262e-02 -4.017782e-01 -8.627608e-01 -6.405979e-01
## [21570,] -2.266862e+00 -8.716740e-01  6.576415e-01  2.342974e+00
## [21571,]  1.467183e+00 -6.789432e-02  9.184972e-01 -2.460101e-01
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## [21573,] -1.385631e-01 -4.176441e-01 -1.384793e+00 -6.615976e-01
## [21574,]  7.835910e-01 -5.909173e-01  8.130264e-01 -1.653944e-01
## [21575,] -2.126323e+00  1.360025e+00 -4.415380e-01 -6.846371e-01
## [21576,]  7.894648e-01 -3.534157e-02  1.031319e+00  1.641926e+00
## [21577,] -7.981390e-01 -6.004813e-01  1.382339e+00 -8.957974e-01
## [21578,]  8.902818e-01 -4.543207e-02 -1.908720e+00 -9.468394e-02
## [21579,]  2.386806e-01  1.092498e+00  1.432017e+00 -1.265795e+00
## [21580,] -7.238010e-01  1.234543e+00 -4.480464e-01 -7.765186e-01
## [21581,]  4.562708e-01  1.401578e+00  1.337907e+00 -1.139953e+00
## [21582,] -1.528060e+00  1.662757e+00 -1.442693e+00 -1.080925e+00
## [21583,] -1.420477e+00 -1.342383e+00 -1.894061e+00  1.706683e+00
## [21584,] -7.132453e-01 -1.153706e+00  1.164287e+00 -4.882079e-01
## [21585,]  1.020323e+00 -2.912211e-02 -2.086430e+00 -1.108077e-01
## [21586,] -9.052629e-01  1.007933e-01 -1.273935e+00 -1.145890e+00
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## [21588,]  7.630060e-01  2.335119e-01 -1.946024e+00 -3.791168e-01
## [21589,]  9.262203e-01 -6.690498e-01 -2.725164e-01 -3.734534e-01
## [21590,] -3.289056e-02  1.082941e+00  1.198660e+00 -7.974909e-01
## [21591,] -6.066076e-01 -6.994053e-01 -1.703279e+00 -2.613751e-01
## [21592,]  6.930866e-01 -8.904865e-02 -3.111106e-01 -3.295206e-01
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## [21594,]  1.347149e+00  7.328475e-01  9.628427e-01 -4.398212e-01
## [21595,] -4.904670e-01 -2.392704e-01 -1.293233e+00 -1.205030e-01
## [21596,] -4.515762e-01 -8.016712e-01 -1.555871e+00 -1.270156e-01
## [21597,] -1.633559e+00 -1.280139e-01 -1.278785e+00 -1.117924e+00
## [21598,]  3.419432e-01  7.062366e-01 -9.252969e-01  2.674562e-01
## [21599,]  1.903015e-01 -1.103539e+00 -6.230175e-02  1.296175e+00
## [21600,]  7.370012e-01 -5.254265e-01  3.430720e-01  1.565086e+00
## [21601,]  7.517763e-02 -5.822211e-01 -1.622534e+00 -1.694745e-01
## [21602,]  7.624943e-01  3.886577e-01 -3.728776e-01  1.628187e+00
## [21603,]  2.862000e-02 -1.065597e-01 -2.275271e-01 -5.315403e-01
## [21604,]  6.560854e-01  2.075191e-01  9.496603e-01 -3.392347e-01
## [21605,]  1.900800e-01 -1.940035e-02  1.545751e-02  1.995554e+00
## [21606,]  7.046804e-01  8.037332e-01  1.098966e+00 -7.000089e-01
## [21607,] -1.429683e+00  4.736175e-01 -2.000734e-01 -6.925246e-01
## [21608,] -1.012908e-01 -1.286369e+00  6.115067e-01  1.188536e+00
## [21609,] -6.875382e-01  7.613955e-01  2.188699e-01  1.082696e+00
## [21610,]  8.350884e-01 -2.625023e-01  8.340481e-01  1.958130e-02
## [21611,]  7.183361e-01  5.761453e-01  8.374990e-01  1.121942e+00
## [21612,]  7.050751e-01  5.361951e-01  1.136208e+00 -7.316644e-01
## [21613,] -2.700431e+00 -6.783550e-01 -3.156126e-02 -7.592635e-01
## [21614,]  9.266695e-01  2.803874e+00 -1.639862e+00 -1.007193e+00
## [21615,] -1.508567e+00  5.873263e-01  1.351791e+00 -1.078866e+00
## [21616,] -6.040895e-01  9.084141e-01  1.041381e+00 -5.712973e-01
## [21617,]  1.387202e+00 -3.326273e-01  7.732911e-01  1.701640e+00
## [21618,] -7.593149e-01  1.250045e-01  1.775946e-01 -7.477052e-01
## [21619,] -2.232571e+00  1.112176e-01  1.223538e+00 -7.308517e-01
## [21620,]  7.102747e-01 -7.512055e-01 -3.466430e-01  1.455905e+00
## [21621,] -5.519602e-01  6.095498e-01  1.862017e-01 -1.730971e-01
## [21622,] -5.676496e-02 -1.403640e-01  7.378179e-01 -1.040330e+00
## [21623,]  9.594765e-02 -2.788362e-01 -1.849707e+00 -5.370886e-01
## [21624,]  7.566017e-02 -5.533770e-01 -6.680219e-02  1.111949e+00
## [21625,]  8.001404e-01 -4.229246e-01 -1.323436e+00 -1.241166e-01
## [21626,] -3.178492e-02 -6.580214e-01  5.677165e-01 -4.008916e-01
## [21627,] -1.489022e+00 -4.507567e-01  7.201022e-02 -4.439712e-01
## [21628,]  6.234582e-01 -4.819287e-01 -2.027528e-01 -5.330112e-01
## [21629,] -2.465361e+00  4.711446e-02  7.606233e-01  1.944472e-01
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## [21632,]  3.391660e-01 -4.936545e-01 -6.828807e-01 -1.245867e-01
## [21633,] -2.597514e+00 -3.416025e-01  1.008363e+00 -2.701216e-01
## [21634,] -8.378454e-01 -1.292462e+00 -1.023797e+00 -3.487967e-01
## [21635,] -9.566603e-01  1.080551e+00 -1.562127e+00 -1.142267e+00
## [21636,] -4.158627e-03  9.602783e-01 -2.710084e-01 -7.722239e-01
## [21637,] -5.074927e-01 -7.889442e-01 -1.492630e+00 -4.372356e-01
## [21638,]  1.012269e+00 -1.925670e-01 -5.339848e-01  1.153610e-02
## [21639,]  1.290966e-01 -8.093793e-01 -2.532971e-01 -3.756441e-01
## [21640,] -1.127687e+00  4.737757e-01 -2.488281e-01 -2.467012e-01
## [21641,]  1.103432e+00 -1.011076e+00 -2.880097e-01 -9.390942e-01
## [21642,]  2.656447e-01  1.126565e+00 -6.943165e-01  1.921055e+00
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## [21643,] -2.874148e-01 -9.063773e-01 -6.907397e-01  1.095263e-01
## [21644,]  1.318599e+00  8.082836e-02 -1.102193e+00  1.148165e+00
## [21645,]  4.371047e-01  1.792069e-01 -8.190459e-01  2.005744e+00
## [21646,] -7.918008e-01 -7.327963e-01 -1.164153e+00 -6.829016e-01
## [21647,] -4.476468e-01  6.492545e-01 -1.964561e+00 -3.167997e-01
## [21648,]  2.112034e-01 -2.943578e-01 -1.649665e+00 -1.576276e-01
## [21649,] -1.269132e+00 -6.849384e-01  1.184297e-01  1.633951e+00
## [21650,] -3.120462e+00 -8.342129e-01 -5.944354e-01 -1.410086e-02
## [21651,]  8.856032e-01  2.923796e-01 -5.820229e-01  1.720026e-01
## [21652,] -1.368990e+00  2.405863e+00 -8.423577e-01 -5.884587e-01
## [21653,]  9.341881e-01  3.009471e+00 -3.209000e-01  7.906829e-01
## [21654,]  5.400511e-01 -5.214813e-01  2.046620e-01 -7.624550e-01
## [21655,]  8.698431e-01 -1.887251e-02 -1.084794e-01 -1.460593e-01
## [21656,] -6.239254e-01  4.599553e-01  3.349859e-01 -8.206409e-01
## [21657,] -1.619936e+00  4.981184e-01  1.549935e+00 -1.373989e+00
## [21658,]  7.410875e-01 -2.936557e-01  9.918072e-01 -3.124524e-01
## [21659,] -1.728782e+00  1.140842e+00 -3.806405e-01  1.353651e+00
## [21660,] -7.487196e-01  2.441812e-01  1.305234e+00 -9.071177e-01
## [21661,] -1.324231e+00 -1.628263e+00  8.704593e-01  1.748601e+00
## [21662,] -4.730598e-01 -1.324589e+00 -1.737470e+00  1.397470e+00
## [21663,]  1.014776e+00 -7.802580e-01  1.511386e+00 -1.217000e+00
## [21664,]  8.413469e-01  9.913284e-02  1.024728e+00 -4.560193e-01
## [21665,]  7.437936e-01 -6.696290e-01 -1.114008e+00 -7.513164e-01
## [21666,]  6.046247e-01 -1.043595e+00 -2.454866e-01 -7.169646e-01
## [21667,]  1.777292e-01 -8.212386e-01  1.246983e+00 -5.377849e-01
## [21668,]  1.055560e+00  4.192637e+00 -5.270122e-02 -7.701938e-01
## [21669,] -5.338340e-01  1.562315e+00 -7.764500e-01  1.991482e+00
## [21670,] -8.938668e-02 -7.075556e-01 -8.930685e-02 -8.203277e-01
## [21671,] -2.304465e+00  5.377800e-01 -1.792964e+00 -6.398427e-01
## [21672,] -1.350154e+00 -5.081886e-01  2.347339e-01 -6.791078e-01
## [21673,]  1.073473e-01 -1.376664e+00  1.316892e+00 -6.158179e-01
## [21674,]  6.976592e-01 -7.622944e-01 -5.140750e-01 -6.114407e-01
## [21675,] -1.153379e-01 -4.181682e-01  1.916801e-01  5.938775e-01
## [21676,] -7.270387e-01 -1.154454e+00 -1.828441e+00 -3.757954e-01
## [21677,]  5.884734e-01  2.397307e+00  1.129511e+00 -7.345629e-01
## [21678,]  7.677298e-01 -8.769338e-01  1.012885e+00 -3.096490e-01
## [21679,] -2.066909e+00  7.557904e-02 -1.136647e+00 -7.530441e-01
## [21680,] -2.767778e-01 -1.065665e+00  1.435928e-01  1.962750e+00
## [21681,] -2.666607e-01  2.139363e+00  7.799424e-01 -1.153794e+00
## [21682,]  1.147512e+00 -3.726808e-01 -9.917697e-02 -7.918775e-01
## [21683,] -6.065214e-01  8.029089e-01 -1.810582e+00 -3.189097e-01
## [21684,]  8.529767e-01  2.445938e+00  5.680807e-01 -2.374610e-01
## [21685,]  3.242381e-01  6.985424e-01  2.708944e-04 -1.107632e+00
## [21686,]  8.780420e-02  1.382724e-01  7.922455e-01  1.234012e+00
## [21687,]  2.459876e-01 -2.024163e-01 -1.975823e+00  5.408409e-02
## [21688,]  1.341782e+00  6.850591e-01  9.703720e-01 -4.564847e-01
## [21689,]  1.182429e-02 -2.849841e-01  9.416991e-01 -2.175429e-01
## [21690,] -5.870396e-01 -8.266921e-01 -2.508472e-01 -3.825472e-01
## [21691,] -1.383927e+00  2.132904e-01  1.384151e-01 -6.595641e-01
## [21692,] -7.740541e-01  6.328769e-01 -5.315605e-01 -6.677183e-01
## [21693,]  6.640051e-01 -1.205792e+00 -9.524746e-01 -6.682637e-01
## [21694,]  6.319555e-01  1.210706e+00 -9.679139e-02 -8.426292e-01
## [21695,]  3.417499e-01 -1.446058e-01  1.373773e+00 -1.199304e+00
## [21696,] -1.308470e+00 -1.565139e-01  1.324267e-02  1.293150e+00
## [21697,] -2.707632e+00 -1.999992e-01 -1.814141e+00 -4.861185e-01
## [21698,] -7.630850e-01 -3.177648e-01  1.087909e+00 -4.989876e-01
## [21699,] -7.572503e-01  7.621798e-01  1.700861e-01 -1.276205e+00
## [21700,] -6.558010e-01  1.052578e+00 -7.827571e-02  1.203217e+00
## [21701,] -7.056926e-01  2.472472e+00  9.643457e-01 -7.876396e-01
## [21702,] -5.632059e-01 -5.286297e-01 -1.716250e+00 -3.379413e-01
## [21703,]  1.174595e+00 -8.111049e-01  4.831722e-01 -8.802180e-01
## [21704,] -4.641931e-01  1.106900e+00 -1.871259e-01 -1.646480e-01
## [21705,]  1.257819e+00  5.975288e+00  6.250142e-01  1.376767e+00
## [21706,] -7.630857e-02  9.951330e-02 -1.609356e+00 -6.868831e-01
## [21707,]  6.334873e-01 -7.523087e-01 -1.735506e+00 -6.003370e-01
## [21708,]  1.304630e+00 -1.951008e-01  1.054983e+00  1.517529e+00
## [21709,] -3.932669e-01  1.207324e-02  1.113139e+00  1.393195e+00
## [21710,]  7.419227e-01 -7.790924e-01  1.309125e+00 -8.150161e-01
## [21711,]  8.170127e-01 -9.681187e-02 -1.334729e+00 -4.883407e-01
## [21712,]  6.624570e-01 -7.709239e-01 -1.593356e+00 -5.272965e-01
## [21713,] -2.689459e+00 -1.116501e-01  1.181501e+00 -4.951291e-01
## [21714,]  5.646327e-01  7.159033e-02 -2.350199e-01 -1.076397e+00
## [21715,]  7.893919e-01  3.638148e-01  7.045513e-01  2.039086e-02
## [21716,] -1.124391e+00 -9.258334e-01  1.408208e+00  9.350999e-01
## [21717,]  8.797032e-02  3.386109e-01 -4.759443e-01 -6.312729e-01
## [21718,]  7.335973e-01 -6.363006e-01 -1.765478e+00 -5.632899e-01
## [21719,]  2.255779e-02 -5.286664e-01 -7.097718e-01 -6.065920e-01
## [21720,] -1.502248e+00 -1.112558e-01  1.341726e+00 -9.345887e-01
## [21721,]  1.808683e-01 -9.201101e-01 -1.287603e-01  1.439426e+00
## [21722,] -1.978345e+00  3.444794e-01 -8.335384e-01  1.976419e+00
## [21723,]  1.382770e-01 -1.504039e-01  1.114525e+00 -5.204219e-01
## [21724,]  5.727903e-02  2.665202e-02 -3.049179e-01  1.361952e+00
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## [21726,] -1.160260e+00  1.619954e-01 -1.886317e+00 -3.773743e-01
## [21727,]  7.802124e-01  1.379571e-01 -1.397647e+00 -6.783646e-01
## [21728,]  8.994388e-01 -9.449072e-01 -1.393010e-01  1.361450e+00
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## [21730,]  7.232457e-01  4.172606e-01  1.129287e+00 -7.020876e-01
## [21731,]  7.364994e-01 -5.138719e-01  1.094182e+00 -4.627738e-01
## [21732,]  1.542057e+00  9.381476e-01  1.060187e+00 -3.742048e-01
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## [21737,] -1.257039e-01 -1.128313e+00  1.311935e+00  1.175192e+00
## [21738,]  2.435406e-02 -1.398534e+00  5.572981e-01  1.003818e+00
## [21739,] -1.345216e+00 -1.194788e+00  6.533838e-01  1.747590e+00
## [21740,] -1.896356e-02 -8.402659e-01 -5.058712e-01 -4.157041e-01
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## [21741,] -9.025234e-02  7.930020e-01  6.614348e-01 -5.733323e-01
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## [21743,]  8.727912e-02  5.474168e-01 -1.967885e+00 -2.739674e-01
## [21744,]  1.103130e-01 -6.128369e-01 -1.738797e+00 -3.257773e-01
## [21745,] -2.273921e+00  8.492896e-01  1.014816e+00 -5.067109e-01
## [21746,]  1.075740e-01 -2.885543e-01 -1.762956e+00 -2.992116e-01
## [21747,] -2.180627e+00  2.045964e-01 -2.701238e-01 -4.029385e-01
## [21748,]  1.232773e-01 -3.346522e-01 -1.134885e+00 -3.796658e-01
## [21749,]  1.615937e-01 -1.134897e+00  1.651810e-01 -6.162346e-01
## [21750,]  8.952464e-02 -8.581885e-01 -1.291591e-01 -1.339270e-01
## [21751,]  1.017733e+00  6.196922e-01 -6.648601e-01 -1.644446e-02
## [21752,]  9.830508e-01  4.925929e-01 -3.775299e-01 -1.406398e-01
## [21753,] -4.747994e-01  4.820044e-01  8.951149e-01 -2.069740e-01
## [21754,]  1.757562e-01 -3.846216e-01 -3.895940e-01 -2.052621e-01
## [21755,] -6.261312e-01 -1.913884e+00 -1.507404e+00  1.151760e+00
## [21756,]  8.046745e-01  6.991594e-01 -2.056898e+00 -4.559550e-02
## [21757,] -3.317362e+00 -4.965048e-01 -8.783986e-01 -4.792479e-01
## [21758,]  6.748759e-01  5.430620e-02 -2.094917e-01  1.476898e+00
## [21759,] -6.604429e-01 -1.629143e+00 -1.508174e+00 -5.030719e-01
## [21760,]  3.929757e-02  1.781381e-01  1.012072e+00 -4.408450e-01
## [21761,]  1.331305e-01  1.560433e+00  9.165604e-01  1.731747e+00
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## [21765,]  6.860529e-02  5.958502e-01 -1.081919e+00 -3.712522e-01
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## [21769,] -1.393922e+00 -1.345338e+00 -1.296300e+00 -6.358597e-01
## [21770,] -1.764669e-01  1.450577e+00  1.073655e+00 -7.055036e-01
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## [21773,]  9.495040e-02 -2.041296e-01 -1.767881e+00 -5.222350e-02
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## [21776,] -2.681412e+00 -5.380167e-01 -2.343992e-01 -4.619665e-01
## [21777,]  2.488687e-01 -7.204061e-01 -8.776315e-01 -2.056436e-01
## [21778,] -1.552924e+00 -2.655344e-01  1.185044e+00 -5.433134e-01
## [21779,] -3.345297e-01  2.745286e-01  1.536806e+00 -1.353604e+00
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## [21781,] -1.566584e-01 -8.061315e-01  1.487171e+00 -1.153829e+00
## [21782,] -9.032466e-02  3.944710e-01 -1.947596e+00 -4.449397e-01
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## [21787,]  1.919662e-01 -4.202467e-02  9.727006e-01 -2.319442e-01
## [21788,] -5.767096e-01 -1.863321e+00  1.419587e+00  1.136126e+00
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## [21790,] -4.935169e-01 -5.403861e-01 -5.345571e-01  2.927462e-01
## [21791,]  1.300342e+00 -3.300706e-01 -1.674165e+00 -7.729201e-01
## [21792,]  1.286761e-01 -4.602333e-01 -1.719368e+00 -3.748446e-01
## [21793,]  6.722850e-01 -1.100021e-01 -1.533087e+00 -4.140113e-01
## [21794,] -1.265750e+00 -8.750927e-01  1.179267e-01 -2.944726e-01
## [21795,] -5.657252e-02 -1.288229e+00 -9.932766e-01 -9.195692e-01
## [21796,]  1.835584e-02 -6.996580e-01  7.746463e-01 -5.073556e-01
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## [21798,]  8.982717e-01 -1.055464e-01  4.899657e-01 -3.729336e-01
## [21799,] -7.572975e-01  8.703532e-01  1.119702e+00 -7.705023e-01
## [21800,] -1.400928e+00  2.463327e-01 -1.266434e-01  1.368284e+00
## [21801,]  1.080236e-01 -8.168130e-01 -3.411582e-01 -2.974100e-01
## [21802,]  9.230297e-01 -1.604534e-01  2.078354e-01  1.490621e+00
## [21803,]  7.244080e-01 -1.096773e+00 -1.220899e-01  1.357721e+00
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## [21806,]  5.169034e-01 -9.543979e-01 -1.538428e+00 -9.135288e-01
## [21807,]  6.273523e-01  1.175220e+00 -1.494886e+00 -8.477633e-01
## [21808,]  2.208277e-01 -8.782476e-01 -2.410581e-01 -4.190586e-01
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## [21810,] -2.056378e-01  1.495563e+00  1.275392e-01 -1.030951e+00
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## [21813,] -8.610453e-02 -5.058647e-01 -1.327323e+00  1.269418e+00
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## [21819,] -3.883665e-01 -8.161767e-01 -4.137636e-01  1.687769e+00
## [21820,] -3.212432e+00 -7.623750e-01 -3.082710e-01  1.577270e+00
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## [21823,] -8.509124e-01 -1.068171e+00  1.828157e-01 -1.096653e+00
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## [21825,]  1.583319e-01 -5.733952e-01 -1.964852e+00 -2.163603e-01
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## [21827,]  6.174775e-01 -6.361056e-01 -4.804963e-01 -5.929825e-01
## [21828,] -1.533446e+00 -1.488027e-01 -1.326026e+00 -1.084727e+00
## [21829,] -1.219596e+00 -1.229603e-01  1.404928e+00 -1.047284e+00
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## [21832,]  3.797948e-01  1.328862e+00  1.317452e+00 -1.020213e+00
## [21833,]  1.097225e+00  8.702964e-01 -5.009567e-01 -7.271904e-01
## [21834,]  9.768016e-01 -2.822488e-01  7.898229e-01  1.336802e-01
## [21835,]  9.705405e-01 -1.198779e-01 -4.421015e-01 -1.869967e-01
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## [21837,]  5.482411e-01  1.057165e+00  1.242059e+00 -9.502761e-01
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## [21841,]  7.162282e-01  3.252015e-01 -3.703215e-01 -6.582251e-01
## [21842,]  1.168571e+00 -1.230740e+00  1.026538e+00 -9.113504e-01
## [21843,]  9.325453e-02 -1.190325e+00 -3.589471e-01 -5.579334e-01
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## [21846,] -1.476547e+00  1.133425e+00 -1.842036e+00 -5.872668e-01
## [21847,] -5.429255e-01 -1.475816e+00  2.920261e-01  1.222763e+00
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## [21849,] -1.316561e+00 -7.973081e-02  1.217160e+00 -7.020613e-01
## [21850,]  7.158124e-01  7.954504e-01  9.372779e-01 -3.536566e-01
## [21851,] -2.384029e+00  1.167012e+00  1.129779e+00  1.167244e+00
## [21852,] -8.716577e-01  8.362145e-01 -1.659241e+00 -9.586130e-01
## [21853,]  8.602043e-01  1.754109e-01 -1.972609e+00 -3.615998e-01
## [21854,] -1.823984e-02  3.079546e-01 -4.724727e-01  1.314675e+00
## [21855,] -1.146690e+00 -2.320919e-01  2.550470e-01 -1.439467e+00
## [21856,] -1.202739e+00  1.075945e+00  9.858496e-01  1.541058e+00
## [21857,] -2.169377e-01  1.521050e+00 -2.083598e-01  6.968420e-01
## [21858,] -2.298249e+00  2.210837e+00 -1.711641e+00 -4.542168e-01
## [21859,] -2.412064e-01 -7.949908e-01 -1.536454e+00 -9.721917e-01
## [21860,] -1.361786e+00  1.319284e+00  5.508098e-02 -6.855747e-01
## [21861,] -1.397543e+00 -7.414520e-01  9.249522e-01 -1.376671e-01
## [21862,]  1.068262e+00  6.905014e-01  5.386910e-01  1.366310e-01
## [21863,]  5.933231e-01 -8.968582e-01  1.256881e+00 -6.504497e-01
## [21864,] -6.614764e-01 -4.101106e-01 -5.562473e-02 -7.893408e-01
## [21865,]  3.639643e-01  7.806705e-01  1.360277e+00 -1.106092e+00
## [21866,]  8.554997e-01  9.219175e-01 -4.687992e-01 -3.826026e-01
## [21867,] -6.889329e-01 -1.296626e+00 -5.268827e-02 -6.866032e-01
## [21868,]  7.860993e-01 -8.759707e-01 -2.570890e-01 -4.012873e-01
## [21869,] -2.339739e-01  1.133178e+00  1.178910e+00 -8.785800e-01
## [21870,]  8.222302e-01  1.491328e-02  8.578906e-01 -1.729027e-01
## [21871,] -8.046668e-01 -2.119605e-01 -7.878051e-02 -8.266943e-01
## [21872,] -6.119813e-01 -8.205897e-01  1.061597e+00 -4.076754e-01
## [21873,] -2.492583e+00  1.634129e-01  1.293490e-02 -1.571835e-01
## [21874,] -1.066360e+00  7.889803e-01 -5.819660e-01  4.054099e-04
## [21875,] -1.812610e-01 -1.852232e-01 -1.561798e+00 -9.979502e-01
## [21876,]  1.360208e-03 -1.497128e+00  1.818429e-01  8.101901e-01
## [21877,]  7.705664e-01 -2.301439e-01 -2.707321e-01 -1.881821e-01
## [21878,] -4.181920e-01  9.350609e-01 -4.697642e-01  1.954454e+00
## [21879,]  4.589238e-01  1.165486e-01 -1.011118e+00  3.956243e-01
## [21880,] -2.889623e+00  6.988181e-02 -1.666509e+00 -7.870791e-01
## [21881,] -3.060671e+00  1.073890e-01 -5.842230e-01 -1.180735e-02
## [21882,]  7.209402e-01 -7.702708e-01  1.035856e+00 -8.942774e-01
## [21883,]  1.336988e+00 -5.080143e-01  1.160430e+00 -6.189566e-01
## [21884,] -1.433582e+00  7.766791e-01  1.193870e+00 -6.832887e-01
## [21885,]  1.520909e-02 -6.099656e-01 -2.874107e-01 -6.945888e-01
## [21886,]  1.912354e-01 -1.185685e+00  1.128586e+00  1.483431e+00
## [21887,] -7.643808e-01  4.077979e-01  8.055127e-01  9.017818e-01
## [21888,] -1.123203e+00  1.250526e+00 -1.510855e-01  9.742452e-02
## [21889,] -1.361312e-01 -4.250037e-01  1.153878e+00 -5.932821e-01
## [21890,]  7.544378e-02 -6.898409e-01 -1.746455e-01 -5.001600e-01
## [21891,] -8.714699e-01 -3.931171e-01 -9.176161e-01  4.846395e-01
## [21892,] -1.187395e-01 -1.025744e-01  6.042559e-02 -5.555795e-01
## [21893,] -2.131161e-01 -1.404144e+00  6.979116e-02 -9.193021e-01
## [21894,] -3.311465e+00  9.359102e-01 -3.259327e-01 -4.819867e-01
## [21895,] -1.665094e+00 -8.611149e-01 -1.454630e+00 -9.702857e-01
## [21896,] -5.895308e-01  7.100878e-01 -2.976558e-01 -4.817530e-01
## [21897,] -1.786667e+00 -9.916824e-01 -1.113691e-01  2.185749e+00
## [21898,]  7.288596e-01  1.097114e+00 -1.970008e-01 -6.472592e-01
## [21899,]  2.262025e-02 -7.313158e-01 -1.184061e-01 -6.268512e-01
## [21900,]  1.016264e+00  5.521866e-01 -2.121393e+00  2.502061e-02
## [21901,]  1.268245e+00 -6.223289e-01 -1.553984e-01 -7.315237e-01
## [21902,]  6.708175e-01 -5.887842e-01  1.129204e+00  1.423445e+00
## [21903,]  3.080574e-01  5.065898e-01 -5.052972e-01  8.400981e-02
## [21904,]  1.233376e+00  4.295591e-01  1.195037e+00 -6.597707e-01
## [21905,]  1.775932e-02 -1.124008e+00 -8.240933e-01  1.190278e+00
## [21906,] -2.317112e+00 -5.541657e-01  4.883466e-01 -8.448083e-01
## [21907,]  3.538753e-01 -3.458185e-01 -3.396227e-03 -5.432377e-02
## [21908,] -7.134029e-01  6.024075e-01 -2.309945e-01 -8.779172e-01
## [21909,]  4.969740e-01  9.493636e-01  1.121309e+00 -6.588483e-01
## [21910,]  1.696832e-01 -3.488745e-01  9.041145e-01 -1.845362e-01
## [21911,] -2.978429e+00  7.870854e-02  1.386914e+00 -1.032676e+00
## [21912,] -6.313494e-01  4.648622e-01  1.046407e-02  1.048000e-01
## [21913,]  1.825279e-01 -4.206693e-02 -1.039968e-01 -9.737124e-02
## [21914,]  8.515114e-02 -5.903669e-01  1.064959e+00 -3.353368e-01
## [21915,] -6.978385e-01 -1.087642e+00  8.895924e-01  1.944758e+00
## [21916,]  6.498444e-01 -6.067228e-01 -1.380668e+00 -5.475851e-01
## [21917,]  5.560851e-01 -1.397700e+00  1.488025e+00  1.013251e+00
## [21918,] -6.512738e-02 -3.766887e-01  2.152813e-02  7.494792e-01
## [21919,]  6.434013e-02  4.254458e-04 -1.978945e+00 -3.548646e-01
## [21920,]  4.310890e-01  9.748490e-01 -8.666418e-01  2.271296e-01
## [21921,]  3.089169e-01 -2.531173e-02 -1.427747e+00  1.683201e+00
## [21922,] -4.775462e-01  7.317653e-01 -2.028065e-02 -4.554963e-01
## [21923,]  9.536904e-02  1.811607e+00  2.721169e-01 -3.541321e-01
## [21924,] -5.134950e-01 -7.264167e-01 -4.447098e-01  1.870632e+00
## [21925,]  7.982927e-01 -2.046621e-01  8.623214e-01 -5.856554e-02
## [21926,]  8.255834e-01 -3.181908e-01 -3.373136e-01  1.599246e+00
## [21927,] -4.848808e-01 -9.414437e-01 -1.806409e+00 -4.281746e-01
## [21928,] -1.700790e+00 -1.048150e+00 -1.887189e+00  2.055428e+00
## [21929,] -1.281102e+00  2.015862e+00  1.071601e+00 -4.294518e-01
## [21930,]  6.832336e-01 -7.722146e-01 -5.034628e-01 -4.521568e-01
## [21931,] -1.514242e+00  8.536412e-01  1.206693e+00 -8.409754e-01
## [21932,] -5.774475e-01  7.557564e-01  8.518501e-01 -1.772237e-01
## [21933,] -1.202327e+00  8.078721e-01  9.014800e-01 -1.233573e-01
## [21934,] -1.383859e+00 -5.217171e-01  1.397230e+00  6.785323e-01
## [21935,] -1.155215e-01  8.739546e-01 -5.498316e-01 -4.121994e-01
## [21936,] -4.388102e-01 -5.601873e-02 -1.721361e-01 -1.610625e-01
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##  [21937,]  8.973565e-01 -1.887617e-01 -5.114349e-01  1.510836e+00
##  [21938,] -2.166573e+00 -4.487667e-01  1.310108e+00 -6.718493e-01
##  [21939,]  7.061155e-01 -7.512800e-01  2.125983e-02 -9.156212e-01
##  [21940,]  6.874584e-01 -1.413434e+00  1.182714e-01 -9.448545e-01
##  [21941,]  7.899284e-02 -1.956377e-02 -1.523923e+00 -4.420316e-01
##  [21942,]  8.455081e-01 -2.644711e-01 -2.695200e-01 -5.040676e-01
##  [21943,]  1.011379e+00 -3.284222e-01  9.371411e-01 -1.216074e-01
##  [21944,] -3.434316e-01 -9.541730e-01 -1.528872e+00  1.740721e+00
##  [21945,]  1.248774e+00  3.117732e+00  1.068291e+00 -7.964501e-01
##  [21946,]  1.281053e+00  1.114179e+00  3.865630e-01  8.792460e-01
##  [21947,]  1.130854e+00 -1.099433e+00 -1.297637e+00 -1.048132e+00
##  [21948,] -3.394046e-01  1.934843e+00  8.366746e-01  6.337967e-03
##  [21949,]  2.663242e-01  1.812854e-01 -2.913699e-01  5.996564e-02
##  [21950,]  1.334631e+00  2.195048e-01 -1.338529e-01 -2.341335e-01
##  [21951,] -1.617123e-01  5.167762e-01 -1.463867e+00 -1.254429e+00
##  [21952,]  8.716567e-01 -1.327833e-01 -1.156686e+00 -1.324992e-01
##  [21953,] -2.200990e+00 -3.267074e-01  1.079532e+00 -4.173495e-01
##  [21954,]  1.509840e+00 -1.977112e-01 -6.163217e-03 -1.833074e-01
##  [21955,] -2.256894e+00  6.861154e-01 -9.340325e-03  1.378777e+00
##  [21956,] -2.004371e+00  3.781434e-01  2.854633e-01 -5.557546e-01
##  [21957,] -1.763224e-01  1.790478e+00 -1.215695e+00 -8.543136e-01
##  [21958,] -4.468239e-01  7.708207e-01  8.266449e-01 -6.387558e-02
##  [21959,]  6.609371e-03  1.160230e+00  9.704223e-01 -3.299942e-01
##  [21960,] -1.091472e+00  3.045503e-01 -1.187542e-01 -7.004050e-01
##  [21961,]  3.172302e-01  2.161377e-01  7.787658e-01  1.012930e-01
##  [21962,] -1.327970e+00  3.067564e-02 -3.970601e-01 -3.304326e-01
##  [21963,]  9.017351e-02 -9.020539e-01 -1.919285e+00 -1.934940e-01
##  [21964,] -1.101739e+00  1.047345e+00  8.931141e-01 -6.183279e-01
##  [21965,] -1.474683e+00 -6.769353e-01 -1.389497e+00 -8.061579e-01
##  [21966,]  1.528721e-01 -4.590135e-01 -5.338736e-01  1.671434e+00
##  [21967,]  1.140100e+00  6.703582e-01  1.197774e+00 -7.553219e-01
##  [21968,]  7.354891e-01  2.560836e-03 -3.336751e-01 -7.999702e-01
##  [21969,]  3.057757e-01 -3.623949e-01 -1.665199e+00 -1.856549e-01
##  [21970,]  8.122075e-02 -8.441581e-01  1.198118e+00  1.446164e+00
##  [21971,] -5.517712e-02 -5.427588e-01 -1.963491e-01 -7.035360e-01
##  [21972,]  8.447212e-01 -4.417052e-01  1.800962e-01  1.594201e+00
##  [21973,] -6.069714e-01  6.396737e-01 -1.129178e-01 -5.727290e-01
##  [21974,] -6.577907e-01 -9.317365e-01 -7.189750e-01  1.220192e+00
##  [21975,]  6.919943e-01 -5.424950e-01 -4.250574e-01  1.408539e+00
##  [21976,]  6.984001e-01  7.093405e-02 -3.801733e-01 -3.727231e-01
##  [21977,] -1.095019e-02 -1.742392e+00 -1.433307e+00  9.442869e-01
##  [21978,] -3.379442e-01 -3.141204e-01 -5.352275e-01  6.565051e-02
##  [21979,] -1.472468e+00  4.700428e-01 -1.567616e-01 -6.132692e-01
##  [21980,] -4.465598e-02 -3.199820e-01  4.578275e-01  1.159884e+00
##  [21981,] -7.363779e-01 -2.319902e-01  1.494304e+00 -1.162498e+00
##  [21982,] -1.749638e+00 -5.942050e-01  1.511447e+00  8.286792e-01
##  [21983,]  4.593674e-02  7.332449e-01  9.933430e-01 -3.810030e-01
##  [21984,] -2.831225e+00  9.303830e-01  1.152365e+00  1.165811e+00
##  [21985,] -5.792506e-01 -3.219753e-01  1.059358e+00 -4.852606e-01
##  [21986,]  1.211701e+00 -3.724148e-01  1.120263e+00 -5.554044e-01
##  [21987,] -8.911542e-01  4.369245e-02 -1.634366e+00 -6.128769e-01
##  [21988,]  2.638679e-01 -1.328690e-01  2.166041e-01 -2.259845e-01
##  [21989,] -1.088349e+00  6.592731e-01  8.030786e-01 -5.419533e-02
##  [21990,] -7.201183e-01  2.135590e+00  1.308964e+00  1.049714e+00
##  [21991,]  7.243156e-01  1.760200e+00  8.613586e-01 -1.509713e-01
##  [21992,] -1.779328e+00 -5.594345e-01  1.905745e-01 -1.145218e+00
##  [21993,] -1.290889e-01  1.298534e+00 -1.684688e+00 -6.775177e-01
##  [21994,]  6.397845e-01 -8.636913e-01 -1.301817e-01 -5.539648e-01
##  [21995,] -5.521129e-01  1.599691e-01 -5.381244e-01  2.070478e+00
##  [21996,]  1.596757e-01 -3.907158e-01 -1.727499e+00 -2.164848e-01
##  [21997,] -2.651160e+00 -3.372759e-01 -5.472342e-01  1.406212e+00
##  [21998,] -8.181805e-01  3.706687e+00 -1.481790e-01 -7.671469e-01
##  [21999,] -7.637393e-02  6.404122e-01  1.516842e-01 -8.691867e-01
##  [22000,] -2.837683e+00  1.234408e+00  6.734890e-02 -5.231021e-01
##  [22001,]  3.006300e-01  2.783918e-01  1.396111e-01 -9.684804e-02
##  [22002,]  6.910944e-01  1.512795e+00 -7.932060e-01 -2.590697e-01
##  [22003,] -2.406796e+00  1.633634e+00 -1.439683e+00  8.926405e-01
##  [22004,] -2.067300e-01 -9.453704e-02 -7.450338e-01 -1.148485e+00
##  [22005,] -7.679294e-01  6.466059e-01  1.015277e+00 -6.845360e-01
##  [22006,] -1.991277e-01  2.801318e+00  1.180104e+00 -1.001059e+00
##  [22007,] -6.553276e-01  5.430604e-02  1.246893e+00 -7.165949e-01
##  [22008,] -5.172605e-03 -1.592623e+00  1.462136e+00  1.039902e+00
##  [22009,]  9.520491e-02 -5.802454e-02  9.591324e-01 -2.398950e-01
##  [22010,]  1.923692e-01 -2.666175e-01 -5.245529e-01 -3.273435e-01
##  [22011,]  2.283710e-01 -1.106836e+00  1.133386e+00 -4.189760e-01
##  [22012,]  5.046732e-01 -2.143066e-01  1.249985e+00 -8.625416e-01
##  [22013,] -5.045081e-01 -1.085022e+00 -8.045244e-01 -2.127076e-04
##  [22014,]  8.872395e-01  3.121421e-01 -8.605039e-01  1.530866e-01
##  [22015,]  6.344551e-01  1.072057e+00  9.485711e-01 -8.332771e-01
##  [22016,] -5.104764e-01 -7.447290e-01 -2.880032e-01 -1.996797e-01
##  [22017,] -1.915913e+00 -4.191843e-01 -1.730154e+00  1.369077e+00
##  [22018,]  7.354992e-01  4.915775e-01  1.684884e-01  1.204783e+00
##  [22019,] -7.673056e-01  7.304124e-01 -1.425717e+00 -1.061795e+00
##  [22020,]  8.755829e-01  7.386830e-01  1.524218e-01  1.996252e+00
##  [22021,]  1.238350e+00  2.888247e-01  7.451753e-02 -6.705729e-01
##  [22022,] -7.565074e-01 -7.575361e-01 -6.654710e-01 -1.213217e+00
##  [22023,] -4.899821e-01 -4.162214e-01  1.010003e+00 -2.990768e-01
##  [22024,]  5.096358e-01 -1.251463e+00  8.784945e-01 -9.098073e-01
##  [22025,] -2.526680e+00 -1.415860e-01 -9.535261e-01 -1.136712e-01
##  [22026,] -2.111914e+00 -4.754263e-01 -2.959141e-01 -5.540088e-01
##  [22027,]  7.769170e-01 -2.264844e-01 -5.493707e-01 -3.910468e-01
##  [22028,] -5.032355e-01 -9.018648e-01 -4.523751e-01  1.580715e+00
##  [22029,]  1.699827e-01 -1.869739e-03  8.077502e-01  2.015517e+00
##  [22030,] -1.175900e+00  2.077003e-01 -2.133845e-01  1.467793e+00
##  [22031,] -2.631676e+00  4.000802e-01  7.593510e-01 -4.738730e-01
##  [22032,]  1.374452e+00  2.978758e-01 -3.770291e-01 -4.854829e-01
##  [22033,] -2.566539e+00 -3.446938e-01  6.674655e-01  2.183021e-02
##  [22034,] -4.995212e-01  1.067935e+00 -2.120328e-01 -4.743811e-01
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##  [22035,]  3.842005e-01  3.014026e-01 -6.823032e-01  2.157623e+00
##  [22036,]  3.793673e-03 -4.647562e-01 -3.088684e-01 -7.884754e-01
##  [22037,] -1.441777e+00 -7.918644e-01 -1.369675e+00  1.722407e+00
##  [22038,] -1.376056e+00  3.299170e-01  7.633854e-01 -8.320183e-01
##  [22039,] -6.682890e-01 -1.303218e+00 -1.415278e+00 -7.063797e-01
##  [22040,] -5.075017e-02 -1.386782e+00 -1.161624e+00 -9.234320e-01
##  [22041,] -4.203046e-02 -1.045624e+00  9.877411e-01 -8.154229e-01
##  [22042,] -7.508923e-01  1.214618e+00 -9.858639e-01 -8.575565e-01
##  [22043,] -4.706007e-01  2.751348e-01 -2.896809e-01 -3.714147e-01
##  [22044,]  3.226619e-01 -6.877444e-01 -1.660571e-01  1.828824e+00
##  [22045,] -7.299298e-01 -1.847336e+00 -1.633721e-02 -6.410188e-01
##  [22046,] -7.510373e-01 -7.439437e-02  9.906217e-01 -6.696485e-01
##  [22047,] -7.554111e-01  1.217893e+00  1.035839e+00 -5.585308e-01
##  [22048,] -1.578398e+00  4.747657e-01  1.165985e+00  1.321142e+00
##  [22049,]  7.586524e-01 -1.649744e-01 -3.423627e-01 -1.950100e-01
##  [22050,]  2.518142e-01 -1.032316e-01 -2.077385e+00 -1.377679e-01
##  [22051,] -4.558551e-01  5.117935e-01 -1.583265e+00 -1.424176e-01
##  [22052,]  7.121069e-01 -3.352538e-01  1.192300e+00 -7.111512e-01
##  [22053,] -2.111308e+00 -3.918840e-01 -1.043849e+00 -9.068234e-01
##  [22054,]  3.212195e-01  6.734122e-02 -2.016447e-01 -8.637846e-02
##  [22055,]  8.635621e-01  5.458089e-01 -4.476206e-01  2.361548e-02
##  [22056,] -3.355918e-01 -1.251967e-02 -7.286463e-01  2.071950e+00
##  [22057,]  1.501808e-01 -2.285707e-01 -2.944527e-01 -4.210890e-01
##  [22058,]  1.718880e-01  4.590210e+00  6.073688e-01  2.090947e+00
##  [22059,] -7.393637e-01  5.400816e-01  4.138358e-01  1.677740e+00
##  [22060,]  1.094882e+00  1.435468e-01  7.137090e-01  1.552555e-01
##  [22061,] -2.736183e+00  8.455775e-02  1.178081e+00  1.282604e+00
##  [22062,]  3.119707e-01  2.344243e-01  7.943624e-01  8.679864e-02
##  [22063,] -1.215657e+00  6.323191e-01  9.985105e-01  1.479060e+00
##  [22064,] -4.616495e-01  2.240424e-01 -2.078032e+00 -2.028209e-01
##  [22065,]  3.296769e-02 -9.129178e-01  9.645132e-01 -4.934001e-01
##  [22066,] -1.434181e+00 -2.507287e-01  8.179955e-01 -5.826132e-01
##  [22067,] -7.091732e-01  1.621057e+00 -2.660131e-01 -4.523473e-01
##  [22068,] -1.232238e-01 -1.190214e+00 -1.475266e+00 -9.868392e-01
##  [22069,]  8.110047e-01 -7.288129e-01  5.221187e-01 -6.683116e-01
##  [22070,]  1.534123e-01  3.118521e-01 -1.390115e+00  1.513585e+00
##  [22071,]  2.904791e-01 -5.141866e-01 -2.010943e+00 -1.147174e-01
##  [22072,]  1.218983e+00  8.064490e-01  1.015632e+00 -5.263550e-01
##  [22073,] -3.966756e-01  8.821885e-01 -4.231972e-01 -4.038157e-01
##  [22074,] -2.861859e+00  7.670638e-01 -9.997901e-01 -5.259893e-01
##  [22075,] -4.845302e-01 -1.345942e+00 -2.167448e-01 -4.092504e-01
##  [22076,]  1.220307e+00  2.546694e+00  2.478768e-01  1.318182e+00
##  [22077,] -1.878412e+00  8.935376e-02 -2.886419e-01 -2.618990e-01
##  [22078,] -7.441229e-02 -1.722650e+00 -2.657426e-02 -6.355798e-01
##  [22079,]  7.811338e-01  4.860761e-01 -2.037806e-01 -1.612348e-01
##  [22080,]  9.205021e-01  5.648314e-01 -6.759784e-01 -1.856386e-01
##  [22081,]  4.750181e-01  6.848687e-01 -1.923231e+00  2.100875e+00
##  [22082,]  2.486662e-01  2.045331e-01 -4.673043e-01 -8.129306e-02
##  [22083,]  2.448255e-01  1.271343e+00 -1.526802e+00  3.995414e-01
##  [22084,] -2.068930e+00  1.882508e+00 -6.283657e-01 -5.223254e-01
##  [22085,]  5.928560e-01 -9.225636e-01  1.172467e-02 -6.871348e-01
##  [22086,] -3.753144e-02 -1.341140e-01  9.075688e-01 -8.018976e-01
##  [22087,] -1.472135e+00  6.073308e-02 -4.410014e-02  1.172544e+00
##  [22088,] -1.429298e+00 -4.870592e-01  1.340385e+00  1.215455e+00
##  [22089,]  8.600056e-01 -2.118683e-01  2.873688e-01 -3.626798e-01
##  [22090,]  5.027550e-01 -7.621856e-01  9.043068e-03 -9.545885e-01
##  [22091,] -1.961616e-01  4.883976e-01  1.286173e+00 -9.779090e-01
##  [22092,]  9.108035e-01  3.426146e-01 -1.517970e+00 -2.748618e-01
##  [22093,] -1.482429e+00  9.528130e-01 -3.360629e-01 -5.098370e-01
##  [22094,] -7.890559e-01  2.663259e-01 -1.510672e+00 -8.221872e-01
##  [22095,] -4.616125e-01  1.109063e+00  8.905201e-01 -1.339859e-01
##  [22096,]  2.612893e-02 -1.288923e+00  1.371195e+00  1.244844e+00
##  [22097,]  7.277107e-02 -2.565220e-01  1.028444e+00  1.728372e+00
##  [22098,]  1.385990e-01 -3.928972e-01 -1.592842e+00  1.812960e+00
##  [22099,]  6.196577e-01 -3.521936e-01  4.936725e-01  1.047773e+00
##  [22100,]  7.396156e-01  2.030385e-01 -4.638179e-01 -1.632540e-01
##  [22101,] -6.720229e-01 -1.416095e+00 -1.601785e+00 -7.237250e-01
##  [22102,]  1.581648e-01 -1.430798e+00  1.319855e+00  1.208303e+00
##  [22103,]  1.269024e+00  4.177427e-02 -1.735295e+00  1.247000e+00
##  [22104,]  6.128353e-01  1.392037e+00 -3.324883e-01 -7.845181e-01
##  [22105,]  1.192030e+00 -9.629222e-02 -1.776331e+00 -6.471146e-01
##  [22106,] -1.394002e+00 -8.864244e-01  9.877099e-01 -1.631954e-01
##  [22107,] -1.125322e+00  7.221722e-01 -3.314593e-01 -1.950894e-01
##  [22108,] -1.964303e+00 -6.040509e-01 -1.680269e+00 -6.113393e-01
##  [22109,] -1.288617e+00  3.849031e-01  1.202481e+00 -6.082562e-01
##  [22110,]  8.510447e-01 -3.680181e-02  9.703514e-01  1.448841e+00
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##  [22112,]  3.708065e-01  2.129068e+00 -3.021523e-01 -1.016982e+00
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##  [22114,] -1.479079e+00  7.848098e-03  3.673566e-01 -3.603200e-01
##  [22115,] -1.914872e+00 -1.016696e-01 -6.202687e-01  2.207001e-01
##  [22116,]  6.594618e-01 -9.091649e-01 -1.262375e+00 -1.106496e+00
##  [22117,]  1.042072e+00  7.180957e-01  1.271493e+00 -9.706560e-01
##  [22118,] -5.054416e-01 -4.729095e-01 -4.934816e-01 -4.113527e-01
##  [22119,] -8.490284e-01  1.267534e+00 -9.718741e-01 -1.297896e+00
##  [22120,]  1.047697e-01 -6.904064e-01  1.203048e+00 -6.565186e-01
##  [22121,] -5.084850e-01 -1.109808e+00 -5.876400e-02 -4.814653e-01
##  [22122,]  1.262765e+00  7.629587e-01 -2.093867e-01 -3.769418e-01
##  [22123,]  5.959362e-01  1.207805e-01 -1.027307e+00 -7.693837e-01
##  [22124,]  2.830529e-01  9.036771e-01  9.872246e-01 -3.007246e-01
##  [22125,]  7.471531e-01  1.429974e-01 -1.603434e-01  1.183347e+00
##  [22126,] -1.543584e+00  1.587767e+00 -1.903311e+00 -6.648329e-01
##  [22127,] -2.398825e-01 -3.885261e-01 -4.812832e-01  2.101870e+00
##  [22128,]  7.589993e-01  9.122166e-01 -1.475322e-02 -8.354306e-02
##  [22129,] -6.523280e-02 -5.155864e-01  1.292826e+00 -8.847078e-01
##  [22130,]  1.156992e+00  3.047841e-02 -1.181698e+00 -8.210939e-01
##  [22131,] -6.174738e-01  4.702791e-01 -3.129855e-01 -7.593844e-01
##  [22132,]  7.432725e-01 -3.180025e-01 -1.958101e+00 -2.747628e-01
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## [22133,]  3.388454e-02 -1.487692e+00  2.449663e-01  9.912111e-01
## [22134,] -1.816108e+00 -1.192439e-02 -1.930943e+00  1.665403e+00
## [22135,] -1.444887e+00  7.123430e-01 -6.538341e-01 -2.200107e-01
## [22136,] -8.564372e-01  2.655266e+00  6.976714e-02 -9.817953e-01
## [22137,]  9.351582e-01 -7.398303e-01  6.078761e-01  1.466693e+00
## [22138,]  4.340036e-02  3.644757e-02 -1.012996e+00 -3.960862e-01
## [22139,]  1.626003e+00  2.221407e-01 -1.280619e+00 -2.598681e-01
## [22140,]  4.063532e-02 -7.281718e-01 -1.271495e+00 -5.006907e-01
## [22141,] -4.570496e-01  9.039496e-01 -6.386384e-01 -3.875157e-01
## [22142,] -2.204984e+00  1.037769e+00  9.865841e-01 -4.369280e-01
## [22143,] -8.365825e-01 -5.823046e-01  1.104794e+00 -4.898242e-01
## [22144,]  8.288735e-02 -9.577493e-01 -1.355156e+00 -5.614768e-01
## [22145,]  7.045875e-01  2.065532e-01 -1.002228e-01 -7.040076e-01
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## [22147,] -1.530143e+00 -3.364275e-01 -1.488896e+00 -9.230069e-01
## [22148,]  1.008880e+00 -4.520245e-03 -3.989370e-01 -1.564315e-02
## [22149,]  9.561916e-01 -4.672671e-01 -2.488260e-01 -2.949425e-01
## [22150,] -6.578129e-01  2.515534e+00  8.340966e-01  1.017240e+00
## [22151,] -3.443341e-01 -2.979104e-01 -5.602247e-01  2.096214e+00
## [22152,] -6.083924e-01  1.330177e+00 -5.874156e-01 -5.830345e-01
## [22153,]  2.693517e-01 -8.208919e-01  9.684646e-01  1.809193e+00
## [22154,]  2.447670e-01 -1.248256e+00  1.138911e+00 -3.988833e-01
## [22155,]  2.948414e-01 -5.959694e-01  8.336598e-01 -2.084155e-02
## [22156,]  3.487869e-01 -3.926390e-01 -1.612541e+00  1.732651e+00
## [22157,]  3.149110e-01 -6.732400e-01  8.523967e-01  6.497947e-03
## [22158,] -2.648533e+00 -5.802505e-01  1.182759e+00 -4.489581e-01
## [22159,]  8.651119e-01  1.022949e-01 -1.988163e-01 -4.504910e-01
## [22160,]  8.471503e-01 -5.591764e-01  2.239233e-01 -4.580934e-01
## [22161,] -2.102614e-01 -7.308074e-01  4.661009e-01 -8.562317e-01
## [22162,] -3.216727e+00  3.250757e-01 -1.771849e+00 -5.629131e-01
## [22163,] -2.629810e-02 -4.027965e-01 -5.041359e-01 -3.990610e-01
## [22164,]  1.938517e-01 -1.543241e-01 -2.527332e-02  1.564574e+00
## [22165,]  2.679683e-01 -8.354968e-01 -2.283219e-01  1.526656e+00
## [22166,]  2.188747e-01  7.682907e-02 -3.341853e-01 -1.826373e-01
## [22167,] -5.570083e-01 -1.324726e+00  1.172272e+00 -3.747783e-01
## [22168,] -3.616991e-03 -4.702774e-01 -1.758634e+00 -5.999422e-01
## [22169,] -8.005028e-02 -3.418836e-01 -1.693302e+00 -7.639880e-01
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## [22171,]  3.612784e-02 -1.156940e+00 -4.977308e-01 -9.144060e-01
## [22172,] -1.313619e+00  3.159860e-01 -1.807969e+00 -2.705298e-01
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## [22174,]  1.516879e+00  2.480664e+00 -6.048373e-01 -3.331518e-01
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## [22203,]  7.927245e-02 -5.237489e-02  1.203985e+00 -6.608184e-01
## [22204,] -8.064091e-01 -1.140585e+00 -1.216401e+00 -7.900715e-01
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## [22214,]  2.585208e-01  2.859759e-01  6.555830e-01  2.128794e-01
## [22215,] -1.980540e-01 -7.952284e-01  1.299623e+00 -7.930685e-01
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## [22225,]  3.468303e-01  1.938029e-01  1.920584e-01  1.620090e-01
## [22226,]  1.355463e-01 -6.079916e-01  1.061843e+00 -4.152388e-01
## [22227,] -6.309218e-01 -1.760016e+00 -9.573271e-02  1.442309e+00
## [22228,] -7.499638e-01 -4.642493e-01  1.205013e+00 -7.037284e-01
## [22229,] -4.293926e-02 -1.875095e+00  2.442400e-01  7.989838e-01
## [22230,] -1.059910e+00 -5.627016e-01 -9.717982e-01 -7.512622e-01
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## [22231,]  3.063896e-01  2.577952e-01 -6.424333e-01  9.756752e-02
## [22232,] -1.004860e+00  9.821808e-01 -1.109375e-01 -9.980484e-01
## [22233,] -8.085164e-01 -1.012058e+00 -3.096306e-02 -7.300745e-01
## [22234,] -1.748961e+00  1.215692e+00  2.023501e-01  2.025452e+00
## [22235,] -2.013144e-01 -1.147041e+00 -1.298823e+00  9.190218e-01
## [22236,]  1.475235e+00  7.955260e-01  9.392511e-01  1.786747e+00
## [22237,]  1.468693e+00 -1.446327e-01 -1.743248e+00 -3.367114e-01
## [22238,] -6.420766e-01 -7.285360e-01 -3.244935e-01 -7.580446e-01
## [22239,]  1.152602e-01  4.556606e-01 -1.875979e+00 -5.619015e-01
## [22240,] -8.965541e-01 -7.686947e-01 -1.678452e+00 -3.985304e-01
## [22241,]  5.469155e-01 -2.474648e-02  1.260539e+00 -8.588189e-01
## [22242,] -1.679716e+00  1.724290e+00 -2.831066e-01  8.470481e-01
## [22243,] -1.777593e-01  1.313130e+00  1.163748e+00 -8.390372e-01
## [22244,] -5.814833e-01 -5.249198e-02 -1.946205e-01 -5.572645e-01
## [22245,]  2.905636e-01 -3.047648e-01 -1.797501e+00  4.964349e-02
## [22246,]  1.729684e-01  8.434874e-01 -1.294343e+00  1.601910e-02
## [22247,] -3.685235e-02 -2.552387e-01  1.282766e+00 -8.064609e-01
## [22248,]  2.325887e-01 -1.326774e+00  1.049936e+00 -2.721172e-01
## [22249,]  3.523704e-02 -1.618764e+00 -1.111040e+00 -6.320662e-01
## [22250,] -6.676842e-01 -3.840132e-01 -1.848310e+00  2.065550e-01
## [22251,]  1.009742e-01 -1.391658e+00 -1.564083e+00  1.146379e+00
## [22252,]  2.724576e-01  6.318805e-02 -6.888553e-01 -2.134629e-01
## [22253,]  1.183778e-02 -2.302735e-01 -5.787254e-01 -2.853559e-01
## [22254,] -5.042304e-02  3.226508e-01  7.894376e-01 -5.738693e-01
## [22255,]  5.074390e-02  1.045587e+00  9.826264e-01 -5.598550e-01
## [22256,]  1.338382e-01 -1.102452e+00  1.172745e+00  1.450460e+00
## [22257,] -8.295485e-01 -8.711642e-02  1.361439e+00 -1.066801e+00
## [22258,]  1.460808e-01 -2.778534e-01 -1.900432e+00 -3.311026e-01
## [22259,]  5.002673e-01 -5.938551e-02  1.269866e+00 -8.669606e-01
## [22260,] -5.594954e-01 -9.584011e-01 -5.562947e-01  1.681217e+00
## [22261,] -1.168884e+00  3.653060e-01  9.906309e-01  1.554546e+00
## [22262,] -2.072657e-01  5.268440e-01  1.155155e+00 -1.107706e+00
## [22263,]  3.868640e-01  3.260954e+00  7.059767e-02 -8.576874e-01
## [22264,]  9.138007e-02 -1.084540e+00  9.457840e-01 -1.202974e-01
## [22265,]  1.431590e-02 -1.115785e+00 -1.306006e+00 -6.356674e-01
## [22266,] -2.438410e+00  1.211761e-01 -4.766340e-01 -2.960206e-02
## [22267,] -3.481074e-01 -6.610682e-01 -4.957280e-01  6.669739e-03
## [22268,]  3.952560e-01 -3.073803e-01  6.561798e-01  3.493763e-01
## [22269,]  5.523135e-02 -7.113216e-01 -1.761575e+00 -5.899937e-01
## [22270,]  8.311093e-02  5.126149e-01 -4.636706e-01  2.799379e-03
## [22271,]  8.141269e-01 -5.452460e-01  4.833944e-01 -6.352964e-01
## [22272,] -2.095808e+00  4.432056e-02  9.798365e-01  1.705797e+00
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## [22274,] -5.978394e-01 -3.449766e-01  4.961514e-01  1.930538e+00
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## [22278,] -1.381686e+00  1.940370e-01 -5.304157e-01 -4.447810e-01
## [22279,]  4.240430e-02 -9.660877e-01 -1.852106e+00  1.538588e+00
## [22280,] -5.865116e-01 -2.029191e-01 -6.117517e-01  1.479973e-01
## [22281,] -2.804883e-01  2.265428e+00 -1.769302e+00 -6.790264e-01
## [22282,]  2.747891e-01  1.087335e-02  7.162447e-01 -1.676294e-01
## [22283,] -5.429293e-01  4.445977e-01 -3.553080e-01 -3.890489e-01
## [22284,]  2.834280e-01 -2.734074e-01  7.702307e-01  9.174586e-02
## [22285,]  7.486023e-01 -2.299748e-01 -1.157079e+00 -6.949085e-01
## [22286,]  1.131314e-01 -6.308229e-01 -1.825717e+00 -4.477134e-01
## [22287,]  3.777954e-02 -1.288316e+00  1.368866e+00 -8.898075e-01
## [22288,]  8.206929e-01  1.520273e-01 -1.121573e+00 -2.244906e-01
## [22289,] -6.904807e-01 -1.213261e+00  6.208529e-02 -9.027518e-01
## [22290,]  3.757005e-01 -6.524023e-01  6.488819e-01  1.986097e+00
## [22291,]  4.233718e-02 -5.245592e-02  1.155288e+00 -5.017625e-01
## [22292,] -9.729804e-02 -3.669357e-01 -3.185087e-01 -5.340882e-01
## [22293,]  1.346671e-01 -1.407702e+00 -6.590561e-02 -5.631560e-01
## [22294,] -7.370369e-01 -1.885902e-01  8.198880e-02  1.879839e+00
## [22295,]  1.511537e-01  7.290323e-02  7.919876e-01 -6.170025e-02
## [22296,]  1.820777e-02 -2.468009e-01 -1.291438e-01 -6.861332e-01
## [22297,]  4.065947e-02 -1.163463e+00  1.167160e+00 -5.002461e-01
## [22298,]  4.286583e-01 -8.721113e-01  8.117286e-01  1.050024e-01
## [22299,] -1.293790e+00 -3.122507e-01 -5.275344e-01 -1.282003e+00
## [22300,]  1.504888e-01  6.956518e-01 -7.668693e-01 -1.656884e-01
## [22301,]  1.194215e-01 -2.461123e-01 -1.944712e+00 -1.230791e-02
## [22302,] -5.563906e-01 -2.516539e-01  1.049169e+00 -4.315992e-01
## [22303,]  6.391616e-01 -2.237036e-01 -3.449455e-01 -7.336469e-01
## [22304,]  7.626429e-02 -7.810636e-01 -1.690540e+00  1.365206e+00
## [22305,] -1.205479e+00 -1.038183e+00  6.823350e-01  3.933813e-01
## [22306,]  7.606668e-01 -9.021461e-01  1.156703e+00  1.478507e+00
## [22307,]  6.214381e-01 -7.521805e-01  1.168099e+00 -5.535117e-01
## [22308,]  1.194483e+00 -8.651866e-01  1.427744e+00  1.014183e+00
## [22309,]  1.000596e-01 -7.203807e-01  1.008959e+00  1.755315e+00
## [22310,]  2.896833e-01 -2.321426e-01 -4.820484e-01 -2.702013e-02
## [22311,]  3.117345e-03 -5.394193e-01  8.185269e-01  1.313169e+00
## [22312,] -7.353463e-01  2.189996e-02  8.220006e-02 -9.385531e-01
## [22313,] -1.123172e+00  6.063486e-01  2.151907e-01 -1.892785e-01
## [22314,]  9.374393e-02 -9.932071e-01  1.264697e+00 -7.217625e-01
## [22315,] -4.594329e-01 -1.554969e+00  1.105014e+00 -3.547324e-01
## [22316,] -3.527166e-01  7.124207e-01  1.011536e-01  6.057261e-01
## [22317,] -3.942505e-01  3.358129e-01 -1.293353e+00 -1.209542e+00
## [22318,] -1.389554e+00  3.539423e-03 -1.772428e+00 -5.222760e-01
## [22319,]  8.701022e-01  2.981839e-01 -3.552225e-01 -1.032901e-01
## [22320,] -1.416296e+00 -8.079943e-01  9.556238e-01  1.753599e+00
## [22321,] -1.475481e-01 -6.086207e-01 -1.117643e+00 -1.073013e+00
## [22322,] -7.042184e-01  1.558891e+00  7.570359e-01  4.770212e-02
## [22323,]  7.152026e-01 -1.209510e+00  1.250794e+00  1.333774e+00
## [22324,]  1.256812e-01 -1.141701e+00 -1.599885e+00 -7.538657e-01
## [22325,] -4.017055e-01  8.553933e-01 -1.097548e+00 -1.120830e+00
## [22326,]  2.505214e-01  1.142099e-01 -6.629895e-01 -2.620111e-01
## [22327,]  5.619252e-01 -8.156395e-01 -6.618380e-01 -9.650658e-01
## [22328,]  6.149425e-01  5.539476e-01 -1.779641e+00 -6.162075e-01
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##  [22330,]  7.680657e-02  2.890037e-01  2.368007e-01 -6.378969e-01
##  [22331,]  9.488155e-02 -6.124987e-01 -6.356330e-01  1.724655e+00
##  [22332,] -6.062780e-01 -8.039715e-01 -1.289564e+00 -4.578399e-01
##  [22333,]  2.384817e-01 -2.323481e-01  9.141099e-02  1.673062e+00
##  [22334,] -5.980323e-02 -1.672797e+00 -5.262386e-01  1.224642e+00
##  [22335,]  2.794198e-01 -2.963785e-01 -1.781459e+00  1.720340e+00
##  [22336,]  7.277888e-01 -3.181756e-02 -1.099379e+00 -6.745568e-01
##  [22337,]  6.622082e-01  6.244494e-01 -7.584484e-01 -3.162058e-01
##  [22338,]  1.003565e+00 -3.579479e-02  8.138162e-01 -7.256680e-02
##  [22339,] -1.312990e+00  4.538319e-01 -1.727365e+00 -2.875597e-01
##  [22340,] -1.026848e-03 -1.355355e+00 -8.862729e-01  9.122334e-01
##  [22341,] -6.825855e-01  1.685650e+00 -6.308422e-01 -4.018423e-01
##  [22342,] -1.386021e-01 -1.478999e-01 -7.563815e-01 -8.576269e-01
##  [22343,]  1.603386e-01 -1.163802e+00  1.127060e+00 -4.295576e-01
##  [22344,]  4.700606e-02  2.096935e+00 -1.858319e+00 -4.342378e-01
##  [22345,] -7.437837e-02  1.267190e+00  9.070616e-02 -7.553714e-01
##  [22346,]  8.309120e-01 -4.564011e-01  5.393073e-01 -1.232144e-01
##  [22347,] -1.220841e-01  2.095367e+00  1.017606e+00 -5.321085e-01
##  [22348,] -6.249199e-01 -4.106069e-01 -3.997243e-01 -6.748766e-01
##  [22349,] -5.150402e-01 -2.912554e-01 -5.161364e-01  1.870160e+00
##  [22350,] -1.470429e+00  3.322552e-01 -3.120043e-01  1.503853e+00
##  [22351,]  6.946480e-01 -1.380875e+00  1.385277e+00  1.144311e+00
##  [22352,] -3.237245e-01 -1.061907e+00  5.689304e-01  1.621205e-03
##  [22353,]  1.038945e+00  8.774607e-01 -2.048329e+00  1.832453e+00
##  [22354,]  2.326858e-01 -6.720100e-01 -4.293958e-01 -3.819565e-01
##  [22355,]  2.140219e-01 -9.304353e-01 -4.315306e-01  1.542867e+00
##  [22356,] -6.462533e-01  1.476639e-01 -1.271078e+00 -4.992948e-01
##  [22357,] -7.914835e-01  1.543162e+00  1.238364e+00  9.805310e-01
##  [22358,]  5.910749e-01 -1.012250e+00 -1.661141e+00 -7.287132e-01
##  [22359,] -4.774550e-01  8.554938e-01  9.378694e-02  1.524604e+00
##  [22360,]  1.301516e+00 -6.409748e-01 -2.318112e-01 -5.150527e-01
##  [22361,]  7.138806e-01 -1.225717e-01  7.962704e-01 -2.628110e-01
##  [22362,] -9.523471e-01  4.814434e-01  9.466439e-02 -1.153168e+00
##  [22363,] -2.645443e-02 -3.129592e-01 -1.111460e+00 -3.947689e-01
##  [22364,]  2.301390e-01  2.109815e-01 -5.922719e-01  1.825332e+00
##  [22365,]  6.517490e-02 -4.961117e-01 -5.178634e-01 -4.177619e-01
##  [22366,] -3.852542e-02 -1.263199e-01  1.084472e-01 -3.490517e-01
##  [22367,]  1.849715e-01 -1.234686e+00  6.963037e-01 -2.801501e-01
##  [22368,] -4.983103e-01  3.848328e-01 -3.315938e-01 -3.138642e-01
##  [22369,]  1.269312e-01 -1.342803e+00  9.533251e-01 -7.070061e-01
##  [22370,]  1.801063e-01 -1.408147e+00 -1.049670e+00 -4.648897e-01
##  [22371,] -1.099560e-01 -4.884652e-01  1.732393e-01 -1.187133e+00
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##  [22375,] -7.877503e-01 -5.590089e-01  1.402375e+00 -1.033057e+00
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##  [22379,]  7.181047e-01 -2.422361e-03 -1.135546e+00 -4.999000e-01
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##  [22382,] -3.321539e-01  4.376854e-01  5.385218e-01  4.176037e-01
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##  [22391,]  1.713033e-01 -1.386796e-01 -1.541673e+00 -1.060933e-01
##  [22392,] -6.123774e-01 -2.750366e-01 -1.058986e-01 -1.839590e-01
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##  [22394,]  4.446913e-01  5.930710e-01 -6.603890e-01  2.211479e-01
##  [22395,] -5.081600e-01 -7.145724e-01 -8.574494e-01  3.798303e-02
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##  [22397,]  1.958588e-01  1.508047e+00 -8.889772e-01 -1.894343e-01
##  [22398,]  9.621744e-01  5.594721e-01 -2.073801e+00 -9.759941e-02
##  [22399,] -9.457119e-01  5.099441e-01  1.427346e+00 -1.121613e+00
##  [22400,] -6.929655e-01  2.768454e+00  1.117079e+00 -8.527302e-01
##  [22401,] -6.408498e-01 -3.389685e-01 -1.041935e-01 -6.834504e-01
##  [22402,]  8.266211e-01  1.022670e+00  4.898408e-01  1.779918e+00
##  [22403,]  3.849117e-01  2.216617e-01 -1.501899e+00  2.148009e-01
##  [22404,]  4.290958e-01  1.463494e-01 -8.222894e-01  3.400769e-01
##  [22405,]  8.529384e-01 -3.431163e-01 -1.821686e+00 -4.663598e-01
##  [22406,]  1.110085e+00  8.711441e-02  1.147013e+00 -7.315104e-01
##  [22407,]  5.903950e-01 -9.388434e-01  1.858161e-01 -1.125206e+00
##  [22408,]  3.823708e-01  2.519424e-01  4.503817e-01 -1.035736e+00
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##  [22413,]  2.015907e-01 -2.219484e-01  8.395088e-01 -8.989278e-02
##  [22414,]  6.649730e-02 -9.383139e-01 -1.268819e-01  1.247798e+00
##  [22415,] -7.792545e-01 -2.150114e-01 -3.542210e-01  1.039559e+00
##  [22416,]  6.651188e-01 -4.625286e-01 -1.351123e+00 -6.963434e-01
##  [22417,] -2.158436e+00 -3.838934e-01 -1.715579e+00 -5.894211e-01
##  [22418,]  1.506278e+00  6.878755e-01 -7.638589e-01  2.240910e-01
##  [22419,] -2.594252e+00 -7.050411e-01  1.067657e+00 -3.108089e-01
##  [22420,] -1.604360e+00  4.274198e-01 -1.202393e-01  1.233895e+00
##  [22421,]  1.088034e+00  3.265762e-01  6.333900e-01  2.059744e+00
##  [22422,]  9.650846e-01 -1.874449e-01  8.597371e-01 -8.593314e-02
##  [22423,] -2.297178e+00  9.288150e-01  1.101613e+00 -5.771499e-01
##  [22424,]  8.663168e-01 -6.423619e-01 -5.113989e-01 -4.374228e-01
##  [22425,]  8.113678e-01  7.619888e-01 -5.159706e-01 -5.317106e-01
##  [22426,]  1.233100e+00  1.358675e+00 -1.503756e+00 -7.082996e-01
```

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## [22427,]  3.645618e-01  3.660185e-01 -1.975519e+00  2.439651e-02
## [22428,]  7.314784e-01 -1.101783e+00 -1.122840e-02 -7.902435e-01
## [22429,]  1.122557e+00  6.972686e-01  1.022956e-01 -6.997314e-01
## [22430,] -3.174986e+00 -4.180707e-01 -1.512337e+00 -3.659217e-01
## [22431,] -1.263895e+00  1.513529e+00 -1.680450e+00 -2.423301e-01
## [22432,]  7.124454e-01 -3.751679e-01 -2.367155e-01 -9.066735e-01
## [22433,]  7.575334e-01 -5.767092e-01  6.522840e-03  1.057690e+00
## [22434,] -1.403521e+00 -3.367494e-01 -1.617633e+00 -8.075853e-01
## [22435,]  9.187538e-01 -6.309544e-01  1.103990e+00  1.559428e+00
## [22436,]  4.838300e-01 -1.075274e-01  6.932039e-01  3.105254e-01
## [22437,]  2.250923e-01  2.895160e-01 -6.199427e-01  1.911180e+00
## [22438,] -2.708986e-01  1.289657e+00 -3.188148e-01 -7.556913e-01
## [22439,]  6.617078e-01 -8.581661e-01 -1.120730e+00 -7.452780e-01
## [22440,] -2.166278e+00  1.111882e+00 -1.411916e-02 -4.541087e-01
## [22441,]  1.303832e-01  2.649734e-01 -4.807166e-01 -2.695659e-01
## [22442,] -2.224726e+00  7.256086e-01  1.605797e-01 -5.448340e-01
## [22443,]  6.829086e-01  3.280302e-01  9.652631e-01 -3.726331e-01
## [22444,] -1.333187e-01 -1.020490e+00  1.344781e+00  1.156501e+00
## [22445,]  3.679340e-01 -1.015622e-01  8.409554e-01  1.562857e-01
## [22446,]  5.210487e-01  1.797749e-01 -1.636625e+00  1.065496e+00
## [22447,] -2.187502e+00 -6.247580e-01  2.802425e-01 -4.681901e-01
## [22448,] -4.347007e-01 -3.772563e-01  2.865071e-01  2.076691e+00
## [22449,] -1.534294e+00  4.868171e-01 -2.342797e-01 -4.250062e-01
## [22450,] -2.006509e+00  1.212041e+00 -4.444517e-01 -3.913105e-01
## [22451,]  3.572817e-01  1.569476e+00  3.130550e-01  7.308731e-01
## [22452,]  2.201324e-01 -1.426847e+00  1.178621e+00 -4.742275e-01
## [22453,] -1.341266e+00 -7.190966e-01 -7.004789e-01 -7.347728e-02
## [22454,]  1.260210e-01 -8.501507e-01  1.226349e+00 -5.091880e-01
## [22455,]  1.669349e-01 -2.976931e-01  6.961305e-01 -4.624152e-01
## [22456,]  3.141554e-01 -3.490073e-01 -7.022305e-01 -1.565566e-01
## [22457,] -6.724797e-01  8.029321e-01 -1.701461e-01 -9.158906e-01
## [22458,]  1.533740e-01  3.758231e-01 -3.494363e-01 -8.198811e-01
## [22459,] -7.986465e-01 -1.087001e-01  1.130058e-01 -1.096612e+00
## [22460,]  4.631557e-01 -5.340303e-02  1.854069e-02 -9.845215e-01
## [22461,]  7.679505e-01  1.680196e-01 -6.209307e-01 -3.550382e-01
## [22462,] -1.138650e-01 -1.360437e+00  6.136753e-01 -6.966322e-01
## [22463,] -1.148363e-01 -5.262112e-01  1.233096e+00 -5.864631e-01
## [22464,]  6.615288e-01  1.446909e-01  8.660645e-01 -7.959760e-01
## [22465,]  1.043142e+00 -1.253780e+00 -1.109339e+00  6.636810e-01
## [22466,] -1.971320e+00  8.620913e-01 -1.771924e+00 -4.196358e-01
## [22467,] -5.374290e-01  1.491113e+00  9.930467e-01 -4.703931e-01
## [22468,]  1.149569e+00  2.180637e-01 -6.412503e-02 -6.901349e-01
## [22469,] -8.843189e-01  6.809056e-01 -2.185457e-01 -1.169903e+00
## [22470,]  7.980450e-01  2.428901e-01 -4.244697e-01 -4.594526e-02
## [22471,]  8.507771e-01 -3.167477e-01  1.117403e+00  1.443685e+00
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## [22473,] -1.671125e+00 -7.091735e-01  1.337486e+00  1.125321e+00
## [22474,] -3.280835e-01 -1.066007e-01 -1.966392e+00  1.918486e+00
## [22475,]  8.022570e-01 -8.946811e-01  1.023975e+00 -3.363164e-01
## [22476,]  7.013092e-01  8.822675e-01 -4.077314e-01  1.501738e+00
## [22477,] -3.032525e+00  2.403139e-01  1.448594e+00 -1.149068e+00
## [22478,] -1.946401e+00 -2.074285e+00 -1.022407e-01 -4.447429e-01
## [22479,]  2.198739e-01 -8.189898e-01 -1.679947e+00 -7.849281e-02
## [22480,]  5.269624e-02 -8.190459e-01 -1.371607e-01 -8.493176e-01
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## [22484,] -1.059426e-01  1.705696e+00  1.135991e+00 -7.489688e-01
## [22485,] -8.038710e-01 -8.141235e-01 -2.239206e-01 -9.390501e-01
## [22486,] -6.172953e-01 -1.569202e+00  1.113311e+00 -3.115746e-01
## [22487,]  1.474188e-01 -1.111086e+00 -3.978580e-01  1.829787e+00
## [22488,]  8.854046e-01 -6.868921e-02  7.673674e-01  1.560317e-01
## [22489,]  7.546518e-01  5.525108e-01 -1.608105e+00  1.497778e+00
## [22490,]  1.313757e+00  1.543477e+00 -6.827909e-01 -3.673988e-01
## [22491,]  7.052370e-01  1.931370e-01 -1.549751e+00 -5.002645e-01
## [22492,]  2.263798e-02 -4.566508e-01  6.624312e-01  9.737681e-01
## [22493,]  7.168784e-01 -8.346919e-01  1.149860e+00  1.399601e+00
## [22494,]  1.402176e+00  3.758378e-01 -2.343951e-01 -5.461784e-02
## [22495,] -1.352240e+00 -7.480100e-02 -1.004099e+00 -3.878528e-01
## [22496,] -2.031189e+00  1.998196e+00 -1.640329e-01 -4.008358e-01
## [22497,]  6.629771e-01  4.627908e-01  1.165145e+00 -7.405311e-01
## [22498,]  4.105508e-01  3.491747e-01  1.339998e+00  9.052081e-01
## [22499,]  2.523308e-01 -7.891931e-01  1.054887e+00  1.533000e+00
## [22500,]  1.329220e+00  1.726805e-02 -5.400554e-01 -4.975413e-01
## [22501,]  1.007420e+00  7.003526e-01  1.231807e+00 -9.188919e-01
## [22502,]  1.617085e-01 -6.850249e-02 -1.410036e-02  1.594094e-01
## [22503,] -2.737790e+00  1.197709e+00  2.950285e-01 -6.637894e-01
## [22504,]  6.201440e-01 -7.770271e-01 -1.128187e-01 -5.924323e-01
## [22505,] -8.093470e-01 -1.215926e-01 -1.895445e+00 -1.039475e-01
## [22506,] -3.450344e+00  2.627766e-02  1.271453e+00 -7.562465e-01
## [22507,] -7.750406e-01 -1.236089e+00 -1.171369e+00 -9.299413e-01
## [22508,]  2.750066e-01 -4.237767e-02 -3.470616e-01 -7.627191e-02
## [22509,]  9.556069e-01  1.674060e+00  1.254753e+00  8.959039e-01
## [22510,]  1.332126e+00 -5.919390e-01 -2.453692e-01 -4.464973e-01
## [22511,] -2.922074e+00  6.268971e-01 -1.291287e-01 -7.447479e-01
## [22512,]  1.000105e+00  9.980600e-02  3.869530e-01  2.140495e-01
## [22513,] -1.372672e+00  9.916020e-01  1.023898e+00  1.544952e+00
## [22514,]  4.328583e-01 -1.408227e-01 -7.469024e-01 -9.615063e-01
## [22515,]  1.562729e-01 -4.041539e-02 -2.036393e+00 -1.567316e-01
## [22516,] -5.601270e-01  1.939752e-01  1.110368e+00 -4.712381e-01
## [22517,] -1.362326e+00 -1.847246e+00 -2.551238e-01  1.215288e+00
## [22518,] -4.788045e-01  1.890313e-01 -3.204983e-01  8.878487e-03
## [22519,]  7.336428e-01 -9.908387e-02 -6.001208e-01 -3.597530e-01
## [22520,]  1.169215e+00 -1.332694e-01  5.088887e-02 -1.016689e+00
## [22521,] -5.039627e-03  1.091183e+00  5.446189e-01 -6.322774e-01
## [22522,] -4.933792e-01  1.073411e+00 -5.369269e-01  1.814799e+00
## [22523,] -7.098392e-01 -1.240961e+00  1.190569e+00 -4.970358e-01
## [22524,]  2.734037e-01  1.784233e-02 -2.181003e+00  1.287285e-01
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##  [22525,] -6.425502e-01  3.340834e-01 -1.535374e-01 -6.638632e-01
##  [22526,] -1.530683e+00  2.432214e+00 -5.915001e-01 -5.545260e-01
##  [22527,]  9.311339e-02 -5.449867e-01 -1.592280e-01 -3.576309e-01
##  [22528,]  1.265909e+00 -7.859236e-01  3.250207e-01  9.649665e-01
##  [22529,]  2.188206e-01 -6.751324e-01 -4.453415e-01  1.396421e+00
##  [22530,] -5.227553e-01  9.155890e-02  8.324484e-01 -8.565920e-02
##  [22531,]  1.438173e+00 -1.066502e-01 -4.592866e-01 -1.276291e-01
##  [22532,]  5.366877e-01  9.783021e-01  4.019890e-01 -6.846770e-01
##  [22533,] -1.620230e+00  6.216555e-01  5.799690e-01 -6.010227e-01
##  [22534,] -7.629801e-01  1.120856e+00  3.599958e-02 -8.971495e-01
##  [22535,]  1.496225e-01  4.444194e-02  1.021762e+00  1.528069e+00
##  [22536,] -1.111364e-01 -3.647414e-01  1.400889e+00 -1.127250e+00
##  [22537,]  4.151818e-01  6.272894e-01  5.831493e-01  3.924413e-01
##  [22538,]  4.809546e-01 -1.463730e+00  8.356351e-01  8.204873e-01
##  [22539,] -2.434623e+00  6.337912e-01  1.335849e+00 -1.040616e+00
##  [22540,] -2.430811e+00 -6.128556e-02 -7.182992e-01 -6.433470e-02
##  [22541,] -2.660075e-01  8.689643e-01  1.226511e+00 -9.774560e-01
##  [22542,]  2.324812e-01  3.208596e-01  9.571189e-01  1.608604e+00
##  [22543,] -1.498333e+00 -1.253774e+00 -1.065064e+00  1.591725e+00
##  [22544,]  7.533386e-01 -7.445864e-02 -6.467793e-01 -3.028473e-01
##  [22545,] -1.274339e+00  9.408537e-01 -1.413680e+00 -5.095950e-01
##  [22546,]  3.967105e-01 -4.838953e-01 -5.304086e-01  5.712229e-02
##  [22547,] -2.293427e+00  4.177620e-01 -2.724496e-01 -6.090246e-01
##  [22548,]  8.717612e-01 -7.808488e-02 -5.979491e-01 -3.554968e-01
##  [22549,] -2.745383e+00  4.289866e-01 -1.481430e-01 -7.266707e-01
##  [22550,] -2.544781e-01  2.439640e+00 -3.516029e-02  9.851879e-01
##  [22551,] -4.796736e-01 -1.058768e+00  3.587873e-01  1.667366e+00
##  [22552,] -4.465195e-01 -3.945804e-01 -4.296219e-01  1.609400e+00
##  [22553,] -2.750398e+00 -7.734683e-01 -1.653348e+00 -6.681949e-01
##  [22554,] -5.058235e-01 -5.546221e-01 -7.935113e-01  4.496205e-02
##  [22555,] -6.615291e-01 -1.852773e+00  8.824206e-02  1.131949e+00
##  [22556,]  7.234808e-01 -9.116936e-01  1.034133e+00 -3.172554e-01
##  [22557,]  4.384454e-02 -1.133775e+00 -8.528658e-01 -2.721092e-01
##  [22558,]  6.745218e-02 -2.572921e-02  9.910324e-01 -3.033636e-01
##  [22559,]  7.435803e-01  3.626185e-01 -1.488426e-01 -7.015707e-01
##  [22560,] -3.476971e-02 -6.677962e-01  9.866027e-01 -6.167178e-01
##  [22561,]  6.832408e-01  1.802068e-01  1.096966e+00 -4.288486e-01
##  [22562,] -1.516582e+00  1.152504e+00 -1.600321e-01 -3.007568e-01
##  [22563,]  7.888449e-01 -1.896741e-01  9.884281e-01 -2.991892e-01
##  [22564,] -1.581386e+00  1.154870e+00 -1.265317e-01 -1.021544e+00
##  [22565,]  6.502079e-01 -1.464591e-01 -5.370978e-02 -6.740066e-01
##  [22566,] -6.651314e-01  9.492185e-02 -1.811129e+00 -5.525565e-01
##  [22567,] -5.116220e-01  1.632453e+00  1.055513e+00 -5.564911e-01
##  [22568,]  6.177605e-01 -2.684971e-01  1.096205e-01 -9.828739e-01
##  [22569,]  1.218384e+00  1.551424e+00 -3.278646e-01 -1.085082e+00
##  [22570,] -1.627039e-01 -8.299606e-01 -1.609625e+00 -7.945581e-01
##  [22571,] -1.742010e+00 -3.111826e-01  1.272964e+00 -8.170540e-01
##  [22572,] -1.384540e+00 -9.788475e-02  1.340734e+00 -8.804943e-01
##  [22573,] -1.194894e+00 -3.604100e-01 -2.028763e-01  1.385570e+00
##  [22574,] -6.339739e-01 -2.694137e-01  4.231478e-01  1.109052e+00
##  [22575,] -3.759085e-01 -1.192792e-01 -2.190392e+00  2.013666e+00
##  [22576,]  2.447372e-01 -1.627468e-01  6.282583e-01  6.175951e-03
##  [22577,] -1.449218e+00 -2.677732e-01 -1.409864e+00 -8.981693e-01
##  [22578,]  1.494772e+00  4.803800e-01  9.179694e-01 -1.518058e-01
##  [22579,] -5.920333e-01  3.794796e-01 -1.317847e+00  1.052000e+00
##  [22580,]  7.943044e-01 -2.761826e-01  1.071261e+00 -5.026547e-01
##  [22581,] -4.968717e-01  8.637771e-01 -1.910538e+00 -5.065439e-01
##  [22582,] -1.587422e+00  7.184401e-01  7.629814e-01 -5.263904e-01
##  [22583,] -1.273528e+00  6.232830e-01  5.223535e-01 -9.945968e-02
##  [22584,]  1.220719e+00  1.111683e+00 -5.135325e-01 -5.695673e-01
##  [22585,]  1.022983e+00 -2.215228e-01  8.704692e-01  1.786638e+00
##  [22586,]  1.507775e-01 -3.845657e-01 -4.162432e-01 -1.556281e-01
##  [22587,] -2.286496e+00  3.525645e-01 -2.304577e+00  3.221610e-01
##  [22588,] -2.206437e+00 -8.145488e-01  1.318107e+00 -6.901591e-01
##  [22589,]  1.162874e+00 -4.889232e-01  1.372929e+00 -7.485115e-01
##  [22590,] -2.324135e+00 -4.003163e-01 -4.635003e-02 -7.539881e-01
##  [22591,] -2.922704e+00  3.635287e-01  1.401977e+00  8.571985e-01
##  [22592,] -5.247564e-01  5.743197e-01 -1.548753e+00 -3.959102e-01
##  [22593,] -5.912379e-01 -9.022913e-02 -1.763886e+00  8.034915e-02
##  [22594,] -7.715918e-01 -2.360509e-01 -7.256744e-02  7.995628e-01
##  [22595,] -2.772002e+00 -1.502116e-01  2.602624e-02 -8.820675e-01
##  [22596,]  1.451917e+00  1.286917e-02 -5.602869e-01 -3.026215e-01
##  [22597,] -3.604103e-02  1.286197e+00 -1.134647e-01 -6.741617e-01
##  [22598,]  2.110842e-01  9.157542e-02  8.512559e-01 -1.420696e-01
##  [22599,]  7.648891e-01 -9.201219e-01  1.101684e+00 -4.389489e-01
##  [22600,]  8.689498e-01  1.221559e+00  9.166191e-01 -2.824913e-01
##  [22601,] -5.626587e-01  2.553506e-01 -1.763476e+00  1.301553e+00
##  [22602,] -2.223177e+00 -7.122463e-01 -1.929511e-01 -5.804655e-01
##  [22603,] -2.649758e+00  6.835376e-01 -1.278958e+00 -1.670380e-02
##  [22604,]  3.779744e-02  1.260969e+00 -1.215182e-01 -4.606364e-01
##  [22605,]  3.681731e-01 -3.111217e-01  8.085521e-01  2.769534e-02
##  [22606,]  6.829466e-01  7.288994e-02 -1.141378e+00 -4.721478e-01
##  [22607,] -4.768774e-01  1.394875e+00  9.737441e-01 -4.766507e-01
##  [22608,] -1.272621e+00  4.412145e-01  1.097171e+00 -5.357807e-01
##  [22609,] -1.348065e+00 -4.344138e-01 -9.063992e-01 -1.111045e+00
##  [22610,]  1.266868e+00  6.582284e-02 -1.638269e+00 -5.766114e-01
##  [22611,] -8.724542e-01  6.820748e-01 -4.850629e-01 -6.952253e-01
##  [22612,]  6.730101e-01 -1.960993e-01 -1.568325e+00 -9.881312e-01
##  [22613,] -6.177738e-01  2.011979e-01  1.143051e-02 -8.614540e-01
##  [22614,] -1.589832e+00  1.305984e+00  3.987745e-01  5.984181e-01
##  [22615,] -4.778798e-01  3.183765e-02 -4.595604e-01  2.014069e+00
##  [22616,]  2.052148e-01  1.198917e-01  9.056581e-01 -1.706397e-01
##  [22617,]  7.727157e-02  6.046035e-01 -6.013598e-01  1.334107e+00
##  [22618,]  8.327600e-02 -8.954607e-01 -1.587249e+00  1.155605e+00
##  [22619,]  5.942497e-01 -1.036289e+00  2.759060e-01  1.136258e+00
##  [22620,]  8.831525e-01 -7.864061e-01 -3.740180e-01 -1.627816e-01
##  [22621,]  3.265492e-01 -1.142335e+00  1.067589e+00  1.649056e+00
##  [22622,]  8.096158e-01 -1.998680e-01  8.343161e-01 -2.611466e-02
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## [22623,]  3.611816e-01 -9.276901e-01  9.756677e-01  1.764991e+00
## [22624,]  2.144334e-01  9.552921e-01  2.040781e-01 -1.363399e+00
## [22625,]  6.377464e-03  6.791680e-01 -1.574570e+00 -7.163594e-01
## [22626,] -9.429924e-01  5.159157e-01  1.099151e+00 -6.177479e-01
## [22627,] -7.970606e-02 -9.602882e-01 -1.524038e+00 -9.568880e-01
## [22628,] -1.340247e-01  1.997713e-02  1.430052e+00 -9.399618e-01
## [22629,]  2.296327e-01 -1.111984e+00 -2.880440e-01 -4.561754e-01
## [22630,]  2.400206e-01 -9.065649e-01 -4.795551e-01  1.558617e+00
## [22631,]  5.212860e-01 -5.836687e-01 -1.245432e+00 -1.271378e+00
## [22632,] -6.766868e-01 -1.498649e+00  9.921759e-02 -9.092876e-01
## [22633,]  5.411604e-02 -8.755995e-01 -1.043706e-01 -4.907710e-01
## [22634,]  3.627867e-01  1.610798e+00  3.019822e-01 -1.169944e+00
## [22635,]  9.902949e-01  2.007135e+00 -1.357768e+00 -9.041620e-01
## [22636,] -6.953937e-01  2.307321e-01  1.486977e+00 -1.170980e+00
## [22637,]  9.228351e-01 -4.205008e-01  4.076109e-01  1.468570e+00
## [22638,]  8.592133e-01  1.867747e-01  8.079560e-01  1.930009e-02
## [22639,]  5.095937e-01  1.159883e+00  1.040162e+00 -6.797737e-01
## [22640,]  3.453946e-02 -8.504666e-01 -1.473153e+00 -6.747031e-01
## [22641,]  8.578785e-02 -1.440982e+00 -1.173452e+00 -8.691529e-01
## [22642,] -7.378444e-01  3.424100e-01 -3.719695e-01 -6.194357e-01
## [22643,]  8.083927e-01  1.344407e+00 -3.327169e-01 -4.384332e-01
## [22644,]  2.757909e-01  9.725195e-02  3.750475e-02  9.162213e-02
## [22645,] -3.125272e-01  1.042120e+00  1.365902e+00 -1.105337e+00
## [22646,]  2.047895e-01 -1.072032e+00 -7.187846e-01 -4.987915e-01
## [22647,] -2.004150e+00  6.485234e-01 -1.646509e+00  1.863817e+00
## [22648,]  8.598281e-01 -2.715653e-01  8.635485e-01  1.911574e+00
## [22649,] -1.533286e+00  7.445062e-02 -1.058021e+00 -5.133242e-01
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## [22651,] -4.835231e-01 -1.674421e+00  1.186809e+00 -4.394718e-01
## [22652,]  1.002653e+00  1.392379e+00 -6.538033e-01  1.793071e+00
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## [22654,]  4.437949e-01  1.839131e+00 -1.401441e+00 -9.476276e-01
## [22655,]  5.720573e-01  2.435315e-02 -1.058326e+00  1.220707e+00
## [22656,]  9.995004e-02 -9.063240e-01 -1.192308e+00 -6.035108e-01
## [22657,] -5.565372e-02 -1.702605e+00  1.507639e+00  1.006078e+00
## [22658,] -5.074804e-01  2.842355e+00 -5.097096e-01 -3.243712e-01
## [22659,]  8.642131e-01 -8.414884e-02 -6.574268e-01 -4.526069e-01
## [22660,] -1.976519e+00  3.296163e-01 -4.859092e-01 -5.950280e-03
## [22661,] -2.567276e+00  6.042488e-01  2.035337e-01 -1.234187e+00
## [22662,] -3.325331e-01 -6.341522e-01 -1.883026e+00  1.775104e+00
## [22663,] -1.166662e-02  3.138654e-03 -1.718383e+00 -6.850586e-01
## [22664,] -1.932282e-01  1.431592e+00 -1.280698e-01 -8.916578e-01
## [22665,] -4.735110e-01  6.334012e-01  1.085147e+00 -5.642289e-01
## [22666,]  7.078785e-01  3.631751e-01  8.744333e-01 -1.996458e-01
## [22667,] -1.260202e-02 -1.102316e+00 -1.724171e-01  1.436429e+00
## [22668,] -1.464650e+00  1.070267e+00  1.190168e+00 -9.007909e-01
## [22669,] -2.667978e-01  2.028500e+00 -1.585165e+00  8.565182e-01
## [22670,]  2.029473e-01  8.943087e-01 -1.142708e-01 -6.327920e-01
## [22671,] -1.245424e+00  3.817627e-01  1.285578e+00 -1.086920e+00
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## [22681,] -7.235593e-01  1.021931e-01 -1.132326e+00  1.150906e+00
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## [22685,]  7.031720e-01 -3.675321e-01 -2.593743e-01 -8.624460e-01
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## [22695,] -2.021074e+00 -1.742667e-01 -1.791506e+00 -2.100593e-01
## [22696,] -2.105166e+00  1.191315e+00  8.876145e-01 -2.840959e-01
## [22697,] -2.806241e+00 -9.466055e-02 -6.565656e-01 -5.857172e-01
## [22698,] -9.938863e-01 -6.317253e-02  1.094157e+00 -4.897521e-01
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## [22700,] -5.840492e-01 -8.468938e-01  1.178052e+00  1.458874e+00
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## [22702,] -3.113193e+00 -7.034912e-01 -1.095839e+00  1.577725e+00
## [22703,] -4.497107e-01 -1.231755e+00 -9.082153e-01 -3.588425e-01
## [22704,]  7.802135e-01  2.845964e-01 -7.303499e-01 -1.051922e-01
## [22705,] -2.319587e-01  2.055719e+00  5.845861e-01  9.860538e-01
## [22706,]  2.834826e-01  5.533023e-01  1.456289e-01 -1.127961e-01
## [22707,]  1.213492e-01 -6.514533e-01  5.970902e-01  1.369286e+00
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## [22711,] -1.503845e+00  8.570966e-02  1.219873e+00 -7.018441e-01
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## [22717,]  5.330231e-01 -1.166943e-01 -9.398324e-02 -8.121432e-01
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## [22719,] -5.527749e-01 -3.196630e-01  8.830520e-01 -4.383745e-01
## [22720,]  1.846200e-01 -4.931630e-01 -4.256861e-01 -1.830271e-01
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## [22721,]  8.696576e-01  1.515106e-01 -3.822200e-01 -2.974434e-01
## [22722,] -1.331810e+00 -6.572237e-02 -1.630831e+00  1.993540e+00
## [22723,] -7.400572e-01 -9.757844e-01  4.463325e-01 -7.913156e-01
## [22724,] -2.024988e+00 -8.311311e-01  1.092209e+00 -3.444845e-01
## [22725,]  7.748174e-01 -4.369210e-01 -1.530716e-02 -7.316002e-01
## [22726,]  7.053724e-01 -9.615031e-01 -1.199457e+00 -8.853248e-01
## [22727,]  1.488053e+00  2.477096e-01 -1.763623e+00 -6.290181e-01
## [22728,]  9.343250e-01 -5.099416e-01  1.022760e+00 -2.269784e-01
## [22729,]  1.040987e+00  1.244295e+00 -2.121956e+00  3.455922e-02
## [22730,]  1.274299e+00 -3.963212e-01  4.148847e-01 -5.627945e-01
## [22731,] -1.377885e+00  3.122134e-01 -4.658775e-01 -8.223884e-01
## [22732,]  7.370145e-01  1.360119e+00 -3.301198e-01 -6.326885e-01
## [22733,]  8.937702e-01  2.483765e-01  1.148250e+00  1.468977e+00
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## [22736,] -2.397714e+00 -9.316410e-01  2.088741e-01  8.275319e-01
## [22737,]  9.435225e-01  1.354008e-01 -1.412917e+00 -2.845566e-01
## [22738,]  7.837123e-01  1.834007e-01 -1.008517e+00 -8.853243e-02
## [22739,] -6.694904e-01  1.344238e+00 -2.224195e+00 -1.217276e-01
## [22740,]  1.304784e+00 -1.732589e-01  1.082538e+00 -5.234485e-01
## [22741,] -4.840801e-01  2.920116e-01  8.963626e-01 -1.963274e-01
## [22742,]  3.793628e-02  3.964738e-01  7.571924e-01 -3.161080e-01
## [22743,] -5.336949e-01 -4.352845e-01 -2.788455e-01 -4.722794e-01
## [22744,] -4.911200e-04 -2.164801e-01 -8.336655e-01 -7.425686e-01
## [22745,] -3.863164e-01 -3.136423e-01 -2.048234e+00 -1.039308e-01
## [22746,] -3.084724e+00 -7.655679e-01  1.045441e+00  1.698232e+00
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## [22748,] -3.074974e+00  4.029077e-01  7.312894e-01  2.511049e-01
## [22749,] -1.263778e+00 -4.144428e-02 -4.485594e-01  1.416935e+00
## [22750,]  6.860347e-01 -4.807025e-01 -1.870006e+00 -4.300894e-01
## [22751,] -3.132111e-02 -1.355923e+00  4.077127e-02 -8.340619e-01
## [22752,] -1.277799e+00  8.391929e-01  1.016478e+00 -4.888630e-01
## [22753,] -6.456237e-01 -9.204393e-01 -1.159488e+00 -3.432114e-01
## [22754,]  8.916280e-01  3.541855e-01  8.371738e-01  8.498924e-02
## [22755,] -6.139807e-01 -5.500764e-01 -6.739965e-01 -3.057714e-02
## [22756,]  9.016504e-01 -5.071182e-01 -1.056967e+00 -3.144406e-01
## [22757,]  8.995270e-01  1.717023e-02  9.965343e-01  1.516737e+00
## [22758,]  6.604106e-01 -9.931283e-01 -1.986305e-01 -4.987500e-01
## [22759,]  6.391695e-01 -2.417932e-01  2.643620e-01  1.353462e+00
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## [22781,] -7.026791e-01 -1.682972e+00 -1.404648e+00 -6.263926e-01
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## [22791,]  9.722726e-01  8.458229e-02 -5.455190e-01 -1.865154e-01
## [22792,]  9.991446e-01  3.868076e-01  1.875124e-01 -9.989693e-02
## [22793,] -1.496292e+00  1.208414e+00 -8.380995e-01 -1.061645e+00
## [22794,]  8.650944e-01  1.430471e-01  7.180220e-01  1.421318e+00
## [22795,]  1.548676e+00  3.877773e-01 -1.161769e-01 -3.918678e-01
## [22796,]  6.886586e-01 -4.984605e-01 -3.155837e-01 -3.663245e-01
## [22797,]  7.975806e-01 -7.529529e-02  9.735985e-01  1.764694e+00
## [22798,]  1.244219e+00 -9.260522e-01  1.237241e+00 -6.798501e-01
## [22799,]  1.986488e-01 -8.739160e-01  9.728426e-02 -5.005951e-01
## [22800,] -4.906628e-01  6.228161e-01  8.173878e-01 -3.951739e-03
## [22801,] -3.976602e-02 -9.394727e-01 -9.477964e-02 -8.269941e-01
## [22802,]  1.169462e-01  3.212034e+00  9.977767e-01 -1.526896e-01
## [22803,]  7.281325e-01 -6.047059e-01  1.086089e+00 -3.935292e-01
## [22804,]  7.165789e-01  1.110737e-01 -1.622641e+00 -4.360696e-01
## [22805,] -1.823977e+00 -2.371091e-01 -4.330846e-01 -1.949619e-01
## [22806,] -7.942098e-01  5.229542e-01 -1.868700e+00 -5.513096e-01
## [22807,] -1.334975e+00 -1.642980e+00  1.024120e+00 -2.511740e-02
## [22808,]  9.549926e-01  2.604336e-01 -6.066527e-01  2.386519e-01
## [22809,]  4.496047e-02 -8.994656e-01  1.405187e+00 -8.602369e-01
## [22810,]  1.003617e+00  4.582297e-01  1.210864e+00 -9.365742e-01
## [22811,] -7.716126e-01  4.761522e-01 -1.178822e+00 -1.108037e+00
## [22812,] -2.163368e-01  3.152900e+00  1.163780e+00 -9.142879e-01
## [22813,] -2.370732e+00 -3.285272e-01 -5.108875e-01  8.304253e-02
## [22814,] -5.630694e-01 -5.976432e-01 -9.639506e-01 -9.148944e-02
## [22815,]  2.694060e-01 -5.357426e-01 -1.470760e+00  1.005809e-01
## [22816,]  6.560147e-02 -9.072858e-01  3.854684e-01  1.180817e+00
## [22817,]  1.834568e-01 -1.265979e+00  9.637471e-01  1.260461e+00
## [22818,]  1.936544e-01 -6.244851e-01 -1.670510e+00 -3.654231e-01
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## [22819,] -5.381225e-01  5.870699e-01  1.121701e+00  1.361413e+00
## [22820,]  7.556036e-02  9.535152e-01 -1.895403e-03 -5.757429e-01
## [22821,]  5.437017e-01  2.465263e-01 -4.296107e-02 -8.721534e-01
## [22822,] -1.446149e+00  4.239078e-01  8.897106e-01 -7.613516e-01
## [22823,] -1.295858e+00 -1.701817e+00 -9.847683e-02 -4.181636e-01
## [22824,]  1.301063e+00  4.954388e-01  7.489315e-01 -6.071349e-01
## [22825,]  2.572334e-01 -6.425550e-01  2.250363e-01 -6.422350e-02
## [22826,] -1.378978e+00 -6.378660e-01 -4.162243e-01  1.693232e+00
## [22827,] -1.342126e+00  1.691003e+00  8.725164e-01 -1.454952e-01
## [22828,] -6.156822e-01 -6.189757e-01  1.429466e-02 -4.364175e-01
## [22829,]  8.023040e-01 -1.690506e-01  9.138349e-01  1.788147e+00
## [22830,]  4.982643e-01 -5.619422e-01  1.265738e+00 -8.164029e-01
## [22831,]  7.543309e-01 -1.434774e+00 -2.991264e-03 -7.722694e-01
## [22832,] -2.212975e+00 -7.095980e-01 -1.663589e+00  1.258833e+00
## [22833,] -1.948399e+00 -1.338087e+00 -1.828759e+00 -2.517863e-01
## [22834,]  8.472914e-01 -3.975778e-01 -1.600418e+00 -5.812404e-01
## [22835,]  1.542012e-01 -5.902799e-01 -1.456806e+00 -4.483166e-01
## [22836,] -7.117100e-01  4.911935e-01 -1.630254e+00 -8.757355e-01
## [22837,]  1.552202e+00 -1.560599e-01 -8.504659e-01 -4.489179e-01
## [22838,]  5.975996e-01 -7.585509e-01  1.284684e+00  1.212534e+00
## [22839,] -7.993175e-01  1.219462e+00 -9.899037e-01  1.192401e+00
## [22840,]  5.242163e-01  3.822554e-01 -8.434124e-02 -9.401579e-01
## [22841,] -1.993795e+00 -6.475650e-01  1.036107e+00 -6.035766e-01
## [22842,]  3.402127e-01 -3.087431e-01 -2.037742e+00 -1.177886e-01
## [22843,] -3.258868e-01  4.988880e+00 -5.895609e-01  2.411190e-02
## [22844,]  7.034530e-01 -8.976956e-01 -1.340194e-01  1.335075e+00
## [22845,] -4.187441e-01  1.854685e-01 -1.464584e-01  1.313560e+00
## [22846,]  7.762574e-01  1.411428e-01 -5.449676e-01 -5.461717e-01
## [22847,] -3.080918e+00  5.596920e-01  8.138479e-01 -9.663936e-02
## [22848,]  6.176218e-01 -6.121035e-01  1.281372e+00  1.263714e+00
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## [22850,] -2.064680e+00  1.364352e+00 -1.506947e+00 -5.927038e-01
## [22851,] -1.713428e+00 -1.861090e-01  1.355823e+00 -9.133461e-01
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## [22853,] -1.465713e-02  1.616674e+00  6.765454e-01 -6.743190e-01
## [22854,] -8.601162e-01 -2.783602e-01  4.347749e-03 -9.697840e-01
## [22855,]  7.038223e-01  5.723527e-01 -1.579682e+00 -7.111922e-01
## [22856,] -3.873222e-01  1.455395e+00  9.544072e-01  1.690318e+00
## [22857,]  4.521061e-01  1.536822e-03  7.007263e-01  2.533452e-01
## [22858,] -2.191252e+00  1.344515e+00 -7.658203e-02  9.800024e-01
## [22859,] -7.799253e-01  9.261642e-01 -1.961911e+00 -4.613157e-01
## [22860,]  9.436103e-01 -4.378539e-01 -1.886575e+00 -3.614610e-01
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## [22873,] -6.283444e-01 -1.722806e+00  1.625353e-01  1.001730e+00
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## [22876,] -1.241385e+00  5.246205e-01  9.212384e-01  1.805526e+00
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## [22878,]  9.342584e-01  1.388067e+00  7.726128e-01 -9.140617e-02
## [22879,]  5.052840e-01 -4.307416e-01  1.309328e+00 -8.978168e-01
## [22880,] -1.445276e+00 -8.268522e-01  1.276790e+00  1.206905e+00
## [22881,]  7.106756e-01  1.416159e+00 -1.729333e+00 -2.485695e-01
## [22882,] -8.544344e-01  1.403033e+00 -2.233767e-01  6.646439e-01
## [22883,]  8.060737e-01 -4.645038e-01 -1.482433e-02  1.517607e+00
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## [22885,]  1.636243e+00  2.702356e+00 -1.712511e+00  6.091744e-01
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## [22887,] -2.620075e+00  1.392673e+00 -4.509024e-01 -3.580850e-01
## [22888,]  1.261429e+00 -6.241578e-01 -1.484256e+00 -7.628440e-01
## [22889,] -2.582368e+00  4.487671e-01  8.641630e-01 -2.343214e-01
## [22890,] -3.731690e-01  1.520872e-01 -3.301812e-01 -3.890478e-01
## [22891,] -1.750589e+00  1.508731e+00 -3.357427e-01  9.787483e-01
## [22892,] -6.471941e-01  1.917353e+00 -5.554528e-01 -5.386239e-01
## [22893,] -9.516391e-02  2.834821e+00 -2.893137e-01 -1.062588e+00
## [22894,]  4.522190e-01 -3.195091e-01  7.679272e-01  2.067585e-01
## [22895,]  5.435568e-01  3.100818e-01  2.422384e-01  9.668897e-01
## [22896,]  2.801173e-01 -7.689925e-01  6.783584e-01  1.434244e-02
## [22897,] -5.367060e-01 -1.318876e+00 -1.257176e+00  1.484745e+00
## [22898,]  2.246292e-01  1.313076e-01  8.220450e-01 -1.022920e-01
## [22899,]  6.108882e-01 -4.588230e-01  1.123776e+00 -5.374928e-01
## [22900,]  5.917489e-01 -8.194011e-01  1.291789e+00  1.194120e+00
## [22901,]  8.187580e-01  3.031836e-01  1.107552e+00 -5.147310e-01
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## [22903,] -1.712939e-01 -7.109031e-01 -2.489023e-01 -7.422545e-01
## [22904,] -2.688025e+00 -5.743654e-01 -1.586980e+00 -7.868481e-01
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## [22911,]  5.373309e-01  9.016585e-01 -2.225748e-01 -5.821674e-01
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## [22913,] -7.683199e-01 -1.301134e+00  1.356387e+00 -8.535362e-01
## [22914,]  2.316084e-01 -7.711855e-01 -1.617395e+00 -1.633134e-01
## [22915,]  8.168026e-01  8.802208e-02 -4.741233e-01 -4.950434e-01
## [22916,]  5.102085e-01 -1.185012e-01  1.341458e+00 -9.662239e-01
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## [22919,]  6.699296e-01 -5.685797e-01 -7.146515e-01  1.384327e+00
## [22920,]  2.958431e-01  3.434501e-01 -2.132271e+00  4.894581e-04
## [22921,] -2.128839e+00  1.018473e+00  1.007742e+00 -2.958603e-01
## [22922,] -1.196925e+00  1.158235e+00  4.004467e-01  1.562077e+00
## [22923,] -8.500378e-01  7.344854e-02  1.615772e-01 -1.145280e+00
## [22924,]  6.631404e-01 -5.962948e-01 -1.235975e+00 -5.936397e-01
## [22925,]  8.638340e-01 -1.661902e-01 -2.124546e-01 -4.265898e-02
## [22926,] -2.193923e+00  6.506842e-01 -3.066486e-01  1.326855e+00
## [22927,] -1.314335e+00  6.366257e-01 -4.630483e-01 -2.365733e-01
## [22928,] -5.459123e-01 -3.104510e-01 -1.442005e+00  1.751745e-01
## [22929,]  9.803904e-02  4.438215e-01 -5.277229e-01 -5.035597e-01
## [22930,]  1.338507e+00 -6.908810e-01 -7.283633e-02 -6.804897e-01
## [22931,] -1.630968e+00 -4.337085e-01 -1.105699e-01 -7.925233e-01
## [22932,]  8.763636e-01 -1.974372e-01  4.319410e-01  2.264023e-02
## [22933,]  1.180803e-01  1.138361e+00 -2.523325e-01 -8.009614e-01
## [22934,] -2.173383e+00  1.123977e+00 -7.043530e-01 -2.373898e-01
## [22935,] -1.771112e+00 -1.475833e+00  6.303985e-01  5.460956e-01
## [22936,]  3.757582e-02  3.675783e-01  5.727582e-01 -3.214566e-01
## [22937,]  4.516527e-01  7.174879e-01 -3.927267e-01 -8.388944e-01
## [22938,]  3.957369e-01  5.461955e-02 -1.161781e+00  4.174653e-01
## [22939,]  5.752926e-01 -2.847443e-01 -3.276110e-01 -6.909480e-01
## [22940,]  1.357700e+00 -2.899119e-01  8.618644e-01  1.369518e+00
## [22941,]  3.664415e-02  3.672849e-01 -8.916062e-01 -6.499936e-01
## [22942,] -1.560688e+00  2.643835e-01  9.351373e-01 -3.000492e-01
## [22943,] -1.186035e-01  6.508803e-02  1.313766e+00  1.078167e+00
## [22944,] -7.578409e-01  8.799016e-01  2.424803e-01 -9.991248e-01
## [22945,]  6.597458e-01  4.579684e-01  1.036358e+00 -5.231886e-01
## [22946,] -8.232507e-02 -2.565861e-01 -1.035175e+00 -5.273962e-01
## [22947,] -2.564810e-02 -7.170353e-01  1.784429e-01 -6.550207e-01
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## [22949,] -7.734092e-01 -9.730423e-01 -1.011899e+00 -8.963803e-01
## [22950,] -4.801568e-01  7.914897e-01 -8.827231e-01  6.918908e-03
## [22951,]  6.104528e-01  3.817030e-01 -3.309079e-01 -4.511347e-01
## [22952,]  6.989113e-02 -9.171694e-01 -1.569668e+00  1.121524e+00
## [22953,]  1.250277e-01 -9.806939e-01 -1.029132e+00 -4.600828e-01
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## [22959,]  9.250331e-01  1.740713e+00  1.211262e+00 -9.984969e-01
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## [22967,] -1.418133e+00 -1.514569e+00 -3.754333e-01 -3.291376e-01
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## [22981,]  4.810423e-01 -9.788598e-01 -1.280231e+00 -1.098652e+00
## [22982,] -1.482744e+00  9.258657e-01  7.291765e-01 -5.618432e-01
## [22983,]  7.172336e-01 -9.897493e-01  1.165396e+00  1.383623e+00
## [22984,]  4.973295e-01  7.115526e-02  1.203047e+00 -1.332073e+00
## [22985,]  8.479549e-01  7.447618e-01 -4.555213e-01  1.864368e+00
## [22986,] -9.177651e-01  5.068748e-01  1.356345e+00 -1.041940e+00
## [22987,]  2.998507e-02 -1.424343e+00  6.965397e-01  1.120874e+00
## [22988,] -6.363832e-01 -2.483126e-01  6.340842e-01  1.634414e+00
## [22989,] -1.070740e-01  2.820516e-01 -8.254435e-01 -9.191313e-01
## [22990,] -1.549367e+00 -1.834262e-01 -1.478614e+00 -9.533682e-01
## [22991,] -8.059660e-01 -3.608725e-01 -1.003694e+00 -9.442191e-01
## [22992,] -3.296045e-01  2.283445e+00  3.754000e-01  4.378054e-01
## [22993,] -4.583827e-01  2.480955e-01 -1.018892e+00  1.209912e+00
## [22994,] -8.047900e-02 -7.977370e-01  1.441584e+00 -1.112534e+00
## [22995,] -3.714648e-01 -7.495537e-01 -4.120641e-01  1.725267e+00
## [22996,]  6.420553e-01 -1.499505e-01 -3.695916e-01 -4.678678e-01
## [22997,] -1.215982e+00 -4.113769e-01  1.431400e+00 -1.070339e+00
## [22998,]  5.169144e-01  7.661007e-01 -1.772014e+00  1.057826e+00
## [22999,]  1.565537e+00 -2.519617e-01 -3.509095e-01 -4.571259e-01
## [23000,]  8.770697e-01 -5.719925e-01 -2.591977e-03 -3.879264e-01
## [23001,]  1.093745e-01 -6.366910e-01 -1.617798e+00  1.111189e+00
## [23002,]  7.052439e-01 -8.757084e-01 -1.938257e-01 -4.931373e-01
## [23003,] -2.208776e+00  8.359422e-01  1.041175e+00  1.519278e+00
## [23004,] -8.880815e-02  1.115866e+00 -8.978339e-02 -9.239028e-01
## [23005,]  7.087283e-01  6.903117e-02  1.248024e+00 -7.975042e-01
## [23006,]  1.183293e+00  6.355561e-01 -3.957114e-01 -7.905832e-01
## [23007,]  5.397137e-01  7.601149e-01  1.529408e-01 -5.849678e-01
## [23008,]  1.344587e+00  6.789973e-01  1.218661e+00  1.423212e+00
## [23009,]  7.015300e-01 -5.615405e-01 -1.800789e+00 -5.191615e-01
## [23010,]  6.946632e-01 -1.410014e+00  1.288407e+00 -6.781099e-01
## [23011,]  5.616372e-01 -6.754926e-01  5.982542e-01 -8.241519e-01
## [23012,]  2.273167e-01 -7.563293e-01 -1.907318e+00  1.650846e+00
## [23013,] -5.183776e-01  3.048243e-01 -5.122536e-01 -5.064700e-01
## [23014,] -1.320963e+00 -2.081939e+00 -8.300759e-02 -5.005354e-01
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##  [23015,]  6.125225e-01 -1.045977e-01 -4.915757e-01  1.204484e+00
##  [23016,] -7.220936e-01  1.426658e+00 -1.698495e+00 -6.941912e-01
##  [23017,] -5.978388e-02 -3.086613e-01 -8.432993e-01 -4.196716e-01
##  [23018,] -5.968104e-01  6.135448e-01 -1.212566e+00 -4.752361e-01
##  [23019,]  2.827812e-02 -6.018205e-01 -3.873524e-01 -2.797948e-01
##  [23020,]  8.755049e-02 -9.269966e-01 -5.715010e-02 -7.493853e-01
##  [23021,]  2.067079e-01  6.915020e-01 -2.960375e-01 -3.006713e-01
##  [23022,]  1.656951e+00  5.856002e-01 -2.927980e-01 -1.025102e-01
##  [23023,]  1.116455e-01 -1.295487e+00 -3.370438e-01 -4.830423e-01
##  [23024,] -2.732393e+00 -9.622123e-01 -1.632661e+00 -6.536763e-01
##  [23025,]  8.776934e-02 -2.557085e-03  9.637773e-01  1.602152e+00
##  [23026,] -1.004409e+00  1.326372e+00  6.315080e-01 -7.175928e-01
##  [23027,]  8.048101e-01 -1.723599e-02  1.080764e+00 -5.560058e-01
##  [23028,] -4.678886e-01  6.497902e-01  1.948539e-01  1.493110e+00
##  [23029,] -7.902086e-01  6.599346e-01  2.042754e-01  4.398392e-01
##  [23030,]  5.694591e-01  5.727616e-01 -2.067913e-01 -7.049300e-01
##  [23031,]  8.630623e-02 -1.134441e+00  4.484854e-01  1.183030e+00
##  [23032,] -6.471284e-01 -5.030236e-02 -2.086031e-01 -8.380636e-01
##  [23033,]  3.255784e-01 -4.987198e-01 -2.502336e-01  1.685331e+00
##  [23034,]  6.367860e-02 -2.390713e-01  1.045645e+00 -3.453865e-01
##  [23035,]  3.468892e-01 -6.144816e-01  8.744505e-01 -5.927012e-02
##  [23036,]  1.086360e+00 -4.620340e-02  1.662025e-01  1.150669e-01
##  [23037,] -8.051347e-01 -9.102743e-01 -9.146230e-02 -6.948404e-01
##  [23038,] -1.605648e+00  1.143580e+00  1.302798e+00  8.207157e-01
##  [23039,] -1.579421e+00  9.202046e-01 -1.177104e-01 -8.048688e-01
##  [23040,]  5.301436e-02 -1.325420e+00  8.075493e-01 -7.420979e-01
##  [23041,]  5.838397e-01  3.907410e-01 -4.799658e-01 -5.717950e-01
##  [23042,]  6.750577e-01  4.734954e-01 -4.105666e-01 -2.894002e-01
##  [23043,]  6.982894e-01  1.214409e-01 -3.218967e-01  1.307938e+00
##  [23044,] -4.971200e-01 -4.373589e-01 -1.810516e+00 -1.682098e-01
##  [23045,] -2.300131e+00  8.931513e-01  9.323717e-01 -5.397439e-01
##  [23046,] -7.471275e-01  2.226216e+00 -2.417836e-01 -2.203872e-01
##  [23047,]  8.875218e-01  4.878064e-01  7.525873e-01  2.677688e-02
##  [23048,]  7.081867e-01  6.816833e-01 -4.680048e-01 -1.889787e-01
##  [23049,] -2.261192e+00 -6.100456e-02  1.270308e+00  1.127693e+00
##  [23050,]  2.489081e-01 -3.604812e-01 -3.738027e-01  1.645791e+00
##  [23051,] -2.828768e-01 -6.781598e-01 -9.793227e-01 -1.039455e+00
##  [23052,] -5.898921e-01 -1.043739e+00  1.211166e+00 -6.116963e-01
##  [23053,] -9.407381e-01 -1.312705e+00  3.384660e-02  1.279952e+00
##  [23054,]  9.527504e-01 -2.207620e-02  3.544652e-02 -2.347256e-01
##  [23055,]  1.230994e+00  5.732230e-01  1.039189e+00 -5.994278e-01
##  [23056,]  1.018200e+00  6.040614e-01  7.495784e-01  2.510435e-02
##  [23057,] -5.698980e-01 -1.346374e+00 -9.518918e-01 -6.555970e-01
##  [23058,] -2.096150e+00 -3.388160e-01  1.081697e+00 -2.662980e-01
##  [23059,]  1.158141e+00 -1.044712e+00  1.451099e+00 -1.004397e+00
##  [23060,]  5.696806e-01 -2.339660e-01 -1.975779e-01 -6.227168e-01
##  [23061,]  1.328165e+00  1.027491e+00  1.108847e-01  9.951353e-01
##  [23062,] -2.212521e+00  4.402949e-01  1.131389e+00  1.308497e+00
##  [23063,] -8.351155e-01 -8.742360e-01 -4.924678e-02 -5.739225e-01
##  [23064,] -8.424544e-01 -9.037509e-01  1.385054e+00 -9.807219e-01
##  [23065,] -5.320269e-01  1.259804e+00  9.972349e-01 -3.885265e-01
##  [23066,]  6.632804e-01  1.383708e+00 -1.365217e-01 -3.517650e-01
##  [23067,]  4.322838e-02  3.237097e-02  1.148898e+00  1.362669e+00
##  [23068,]  8.966904e-02 -5.346543e-01 -9.538014e-01 -4.565852e-01
##  [23069,]  2.413025e-01 -8.741002e-01 -1.458865e+00 -4.219463e-01
##  [23070,] -9.965782e-01  1.115134e+00  1.980618e-02  6.322158e-01
##  [23071,]  3.785805e-01  2.877270e-01 -2.037367e+00  1.855099e+00
##  [23072,] -3.574981e-01 -9.849540e-02  7.504429e-01  7.568821e-02
##  [23073,]  3.112460e-01  6.871610e-01  1.445684e+00 -1.246568e+00
##  [23074,]  2.054530e-01 -5.637606e-01 -8.419757e-02  1.757317e+00
##  [23075,]  2.480185e-01 -8.139128e-01 -8.652842e-02 -2.094070e-01
##  [23076,]  2.055428e-01  4.198305e-01  9.066771e-01 -1.486249e-01
##  [23077,]  1.313791e+00 -6.384738e-01  4.758777e-01 -5.955449e-01
##  [23078,]  1.585710e-01  2.880542e-02  8.718519e-01 -1.677435e-01
##  [23079,]  5.181141e-01  7.661980e-01 -1.001224e+00 -8.849558e-01
##  [23080,] -9.145144e-02 -1.926115e-01  9.246085e-01 -4.753343e-01
##  [23081,]  6.067471e-01  1.569486e+00 -3.912319e-01 -4.946897e-01
##  [23082,]  2.555697e-01 -5.909284e-02  1.066830e+00  1.588075e+00
##  [23083,]  2.489573e-01 -1.652485e-01 -4.460755e-01 -2.548967e-02
##  [23084,]  3.027760e-01 -4.503904e-01  8.391803e-01  3.386655e-03
##  [23085,]  8.496914e-04 -1.006228e+00 -1.553833e+00 -4.377607e-01
##  [23086,] -2.564757e+00  3.831602e-01  9.344279e-01 -2.703621e-01
##  [23087,]  1.104938e-02  3.259640e-01 -1.734810e-01 -8.224194e-01
##  [23088,]  2.226635e-01  1.442344e-01  2.998754e-02 -2.887982e-01
##  [23089,] -2.281345e-03 -1.283373e-01 -3.892431e-01 -2.510010e-01
##  [23090,] -9.013668e-01  2.606657e-01  1.377441e+00 -1.034891e+00
##  [23091,]  1.595362e-01 -3.838537e-01 -8.761420e-01  1.304239e+00
##  [23092,] -7.396522e-02 -1.175147e+00  2.075614e-01  8.014708e-01
##  [23093,]  9.006798e-01 -1.809438e-01 -1.389006e-01 -2.653516e-01
##  [23094,]  3.032584e-01  3.017993e-01 -1.883180e-01  1.744873e+00
##  [23095,] -9.344452e-02  8.137143e-01  1.067684e+00 -6.755816e-01
##  [23096,]  1.197247e-01 -1.442301e-01 -2.267401e-01  1.601734e+00
##  [23097,]  6.587700e-01  5.626038e-01 -1.910661e-01 -5.576488e-01
##  [23098,]  8.852754e-01  5.246390e-01 -1.650318e+00 -3.549933e-01
##  [23099,]  3.757469e-01 -5.955693e-01  8.183210e-01  1.857517e-02
##  [23100,]  1.709983e-01 -5.556634e-01 -4.313266e-01 -1.229334e-01
##  [23101,]  4.315611e-02  7.924092e-01  8.998381e-01 -3.494173e-01
##  [23102,]  1.129664e-01  9.425006e-01 -1.922408e+00  1.554109e+00
##  [23103,]  2.153693e-01 -6.952090e-01  1.728877e-01 -4.140476e-01
##  [23104,]  2.156602e-01  2.424962e-01  1.201647e+00 -6.458811e-01
##  [23105,] -1.974912e-01 -1.201860e+00  1.365151e-01 -1.094085e+00
##  [23106,]  2.327728e-01  2.664815e-01  6.203027e-02 -7.884662e-02
##  [23107,]  1.579949e-01 -8.809304e-01 -1.078686e+00  1.483696e+00
##  [23108,]  3.472944e-01  3.465035e-01  2.118322e-01  2.043612e+00
##  [23109,]  2.833391e-01 -2.859404e-02 -7.497585e-02 -1.985802e-02
##  [23110,]  2.847411e-01 -5.949795e-01 -1.551402e+00 -2.837917e-01
##  [23111,]  5.624967e-01  1.794165e+00  2.105471e-01 -8.432369e-01
##  [23112,] -2.922959e+00 -9.076291e-03 -6.803717e-01 -9.575629e-01
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##  [23113,]  7.656149e-01 -6.682087e-01 -1.932748e+00 -2.650390e-01
##  [23114,]  1.527864e-01 -1.015587e+00 -3.175356e-01  1.568328e+00
##  [23115,]  4.085711e-01 -2.048943e-01 -2.160462e+00  6.730019e-02
##  [23116,]  9.144860e-02 -1.899199e-01  1.118022e+00 -4.914459e-01
##  [23117,] -1.333291e+00 -1.906805e+00 -1.635350e+00 -5.727317e-01
##  [23118,]  5.394473e-01 -1.006569e+00  1.454322e+00  1.020647e+00
##  [23119,]  3.773377e-01 -6.441041e-01 -8.817571e-01  1.975684e+00
##  [23120,]  1.745264e-01 -1.039825e+00 -1.383049e+00 -5.919627e-01
##  [23121,] -9.674186e-01  5.519400e-02 -5.643608e-01 -1.515476e+00
##  [23122,] -1.400095e-01 -1.398683e+00 -1.362638e+00 -8.104621e-01
##  [23123,]  2.020196e-01 -4.518795e-01 -1.378467e+00 -3.044357e-01
##  [23124,] -3.791124e-02  5.203655e-01  3.320770e-01 -5.089957e-01
##  [23125,] -6.476391e-01  1.108979e-01 -3.682093e-01 -3.927779e-01
##  [23126,] -3.355467e+00 -1.919259e-01  1.259678e+00 -7.225154e-01
##  [23127,]  1.029974e-01  1.436044e+00  9.644213e-01 -4.296694e-01
##  [23128,]  1.307415e-01  1.137407e+00 -2.039255e+00 -1.206669e-01
##  [23129,] -3.901811e-01 -1.169141e+00 -3.311333e-01 -1.706387e-01
##  [23130,] -2.591009e+00 -5.895480e-01  1.218667e+00  1.362173e+00
##  [23131,] -2.432650e+00 -1.828530e-02 -1.181582e+00 -5.004352e-02
##  [23132,]  4.242617e-02  4.753188e-02  1.198081e+00 -6.419134e-01
##  [23133,] -1.062635e-01 -1.560215e+00 -1.363657e+00  8.349170e-01
##  [23134,] -3.219995e-01  4.842668e-01  1.375243e+00 -1.167664e+00
##  [23135,]  5.276195e-03 -1.572660e+00  1.276929e+00 -6.380067e-01
##  [23136,] -9.715740e-01  1.049022e+00  1.259794e+00  1.162597e+00
##  [23137,] -2.793477e-01 -3.303060e-01  9.039833e-01 -1.179108e+00
##  [23138,] -3.853250e-01 -3.514207e-01 -2.098694e+00  1.946176e+00
##  [23139,]  5.710104e-03  1.539685e+00  5.009005e-01 -7.728743e-02
##  [23140,] -2.283275e-02  1.089466e+00  1.324129e+00  8.468515e-01
##  [23141,]  1.082673e-01 -1.133603e+00 -8.513779e-01 -4.992619e-01
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##  [23144,] -2.804986e-01  6.265206e-01 -1.544091e+00 -8.766980e-01
##  [23145,]  1.416302e-01 -1.047269e+00 -1.748148e-01 -4.851694e-01
##  [23146,]  1.457119e-01 -8.451699e-01 -1.573836e+00  1.434088e+00
##  [23147,]  2.352464e-01  2.126098e-01  8.093035e-01  1.841757e-02
##  [23148,] -2.751365e+00 -1.069203e+00  1.523931e-02 -7.611033e-01
##  [23149,]  2.030490e-01 -7.646817e-01  1.004490e+00  1.670131e+00
##  [23150,] -6.523054e-01 -1.813903e+00 -1.007001e-01  1.398057e+00
##  [23151,]  4.868820e-02 -3.670594e-01 -1.598194e+00  1.639732e+00
##  [23152,] -8.385032e-01 -1.056703e+00 -1.345716e-01  1.558760e+00
##  [23153,] -2.662496e+00  2.777511e-01 -4.294813e-01 -1.538235e-01
##  [23154,]  3.743567e-01 -2.551368e-01  5.804516e-01  1.819199e-01
##  [23155,] -8.321810e-01 -8.324838e-01  1.124202e+00 -5.060848e-01
##  [23156,] -5.932811e-01 -1.415271e+00  3.008054e-01 -4.832362e-01
##  [23157,] -5.220624e-01 -1.088750e+00 -2.752891e-01  1.768140e+00
##  [23158,]  1.297126e-01 -9.370484e-01 -9.295274e-02 -6.545750e-01
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##  [23161,]  1.929157e-01 -1.470920e+00 -2.857203e-01 -5.684656e-01
##  [23162,]  1.990609e-01  5.125247e-01 -1.605462e+00 -7.138440e-02
##  [23163,]  7.946980e-01 -5.554055e-01 -6.641483e-01 -1.607310e-01
##  [23164,]  3.075270e-01  5.512039e-01  4.336092e-01 -3.217727e-02
##  [23165,] -2.865129e-01 -1.297965e-01  9.443643e-02 -1.176907e+00
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##  [23167,]  1.566134e+00  2.901316e-01  9.895831e-01 -3.490067e-01
##  [23168,] -2.666653e+00  4.194547e-02 -1.439163e-01 -6.012209e-01
##  [23169,]  1.679919e-01 -7.970878e-01 -5.494955e-01 -1.721107e-01
##  [23170,] -4.353792e-02 -7.116238e-02  1.072565e+00 -3.568953e-01
##  [23171,]  5.961124e-01  5.598205e-01 -3.655398e-01 -5.083070e-01
##  [23172,] -5.165202e-01 -1.289908e+00 -2.407168e-01  1.765565e+00
##  [23173,]  2.913811e-01  1.732389e-01 -8.398119e-01  2.043111e+00
##  [23174,] -2.500981e-01 -3.427417e-01  1.830474e-01  2.666984e-01
##  [23175,] -1.808835e+00  3.757409e-01  1.157523e+00 -7.152387e-01
##  [23176,] -7.079036e-01  2.370002e-01 -4.153100e-01 -3.608298e-01
##  [23177,]  7.563341e-02 -1.051352e+00 -1.712036e+00 -5.918291e-01
##  [23178,] -8.572144e-02 -1.066392e+00 -5.362039e-01 -8.300529e-01
##  [23179,] -5.016941e-01 -8.128907e-01  1.089440e+00 -3.787058e-01
##  [23180,]  7.758523e-02 -3.277324e-02 -3.898524e-01  1.570829e+00
##  [23181,] -4.594005e-01  1.570994e+00 -5.501982e-01 -2.181772e-01
##  [23182,] -8.018820e-01  8.343940e-01  8.644190e-01 -9.057686e-01
##  [23183,] -1.187789e+00  9.836481e-01  1.214001e+00 -8.375980e-01
##  [23184,] -5.073697e-01  7.332786e-02  4.185276e-01  1.741106e+00
##  [23185,]  3.123965e-01 -1.640091e-01 -4.927440e-01 -1.528532e-01
##  [23186,]  8.837385e-01 -3.109202e-01 -2.927813e-01 -4.240283e-01
##  [23187,] -2.260583e+00 -4.018363e-02 -2.677113e-01 -4.821080e-01
##  [23188,]  2.118264e-01 -7.274085e-01 -3.097221e-01 -4.557693e-01
##  [23189,]  3.242662e-01 -2.941673e-01 -5.770006e-01  1.585308e-02
##  [23190,] -1.546903e+00 -1.737628e+00 -1.183547e-01 -4.427620e-01
##  [23191,] -5.564117e-01 -1.403903e+00  1.225119e+00 -5.767746e-01
##  [23192,]  1.823738e-01  6.667557e-01 -4.015014e-01  1.845047e+00
##  [23193,] -2.924525e+00  8.714934e-01  1.151180e+00 -6.970662e-01
##  [23194,] -7.633964e-01 -1.585664e+00 -1.507492e+00  1.084293e+00
##  [23195,] -2.989278e-02 -6.194586e-01 -2.045958e-01  1.448649e+00
##  [23196,]  3.293286e-01 -5.371332e-02 -2.049159e+00 -1.167377e-01
##  [23197,] -2.755109e+00  1.500040e+00 -5.431688e-01 -2.617214e-01
##  [23198,]  1.080819e+00  8.887326e-02  7.243440e-01  1.198869e-01
##  [23199,] -1.394933e+00 -1.863727e+00 -1.256586e-02 -6.550183e-01
##  [23200,]  8.480048e-02 -6.596696e-01 -1.470061e+00 -7.777303e-01
##  [23201,] -1.229352e-03 -5.522332e-01 -3.328929e-01 -2.993861e-01
##  [23202,]  2.635303e-01 -1.090528e-01  7.223605e-01 -2.006211e-01
##  [23203,]  1.157345e+00 -4.950066e-01 -1.037122e-01 -7.258095e-01
##  [23204,] -7.140711e-01  1.886833e-01  1.015804e+00 -6.118786e-01
##  [23205,] -3.306236e-01 -5.623554e-02 -2.135317e+00  1.909153e+00
##  [23206,]  1.408101e+00  4.343497e-01  2.315651e-01 -3.539146e-01
##  [23207,] -6.858913e-02 -3.225264e-01 -7.541688e-01  1.121051e+00
##  [23208,] -3.458613e+00  9.740102e-01  8.132820e-02 -6.379917e-01
##  [23209,] -1.182095e-01  5.121754e-01  1.221137e+00  9.648815e-01
##  [23210,] -2.576793e+00 -9.901184e-01 -8.405262e-02  1.334208e+00
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##  [23211,]  2.815896e-01  4.970074e-01  3.250076e-01 -1.162820e-01
##  [23212,]  4.707028e-02  3.420959e+00 -4.102578e-01 -1.624551e-01
##  [23213,] -1.032111e-01  1.472440e+00 -9.778827e-04 -5.190191e-01
##  [23214,]  1.086496e-01 -2.930273e-01  8.791847e-01  1.848664e+00
##  [23215,] -6.840227e-01  1.567428e-01  1.103149e+00 -5.184709e-01
##  [23216,] -6.971681e-02  9.247308e-01  1.125909e+00 -7.306997e-01
##  [23217,]  5.369340e-01  2.084751e+00 -4.149921e-01 -9.220137e-01
##  [23218,] -1.305877e+00  9.958838e-02  7.688910e-01  1.152703e-01
##  [23219,]  7.485941e-01 -8.936909e-01  1.313807e+00 -8.118264e-01
##  [23220,]  1.497298e+00  3.192980e-01  6.432531e-01  1.291724e+00
##  [23221,]  9.364192e-02 -5.424644e-01 -4.592981e-01 -5.645261e-01
##  [23222,] -2.121360e+00 -8.371773e-01 -1.474240e+00 -7.561493e-01
##  [23223,]  8.057057e-01 -1.254595e-02  5.594214e-01 -4.832870e-01
##  [23224,]  4.636399e-02  7.051574e-01 -5.745732e-01 -4.373533e-01
##  [23225,]  3.580262e-02 -7.461971e-01 -1.581758e+00 -5.371420e-01
##  [23226,]  7.181797e-01 -7.704994e-01 -1.551798e-01  1.380693e+00
##  [23227,]  1.400732e+00  3.897046e-02 -1.097765e+00 -3.073165e-01
##  [23228,]  8.619227e-01 -1.720312e-01  3.197239e-01 -4.568173e-01
##  [23229,] -2.588999e-01 -3.378442e-01  7.879002e-01  2.392978e-01
##  [23230,]  7.471400e-01 -2.256484e-01  8.809258e-01 -1.672929e-01
##  [23231,]  1.012897e-01 -7.579823e-01 -1.811842e+00 -4.850962e-01
##  [23232,] -2.237327e+00  4.526394e-02  1.136386e+00 -4.818582e-01
##  [23233,]  6.759838e-01 -2.792122e-01 -2.707350e-01  1.463182e+00
##  [23234,]  9.758421e-01  1.491371e-01 -2.058093e-01  1.760576e-01
##  [23235,] -2.920302e-01 -3.175198e-01  1.511537e+00 -1.214523e+00
##  [23236,]  7.394443e-01 -3.666924e-02 -1.276131e+00 -2.321897e-01
##  [23237,] -2.778251e-02 -1.288425e+00  4.664704e-02 -8.242669e-01
##  [23238,] -3.288676e-02 -1.016092e+00 -1.577381e+00 -8.500767e-01
##  [23239,] -1.472818e+00  4.642002e-01  1.312976e+00 -8.248998e-01
##  [23240,]  1.383424e+00 -8.136437e-02  8.459393e-01 -4.536124e-01
##  [23241,]  7.502831e-01 -7.488858e-01 -3.554827e-01  1.551126e+00
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##  [23243,]  1.734674e-01  1.036168e+00 -6.039530e-01 -3.675900e-01
##  [23244,]  4.427914e-01 -9.026233e-01  1.826585e-01 -1.054186e+00
##  [23245,] -2.164412e+00  2.696075e-01  1.131753e+00 -6.530643e-01
##  [23246,] -3.838860e-01 -9.917058e-01  1.792189e-01  1.923706e+00
##  [23247,]  9.787429e-01  2.298700e-01 -6.835062e-01  2.074635e-01
##  [23248,] -4.994546e-01 -1.540545e-01 -2.350157e-01  1.521609e+00
##  [23249,]  8.115316e-01  9.487567e-02  8.628401e-01 -1.004476e-01
##  [23250,] -1.348870e+00  9.706278e-01 -3.412967e-01 -5.019423e-01
##  [23251,]  1.425088e+00  3.520128e-01  7.351436e-01 -1.940297e-01
##  [23252,] -2.118513e+00 -2.908311e-01  1.397951e+00 -8.828593e-01
##  [23253,] -2.649265e-01 -1.131947e+00 -4.989286e-01  1.374123e-01
##  [23254,]  8.997426e-01  4.618601e-01  1.184089e+00 -1.198578e+00
##  [23255,]  6.512570e-02 -7.095408e-01 -8.672827e-01 -6.373441e-01
##  [23256,] -2.737205e+00 -1.048548e+00 -1.488170e+00 -5.633992e-01
##  [23257,] -2.078069e+00  1.225627e+00 -1.672665e+00 -8.500306e-02
##  [23258,]  8.651766e-01 -2.305498e-01 -5.191946e-01 -1.610023e-01
##  [23259,] -1.479570e-01  1.748335e-01  1.062812e+00  1.313102e+00
##  [23260,] -1.275086e+00 -7.638193e-01 -8.848136e-01  2.076140e-01
##  [23261,]  5.177200e-01  1.755327e-01 -6.749094e-01 -7.295969e-01
##  [23262,] -2.561550e+00  1.167358e+00  9.958766e-02 -1.833954e-01
##  [23263,] -1.381175e+00 -3.062449e-01 -9.464148e-02 -4.983708e-01
##  [23264,]  3.087757e-01 -5.131458e-01  4.887032e-01 -8.876503e-04
##  [23265,]  1.479536e+00 -3.689071e-01  1.275986e+00  1.186709e+00
##  [23266,]  1.575497e-01 -8.486538e-01 -1.753270e+00 -4.909103e-01
##  [23267,] -6.667046e-01 -1.254911e+00 -1.624583e+00 -6.935906e-01
##  [23268,]  6.796523e-01 -7.971469e-01  1.195328e+00 -4.517268e-01
##  [23269,] -4.870636e-01  3.192121e-01  1.009732e+00 -3.725354e-01
##  [23270,]  1.967232e-01 -1.036526e+00  1.499076e-02 -3.620816e-01
##  [23271,]  1.237037e+00 -3.368699e-01 -1.413015e+00 -5.689133e-01
##  [23272,]  8.741529e-01  5.232216e-02  1.388158e-01  1.523474e+00
##  [23273,]  8.618511e-01 -2.606247e-01  1.668521e-01 -3.875278e-01
##  [23274,] -5.619422e-01 -6.853355e-01 -1.857549e+00  1.914838e+00
##  [23275,] -9.112340e-01 -8.751136e-03 -1.179516e+00  6.556210e-01
##  [23276,] -2.817523e+00  1.429852e+00 -3.475274e-02 -5.229324e-01
##  [23277,]  8.698446e-01 -1.174016e+00  1.263216e+00  1.278556e+00
##  [23278,] -5.232802e-02  1.383783e+00  5.976313e-01 -5.229836e-01
##  [23279,] -2.631849e+00 -8.932506e-01  1.179838e+00 -5.395715e-01
##  [23280,] -1.315682e+00  1.001573e+00 -8.214064e-01  1.139930e-01
##  [23281,]  5.199932e-01  6.006994e-04 -2.282233e-01  3.765489e-01
##  [23282,] -1.256055e-01 -2.915420e-01  1.265301e+00 -7.987536e-01
##  [23283,]  1.231764e-01  1.351877e+00 -3.994788e-01 -2.557608e-01
##  [23284,]  2.779599e-01 -8.729073e-01  8.127090e-01 -2.592160e-01
##  [23285,]  7.077479e-01 -4.668678e-01 -1.306029e+00 -3.824514e-01
##  [23286,] -6.347895e-02  3.767113e-01  1.214692e+00 -7.892358e-01
##  [23287,] -5.180346e-01 -9.057019e-01  1.110917e+00 -4.251199e-01
##  [23288,] -1.942901e+00  8.463281e-01  5.543262e-01 -2.935142e-01
##  [23289,]  7.275222e-01 -3.128148e-02  8.830224e-01 -1.925633e-01
##  [23290,] -8.708121e-01 -1.468356e-01  7.631546e-02 -1.185447e+00
##  [23291,] -9.821322e-01  4.496358e-01  1.686267e+00  2.796120e-01
##  [23292,] -7.514055e-01 -5.940493e-01  1.100033e+00 -5.002608e-01
##  [23293,]  1.096713e+00  4.316587e-01 -5.624550e-01  1.566942e-01
##  [23294,] -1.314901e+00  1.613078e+00 -6.434070e-01 -5.287581e-01
##  [23295,]  3.767839e-01  1.310141e-01 -6.074069e-01  3.544301e-02
##  [23296,]  6.596162e-01 -7.713826e-01 -1.379564e+00 -6.301214e-01
##  [23297,] -1.814626e+00  6.831893e-01  5.336135e-01 -4.558055e-02
##  [23298,] -7.142532e-01  1.622275e+00 -1.513695e+00 -7.052848e-01
##  [23299,]  7.343117e-01 -1.316262e+00  1.329209e+00  1.246714e+00
##  [23300,]  7.753720e-01 -2.286829e-01  1.046358e+00  1.684367e+00
##  [23301,]  6.024950e-01  9.666162e-01  4.142315e-01 -5.602827e-01
##  [23302,] -8.230983e-01  1.014037e+00  2.276497e-01 -7.592097e-01
##  [23303,]  4.370713e-02  1.343851e+00  1.152554e+00  1.235301e+00
##  [23304,] -8.378513e-01  4.542844e-01  1.270738e+00 -1.012137e+00
##  [23305,]  7.824041e-01 -2.950342e-01  8.375755e-01  1.117729e+00
##  [23306,] -6.593205e-01 -1.529904e+00  1.372055e+00  1.193242e+00
##  [23307,] -5.022976e-01  1.292269e+00 -1.085323e+00 -6.319017e-01
##  [23308,] -3.393197e+00  6.004949e-01  1.042921e+00 -5.220680e-01
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## [23309,]  6.113229e-01 -3.039240e-02 -9.412649e-01 -7.802053e-01
## [23310,] -1.337825e+00 -6.058982e-01  8.399915e-01  1.089319e-01
## [23311,]  1.173230e+00  7.383155e-01  8.743636e-02 -5.918092e-01
## [23312,] -7.732362e-01 -3.852446e-01  1.124046e-01 -3.389807e-01
## [23313,] -2.171809e+00 -7.709119e-01 -1.389901e+00 -4.804189e-01
## [23314,]  8.880264e-01  2.469890e-02 -1.994742e+00  2.556346e-02
## [23315,]  1.395785e+00 -8.043462e-04 -2.319309e-01 -3.414465e-01
## [23316,]  9.429694e-01 -2.938724e-01 -5.929346e-01 -3.221788e-01
## [23317,] -5.515823e-01  1.414250e-01  8.395808e-01 -1.412885e-01
## [23318,] -5.268190e-01 -1.005450e+00 -6.593662e-01 -2.681548e-01
## [23319,] -6.711243e-01  1.233454e+00 -9.958216e-01 -4.316970e-01
## [23320,] -2.656364e+00  1.121200e+00 -2.011862e+00 -2.202023e-01
## [23321,] -2.835802e+00 -4.161343e-01 -1.007387e-01 -6.604373e-01
## [23322,] -1.283273e+00  1.469387e+00  5.570788e-01 -6.734526e-01
## [23323,]  1.022495e+00  1.893628e-01 -2.114747e+00 -8.078136e-02
## [23324,]  1.731730e-01  1.214786e+00  3.190304e-02 -6.522282e-01
## [23325,] -1.487298e-01 -1.501439e-02 -2.953439e-01 -6.179514e-01
## [23326,]  8.883115e-02 -1.387689e-02 -3.787395e-01 -4.967526e-01
## [23327,]  6.420214e-01  7.674883e-01  1.016029e+00 -4.390744e-01
## [23328,]  9.210428e-02 -1.030452e+00  1.292939e+00 -7.375867e-01
## [23329,] -5.512654e-01 -1.562508e+00  1.256911e+00  1.443929e+00
## [23330,] -2.670220e+00 -1.165765e+00 -2.578937e-01  1.363915e+00
## [23331,] -1.289543e+00 -2.910843e-01 -4.721151e-01 -4.978974e-01
## [23332,] -8.237046e-01 -1.544187e+00  1.237973e+00 -5.808297e-01
## [23333,]  8.869386e-02  3.341808e-03 -1.430894e+00 -3.324416e-02
## [23334,]  1.093166e+00 -1.712260e+00  1.640460e-01 -1.034157e+00
## [23335,]  1.327070e-01 -6.964923e-01  1.304042e+00  1.216925e+00
## [23336,] -3.299043e-02 -8.023204e-01  1.405569e+00 -8.815299e-01
## [23337,] -7.777087e-02 -1.232803e+00  1.329577e-01  9.948647e-01
## [23338,]  9.883268e-02  2.484522e+00  7.761233e-01  2.123646e-01
## [23339,] -5.414963e-01  7.778921e-01 -3.979729e-01 -6.472204e-01
## [23340,]  1.410156e+00 -1.099354e-02 -3.384667e-01 -2.049899e-01
## [23341,] -7.285834e-01 -9.282337e-01 -2.864438e-01 -3.521942e-01
## [23342,] -7.415526e-01  1.172509e+00  1.116273e+00 -7.595361e-01
## [23343,]  7.376770e-01 -2.115158e-01  1.233976e+00 -7.559208e-01
## [23344,]  1.216588e+00 -4.502822e-01  1.208695e+00 -6.897690e-01
## [23345,]  5.373405e-01 -1.262817e+00 -8.505644e-01  8.296686e-01
## [23346,] -1.488921e+00  1.227243e+00  1.246554e+00 -7.780444e-01
## [23347,]  6.342585e-01 -7.852676e-01  1.203528e+00 -5.430913e-01
## [23348,]  6.547518e-01  1.153324e-01  1.066725e+00  1.375268e+00
## [23349,] -4.619035e-01  6.043877e-01 -1.763635e-01 -1.298412e+00
## [23350,] -8.919105e-02 -5.311095e-01 -3.402570e-01  1.264703e+00
## [23351,] -2.154090e+00  7.286728e-01 -1.179543e+00 -8.623055e-01
## [23352,] -1.621263e+00  8.821021e-02 -1.704782e+00 -7.275685e-01
## [23353,]  7.280426e-01  5.432366e-01 -1.596497e+00 -4.136308e-01
## [23354,]  6.532303e-01 -6.355061e-02 -1.069336e+00 -6.552298e-01
## [23355,]  1.408614e+00  4.599426e-01 -6.272053e-01 -2.786559e-01
## [23356,] -1.563698e+00  1.163822e+00 -3.081425e-01 -8.107028e-01
## [23357,] -1.502235e+00 -6.009084e-01 -9.710894e-01  7.410359e-01
## [23358,]  1.444850e+00 -1.177648e-01  9.686346e-01 -3.111555e-01
## [23359,] -1.536307e+00  7.666582e-01 -9.195354e-01 -1.211054e+00
## [23360,]  7.219223e-01  3.356817e-01 -1.751796e+00 -3.640137e-01
## [23361,]  9.342871e-01  1.105095e-01 -5.669858e-01  1.624677e+00
## [23362,]  6.757139e-01 -5.195589e-01  1.151209e+00 -4.239079e-01
## [23363,] -5.380540e-01  4.093264e-01  1.102926e+00  1.444710e+00
## [23364,]  1.063869e-01 -1.431624e+00  1.357425e+00 -7.611348e-01
## [23365,]  1.389763e-01 -1.256012e+00  4.966038e-01 -5.260712e-01
## [23366,] -6.342494e-01  1.151707e+00 -6.110013e-01 -5.060208e-01
## [23367,]  6.618667e-01  6.136724e-02 -2.422725e-01 -4.936606e-01
## [23368,] -1.538065e+00 -7.080725e-01  6.191863e-02 -9.043702e-01
## [23369,] -6.499399e-01 -1.099530e+00  1.202408e+00 -5.519506e-01
## [23370,] -2.777665e+00  5.530597e-02 -7.136711e-01 -5.880488e-01
## [23371,] -1.611913e+00 -1.530467e+00 -1.480043e+00 -5.622953e-01
## [23372,]  1.310197e-01  6.075205e-01 -1.209455e+00 -4.026124e-01
## [23373,] -6.539386e-01  6.971048e-01 -1.529070e+00 -6.050774e-01
## [23374,] -6.054366e-01  2.643622e-01  1.004561e+00 -3.214355e-01
## [23375,]  8.780724e-01  1.659855e+00  4.757742e-01 -2.798410e-01
## [23376,] -1.529034e+00  3.199614e-01  1.169083e+00 -7.166549e-01
## [23377,] -2.664621e+00  2.304444e-01  8.139871e-01 -5.701562e-01
## [23378,]  5.062020e-02 -8.634651e-01  1.244191e+00 -6.648213e-01
## [23379,] -2.173279e+00 -2.860356e-02  1.153062e+00  1.344178e+00
## [23380,]  9.039427e-01 -1.665413e-02  5.080098e-01  1.492636e+00
## [23381,] -1.785932e-01  1.516611e+00 -2.620612e-01 -8.637148e-01
## [23382,] -2.277265e+00  1.673374e+00 -4.616948e-01 -7.197073e-01
## [23383,]  9.785944e-02 -1.460376e+00 -8.430026e-01 -8.282388e-01
## [23384,] -4.782709e-01  5.846899e-01 -1.258304e+00 -2.710816e-01
## [23385,] -6.250649e-01 -7.746759e-01 -1.881138e+00 -3.080082e-01
## [23386,] -8.449849e-01  2.176031e-01 -6.635494e-01  8.903327e-01
## [23387,] -2.448870e+00  1.081559e+00 -2.069428e-01 -1.100189e+00
## [23388,]  3.866949e-01 -6.853874e-01  9.444768e-01  1.843694e+00
## [23389,] -4.443853e-01  3.271939e-01 -1.699077e+00  1.212837e+00
## [23390,] -3.348531e+00  8.994635e-01 -1.145370e+00 -6.063239e-01
## [23391,] -2.215147e+00 -2.416760e-01  1.064418e-01 -5.548041e-01
## [23392,] -8.322468e-01 -1.768578e-01 -2.707047e-01 -9.323452e-01
## [23393,]  3.449663e-01  1.305535e+00  1.190344e+00 -9.564499e-01
## [23394,] -1.825791e-01 -6.555141e-01 -3.112399e-01 -7.925921e-01
## [23395,] -9.011006e-01  1.226955e+00  6.879925e-04 -1.216147e+00
## [23396,] -6.438678e-01  2.714407e+00  4.394007e-01 -7.912383e-01
## [23397,]  5.227109e-01  5.385474e-01 -3.147682e-01 -8.642396e-01
## [23398,]  7.498815e-01 -6.809892e-01 -1.231167e+00 -5.201793e-01
## [23399,]  3.529794e-01 -1.703968e-01 -7.278348e-01  1.796067e+00
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## [23401,] -6.998595e-01  7.192264e-01  1.515271e-01 -7.753006e-01
## [23402,] -9.353993e-01 -1.064659e+00  3.641610e-02  1.025955e+00
## [23403,]  6.481075e-01 -5.690311e-01 -1.216835e-01 -6.981295e-01
## [23404,] -6.484702e-01 -1.253327e+00 -4.958501e-01 -1.578590e-01
## [23405,]  7.021265e-02  1.093424e-02 -9.863082e-01  1.499780e+00
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##  [23408,] -2.902666e+00  7.662572e-01  1.291009e+00 -8.895858e-01
##  [23409,]  1.314133e-01 -1.899447e-01  9.056698e-01 -2.488976e-01
##  [23410,]  9.901163e-01 -1.206999e-02  9.101884e-01 -1.310980e-01
##  [23411,]  8.536034e-01  3.276619e-01 -4.271693e-01 -3.545153e-01
##  [23412,]  2.376151e-02 -6.071122e-01  1.200408e+00 -6.837734e-01
##  [23413,] -1.623750e+00  1.185472e-01 -2.233329e+00  2.345713e+00
##  [23414,]  1.185218e+00 -8.375467e-01  3.778578e-02  1.108941e+00
##  [23415,]  3.713165e-01  2.419745e+00  1.158802e+00  5.492680e-01
##  [23416,]  7.842010e-01 -2.780428e-01  9.530127e-01 -3.023179e-01
##  [23417,]  5.792686e-01  1.795367e+00  2.974740e-01  1.013688e+00
##  [23418,]  6.443424e-01 -4.417873e-01 -1.614050e+00 -5.318577e-01
##  [23419,] -1.998366e+00 -1.622764e+00 -1.817189e-01 -1.512198e-01
##  [23420,] -7.992642e-01 -1.623581e+00 -6.035654e-01 -2.425609e-01
##  [23421,] -1.203201e+00 -1.360096e+00 -1.700760e+00  2.020791e+00
##  [23422,]  4.543129e-01 -4.899614e-01  1.435819e+00 -1.136226e+00
##  [23423,] -1.478278e+00  4.403799e-01 -1.048790e-01 -8.239509e-01
##  [23424,] -1.145565e-01 -1.353008e+00  1.391436e+00 -8.981033e-01
##  [23425,] -5.787419e-01  1.318348e+00 -1.110538e+00 -2.034990e-01
##  [23426,]  7.357170e-01  6.801290e-01 -4.503474e-01 -7.095481e-01
##  [23427,] -8.447456e-01 -2.507383e-01 -1.999497e+00 -2.136988e-01
##  [23428,]  5.252620e-01  1.920401e-02 -1.513516e+00 -8.575508e-01
##  [23429,]  1.163394e+00 -1.019202e+00 -5.502447e-01 -7.969327e-01
##  [23430,] -2.652037e+00  1.279359e+00 -6.358297e-01  1.655299e+00
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##  [23432,] -8.492236e-01  1.715254e+00  1.204821e+00 -9.631921e-01
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##  [23434,]  1.305268e-01 -1.078897e+00  1.312139e+00 -6.721965e-01
##  [23435,]  1.543423e+00  1.249399e+00 -4.295778e-01 -3.643297e-01
##  [23436,]  1.071665e+00 -5.945142e-01  3.288542e-02 -1.110875e+00
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##  [23440,]  7.700537e-01 -7.625637e-01 -1.306816e-01  1.385331e+00
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##  [23442,] -1.577794e+00  1.023905e+00 -8.583462e-01 -4.677638e-01
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##  [23444,] -8.072980e-01 -1.297028e+00 -1.332439e+00 -5.835692e-01
##  [23445,] -9.360587e-02  4.344712e-01  3.804204e-01  1.012744e+00
##  [23446,] -6.181684e-01  7.618130e-01  1.144854e+00 -6.458956e-01
##  [23447,] -2.382678e+00  5.491512e-01  1.684799e-02  7.451239e-01
##  [23448,] -1.506640e+00  1.179776e+00 -2.117089e-01 -7.887747e-01
##  [23449,] -2.774853e+00  1.645490e+00 -5.734295e-01 -2.257681e-01
##  [23450,]  1.024722e+00  1.356183e-01  8.789684e-01  1.902407e+00
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##  [23453,]  5.614828e-01  1.417158e+00  4.514066e-01 -9.792287e-01
##  [23454,]  1.434403e+00 -1.994491e-01  1.188655e+00 -7.135356e-01
##  [23455,] -5.500047e-01  4.875941e-01 -6.994238e-01 -2.036210e-01
##  [23456,]  7.018551e-02  5.848012e-01 -1.814102e+00 -3.810728e-01
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##  [23462,] -3.389737e-01  4.284145e-01  2.294127e-01 -1.009845e+00
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##  [23464,]  1.172698e+00 -4.982355e-01  1.035638e+00 -6.788196e-01
##  [23465,] -6.933857e-01 -6.611715e-02  1.363417e+00  1.013222e+00
##  [23466,] -1.026390e-01 -9.585193e-01  5.347787e-01 -9.712193e-01
##  [23467,] -5.892242e-02 -1.407185e+00 -8.866956e-01  8.841248e-01
##  [23468,]  7.311802e-02 -6.738595e-01 -2.231247e-01  1.211058e+00
##  [23469,] -2.656445e-01  1.290029e+00  1.202900e+00 -1.027422e+00
##  [23470,] -2.600845e-02  8.487967e-01 -1.311583e+00 -2.395958e-01
##  [23471,] -1.663551e+00 -2.203780e-02  1.344426e+00 -1.042439e+00
##  [23472,] -6.405596e-01  9.869946e-01 -8.115708e-01  1.752045e+00
##  [23473,]  6.277315e-01  3.710108e-01 -1.666523e+00 -9.123016e-01
##  [23474,] -3.744407e-01 -9.737849e-01 -6.251398e-01  1.943559e+00
##  [23475,]  3.914992e-02 -3.117931e-01 -1.550486e-02 -6.762457e-01
##  [23476,]  6.113202e-01 -8.699847e-01  1.279143e+00 -7.997938e-01
##  [23477,]  9.861468e-01 -7.919281e-02 -4.788449e-01 -1.944384e-01
##  [23478,]  2.024050e-01 -3.796950e-01  9.145272e-01  1.817739e+00
##  [23479,]  6.788419e-01  4.923519e-01 -2.528047e-01 -7.476923e-01
##  [23480,]  1.077230e+00 -7.974295e-01 -1.153739e+00 -1.007706e+00
##  [23481,] -1.504987e+00  3.400799e-01 -9.053462e-01  6.690146e-01
##  [23482,]  7.982143e-01 -2.870863e-01 -4.433333e-01 -9.059350e-02
##  [23483,] -3.341491e+00  2.879589e-01 -1.860933e+00 -4.614917e-01
##  [23484,] -1.477075e+00 -1.377514e-01  1.443520e+00 -1.101551e+00
##  [23485,]  6.631295e-01 -8.798245e-01 -2.625963e-02 -9.574179e-01
##  [23486,]  8.662517e-01  7.869659e-01 -6.548687e-01 -2.837307e-01
##  [23487,]  8.928264e-01 -4.499715e-02 -3.971299e-01 -4.042896e-01
##  [23488,]  2.117934e-02 -3.895291e-01  7.591697e-01 -2.099153e-01
##  [23489,] -1.003071e-02 -1.455280e+00  1.137241e+00 -4.138694e-01
##  [23490,]  1.035629e+00 -3.041985e-01 -2.066216e+00 -1.076916e-01
##  [23491,] -2.973501e+00 -3.299472e-02  1.361088e+00 -8.788842e-01
##  [23492,] -7.430522e-02 -9.240575e-01 -1.287067e+00 -6.060512e-01
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##  [23494,] -1.109522e+00  2.586848e-01  4.152940e-02 -1.939149e-01
##  [23495,]  8.135362e-01  7.849811e-02  9.038643e-01  1.742226e+00
##  [23496,]  8.937004e-01 -6.695822e-01 -5.898115e-01 -4.606707e-01
##  [23497,] -1.532087e+00 -1.072983e+00 -1.306112e+00 -3.522878e-01
##  [23498,]  2.398139e-01  3.573313e-01 -6.502987e-01 -1.446860e-01
##  [23499,] -1.085075e-01  3.064757e-01 -4.106298e-01 -7.390789e-01
##  [23500,]  7.239698e-01  9.817561e-01 -4.164361e-01  1.556600e+00
##  [23501,] -7.088357e-01  2.829986e-01  1.124178e+00 -5.655367e-01
##  [23502,]  1.238581e+00 -5.914161e-01  1.819168e-01 -6.999568e-01
##  [23503,] -2.151924e+00 -4.989993e-01 -1.319835e-01 -3.789459e-01
##  [23504,]  1.759490e-01  1.419798e+00  8.844478e-01  1.906554e+00
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##  [23505,]  7.075072e-01 -3.743434e-01 -1.910840e+00 -3.658074e-01
##  [23506,] -2.538089e-01  3.576175e-01  5.963005e-01  3.774048e-01
##  [23507,] -3.549184e-02 -2.068367e+00  2.442336e-01  7.996454e-01
##  [23508,]  5.987489e-01  2.872475e-01 -4.735405e-01  1.302095e+00
##  [23509,] -4.788597e-01 -1.531824e+00 -1.960192e-01  1.614387e+00
##  [23510,] -5.999293e-01  2.555635e-01 -3.995135e-01 -3.026398e-01
##  [23511,] -4.546994e-01 -7.050287e-01 -1.122885e+00  1.531836e+00
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##  [23513,] -1.210345e+00 -1.509114e-01  8.993973e-01 -4.539623e-01
##  [23514,]  7.425365e-01 -1.111165e-01 -3.920139e-01 -3.488699e-01
##  [23515,] -1.327077e+00 -1.822435e+00  9.039891e-01 -1.371096e-01
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##  [23521,] -5.076101e-01 -1.399090e+00 -1.623574e+00  1.284145e+00
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##  [23523,] -1.380497e+00 -2.839881e-01  1.170704e+00  1.385695e+00
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##  [23525,] -4.580457e-01 -6.140146e-01 -3.703918e-01  1.782956e+00
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##  [23529,] -1.507298e+00  3.302450e-02 -1.282255e+00  1.400525e+00
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##  [23540,]  4.617600e-01  1.379811e+00 -1.892478e-01 -7.211672e-01
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##  [23542,]  9.017208e-01 -6.463284e-01  1.062291e+00  1.539403e+00
##  [23543,] -1.785959e+00  2.999649e-01  9.413751e-01  1.828839e+00
##  [23544,]  3.114527e-01 -4.749952e-01  7.315813e-01  1.458529e-01
##  [23545,]  1.146294e-01 -1.552734e+00  1.414471e+00  1.080615e+00
##  [23546,]  1.376280e+00 -5.305276e-01  9.894641e-01 -3.044110e-01
##  [23547,]  6.096939e-01  4.924014e-01  9.588307e-01 -4.131280e-01
##  [23548,]  6.320747e-02 -8.243275e-01 -9.196655e-01 -4.521618e-01
##  [23549,] -6.650249e-01 -6.725712e-01 -9.505001e-01 -7.945204e-01
##  [23550,] -5.942807e-01 -5.569606e-01 -4.879555e-01 -4.153317e-01
##  [23551,]  8.963312e-01  2.617580e-01  9.101450e-01 -2.063935e-01
##  [23552,] -7.358764e-01 -1.012625e+00 -1.171574e+00 -5.904916e-01
##  [23553,]  9.192582e-01 -4.542675e-01 -1.115161e+00  1.442089e+00
##  [23554,] -4.066597e-01  6.786975e-01  6.305476e-01 -4.044044e-01
##  [23555,] -6.921791e-01 -1.740828e+00  5.595696e-01  1.062112e+00
##  [23556,]  1.664623e-01 -8.276280e-01  1.121165e+00  1.463206e+00
##  [23557,]  2.146862e-01 -6.807464e-01 -4.495009e-01 -3.963066e-02
##  [23558,] -2.203595e+00 -6.268082e-01  1.197148e+00 -5.391148e-01
##  [23559,]  1.332511e+00  8.077711e-01 -1.464467e+00 -5.662996e-01
##  [23560,]  8.261030e-01 -5.085078e-01 -8.350029e-02 -5.224799e-01
##  [23561,] -6.919417e-01  2.448583e+00 -7.071814e-01 -3.262201e-01
##  [23562,]  6.704215e-01 -1.044285e+00 -1.066877e+00 -5.143807e-01
##  [23563,]  7.234100e-01 -1.058170e+00 -2.133727e-02 -7.994228e-01
##  [23564,] -7.719035e-01  2.298912e-01  1.204834e+00 -7.217929e-01
##  [23565,] -7.164969e-01 -4.389553e-01  7.975711e-02 -9.471811e-01
##  [23566,] -1.912129e+00 -1.753515e+00 -2.077580e-01 -3.170659e-01
##  [23567,] -1.861401e-02  7.217066e-01  1.149391e+00 -6.961617e-01
##  [23568,] -6.095452e-01 -2.518754e-01  1.319145e+00 -7.634381e-01
##  [23569,] -1.365595e+00  6.886969e-02  8.521343e-02 -8.613969e-01
##  [23570,] -1.252957e-01 -2.353880e-01 -7.781764e-02 -9.502907e-01
##  [23571,] -2.235220e+00 -3.448744e-01  1.309486e+00  1.233978e+00
##  [23572,]  5.501320e-01  6.429955e-01 -1.615662e+00  1.148948e+00
##  [23573,] -1.276766e+00  1.296470e-01  4.333314e-01 -6.025922e-01
##  [23574,]  1.418433e+00  4.711757e-01 -3.591972e-01 -2.180718e-01
##  [23575,]  7.653082e-01 -6.691994e-01 -1.121743e+00 -7.956822e-01
##  [23576,]  9.820271e-01  4.078132e-01  8.373716e-01  1.763209e+00
##  [23577,] -3.356914e-01  4.866984e-01  2.649652e-02 -1.205238e+00
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##  [23579,]  2.545695e-01 -1.329560e+00  8.336403e-01  1.441432e+00
##  [23580,] -1.851139e+00  3.722150e-01 -8.312154e-01 -1.451392e-01
##  [23581,]  2.494715e-01 -2.427146e-01 -1.242785e-01 -2.771793e-01
##  [23582,] -3.302121e+00  1.026256e+00  2.450526e-01 -6.348358e-01
##  [23583,]  7.605427e-01 -4.166044e-01 -1.634941e+00 -4.729013e-01
##  [23584,]  4.129952e-01  6.601671e-01 -1.304836e-01 -9.438638e-01
##  [23585,]  9.807682e-02 -6.764505e-01 -2.484183e-01  1.089639e+00
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##  [23587,] -2.659088e+00 -1.127448e-02  1.013259e+00 -2.796544e-01
##  [23588,]  7.498915e-01 -4.348141e-01 -3.710299e-01 -7.007537e-01
##  [23589,] -8.800461e-01  5.954135e-01  8.176187e-01 -1.210434e-01
##  [23590,] -8.304220e-01  3.603367e-01 -2.303929e-01 -8.752071e-01
##  [23591,]  8.223129e-01  4.578038e-01  7.409986e-01 -1.023205e-02
##  [23592,]  1.204174e+00  2.499439e+00  2.526264e-01  1.393061e+00
##  [23593,]  2.216063e-01 -1.378405e-01 -1.987642e+00  1.712560e+00
##  [23594,] -2.322434e+00  6.016516e-01  1.228316e+00 -7.844261e-01
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##  [23597,] -5.240410e-01  2.457985e-01  7.986731e-01 -6.004981e-01
##  [23598,] -1.857594e+00  5.571100e-01 -3.686164e-01 -1.590101e-01
##  [23599,]  3.026991e-01  1.838365e-01  7.772502e-01 -5.435649e-02
##  [23600,] -1.329996e-01 -2.237423e-01 -2.102325e-01 -6.319398e-01
##  [23601,] -4.873618e-01  1.304317e+00 -1.882352e+00 -3.763371e-01
##  [23602,] -9.699491e-01 -1.271415e+00 -2.863449e-01 -5.970143e-01
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##  [23604,]  9.972383e-01 -1.425629e-01  8.561543e-01 -1.813656e-02
##  [23605,]  1.443969e-01 -2.716259e-01  1.696050e-01  4.623212e-02
##  [23606,] -1.622237e+00 -4.264258e-01  1.080414e-01  1.070050e+00
##  [23607,]  6.190462e-01 -4.779727e-01  9.695021e-02 -5.660605e-01
##  [23608,]  9.009187e-01  6.193716e-02 -7.070035e-02 -2.508975e-02
##  [23609,] -6.100305e-01 -1.193497e+00  8.735677e-02 -7.386195e-01
##  [23610,] -5.169506e-01  9.192470e-01  9.771408e-01 -4.659328e-01
##  [23611,]  7.652868e-01  5.152288e-01 -5.250325e-01 -1.226407e-01
##  [23612,]  4.898834e-01 -2.955922e-01  1.363721e+00 -8.479494e-01
##  [23613,] -1.616461e+00 -6.795889e-02  1.172521e+00 -6.496761e-01
##  [23614,]  1.739597e-01 -1.595771e+00 -1.457193e-01 -4.714627e-01
##  [23615,] -6.182996e-01  9.254712e-01 -5.059033e-01 -3.069701e-01
##  [23616,]  9.668195e-01  6.205139e-01  7.734827e-01 -8.321733e-02
##  [23617,] -2.042505e+00  7.540048e-01  7.335553e-01  9.414881e-02
##  [23618,] -4.703909e-01 -2.008227e-01 -1.860448e+00  1.651395e-01
##  [23619,] -2.163022e+00  2.031556e-01 -4.669571e-02 -9.118738e-01
##  [23620,] -1.400025e-02 -1.594304e+00 -1.211043e+00  8.488404e-01
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##  [23628,] -9.211830e-01 -1.591093e+00 -1.159502e+00 -5.540910e-01
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##  [23632,] -1.330229e+00  2.702289e+00  9.597093e-01 -2.582987e-01
##  [23633,]  5.034975e-01  1.198775e+00  1.372982e+00 -1.073978e+00
##  [23634,] -5.870253e-01 -9.004492e-01 -1.480650e-01  1.868625e+00
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##  [23636,]  3.188302e-01  2.178195e-01 -4.396638e-01  1.723157e+00
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##  [23638,] -7.382256e-01  1.113258e+00  3.312577e-02  1.116629e+00
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##  [23640,]  2.602853e-01 -1.231984e+00 -5.538466e-02  1.435403e+00
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##  [23642,] -5.101570e-01 -8.523811e-01 -1.743120e-01 -4.388143e-01
##  [23643,] -1.067705e+00 -7.131659e-01  7.416458e-01  2.916067e-01
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##  [23654,] -4.976320e-01 -1.324550e+00  1.266163e+00  1.384579e+00
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##  [23657,]  9.540111e-01 -1.891008e-01  9.070807e-01 -2.138998e-01
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##  [23661,] -1.494709e-01  3.828287e-01 -1.646269e+00 -9.540783e-01
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##  [23664,]  1.344105e-01 -7.551919e-01 -1.891350e+00 -3.023770e-01
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##  [23669,]  1.550494e-01  5.749252e-01  2.910356e-01 -2.897574e-01
##  [23670,]  8.369182e-01  7.227202e-01 -4.995299e-01  1.364267e+00
##  [23671,]  8.073297e-01 -4.272807e-01  9.371662e-01 -1.725923e-01
##  [23672,]  1.278693e+00  6.540178e-01 -1.697774e+00  1.471766e+00
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##  [23674,] -2.013538e+00  2.930245e-01  3.640404e-01  1.246787e+00
##  [23675,]  1.799188e-01 -7.136985e-01  1.175380e+00  1.353704e+00
##  [23676,]  3.071472e-01  1.609069e+00 -7.440110e-02 -1.528147e+00
##  [23677,] -2.335327e+00  1.092623e+00 -1.559609e+00  1.125618e+00
##  [23678,] -1.038741e-01  1.050743e+00  9.345968e-01 -3.460342e-01
##  [23679,] -6.672802e-01 -7.749573e-01 -2.146862e+00  1.492943e-01
##  [23680,] -8.100601e-01 -4.991170e-01  1.050618e+00 -6.587067e-01
##  [23681,] -7.625537e-03  1.811941e+00  6.311765e-01 -5.051936e-01
##  [23682,] -6.592336e-01  1.594296e+00 -2.821425e-02 -9.402906e-01
##  [23683,]  7.085928e-01  2.650105e-01  1.068582e+00 -4.523120e-01
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## [23706,] -6.790504e-01  5.139478e-01  1.235237e+00 -7.259097e-01
## [23707,] -6.354148e-01 -4.680726e-01 -8.086307e-02 -7.442674e-01
## [23708,] -1.210139e+00 -1.119668e+00  1.032246e+00 -1.200545e-01
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## [23715,]  2.786169e-01  1.299238e+00  2.165794e-01  1.418193e+00
## [23716,]  5.492024e-01  5.507228e-01 -5.162553e-01 -6.156655e-01
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## [23723,] -6.868374e-01  1.024073e+00 -2.537826e-01 -4.559123e-01
## [23724,] -3.375068e-01  1.825219e-01 -9.959050e-01  3.084855e-01
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## [23727,] -1.049411e-01 -8.070790e-01 -9.543381e-01  1.214172e+00
## [23728,]  7.792169e-01 -2.084205e-01  8.740476e-01 -1.004957e-01
## [23729,]  6.879689e-02 -1.112827e+00 -1.048394e+00 -4.841282e-01
## [23730,] -6.433492e-01  1.239763e-01  1.139797e+00  1.400663e+00
## [23731,] -7.775970e-01  1.225341e+00 -1.790560e-01 -6.461715e-01
## [23732,]  9.511326e-01 -7.297754e-01  9.667265e-01 -2.796354e-01
## [23733,]  7.477325e-01 -2.918549e-01 -1.061403e+00 -3.318883e-01
## [23734,] -3.824637e-01  7.359071e-01  6.523159e-01 -7.837893e-02
## [23735,]  1.719926e-01 -1.100648e+00 -8.105535e-01  1.625189e+00
## [23736,] -1.573057e+00  2.925977e-01  1.477551e+00 -1.271233e+00
## [23737,]  1.256776e+00 -7.352251e-03 -1.111593e-02 -6.929342e-01
## [23738,] -2.580678e+00  5.085930e-02 -2.014168e+00 -1.479477e-01
## [23739,] -3.102719e-01  6.874586e-01  3.577772e-01 -9.123872e-01
## [23740,] -1.951569e+00  1.361986e-01  8.317691e-01  1.395034e+00
## [23741,]  6.434259e-02  1.636756e+00 -6.054708e-01 -5.456810e-01
## [23742,]  6.954262e-01 -8.314165e-02  1.210791e-01 -3.283855e-01
## [23743,]  1.407245e+00  1.715095e-01 -1.197842e+00 -7.090661e-02
## [23744,] -4.912176e-01 -2.692555e-01 -1.890091e-01  1.759455e+00
## [23745,]  4.628539e-01 -1.025549e+00  8.045666e-02 -9.877787e-01
## [23746,]  7.465133e-01  1.385647e-03 -1.965814e+00 -3.320018e-01
## [23747,]  2.117483e-01  5.951859e-01 -1.543407e+00 -6.869488e-01
## [23748,] -1.579199e+00 -1.269130e+00 -1.432295e-01 -4.636779e-01
## [23749,]  1.642540e-01  2.927977e-01 -4.698890e-01  1.703603e+00
## [23750,]  2.059520e-01 -2.779575e-01 -1.818400e+00  1.522821e+00
## [23751,]  4.330937e-01 -6.229007e-01  1.080915e+00 -1.018697e+00
## [23752,]  1.676602e+00 -4.770875e-02  8.766253e-01 -1.164474e-01
## [23753,] -4.691688e-01  1.090180e+00  8.779782e-01 -3.247436e-01
## [23754,] -7.201352e-01 -4.344371e-01 -1.822045e-02 -9.736601e-01
## [23755,] -6.370408e-01  1.216250e+00 -1.738799e+00  1.326400e+00
## [23756,]  1.511246e+00 -2.554378e-01 -4.183576e-01 -1.878312e-01
## [23757,] -2.756493e+00 -9.019437e-01  1.238111e+00 -5.252512e-01
## [23758,] -1.230454e+00 -1.200675e+00 -6.583862e-01  2.016485e+00
## [23759,]  5.586137e-02 -5.677797e-01  4.465897e-03 -6.688940e-01
## [23760,]  1.937882e-01 -1.747412e-01  8.330078e-01 -1.009657e-02
## [23761,] -6.266018e-01  1.441205e+00 -4.843495e-01 -3.932133e-01
## [23762,]  8.025980e-01  5.674156e-02  9.339303e-01  1.619125e+00
## [23763,] -5.748602e-01  6.091192e-01  5.894078e-01 -2.251470e-01
## [23764,] -7.718995e-02 -1.664910e+00 -6.536833e-02 -6.232675e-01
## [23765,] -5.259993e-01  1.472724e+00  8.615032e-01 -2.242091e-01
## [23766,]  3.280955e-01 -8.779555e-01 -3.496053e-01  1.684441e+00
## [23767,]  5.321956e-01 -8.286821e-01 -1.080906e+00 -8.331134e-01
## [23768,] -3.424664e-01  4.868811e-01  9.515380e-01 -2.700707e-01
## [23769,]  8.656097e-01  3.248372e-01 -5.906336e-01  4.856137e-02
## [23770,]  3.612779e-02 -1.064890e+00 -1.507911e+00 -9.568110e-01
## [23771,]  8.794514e-01 -1.097736e-01 -1.353961e+00 -4.490941e-01
## [23772,]  1.047458e-01 -6.860830e-01  1.093952e+00 -6.852046e-01
## [23773,] -2.572745e+00  1.351015e-01 -3.876183e-01 -1.810818e-01
## [23774,]  7.526143e-01 -1.099857e-01  9.607496e-04 -3.323087e-01
## [23775,] -1.420811e+00  1.180413e+00 -5.593416e-01 -3.862201e-01
## [23776,] -3.308139e-01  2.678377e-01 -4.058533e-01  8.969830e-02
## [23777,]  6.195847e-01  1.404319e+00 -3.958176e-02 -3.136117e-01
## [23778,] -7.402533e-01 -1.391316e+00 -1.706586e+00  1.392619e+00
## [23779,]  2.074275e-01  1.748357e+00  4.549577e-01 -2.244953e-01
## [23780,] -3.273550e-02 -4.713914e-01  1.381442e+00  1.005692e+00
## [23781,] -2.587128e+00 -1.018896e+00  2.599552e-01 -3.723727e-01
## [23782,]  5.516853e-01 -8.780873e-01  1.428802e+00 -9.702182e-01
## [23783,]  4.297528e-01 -2.079960e-02  6.219395e-01 -9.551688e-01
## [23784,]  3.960722e-01  4.594921e-01 -5.896339e-01  2.834021e-01
## [23785,] -4.920551e-01  9.457464e-01  8.892344e-01 -2.052866e-01
## [23786,]  9.430303e-01  7.860290e-01 -4.174158e-01 -1.709749e-01
## [23787,]  6.657494e-01  4.911801e-01  1.007607e+00 -4.094319e-01
## [23788,]  1.628999e-01  1.083450e+00  1.048911e+00 -5.458267e-01
## [23789,]  9.428793e-01 -1.046132e-01  8.902966e-01 -1.343519e-01
## [23790,] -2.892398e+00 -3.402043e-01 -1.064549e-01 -8.315248e-01
## [23791,] -7.641595e-01  8.626300e-02 -1.561005e-01 -6.982592e-01
## [23792,] -2.225781e+00  6.092773e-02  1.293632e+00 -7.456970e-01
## [23793,] -5.047626e-01  2.667567e-01 -4.652877e-01 -5.883462e-01
## [23794,] -3.167159e+00 -6.132459e-01  8.263113e-01 -1.563328e-01
## [23795,] -2.232810e+00 -7.382016e-01  7.595110e-01 -6.528671e-01
## [23796,] -8.258279e-02 -1.777268e+00  3.443434e-02  1.177291e+00
## [23797,] -5.220710e-01 -7.610270e-01 -1.770313e+00 -2.548581e-01
## [23798,] -5.781177e-02 -3.582143e-01 -2.977067e-01 -7.270186e-01
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##  [23799,] -1.197770e+00  2.299102e-01 -2.916630e-01  1.632701e+00
##  [23800,] -9.023999e-01  1.916339e+00 -2.707344e-01 -1.140825e+00
##  [23801,] -3.650532e-01  1.074926e+00  3.650917e-01 -9.947131e-01
##  [23802,]  7.082115e-01 -1.012986e+00 -2.234746e-01 -8.763928e-01
##  [23803,]  3.366978e-01 -7.364466e-01  9.352099e-01 -1.094612e-01
##  [23804,]  7.468924e-01  5.152777e-02 -1.736677e-01 -1.812086e-01
##  [23805,]  1.394991e-01  1.457963e+00 -4.652951e-01 -2.060833e-01
##  [23806,]  6.412348e-01 -1.567056e+00 -5.723018e-01  9.595242e-01
##  [23807,] -1.379102e+00 -1.416062e+00 -2.499634e-01  1.224894e+00
##  [23808,]  1.037700e+00 -1.388661e-01  8.369569e-01 -2.095426e-02
##  [23809,] -1.205035e+00 -9.406478e-01  9.699418e-01 -7.520385e-02
##  [23810,]  6.666194e-01 -9.643952e-01  6.810466e-01 -9.358246e-01
##  [23811,]  3.148336e-01 -3.241199e-01 -1.989056e+00 -1.859219e-01
##  [23812,]  7.508316e-01 -1.225559e+00  3.450453e-03 -7.662603e-01
##  [23813,] -2.325547e+00 -8.122801e-01  1.389239e+00  1.048046e+00
##  [23814,]  3.445096e-01  1.527477e+00  7.293770e-02  7.448841e-01
##  [23815,]  3.403273e-01  2.015202e+00  1.111619e+00 -8.865829e-01
##  [23816,]  5.587530e-01 -1.087631e-03  1.133271e+00 -6.102848e-01
##  [23817,]  5.918331e-01  7.225045e-02 -1.456206e+00 -5.861141e-01
##  [23818,] -1.187251e+00  7.981604e-01 -1.802285e+00 -1.677721e-01
##  [23819,] -1.335802e+00 -9.878804e-03  2.554956e-01 -8.009527e-01
##  [23820,] -1.109872e+00 -4.857848e-01  9.058341e-03 -1.187431e+00
##  [23821,]  3.427303e-01 -4.555825e-01  7.771704e-01  1.033890e-01
##  [23822,] -4.209768e-02  3.839760e-01  1.342279e+00 -9.239130e-01
##  [23823,] -7.432359e-01 -1.377330e+00  1.020801e+00  1.206766e+00
##  [23824,]  5.452210e-01 -1.173899e+00 -7.267611e-02  9.503924e-01
##  [23825,]  8.090550e-01 -7.973453e-01  5.039982e-01 -6.707622e-01
##  [23826,]  5.807617e-01 -5.152012e-02  1.379981e+00 -1.014914e+00
##  [23827,]  6.242442e-01  7.648034e-01 -8.595749e-02  1.206491e+00
##  [23828,]  2.824287e-01  8.186934e-01 -5.831134e-01  7.024136e-02
##  [23829,]  7.403841e-01  6.469945e-01  9.361096e-01 -1.367224e-01
##  [23830,]  1.182433e-01 -3.599318e-01 -1.772280e+00 -5.262153e-01
##  [23831,]  1.006856e+00  7.508677e-01  1.419688e-01 -4.238492e-02
##  [23832,]  8.307439e-01 -2.357100e-01  8.124074e-01  2.055552e-02
##  [23833,] -2.907204e+00 -2.336469e-01  1.349329e+00 -9.019325e-01
##  [23834,] -7.895656e-01 -1.520675e-01  1.259870e+00 -7.782930e-01
##  [23835,] -1.397953e+00  3.245750e-01 -6.939798e-02 -6.734639e-01
##  [23836,] -3.386456e-01  8.733994e-01 -3.892330e-01 -2.349434e-01
##  [23837,]  7.689057e-02  7.399627e-02 -9.274141e-02 -6.721815e-01
##  [23838,] -8.069432e-01  2.111501e+00  1.147989e+00 -8.313475e-01
##  [23839,]  7.753633e-01  1.871525e-01 -3.552042e-01 -5.439207e-01
##  [23840,] -1.317980e-01  1.104047e+00  9.398811e-01 -3.989892e-01
##  [23841,] -1.459329e-01 -1.718759e+00  1.475738e+00  1.035192e+00
##  [23842,]  7.592842e-01  3.741738e-01  1.177760e-01 -3.473196e-01
##  [23843,] -9.907693e-03 -7.965616e-01  1.261576e+00 -7.852082e-01
##  [23844,]  6.934356e-02 -1.163332e+00 -4.253938e-01 -4.902975e-01
##  [23845,] -8.238144e-01  4.523170e-01  1.013848e+00 -1.072104e+00
##  [23846,] -1.660003e+00  4.402274e-02  1.122949e+00 -6.667824e-01
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##  [23848,]  1.024448e-01 -1.187563e+00 -1.226888e+00  1.426354e+00
##  [23849,]  1.370199e+00  7.498799e-01  3.914533e-01  1.746039e+00
##  [23850,] -9.158570e-01  1.541275e-01 -2.809907e-01 -1.328646e+00
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##  [23852,] -1.440156e-01  7.537459e-01  1.083726e+00 -6.956334e-01
##  [23853,]  1.386488e-01 -7.183058e-01  1.185922e+00 -5.858510e-01
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##  [23855,]  1.789351e-01  6.033316e-01 -1.973015e-01 -1.144463e-01
##  [23856,] -6.826043e-01 -7.033641e-01 -1.555408e+00 -6.419911e-01
##  [23857,] -3.976331e-01  2.758022e-01 -7.925164e-02  2.247608e-01
##  [23858,]  7.872060e-01 -7.464847e-01  1.123460e+00  1.464216e+00
##  [23859,]  5.611773e-01 -9.286401e-01  1.277722e+00  9.743156e-01
##  [23860,]  9.909152e-01 -2.889891e-01 -1.823834e+00  1.731383e+00
##  [23861,]  2.991515e-01  1.409058e-01 -1.748792e+00 -7.698873e-03
##  [23862,] -5.682468e-01  2.000935e-01  1.694944e-01 -2.037358e-01
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##  [23864,]  1.723796e-01 -8.943536e-01 -1.629513e+00  1.220647e+00
##  [23865,] -3.454492e-01  9.233726e-01 -1.183640e+00 -1.238992e+00
##  [23866,]  1.460695e-01 -9.928121e-01 -7.172732e-01  1.459823e+00
##  [23867,] -2.727569e-01 -2.589231e-01 -5.858764e-01  2.157124e-01
##  [23868,]  1.733730e-01 -1.611468e+00 -2.326639e-01  1.164598e+00
##  [23869,]  2.488048e-01 -3.671062e-01 -3.708069e-01  1.787500e+00
##  [23870,] -1.206716e+00 -1.066252e+00 -1.751107e+00 -1.549379e-01
##  [23871,]  4.992729e-01 -7.352321e-03 -1.604774e+00 -8.563782e-01
##  [23872,]  1.279951e+00  6.152615e+00 -2.766261e-02  1.663351e+00
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##  [23875,]  8.410332e-01 -6.454049e-01  4.699540e-01 -2.493210e-01
##  [23876,]  2.643208e-01 -7.556007e-01 -7.574160e-01 -1.527233e-01
##  [23877,] -1.811665e-01  2.646912e-01  1.845676e-02 -1.057785e+00
##  [23878,] -7.848147e-01  2.853033e-01  7.178594e-01  7.890771e-02
##  [23879,]  1.114420e-01 -1.436852e+00  1.226054e+00 -5.802791e-01
##  [23880,]  9.637557e-01  9.821521e-02 -1.101509e+00 -1.327360e-01
##  [23881,]  2.713646e-01  1.617618e+00 -5.546918e-01  2.752845e-01
##  [23882,]  5.777124e-01 -1.041395e+00  1.310260e+00 -7.998119e-01
##  [23883,] -6.129504e-01 -3.932760e-01 -1.247434e+00 -6.349037e-01
##  [23884,]  6.352863e-01 -1.058918e+00 -1.235575e+00 -7.493070e-01
##  [23885,] -3.926719e-01  2.126764e-01  6.871411e-02 -1.155238e+00
##  [23886,]  6.234451e-01 -7.752314e-01  8.183212e-01 -5.630141e-01
##  [23887,]  1.702058e-01  8.023222e-01  1.375756e-01 -3.820939e-01
##  [23888,] -1.191023e+00 -8.631666e-02  1.069225e+00 -4.035856e-01
##  [23889,]  3.253357e-02 -1.510228e+00  1.336088e+00  1.253725e+00
##  [23890,]  1.020222e+00  3.430436e+00  1.392298e+00 -9.311028e-01
##  [23891,] -4.241152e-01  2.069436e-01  1.542470e+00 -1.447364e+00
##  [23892,]  1.512349e-01  7.246153e-01 -6.186316e-01 -3.035352e-01
##  [23893,] -1.130408e+00  3.449790e-01  1.142322e+00 -7.457913e-01
##  [23894,] -5.489718e-01 -4.082474e-01 -1.456425e+00 -2.578922e-01
##  [23895,] -6.743423e-01 -3.499717e-01  2.099134e-01  2.081097e+00
##  [23896,]  4.641678e-01 -3.023226e-01  6.324283e-01 -1.000953e+00
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##  [23897,]  1.453611e+00  8.063176e-02  9.355332e-01 -2.679377e-01
##  [23898,]  1.138879e+00 -1.126149e+00  1.534613e-01  8.489336e-01
##  [23899,] -1.443307e+00  1.267427e+00 -1.820456e+00 -7.383462e-02
##  [23900,] -4.220217e-01 -2.983930e-01 -4.285433e-01 -1.900829e-01
##  [23901,] -1.574283e+00  1.140583e+00  8.075700e-01 -7.539479e-01
##  [23902,] -3.293952e-01 -8.539402e-01 -1.587689e+00  1.796225e+00
##  [23903,]  1.243644e+00 -3.392819e-01  1.115731e+00 -4.885425e-01
##  [23904,] -1.218843e-01  7.627955e-02 -2.686347e-01 -1.010765e+00
##  [23905,]  1.243733e+00 -7.701474e-01 -3.327647e-01 -9.160546e-01
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##  [23908,] -3.535752e+00  6.868767e-01  1.115608e+00 -5.857196e-01
##  [23909,] -9.382260e-02  1.683765e+00  1.029713e+00  1.343755e+00
##  [23910,] -6.546461e-01 -1.126847e+00 -1.788734e+00 -4.241316e-01
##  [23911,] -6.859321e-01  2.560216e+00 -5.564490e-01 -5.679587e-01
##  [23912,] -2.077858e-03 -1.191172e+00  1.360977e+00  1.110529e+00
##  [23913,]  5.960257e-01 -1.040959e+00 -2.742674e-01  1.130681e+00
##  [23914,]  9.324457e-02  3.886002e-01 -1.465416e+00 -6.196156e-01
##  [23915,]  3.182734e-01 -2.472346e-01  9.368108e-01  1.868680e+00
##  [23916,]  1.594190e-01 -1.226271e+00  8.271848e-01  1.478582e+00
##  [23917,] -5.501573e-01  1.365080e+00 -8.088871e-02 -5.313027e-01
##  [23918,] -5.324296e-01 -5.816262e-01 -8.576489e-01 -8.799133e-05
##  [23919,]  1.325310e+00 -3.220497e-01  9.026610e-01  1.181787e+00
##  [23920,]  1.484457e-01 -1.326055e+00 -1.281270e+00 -6.997054e-01
##  [23921,]  6.550553e-01 -4.341756e-01  1.119458e+00 -5.367142e-01
##  [23922,] -2.999378e-01  5.990811e-01 -9.620509e-02 -1.137701e+00
##  [23923,]  8.120640e-01 -9.718025e-01 -1.014744e-01 -6.800328e-01
##  [23924,] -2.280510e+00 -5.071582e-01 -1.203284e+00 -8.838132e-01
##  [23925,] -4.224690e-01  5.399019e-02 -2.214235e+00  8.863347e-02
##  [23926,] -8.061682e-01  7.382450e-01  3.180201e-01 -9.312275e-01
##  [23927,]  7.543415e-01 -5.529044e-01 -5.656893e-01 -3.639517e-01
##  [23928,]  4.797435e-01 -2.940424e-01  7.407501e-01  2.126599e+00
##  [23929,] -1.109221e-01  7.337706e-01  8.353405e-01  1.175031e+00
##  [23930,]  1.632776e-01 -3.849413e-01  8.379959e-01  1.096774e-01
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##  [23932,] -1.449825e+00 -1.581134e+00 -1.704249e+00 -4.681113e-01
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##  [23934,]  1.098943e+00  7.244469e-01  6.327520e-01  2.337019e-01
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##  [23936,]  2.599674e-01 -7.299522e-01 -1.103283e+00  1.489275e+00
##  [23937,]  1.987037e-02 -1.244876e+00 -1.453546e+00 -1.020904e+00
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##  [23939,]  2.238746e-01 -4.620749e-01 -3.952291e-01  1.404238e+00
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##  [23946,]  3.886893e-01 -6.352665e-01 -4.932429e-01  1.734275e-02
##  [23947,]  7.779474e-01 -1.708339e-01 -5.223931e-01 -6.760162e-01
##  [23948,] -3.305420e-01 -5.961796e-02  2.524027e-02  1.169862e-01
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##  [23954,]  1.369596e-01 -1.197490e+00 -1.079437e+00 -4.346687e-01
##  [23955,] -7.715747e-01 -1.489320e+00 -4.532331e-03 -7.011950e-01
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##  [23962,] -1.379178e+00  3.336158e-04 -1.483335e+00  1.557433e-01
##  [23963,]  5.382816e-02 -5.205331e-01  1.071018e+00 -3.940566e-01
##  [23964,]  5.923686e-01 -7.592424e-01 -1.034060e+00  1.038775e+00
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##  [23967,]  6.905322e-03  8.539061e-01 -2.442588e-01 -6.314160e-01
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##  [23969,] -7.081720e-01 -1.721152e-01  8.869929e-01 -1.310161e-01
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##  [23974,] -6.102647e-01 -9.099909e-01  1.203021e+00 -6.392539e-01
##  [23975,] -5.188204e-01 -5.285164e-01 -1.628677e+00  1.819134e+00
##  [23976,]  8.055871e-01 -1.481443e-01 -2.041155e-01 -6.511299e-01
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##  [23980,]  2.028983e-01 -3.238826e-01  4.250727e-01  5.633014e-03
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##  [23996,] -1.514545e+00  1.865783e+00  9.315389e-01 -4.929028e-01
##  [23997,]  6.651112e-01 -1.233881e-01 -1.612178e+00 -5.580264e-01
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##  [24000,]  1.133325e-01 -3.807159e-01 -4.850702e-01 -3.615766e-01
##  [24001,]  1.502950e+00  2.017440e-01  1.116037e+00  1.330194e+00
##  [24002,]  1.073899e-01  2.287316e+00  1.212173e+00 -4.388665e-01
##  [24003,]  1.655354e-01 -9.206385e-01 -1.857902e+00 -3.542764e-01
##  [24004,] -2.065762e+00 -7.887856e-01 -1.331661e+00  9.748673e-01
##  [24005,] -1.381708e+00 -1.818394e+00  1.085424e+00  1.702997e+00
##  [24006,]  2.324041e-01 -1.297072e+00 -1.584621e-01 -4.555597e-01
##  [24007,]  8.192452e-01 -2.361688e-01 -1.578042e-01 -4.902078e-01
##  [24008,]  1.782711e-01 -6.099660e-01 -4.494149e-01 -5.315387e-01
##  [24009,] -7.706880e-01  6.695397e-01  1.127643e+00 -6.604988e-01
##  [24010,]  2.349771e-01 -7.690157e-01  4.713126e-01 -1.363214e-01
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##  [24012,]  3.394879e-02  1.667856e+00  8.574000e-01 -1.997963e-01
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##  [24017,]  2.035229e-02 -2.862471e-01  1.686737e-01 -4.626574e-01
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##  [24020,]  9.093945e-01 -9.159108e-01  1.084699e+00 -4.166224e-01
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##  [24024,]  1.010115e+00  7.170246e-02  7.894681e-01  2.079308e+00
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##  [24039,] -6.686610e-01 -1.238335e+00 -9.605820e-01  1.619095e+00
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##  [24041,] -1.317614e+00 -7.942543e-01 -2.895930e-03 -8.117971e-01
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##  [24057,] -1.381946e-01 -1.192637e+00  3.171831e-01  1.091466e+00
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##  [24101,]  1.753591e-01 -1.073579e-01 -4.078295e-01 -2.690249e-01
##  [24102,]  7.149081e-03 -8.038441e-01  3.542893e-01 -6.806527e-01
##  [24103,] -3.548434e-02 -1.297488e+00 -3.420826e-01 -4.847638e-01
##  [24104,] -1.294806e-01  6.617548e-01 -1.664625e-01 -7.190310e-01
##  [24105,] -1.154727e+00  8.697138e-01 -2.673069e-01 -7.990963e-01
##  [24106,]  2.669033e-01 -5.332651e-01 -1.480682e+00 -1.467910e-01
##  [24107,]  3.187601e-02 -8.824208e-01  1.260372e+00  1.324444e+00
##  [24108,] -5.011458e-01 -8.619729e-01 -5.546626e-01  2.102571e+00
##  [24109,]  5.853932e-02  2.698291e-02 -1.059957e+00 -7.218546e-01
##  [24110,] -4.533157e-01  2.806547e-01  7.888505e-01  8.000039e-02
##  [24111,] -1.332831e-01 -3.809618e-01  1.273417e+00 -8.231877e-01
##  [24112,] -1.641009e+00  9.820659e-01 -1.529973e-01 -1.401452e+00
##  [24113,]  2.134752e-01 -4.595146e-01 -2.443416e-01 -4.020489e-01
##  [24114,]  7.186906e-01 -8.268639e-01  3.685849e-01  1.006062e+00
##  [24115,] -2.517027e-01  4.451071e-01  8.390700e-02 -7.858560e-01
##  [24116,]  2.208061e-01 -1.266684e+00  1.218285e+00  1.379090e+00
##  [24117,]  3.103722e-01 -6.550720e-01 -4.055973e-01 -2.229529e-01
##  [24118,]  2.550656e-01  9.211856e-01 -6.168824e-01 -1.834455e-02
##  [24119,] -2.370471e+00  5.283705e-01 -9.774304e-01  3.311036e-01
##  [24120,] -7.610029e-01 -4.636643e-01 -8.899704e-01 -8.106093e-01
##  [24121,]  5.199650e-01 -1.152570e+00  4.612071e-02 -8.725302e-01
##  [24122,] -1.666580e+00  1.181205e-03 -8.744634e-01 -8.453388e-01
##  [24123,]  1.013060e+00  4.189827e-02  1.040072e+00 -1.130009e+00
##  [24124,]  7.995857e-02 -1.123288e+00  1.319113e+00 -7.773924e-01
##  [24125,]  2.718262e-01  6.771307e-02  9.486009e-01 -1.835948e-01
##  [24126,]  7.996436e-02 -5.802591e-01 -1.794931e+00 -5.201257e-01
##  [24127,]  5.190611e-01 -1.264078e-01 -6.484904e-01  3.784375e-01
##  [24128,] -2.827987e+00  3.885480e-01 -1.837336e+00 -5.291278e-01
##  [24129,]  3.521511e-01  6.129241e-01  6.364275e-01  3.381168e-01
##  [24130,]  4.127527e-01 -7.586242e-01  8.302388e-01  7.542731e-02
##  [24131,] -5.704430e-01 -1.275686e+00 -1.493882e+00  1.370053e+00
##  [24132,]  6.800722e-02 -1.256819e+00  1.283605e+00  1.270844e+00
##  [24133,]  1.327296e+00 -9.673083e-02 -1.855828e+00 -5.319449e-01
##  [24134,] -2.069150e-01 -3.284391e-01 -2.287406e+00  3.319513e-01
##  [24135,] -3.822930e-01 -1.107883e+00 -1.361973e+00  1.661786e+00
##  [24136,]  4.035728e-02 -2.191411e-01 -4.532831e-01 -2.051906e-01
##  [24137,]  2.003275e-01 -8.665755e-01 -2.359710e-01  1.519184e+00
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##  [24139,]  3.112532e-01 -6.445826e-01 -1.858894e+00  1.592489e+00
##  [24140,]  1.657561e-01 -9.265706e-01 -1.215298e+00 -5.926287e-01
##  [24141,]  1.097935e+00  1.047530e+00  3.201115e-01 -6.647888e-01
##  [24142,] -2.704087e-01 -5.285012e-01 -2.259763e+00  3.617057e-01
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##  [24144,]  1.274166e+00 -7.025072e-01  1.308123e+00 -8.084680e-01
##  [24145,] -4.419281e-01  7.784681e-01  9.498101e-01 -3.188805e-01
##  [24146,] -4.311370e-01 -8.920017e-01 -2.267176e-01 -2.545729e-01
##  [24147,]  1.238047e-01 -4.950311e-01 -1.529751e+00 -3.862243e-01
##  [24148,] -2.448790e-01  7.868610e-01  1.373159e+00 -1.125785e+00
##  [24149,]  1.051873e+00  2.576728e+00 -1.630379e+00  7.875072e-01
##  [24150,]  1.236407e+00 -6.805639e-01  1.148552e+00 -5.390123e-01
##  [24151,] -1.206940e+00 -1.103451e+00 -3.772397e-01 -1.020935e-01
##  [24152,] -9.102981e-01  7.938036e-01  1.288292e+00 -9.573840e-01
##  [24153,] -6.242145e-01  5.978408e-01  1.317450e+00 -9.448638e-01
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##  [24156,] -1.289497e+00  3.253793e-01 -3.535684e-01  2.051554e+00
##  [24157,]  1.321465e+00 -4.057437e-02 -1.552956e+00 -3.322181e-01
##  [24158,]  8.931711e-01  9.166583e-01  2.193032e-01  1.573040e+00
##  [24159,]  8.378672e-01  1.337338e-01  9.053706e-01 -1.501585e-01
##  [24160,]  9.940969e-02  1.245924e+00 -4.399554e-01 -4.884586e-01
##  [24161,] -1.091235e-01 -6.827107e-01  1.282294e+00 -8.006018e-01
##  [24162,]  1.585572e+00  9.342332e-02 -1.133476e-01 -3.415584e-01
##  [24163,]  8.083436e-01 -1.346766e-01 -1.899687e+00 -8.668511e-02
##  [24164,] -1.570444e-01  3.194344e-02  1.382774e-01 -1.147744e+00
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##  [24177,] -4.754973e-01 -1.305244e+00 -5.693184e-01 -2.072091e-01
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##  [24181,] -4.055441e-01  1.465405e+00 -1.506794e+00 -1.339132e+00
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##  [24183,] -3.093541e-01  6.396028e-01  1.033017e+00 -8.819577e-01
##  [24184,] -3.203187e+00 -5.508689e-01 -1.162700e+00 -6.116465e-01
##  [24185,]  1.048192e-02  4.183710e-01  9.830004e-01  1.670579e+00
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##  [24188,] -9.431596e-01 -7.492302e-01  1.655598e-01 -1.223855e+00
##  [24189,] -1.968718e+00 -1.011842e+00 -2.258872e-01  1.821165e+00
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##  [24197,] -1.760766e+00  4.751229e-01 -1.094147e-01  1.058265e+00
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##  [24200,] -4.312649e-01 -1.000803e+00  1.031769e+00 -2.334743e-01
##  [24201,] -8.350655e-01 -4.542751e-01  1.336702e+00 -9.166729e-01
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##  [24205,] -2.956804e-01 -9.417564e-01  1.889901e-01  1.918606e+00
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##  [24207,] -1.769051e+00  3.832442e-01 -2.939861e-01  4.371289e-02
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##  [24212,] -7.622236e-01  6.870813e-01  1.251246e+00 -8.826939e-01
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##  [24214,]  3.001397e-01 -2.985434e-01  8.290031e-01  1.276372e-02
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##  [24216,] -1.674622e+00 -8.155205e-01 -1.373671e+00 -6.040345e-01
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##  [24218,]  7.533869e-01 -7.512014e-01 -1.567825e+00 -2.886447e-01
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##  [24226,]  3.809591e-02 -4.441260e-01 -2.686391e-01 -4.334742e-01
##  [24227,]  7.397184e-01 -7.360527e-02  9.510353e-01 -2.849173e-01
##  [24228,]  7.906473e-01 -7.920345e-01  1.051862e+00 -3.615073e-01
##  [24229,]  6.205083e-01  7.575127e-01 -1.912013e+00 -5.441104e-01
##  [24230,]  1.467137e+00 -1.272495e-01 -6.773556e-01  1.737439e+00
##  [24231,]  4.674204e-01  2.098921e+00  8.471463e-01  1.003343e+00
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##  [24233,] -2.655148e+00  2.009847e-02 -1.504078e+00 -5.324269e-01
##  [24234,] -3.187782e-01  9.132191e-01  9.353928e-02 -1.151346e+00
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##  [24285,]  1.548102e-01 -1.178253e+00 -1.314700e+00 -6.647544e-01
##  [24286,] -5.141186e-01  2.760997e-01  1.549436e+00 -1.425151e+00
##  [24287,] -1.351227e+00  1.429087e+00  8.597632e-01 -1.779110e-01
##  [24288,] -3.535674e-01 -3.039860e-01 -6.353153e-01  2.496258e-01
```

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## [24289,]  7.463921e-01  8.105524e-01  2.321019e-01  1.629781e+00
## [24290,] -2.497995e-01  1.138348e+00  3.229909e-01  4.704540e-01
## [24291,]  3.252357e-01 -1.632561e-01  7.468021e-01 -9.165638e-02
## [24292,]  1.062654e+00 -1.140095e+00  1.601147e+00  7.813541e-01
## [24293,]  8.342009e-01 -2.570727e-01  6.732761e-01  7.388171e-03
## [24294,]  5.015176e-01  1.358980e+00  1.085690e+00 -6.972062e-01
## [24295,] -4.613227e-01  7.600798e-01  6.940784e-01  1.540615e+00
## [24296,] -3.072966e-01 -3.083961e-01  8.270617e-01  1.986736e+00
## [24297,] -6.281038e-01  1.473420e+00 -5.661079e-01 -5.294695e-01
## [24298,]  1.334842e-01  2.209263e-01 -5.337973e-01 -5.299328e-01
## [24299,]  7.039137e-01 -1.133925e+00  1.346216e+00 -8.390778e-01
## [24300,]  7.961750e-01  2.160052e+00 -2.214864e-01 -1.608135e-01
## [24301,]  2.320701e-01  6.385843e-01  4.678563e-01 -6.113810e-02
## [24302,] -8.602851e-01  3.599096e+00 -3.236513e-01  9.368030e-01
## [24303,] -3.337766e-02 -1.336165e+00 -8.042284e-01  1.331286e+00
## [24304,] -4.266794e-01  4.320081e-01  1.032251e+00 -1.458848e+00
## [24305,]  1.248735e+00 -1.823259e-01 -6.045769e-01 -4.820983e-01
## [24306,]  6.790961e-02 -8.198018e-01 -1.865939e-01  1.280091e+00
## [24307,] -1.268993e+00  7.742104e-01  9.860285e-01 -4.655640e-01
## [24308,]  8.225374e-01  1.399902e-01 -1.922719e+00 -1.202349e-01
## [24309,]  6.688154e-01 -5.847241e-01  1.263018e+00  1.193984e+00
## [24310,]  7.055349e-01 -1.782041e-01 -3.345700e-01 -7.822544e-01
## [24311,]  7.339146e-01 -5.853312e-01  1.034109e+00  1.581223e+00
## [24312,]  7.242967e-01 -4.287093e-01  1.017192e+00 -3.641827e-01
## [24313,]  1.679587e-01 -7.515915e-02  8.388397e-01 -5.576887e-02
## [24314,]  3.776128e-01  3.379960e-01  3.597344e-01 -1.163743e+00
## [24315,]  7.147920e-01 -4.789269e-01 -1.601587e+00 -9.147183e-01
## [24316,] -2.093026e+00 -6.711224e-02  6.186946e-01 -2.125658e-01
## [24317,]  9.435599e-01  4.125756e-01 -1.444296e+00 -1.215708e+00
## [24318,] -2.462366e+00 -1.587020e-01 -3.551819e-01  2.102994e+00
## [24319,] -2.111179e-01  7.121536e-01  7.959707e-01 -1.310111e+00
## [24320,]  1.288064e+00 -1.398202e-01  7.481063e-02 -6.038700e-01
## [24321,] -5.739219e-01 -1.215022e+00 -1.243192e+00 -4.401798e-01
## [24322,]  1.589827e-02  2.818801e+00  4.805311e-01 -7.790196e-01
## [24323,]  7.597945e-01 -8.619819e-01 -3.612001e-01 -2.366476e-01
## [24324,] -2.727460e+00  7.297062e-02 -1.363995e-01 -7.752826e-01
## [24325,] -6.565189e-01  8.256014e-01 -3.931366e-01 -4.289578e-01
## [24326,]  4.689977e-01 -1.841774e-01  1.365301e+00 -1.060456e+00
## [24327,]  3.436653e-01 -2.653393e-02  9.923404e-01  1.789945e+00
## [24328,]  9.343740e-02  6.454773e-01  1.273329e+00 -8.823925e-01
## [24329,]  5.711157e-01 -7.091652e-01  1.390006e+00  1.037610e+00
## [24330,]  8.581566e-02 -1.154417e+00 -2.196482e-01 -4.081667e-01
## [24331,] -4.694492e-01 -7.106810e-01 -2.024622e+00 -1.256883e-01
## [24332,]  3.022526e-01 -4.966000e-01  9.138692e-01 -2.716921e-02
## [24333,] -4.769985e-02  1.308766e+00 -2.646289e-01 -7.527962e-01
## [24334,]  7.805655e-02 -8.929786e-01 -5.329287e-01 -1.650835e-01
## [24335,]  9.667386e-02  1.258070e+00 -1.768252e-01 -2.361158e-01
## [24336,] -6.667296e-01  1.888366e+00 -4.047655e-02 -6.475613e-01
## [24337,]  8.582337e-01 -3.650284e-01  8.951560e-01  1.801131e+00
## [24338,] -2.711662e+00  1.585692e-01 -1.760381e+00 -3.302750e-01
## [24339,] -1.427448e-01  9.862596e-01  1.238310e-01 -8.324438e-01
## [24340,]  2.692864e-02  4.547574e-02  9.303905e-01  1.694381e+00
## [24341,] -1.342947e+00  1.653932e+00 -3.780377e-01 -4.279111e-01
## [24342,]  6.068550e-01 -5.962228e-01 -3.926649e-01 -6.285831e-01
## [24343,] -6.674996e-01  8.016969e-01 -5.289497e-01  1.382402e+00
## [24344,] -1.694822e+00  2.091027e-01 -8.436727e-02 -8.268448e-01
## [24345,]  1.941595e-01  4.471042e-02  2.464416e-01 -1.497316e+00
## [24346,] -7.404008e-01  5.761330e+00 -2.555554e-01  2.006559e+00
## [24347,] -2.006842e+00  2.093199e-01 -6.097405e-01 -2.415794e-01
## [24348,]  2.421402e-01 -1.133083e+00 -1.502130e-01  1.426884e+00
## [24349,] -5.189742e-01 -5.499428e-01  1.129026e-02 -4.189216e-01
## [24350,] -2.151595e+00  1.653529e-01 -1.152756e+00 -4.646800e-01
## [24351,] -7.344181e-01 -6.074524e-01 -3.818987e-02 -9.641933e-01
## [24352,] -1.405852e+00  6.993414e-01  1.214852e+00  1.391542e+00
## [24353,] -8.571383e-01 -1.970478e-02  1.631382e+00  4.214271e-01
## [24354,] -2.049711e+00  1.777562e-01  1.028872e+00  1.645880e+00
## [24355,] -1.331052e+00 -5.547179e-01  6.496607e-01 -3.174147e-01
## [24356,] -1.432992e+00 -2.508825e+00 -3.998004e-03  1.360890e+00
## [24357,] -1.116106e+00  4.198393e-01  9.721536e-01  1.668858e+00
## [24358,]  1.977504e-01 -3.686988e-01 -1.807284e+00  1.370970e+00
## [24359,] -4.810027e-01  3.056172e-01  3.019051e-01 -3.822576e-01
## [24360,]  8.456641e-01 -2.601754e-01  7.262645e-01 -1.677579e-01
## [24361,] -1.720174e+00  5.002532e-01  1.129461e-01 -1.193185e+00
## [24362,]  7.974457e-01  2.795037e-01 -5.538025e-02  1.814834e+00
## [24363,]  2.174262e-01 -3.780818e-01 -6.145188e-01  1.778642e+00
## [24364,]  7.191473e-01 -4.932790e-01  1.126225e+00 -5.066679e-01
## [24365,] -2.520205e+00 -5.104428e-01  1.158186e+00 -3.258239e-01
## [24366,]  8.210816e-02 -5.210022e-01 -2.743502e-01 -3.504096e-01
## [24367,] -2.661653e+00 -5.073430e-01  1.249143e+00  1.218394e+00
## [24368,]  1.972140e-01 -1.088055e+00  1.304935e+00  1.315222e+00
## [24369,]  1.000954e+00  2.773687e-01 -5.540929e-01  3.035116e-02
## [24370,] -3.022577e+00 -8.608591e-01  3.156732e-01 -1.788516e-01
## [24371,] -2.173981e-01 -5.921833e-01 -1.571021e+00 -8.985226e-01
## [24372,] -6.417065e-01  1.214673e+00  9.773067e-01 -5.112423e-01
## [24373,]  1.780841e-01  1.120053e+00 -1.016019e-01  2.412151e-01
## [24374,] -1.400962e+00 -4.776218e-01 -6.231371e-01 -1.004285e+00
## [24375,] -1.135440e+00  1.673309e-01  8.388447e-01 -1.614494e-02
## [24376,]  2.008190e-01 -6.850320e-01  1.105031e+00 -4.327159e-01
## [24377,] -4.485194e-01 -1.887330e+00 -1.271984e-01  1.445322e+00
## [24378,] -9.340004e-01 -6.221283e-01 -1.648723e+00 -8.076000e-01
## [24379,]  6.826254e-01 -2.021778e-01  9.749001e-01 -3.255179e-01
## [24380,] -7.062554e-01  2.125064e-01 -1.950115e+00 -3.721362e-01
## [24381,] -3.732372e-01  2.498766e-01 -1.881415e-02 -4.108384e-01
## [24382,] -7.893638e-01 -6.137985e-01  1.884458e-02 -1.092796e+00
## [24383,]  1.633574e-01 -2.860720e-01 -1.943433e-01 -1.211136e-01
## [24384,]  7.159382e-01  5.022538e-01  9.287631e-01 -3.716624e-01
## [24385,] -1.794268e+00  4.310694e-01 -2.764336e-01 -8.610660e-03
## [24386,]  7.297090e-01  3.376275e-01  9.883912e-01 -3.773811e-01
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##  [24387,] -2.074906e+00 -2.110688e-01 -1.721102e+00 -2.539058e-01
##  [24388,] -2.381981e+00  9.714172e-01 -2.380285e-01 -7.552899e-01
##  [24389,]  2.132332e-01  2.481120e-01  7.292358e-01  9.517950e-02
##  [24390,]  6.626181e-02 -5.906296e-01 -1.670047e+00 -6.810764e-01
##  [24391,]  6.787933e-01 -5.629785e-01  1.925562e-01 -4.209347e-01
##  [24392,] -1.497998e+00 -5.706378e-01  9.182449e-01  1.766204e+00
##  [24393,]  1.674229e-01 -1.316204e+00 -1.038420e+00 -4.871381e-01
##  [24394,]  1.381379e-01 -9.032785e-01 -5.310816e-01 -3.501187e-02
##  [24395,] -1.449826e+00  3.733985e-01  1.995877e-01  1.055173e+00
##  [24396,]  7.393330e-01  5.749187e-02 -1.863063e+00 -2.214389e-01
##  [24397,]  1.182950e+00 -1.723990e-01  6.241137e-01  3.371211e-01
##  [24398,] -1.952386e-03  1.232205e-01  1.109369e+00 -5.601200e-01
##  [24399,]  4.930040e-01  3.279210e-01  1.193094e+00 -8.262939e-01
##  [24400,] -2.344827e+00  2.003842e-01  2.808066e-01  2.031115e+00
##  [24401,] -7.275705e-02 -7.455250e-01  1.279651e-02 -8.616027e-01
##  [24402,]  3.442964e-01 -3.476913e-01  8.750671e-01 -4.526474e-02
##  [24403,]  2.613002e-01  3.409224e-01 -3.888630e-01  1.780254e+00
##  [24404,]  2.813545e-01  4.605148e-02 -1.807813e+00  4.139928e-01
##  [24405,] -2.295070e+00 -1.166935e-01  1.345508e+00  1.120074e+00
##  [24406,]  1.329368e+00 -1.875994e-03 -1.881483e+00  1.521202e+00
##  [24407,]  6.584194e-01 -2.123277e-01 -1.336465e+00 -4.504418e-01
##  [24408,] -1.392891e+00  1.175390e+00  1.133714e+00 -7.321430e-01
##  [24409,] -2.281140e+00  1.632615e+00 -3.795175e-01 -6.024441e-01
##  [24410,]  5.333140e-01  4.884681e-01  1.132657e+00  1.140155e+00
##  [24411,]  2.630687e-02 -7.937059e-01 -1.229475e+00 -9.197102e-01
##  [24412,] -5.257485e-01 -8.337967e-01  6.024842e-01 -4.584598e-01
##  [24413,] -2.365292e+00  1.048374e-01 -1.242189e+00  1.966996e+00
##  [24414,] -1.587100e+00  8.839348e-02  6.449637e-01 -5.972193e-01
##  [24415,] -6.118431e-01 -4.281342e-01  9.919729e-01 -3.545726e-01
##  [24416,]  8.295877e-01  5.057151e-01 -6.620624e-01 -1.948369e-01
##  [24417,]  9.190813e-01  6.247532e-01 -2.361422e-01  1.988720e-01
##  [24418,]  6.403767e-01  8.423133e-01 -4.561376e-01 -3.689623e-01
##  [24419,] -6.370382e-01 -8.839531e-01 -1.806248e-01 -3.176057e-01
##  [24420,]  7.385638e-01  8.634607e-01 -1.221704e-01 -1.568393e-01
##  [24421,] -7.208676e-02 -1.434292e+00  1.296687e+00 -5.903829e-01
##  [24422,]  4.547572e-02 -7.300824e-01  7.667655e-01 -8.247572e-01
##  [24423,] -2.753192e+00 -5.844266e-01  1.277481e+00 -6.884649e-01
##  [24424,] -1.368889e-01 -7.434214e-01 -1.366772e+00 -1.323552e+00
##  [24425,]  9.227549e-02 -4.055065e-01 -1.899600e+00  1.497201e+00
##  [24426,] -8.976842e-01  1.195087e-01 -9.018920e-01  4.646615e-01
##  [24427,] -1.632968e+00  5.937486e-01  1.297726e+00 -6.781218e-01
##  [24428,] -1.460762e+00  1.700352e+00 -1.244594e+00 -8.807887e-01
##  [24429,]  1.175820e-01 -1.545137e+00  1.436768e+00  1.079162e+00
##  [24430,]  4.159512e-01  3.142542e-01  1.267048e+00  9.388771e-01
##  [24431,] -4.714694e-01 -1.122013e+00 -2.277796e-01  1.669751e+00
##  [24432,] -2.818446e-01  2.209516e-01  7.718262e-01 -1.254418e+00
##  [24433,]  1.159749e+00  6.458010e-01 -4.352887e-02 -8.252439e-01
##  [24434,]  1.544494e-02 -1.291531e+00  5.202599e-03 -8.143352e-01
##  [24435,]  4.299829e-01  1.360040e+00 -4.728876e-01 -8.069080e-01
##  [24436,] -5.407361e-01  6.368701e-01  1.009262e+00 -3.655511e-01
##  [24437,] -1.268705e+00 -2.128986e-01  2.812810e-01 -8.715374e-01
##  [24438,] -6.736453e-01 -1.237951e+00 -1.544693e+00  1.366370e+00
##  [24439,]  3.164836e-01  1.645250e-02 -7.339964e-01 -1.143678e-01
##  [24440,] -4.617623e-01  1.206000e+00  1.076872e+00  1.357566e+00
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##  [24442,]  1.405408e-02 -9.224873e-01 -3.347554e-01 -5.594635e-01
##  [24443,]  2.070882e-01 -1.210716e+00 -3.676393e-01 -5.469945e-01
##  [24444,]  7.431366e-01  4.909495e-01 -6.538276e-01 -1.900462e-01
##  [24445,]  1.777429e-01 -5.467292e-01  7.316356e-01  1.597363e+00
##  [24446,]  8.399038e-01 -5.322914e-02 -2.287049e-01 -5.141029e-01
##  [24447,]  3.295507e-02 -4.114945e-01  1.046620e+00 -4.186925e-01
##  [24448,] -5.876650e-02 -5.134118e-01  7.638398e-01 -4.450770e-01
##  [24449,]  1.444059e+00  3.532481e-01  8.690626e-01 -1.363461e-01
##  [24450,] -5.963541e-01 -1.228674e-01 -2.196689e-01 -6.368395e-01
##  [24451,] -1.349522e+00  5.918021e-01 -2.111858e+00 -1.353025e-02
##  [24452,]  7.734284e-01 -1.025563e+00  1.173456e+00  1.399358e+00
##  [24453,]  2.342789e-01 -9.792527e-01  1.360228e-01 -2.592418e-01
##  [24454,] -1.366178e+00 -1.084410e+00 -1.938422e+00 -1.854066e-01
##  [24455,] -1.667121e+00 -6.811789e-01 -3.345462e-01 -7.377259e-01
##  [24456,] -5.283393e-01  2.804969e-01  1.040967e+00 -3.780766e-01
##  [24457,] -2.352311e+00  1.674661e+00 -4.802528e-01 -6.819131e-01
##  [24458,]  6.638814e-01 -1.232033e+00  1.341628e+00  1.199288e+00
##  [24459,]  7.590207e-01 -1.543421e-01 -1.202648e+00  1.380254e+00
##  [24460,]  9.626162e-01  9.668787e-01  7.236382e-01  4.052487e-02
##  [24461,] -1.180975e-01 -1.046136e+00 -7.542692e-01 -1.039718e+00
##  [24462,]  5.939127e-01 -8.034240e-01  1.195184e+00 -6.208961e-01
##  [24463,] -9.251730e-03 -1.398040e+00  1.178494e+00 -4.226490e-01
##  [24464,]  6.957628e-01 -5.342301e-01 -3.299476e-01 -3.498975e-01
##  [24465,] -2.389812e+00 -8.991164e-01 -2.032015e+00 -2.607644e-02
##  [24466,] -5.507657e-01 -9.794425e-01  8.900311e-01 -5.964215e-02
##  [24467,]  1.270637e+00 -1.413410e-01 -1.800640e+00 -4.871309e-01
##  [24468,]  5.183823e-01  1.527119e+00  6.687240e-01 -5.506087e-01
##  [24469,]  4.003941e-01 -5.181687e-01  7.658111e-01  9.110059e-02
##  [24470,] -7.551937e-02  2.584117e+00 -1.915350e+00 -5.547520e-01
##  [24471,]  7.313465e-01 -3.741808e-01 -1.753357e+00 -3.068792e-01
##  [24472,]  7.984872e-01  2.744664e-01  2.466522e-01 -5.909167e-01
##  [24473,] -7.229878e-01  1.145335e+00  9.609583e-01 -4.737208e-01
##  [24474,]  1.070492e+00  1.140719e+00  1.128008e+00 -7.264643e-01
##  [24475,]  4.604312e-01  3.700986e-01  1.348889e+00 -1.031416e+00
##  [24476,] -1.052053e-01  4.781120e-02  1.663819e-01 -7.519876e-01
##  [24477,] -8.554386e-01 -1.197793e-01  2.593171e-02 -9.818775e-01
##  [24478,]  4.299279e-01  6.276760e-01 -2.291207e+00  3.407102e-01
##  [24479,] -2.782343e+00 -1.792772e-01 -6.783074e-01 -9.264198e-01
##  [24480,]  2.132395e-01 -2.472841e-01 -6.808456e-01  2.815885e-03
##  [24481,]  1.090367e+00 -1.256745e+00  1.705547e-01  8.453406e-01
##  [24482,] -8.499811e-01  1.071546e+00 -2.560163e-01 -1.060885e+00
##  [24483,] -8.696477e-01  1.500269e+00  2.927818e-01  1.015849e+00
##  [24484,]  2.198901e-01 -1.616135e-02 -3.031278e-01  4.784234e-02
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##  [24485,]  1.399259e-01 -1.079655e+00 -6.475585e-02 -6.546844e-01
##  [24486,]  3.237491e-01  9.524246e-01 -1.601748e+00 -1.133409e+00
##  [24487,] -7.290464e-01  1.058575e+00 -1.709693e+00  1.013375e+00
##  [24488,] -2.041936e+00  2.624313e-01 -4.370911e-01 -1.566920e-01
##  [24489,]  8.791658e-01 -5.470919e-01  8.927222e-01 -4.493099e-01
##  [24490,]  1.026441e+00  5.615985e-01 -1.670908e+00 -9.623466e-01
##  [24491,]  9.924888e-01 -2.570482e-01  8.820656e-01  1.809433e+00
##  [24492,]  6.872848e-01 -4.081998e-01 -3.462772e-01 -8.307335e-01
##  [24493,] -7.344561e-01  1.168911e+00 -3.934067e-01 -8.213967e-01
##  [24494,]  2.414714e-01 -6.859253e-01 -7.038331e-02  1.568421e+00
##  [24495,] -9.316624e-01 -7.457932e-01 -9.923958e-01 -1.019340e+00
##  [24496,]  8.382952e-01  5.860844e-01 -4.257105e-01  1.912868e+00
##  [24497,]  6.111209e-01 -4.228755e-01 -2.181263e-01 -5.476296e-01
##  [24498,] -3.358453e+00 -1.062154e+00 -2.116322e-01 -6.851189e-01
##  [24499,] -2.758855e+00 -2.639739e-01  1.129285e+00 -4.455448e-01
##  [24500,] -9.149028e-01  2.344052e+00  6.758459e-01 -8.662853e-01
##  [24501,]  4.137294e-01  3.921742e-01  1.268537e+00 -9.146666e-01
##  [24502,]  2.561944e-01  5.553131e-01  7.674440e-01  1.886024e-01
##  [24503,]  5.946070e-01 -8.023906e-01 -1.579241e+00 -9.141781e-01
##  [24504,] -1.463136e+00  5.242593e-01  1.121509e+00  1.298822e+00
##  [24505,] -1.725714e+00  3.969555e-01  7.534510e-01 -6.859742e-01
##  [24506,] -2.997541e-01  1.078790e-01 -2.296634e-01  1.998976e+00
##  [24507,]  7.611738e-01  8.275340e-01  9.270542e-01 -4.373747e-01
##  [24508,] -1.233818e+00  1.578108e+00  7.902473e-01 -9.056217e-02
##  [24509,] -1.296053e+00  4.286701e-01 -8.606962e-01  1.205418e+00
##  [24510,] -1.399114e+00 -4.073474e-01 -1.436718e-01  1.317269e+00
##  [24511,]  7.478398e-01  2.828656e-02  7.616729e-01 -2.623697e-01
##  [24512,] -1.297264e-01 -1.552076e-02  1.135366e+00 -5.445255e-01
##  [24513,] -6.449037e-02 -1.591944e+00 -8.824973e-02 -5.849651e-01
##  [24514,] -8.547012e-01  6.609273e-01  1.321897e-01 -1.301365e+00
##  [24515,] -1.786751e+00  5.823524e-01 -1.186793e+00 -1.293057e-02
##  [24516,]  8.096461e-01 -3.888457e-01 -4.442153e-01 -5.541546e-01
##  [24517,] -5.666165e-01  5.087084e-01  1.022484e+00 -4.304107e-01
##  [24518,]  1.106844e-01 -1.580225e+00 -9.187489e-02 -6.137568e-01
##  [24519,]  9.912504e-01  4.596794e-01 -1.914805e+00  2.099684e-01
##  [24520,]  6.216602e-01 -8.071253e-01  1.745818e-01 -7.014238e-01
##  [24521,] -2.034578e+00 -1.233140e+00 -1.753234e+00 -3.508296e-01
##  [24522,] -8.018346e-01  1.343319e+00 -6.692910e-02 -7.246342e-01
##  [24523,]  6.825537e-01 -1.055821e+00 -4.857199e-01 -5.829174e-01
##  [24524,] -1.464294e+00  1.766280e+00  1.021511e+00  1.242645e+00
##  [24525,]  2.195842e-01 -8.835216e-01 -1.637275e+00 -4.700354e-01
##  [24526,] -1.463005e-01  8.147450e-01 -2.005335e-03 -9.852543e-01
##  [24527,] -1.018992e+00  3.735606e-01  1.174223e+00 -8.039664e-01
##  [24528,] -2.507675e+00  3.416141e-02 -6.207061e-01  2.054278e+00
##  [24529,]  9.422513e-02 -3.198370e-01 -1.734524e-01 -4.236044e-01
##  [24530,]  2.678795e-01 -8.655486e-01 -1.795182e+00  1.468777e+00
##  [24531,]  9.288306e-01 -5.670548e-01 -1.356435e+00 -3.841547e-01
##  [24532,]  8.912858e-01 -1.104265e-01  1.012736e+00  1.753963e+00
##  [24533,]  5.038468e-02 -1.323441e+00 -1.504561e+00 -9.486509e-01
##  [24534,] -1.236050e+00  6.570326e-01  1.031999e+00 -4.253199e-01
##  [24535,]  1.429191e-01  7.074968e-01  8.170444e-01 -1.301805e-01
##  [24536,]  9.444102e-01  4.956888e-02  8.660584e-01 -2.011311e-01
##  [24537,]  6.626817e-01 -1.127069e+00 -4.982706e-01 -5.333381e-01
##  [24538,]  7.550201e-01 -6.240996e-01 -3.371197e-01 -2.372543e-01
##  [24539,]  1.617035e-01 -1.126904e+00 -1.115268e+00  1.575457e+00
##  [24540,] -3.638709e-01 -2.255119e-01 -2.327813e+00  4.024508e-01
##  [24541,]  6.274149e-01 -4.603171e-01 -1.562515e-01 -6.294126e-01
##  [24542,]  7.194441e-01 -2.700956e-01 -1.688993e+00  1.508965e+00
##  [24543,] -1.211266e-01 -1.476018e-01  1.482329e+00 -1.159731e+00
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##  [24546,]  2.870740e-01  2.680270e-02 -2.078071e+00 -5.870457e-02
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##  [24549,] -4.317801e-01 -8.869489e-01  9.754398e-01 -2.064979e-01
##  [24550,] -1.530401e+00 -1.448960e-02  1.177812e+00 -4.782616e-01
##  [24551,] -8.166930e-01  5.489749e-01  1.307426e+00  1.031493e+00
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##  [24554,]  1.581224e-01 -4.398775e-01 -1.738825e-01 -3.958330e-01
##  [24555,] -5.578231e-01 -5.987698e-01 -4.178526e-01 -7.108138e-02
##  [24556,]  1.237092e+00  5.774337e-01  3.581776e-01 -5.456221e-01
##  [24557,]  7.507903e-01 -2.416132e-01  9.164863e-01 -1.737281e-01
##  [24558,] -2.573656e+00  1.803202e-01  7.179431e-01 -1.507535e-01
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##  [24560,]  6.919507e-01 -6.826193e-01 -1.491236e+00 -4.314490e-01
##  [24561,] -1.941924e+00 -1.457964e-01  1.114057e+00 -4.252612e-01
##  [24562,]  9.099864e-02 -1.512088e+00  1.386154e+00 -8.073222e-01
##  [24563,] -2.216263e+00 -5.209180e-02 -1.675421e+00 -7.827422e-01
##  [24564,] -4.868119e-01  5.098532e-01 -1.644121e+00 -5.385680e-01
##  [24565,] -3.152382e-01 -2.620001e-01  3.303244e-02  1.297186e-01
##  [24566,] -7.496516e-01 -1.074716e+00  1.202345e+00 -5.674857e-01
##  [24567,]  6.992027e-02  1.129526e+00  9.447645e-01 -5.027586e-01
##  [24568,] -2.517025e+00 -2.333059e-01 -4.351418e-01 -1.354208e-01
##  [24569,] -2.309915e+00  1.726593e+00 -5.808236e-01 -5.594507e-01
##  [24570,]  1.052843e+00  1.204322e-02 -1.537962e+00 -1.104131e+00
##  [24571,] -2.353584e+00  7.379669e-01 -4.234229e-02 -7.177024e-01
##  [24572,] -4.877119e-01  4.327898e-01 -6.057626e-01 -3.146090e-01
##  [24573,] -5.837033e-01  3.786800e-01 -1.687551e+00 -7.907536e-01
##  [24574,] -6.364440e-01  2.739118e-01  5.466661e-01 -7.763054e-01
##  [24575,] -4.343433e-02 -7.614569e-01 -1.686792e+00  1.326508e+00
##  [24576,]  2.007645e-01 -1.331103e+00 -1.266950e+00  1.252184e+00
##  [24577,]  2.355695e-01 -7.655538e-01 -1.666380e+00 -4.198247e-01
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##  [24580,] -1.390211e+00  2.096099e+00  1.091470e+00 -8.242815e-01
##  [24581,]  7.905968e-01 -9.089626e-01 -1.104298e+00 -7.693874e-01
##  [24582,]  1.273075e-01 -1.535763e+00  1.327423e+00 -7.169834e-01
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##  [24585,] -8.999942e-01  1.329277e+00  1.388571e+00 -1.244945e+00
##  [24586,]  5.905123e-01  2.692250e-01  7.919059e-01 -6.323792e-01
##  [24587,]  2.899839e-01 -3.008880e-01  7.861969e-01  9.706358e-02
##  [24588,] -6.080445e-01  2.432535e+00  4.029241e-01  1.183983e+00
##  [24589,] -2.755955e+00  4.985112e-01  5.063978e-01 -7.570865e-01
##  [24590,]  5.872205e-01 -4.508703e-01  1.184581e+00 -6.048153e-01
##  [24591,]  8.717119e-01 -3.155911e-01  8.425818e-01 -4.623743e-03
##  [24592,] -1.302241e+00  9.785090e-02 -1.937943e+00 -2.855701e-01
##  [24593,]  3.915843e-01 -2.266069e-01 -5.209899e-01  6.236773e-02
##  [24594,]  6.901371e-01 -1.021394e+00  1.276882e+00 -6.548296e-01
##  [24595,] -2.021259e+00 -3.010828e-01 -1.661022e+00 -7.082495e-01
##  [24596,] -2.678514e+00  1.763392e+00  8.716175e-01  1.625140e+00
##  [24597,] -7.702651e-01 -9.266527e-01 -1.168369e-01 -6.184975e-01
##  [24598,]  4.338935e-02 -6.476255e-01 -1.464388e+00 -4.890164e-01
##  [24599,] -3.127601e+00 -9.600276e-01  7.635868e-01 -2.901332e-01
##  [24600,]  8.905613e-01  8.545969e-02  7.377898e-01  1.877147e-01
##  [24601,] -7.205626e-01 -5.544954e-01 -4.038018e-01 -2.142146e-01
##  [24602,]  9.165133e-01  3.880727e-01 -5.175307e-01 -2.840955e-01
##  [24603,] -1.874945e-01  8.400615e-01  2.239849e-01 -8.095741e-01
##  [24604,] -2.263938e+00  1.087879e-02  1.132688e+00 -5.354324e-01
##  [24605,]  1.080751e+00  2.702369e+00  2.389953e-01 -7.964164e-01
##  [24606,]  2.161970e-01 -1.288652e+00 -1.126088e+00  1.303453e+00
##  [24607,]  7.123013e-01  3.810811e-02 -1.720621e+00 -7.509916e-01
##  [24608,] -2.335891e+00  7.816788e-02 -1.527711e+00 -1.060549e+00
##  [24609,] -2.829538e-01  8.250886e-01  1.437977e+00 -1.392260e+00
##  [24610,] -1.496205e+00  1.169903e-01 -1.240885e+00 -9.548232e-01
##  [24611,]  3.187031e-01  1.244338e+00  1.248982e+00 -1.033130e+00
##  [24612,] -2.672629e+00 -3.117103e-01 -1.937053e-01 -2.859028e-01
##  [24613,]  3.676802e-01 -4.686104e-01 -9.161308e-02  1.201133e-01
##  [24614,] -2.081107e+00 -4.567069e-01 -2.452360e-01 -4.965727e-01
##  [24615,]  8.235664e-01  8.786310e-01  3.879353e-01  1.208653e-02
##  [24616,] -5.016398e-01 -1.118015e+00 -2.999954e-01 -2.183262e-01
##  [24617,]  6.422175e-01  1.287287e+00  5.377308e-01 -3.677734e-01
##  [24618,]  1.059096e+00  2.819871e+00  6.145449e-01  2.462442e-01
##  [24619,] -3.235527e-02  3.580532e-01 -1.226622e-01  1.566285e+00
##  [24620,]  8.832146e-01  4.338733e-01 -2.027177e-01 -3.894731e-01
##  [24621,] -7.254040e-01  1.823665e-02 -2.866640e-01 -7.275383e-01
##  [24622,]  1.416679e+00  9.676213e-01  7.293141e-01 -6.372668e-01
##  [24623,] -1.039325e+00  2.135495e-01  4.755609e-01 -9.570240e-03
##  [24624,]  5.013545e-02  1.501561e+00 -6.636051e-01 -3.410363e-01
##  [24625,] -1.439703e+00 -1.155892e+00  1.202378e+00 -3.479122e-01
##  [24626,]  4.868371e-01 -7.460442e-01  1.465332e+00  9.321039e-01
##  [24627,]  1.118523e+00  4.022846e-01 -1.504827e+00  1.070634e+00
##  [24628,]  1.273019e-01 -1.230660e+00 -9.316080e-01 -7.225900e-01
##  [24629,] -1.271905e-01 -8.082946e-01  1.348096e+00 -8.683245e-01
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##  [24632,]  7.911617e-01  8.424149e-02 -1.741490e+00 -6.745666e-01
##  [24633,] -2.728657e+00  1.449522e-01 -5.797095e-01 -3.085194e-01
##  [24634,] -7.656495e-01 -1.407902e+00  1.264623e+00 -6.449382e-01
##  [24635,]  6.058767e-01 -1.097323e+00  1.293021e+00  1.201365e+00
##  [24636,]  6.481140e-01 -3.293503e-01 -6.271955e-01 -4.590412e-01
##  [24637,]  8.210725e-01 -1.416794e-01  1.900847e-01 -1.317626e-01
##  [24638,]  1.102168e+00  2.623152e-01  6.421153e-01  2.927491e-01
##  [24639,] -2.147596e+00  9.570217e-01 -1.691079e+00  9.990337e-01
##  [24640,] -2.690507e+00 -1.003136e+00 -1.017718e+00 -8.207476e-01
##  [24641,]  4.948404e-01 -4.695903e-01 -1.419803e+00 -8.962274e-01
##  [24642,] -9.520063e-01  1.690508e+00  1.257427e+00 -9.889312e-01
##  [24643,]  9.672968e-01  1.545663e-01 -6.662452e-01 -7.267362e-02
##  [24644,]  4.268515e-01  2.873905e-02  6.077326e-01  3.634388e-01
##  [24645,]  1.869229e-01  6.218560e-01 -1.736166e-01  5.096295e-02
##  [24646,]  8.303462e-01 -1.620723e-01  1.098762e+00 -5.225417e-01
##  [24647,]  1.734363e-01 -5.516420e-01  9.410435e-01 -2.047800e-01
##  [24648,] -1.213849e+00  7.956732e-01  1.057742e+00 -5.595139e-01
##  [24649,] -8.209147e-01 -5.063767e-01  6.755735e-01 -9.296281e-01
##  [24650,]  5.406572e-01 -1.400243e-01 -2.023868e-01 -6.713548e-01
##  [24651,] -5.735387e-01  1.672729e-01  9.769610e-01 -6.094584e-01
##  [24652,] -2.702805e+00  6.081173e-01  7.493303e-01 -5.952967e-01
##  [24653,]  1.152072e+00  1.197241e+00 -4.809325e-01 -8.888298e-01
##  [24654,] -1.380696e+00  1.029383e+00  1.156474e+00 -7.266921e-01
##  [24655,]  6.658833e-01  1.752312e+00 -1.585217e+00 -6.312681e-01
##  [24656,] -1.556457e+00  7.639629e-01  7.704578e-01  1.053969e+00
##  [24657,] -5.161985e-01 -1.038616e-01  9.275653e-01 -2.991596e-01
##  [24658,]  4.596535e-01 -7.020664e-01  1.367215e+00 -9.381201e-01
##  [24659,]  1.310765e+00 -1.115430e+00 -7.331878e-02 -6.583307e-01
##  [24660,]  6.295462e-01 -5.093847e-01  1.174422e+00 -6.116377e-01
##  [24661,]  8.273267e-01 -8.809400e-02 -4.452111e-01 -1.076741e-01
##  [24662,] -6.963427e-01 -7.413063e-01  1.702230e-01 -1.140032e+00
##  [24663,] -7.783692e-01  2.943596e-01  1.145901e-01 -1.014854e+00
##  [24664,]  5.466348e-01 -6.278417e-01 -8.105093e-02 -7.374523e-01
##  [24665,]  3.738237e-02 -7.058280e-01  7.865371e-03 -6.270019e-01
##  [24666,] -1.958534e+00  5.234314e-01 -1.400767e+00 -4.147104e-01
##  [24667,]  5.394688e-01 -5.259557e-01  1.568385e-01 -9.038094e-01
##  [24668,] -2.081926e+00  4.731724e-01  1.096723e-01 -3.536520e-01
##  [24669,]  7.095301e-02  7.623354e-01  1.023575e+00 -4.297076e-01
##  [24670,]  6.288742e-02 -1.166488e+00  1.261357e+00 -6.686411e-01
##  [24671,] -2.321673e+00 -8.692107e-01 -1.141133e+00 -9.233906e-01
##  [24672,] -1.230185e+00 -1.057728e+00 -2.075278e+00  1.321760e-01
##  [24673,]  1.124333e-02 -2.693839e-01  1.276496e+00 -8.358575e-01
##  [24674,] -7.197166e-01  1.695274e+00 -3.399651e-01 -4.550085e-01
##  [24675,] -7.885475e-01 -1.509179e+00 -6.909484e-01 -7.642135e-01
##  [24676,] -1.530404e+00 -3.043027e-02  2.731170e-01 -1.258851e+00
##  [24677,] -1.562230e+00  5.147579e-01 -8.858196e-01 -1.292144e+00
##  [24678,]  8.624048e-01  3.824847e-01  8.713850e-01  1.752676e-02
##  [24679,] -1.993670e+00  1.104573e+00  9.705925e-01 -3.862601e-01
##  [24680,] -7.804081e-02 -4.952514e-01  8.812764e-02 -1.012848e+00
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##  [24681,] -6.329141e-01  2.616624e-01  9.771282e-01 -6.300950e-01
##  [24682,]  2.497161e-01 -8.722725e-01 -1.917131e+00 -2.537723e-01
##  [24683,] -2.326529e+00 -1.049324e+00  7.628089e-01  9.797460e-01
##  [24684,] -1.359971e+00 -1.980375e-01  1.244873e+00 -6.268787e-01
##  [24685,] -9.803872e-01  4.306971e-01  2.082908e-01 -1.448666e+00
##  [24686,]  9.275812e-01 -4.549647e-01  1.060910e+00 -3.390979e-01
##  [24687,]  8.877526e-01 -1.573663e-01 -1.927027e+00 -1.189750e-02
##  [24688,] -6.656535e-01  2.786993e-02 -4.152645e-01  1.290137e+00
##  [24689,] -2.967864e-01  6.439955e-01 -1.510569e-01 -1.355122e+00
##  [24690,]  8.024565e-01 -4.384870e-01  1.292305e+00  1.188995e+00
##  [24691,] -4.157301e-01  1.072388e+00  1.046418e-01 -1.347747e+00
##  [24692,]  1.490673e-01  5.679279e-01 -1.947234e+00 -4.622503e-01
##  [24693,]  8.615155e-01 -2.132167e-01 -1.272512e+00 -1.848800e-01
##  [24694,] -2.032982e+00  2.666236e-01 -1.804781e+00 -1.969094e-01
##  [24695,]  1.406535e+00 -7.304542e-02 -5.008467e-01 -2.268880e-01
##  [24696,]  7.756648e-01  1.322884e-01  1.086876e+00 -6.046855e-01
##  [24697,] -1.397101e-01  5.508933e-01  1.012471e+00 -4.800737e-01
##  [24698,]  1.136273e+00 -6.398257e-01  1.277106e+00 -7.782167e-01
##  [24699,] -2.226691e+00  9.311123e-01  9.958012e-01 -4.011551e-01
##  [24700,] -6.693022e-01  7.106473e-01  1.163428e+00 -6.673051e-01
##  [24701,] -2.293411e+00  3.454005e-01 -1.019874e+00 -6.878997e-01
##  [24702,] -2.545001e+00 -6.848875e-02  2.327025e-01 -1.316175e+00
##  [24703,] -1.997762e-01 -8.987804e-01 -1.055139e+00 -8.652913e-01
##  [24704,]  4.638593e-01  1.139021e+00 -8.890405e-01  5.932607e-01
##  [24705,]  4.275890e-01  6.901435e-01  1.293173e+00  9.798555e-01
##  [24706,]  1.425640e+00 -8.154467e-02  5.333409e-01 -2.208056e-01
##  [24707,]  2.368502e-01  6.662844e-01 -8.049663e-01  1.049831e-01
##  [24708,]  1.317294e+00  3.669096e-01 -4.638993e-01 -2.222948e-01
##  [24709,] -4.541273e-01 -1.466754e-02 -6.521564e-01  1.632753e+00
##  [24710,] -1.381558e+00 -5.326863e-01 -4.673431e-01 -8.661775e-02
##  [24711,]  1.267205e+00  2.102425e-01  1.034551e+00 -4.812549e-01
##  [24712,]  2.876675e-02 -1.090412e-01 -2.392370e-01 -6.167831e-01
##  [24713,]  3.107731e-01 -3.144620e-01 -2.051861e+00  1.808330e+00
##  [24714,]  2.128004e-01 -8.304408e-01  1.111722e+00  1.557521e+00
##  [24715,]  2.786937e-01 -4.546762e-02  8.431271e-01 -1.606833e-02
##  [24716,] -1.650579e+00  7.447067e-01 -9.434236e-01  3.291468e-01
##  [24717,] -4.749484e-02 -5.758214e-01 -5.785435e-01 -8.833474e-01
##  [24718,]  1.455442e-01  1.078405e+00 -5.353963e-01  1.782112e+00
##  [24719,]  7.020238e-01 -4.770776e-01  1.035193e+00 -3.283804e-01
##  [24720,] -1.214204e+00 -1.338838e+00  7.234616e-01 -1.700831e-01
##  [24721,]  5.827111e-01 -6.065187e-01 -1.283239e+00 -8.033173e-01
##  [24722,] -1.506043e+00  3.529131e-03  8.449702e-01 -3.665120e-02
##  [24723,]  2.619389e-02 -1.731686e+00  1.024974e-01 -8.591621e-01
##  [24724,]  6.293825e-01  3.176595e-02  1.267639e+00 -8.738026e-01
##  [24725,]  4.877049e-01  3.313555e-01 -1.630229e+00 -9.351476e-01
##  [24726,]  7.291363e-01  2.292303e-02  9.899533e-01 -3.123953e-01
##  [24727,] -1.444151e+00 -8.027875e-01  9.389099e-01 -1.492881e-01
##  [24728,]  1.219625e+00  3.693123e+00 -4.069793e-01 -5.338016e-01
##  [24729,]  1.144712e-02  6.326389e-02  8.087191e-01 -6.565468e-01
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##  [24732,]  6.544977e-01  2.812083e-01 -6.003223e-01 -3.984647e-01
##  [24733,] -1.420470e+00 -1.151556e+00 -1.616305e+00  1.690358e+00
##  [24734,] -5.841526e-01  5.871857e-02 -1.077409e+00  1.316410e+00
##  [24735,] -6.988675e-02 -1.961612e+00  1.492921e+00  9.644600e-01
##  [24736,] -2.180238e+00  4.013300e-01 -1.003293e-01 -9.665939e-01
##  [24737,]  7.353355e-01  6.390283e-01 -4.413855e-01 -3.808585e-01
##  [24738,]  5.263395e-01 -1.381852e-01  6.167764e-01 -7.045557e-01
##  [24739,]  8.012401e-01  4.318367e-01 -7.039279e-01 -1.518562e-01
##  [24740,] -4.457426e-01 -7.468799e-01 -1.653694e+00 -7.727730e-02
##  [24741,] -1.291107e+00 -1.100633e-02 -2.198801e-01 -4.479208e-01
##  [24742,]  1.388366e+00 -3.793936e-01 -2.578968e-01 -3.028054e-01
##  [24743,]  6.271889e-01  1.906489e-01 -2.038049e-01  1.198799e+00
##  [24744,]  4.011138e-01 -3.580940e-01 -9.855089e-01 -1.090477e+00
##  [24745,] -5.880715e-01  3.430777e-01  6.404405e-01  2.291184e-01
##  [24746,] -6.714164e-01  4.325804e-01  1.242455e+00  1.331789e+00
##  [24747,] -2.199099e+00  3.987422e-01 -6.545511e-01 -3.711998e-01
##  [24748,] -2.384009e+00  2.025580e+00 -1.497169e+00  1.142679e+00
##  [24749,] -2.474563e-02 -1.543055e-02 -1.783874e+00  1.451359e+00
##  [24750,] -2.416726e-01  1.171781e+00 -8.046972e-03 -1.180471e+00
##  [24751,]  1.069505e-01 -1.037148e+00 -1.219105e-01 -5.712409e-01
##  [24752,] -7.375206e-01 -1.328830e-01  1.206476e-01 -1.159637e+00
##  [24753,]  1.046409e+00  2.742128e-01  7.662784e-01  5.088224e-02
##  [24754,]  4.918926e-02  1.382165e+00  1.057582e+00 -5.721380e-01
##  [24755,]  3.011566e-01 -8.639302e-02  1.484265e+00 -1.335983e+00
##  [24756,]  5.825485e-01 -8.138472e-01  1.222583e+00 -6.536232e-01
##  [24757,] -6.936773e-01 -2.791013e-01  1.280123e+00 -8.278781e-01
##  [24758,] -1.622298e+00  1.320557e-01  1.259634e+00 -9.203573e-01
##  [24759,] -3.722458e-01  6.809671e-01  9.432762e-01 -3.117325e-01
##  [24760,] -3.429357e-02  4.783255e-01 -1.853243e+00 -6.479078e-01
##  [24761,]  7.644973e-01 -1.172121e+00 -1.059075e-01  1.000485e+00
##  [24762,]  8.854378e-01 -3.693848e-02  7.890628e-01  6.133639e-02
##  [24763,]  6.957178e-01 -7.640065e-01  1.144075e+00  1.454553e+00
##  [24764,] -1.313106e-01 -3.674618e-02 -1.103021e+00  1.006186e+00
##  [24765,] -2.843782e+00 -6.879517e-02  3.450705e-02  2.183294e+00
##  [24766,]  4.944204e-02 -1.199068e+00 -1.652113e+00  1.268663e+00
##  [24767,] -7.710124e-01  1.214537e+00  9.894451e-01 -5.479995e-01
##  [24768,]  7.961219e-01 -6.588247e-01 -2.314434e-01  1.671590e+00
##  [24769,]  9.072600e-01 -8.484349e-01 -1.287039e+00 -4.713185e-01
##  [24770,] -2.807297e+00  1.089762e+00 -1.872055e+00 -5.685705e-01
##  [24771,] -7.896855e-01  2.422703e+00  1.373148e+00  8.216258e-01
##  [24772,] -6.909455e-01  1.627519e+00  1.077989e+00 -7.030026e-01
##  [24773,]  8.836623e-01 -1.992510e-01 -5.583828e-01  3.482880e-02
##  [24774,] -7.897859e-01  1.383458e+00 -3.023558e-01 -1.036134e+00
##  [24775,] -4.384386e-02  7.732417e-01 -3.134387e-01 -9.367399e-01
##  [24776,]  7.015062e-01  5.650133e-01 -7.552862e-01 -2.310632e-01
##  [24777,] -7.780780e-01  1.559449e+00 -2.813828e-01 -6.542415e-01
##  [24778,]  1.530728e+00 -6.549611e-01  1.125384e+00 -5.347531e-01
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##  [24780,] -6.667190e-02 -1.211548e+00  3.559816e-02  1.052375e+00
##  [24781,] -1.113309e-01 -1.476147e-01 -1.291828e+00 -5.538296e-01
##  [24782,] -1.036955e+00  6.393227e-01  1.172147e+00 -8.193454e-01
##  [24783,] -1.708029e+00  6.922096e-01 -4.974297e-01 -8.074493e-01
##  [24784,] -7.681108e-01 -1.115755e+00  1.046046e+00 -1.047288e-01
##  [24785,] -2.776841e-01  1.508278e+00  2.939483e-02  1.772982e+00
##  [24786,]  1.928701e-01  3.672416e-01  8.979060e-01 -2.995429e-01
##  [24787,]  2.817767e-02 -1.341204e+00  1.520963e+00  1.013683e+00
##  [24788,]  2.412904e-01  4.485517e-01  2.787066e-01  3.180876e-02
##  [24789,] -2.130388e-01  2.234359e+00 -2.340533e-01 -1.021912e+00
##  [24790,]  9.210653e-01 -6.829345e-01 -2.616857e-01  1.465891e+00
##  [24791,]  1.268949e+00 -1.036374e+00  3.005795e-01 -8.929174e-01
##  [24792,]  7.705504e-01 -5.200211e-01  9.502239e-01 -1.668249e-01
##  [24793,]  2.536065e-01 -1.038598e+00  1.071034e+00 -3.425063e-01
##  [24794,]  5.483631e-01 -4.066424e-01  1.241319e+00 -7.874392e-01
##  [24795,]  3.439236e-01 -5.585223e-01 -4.856446e-01 -6.787603e-02
##  [24796,]  8.851144e-01 -7.263702e-01 -4.833249e-01 -5.058040e-01
##  [24797,]  2.739016e-01 -6.278274e-01  6.397899e-01 -2.560337e-01
##  [24798,] -9.768446e-01  1.214634e+00 -4.920340e-01 -6.807698e-01
##  [24799,] -5.103888e-01 -4.170432e-01 -1.401670e+00  4.432665e-02
##  [24800,] -2.583480e+00  5.341631e-01  6.695180e-01 -1.274868e-01
##  [24801,] -1.000724e+00 -4.184400e-01  5.135375e-02 -1.340362e+00
##  [24802,]  1.501313e-01 -9.359618e-01 -3.762496e-01 -6.361857e-01
##  [24803,]  6.476370e-01  6.182451e-02  1.036420e+00  1.211363e+00
##  [24804,]  7.728143e-01 -4.969413e-01 -1.990526e+00 -2.182109e-01
##  [24805,]  7.234783e-01  1.186995e+00  8.631438e-01 -1.947655e-01
##  [24806,]  6.558146e-01 -1.070311e+00  1.310419e+00  1.206063e+00
##  [24807,]  1.273590e+00 -2.272910e-02  9.951617e-02 -3.864350e-01
##  [24808,]  1.520283e-02 -1.137525e+00  5.983302e-02 -7.201438e-01
##  [24809,] -9.155957e-02  1.594646e+00 -1.143758e-01 -8.992224e-01
##  [24810,] -1.453117e+00 -1.916835e+00 -1.227894e-01  1.584707e+00
##  [24811,]  7.519165e-01 -1.087957e+00  1.341881e+00  1.114550e+00
##  [24812,]  4.744571e-01 -2.765883e-01 -5.907373e-01  2.595205e-01
##  [24813,] -2.270671e-01  2.514612e+00 -3.449440e-01 -1.057547e+00
##  [24814,]  3.997439e-01 -1.938502e-01  8.655322e-01  1.932653e+00
##  [24815,] -3.243744e-01 -1.112613e-01 -2.743034e-01  1.950288e+00
##  [24816,] -1.354518e+00 -8.378573e-01 -7.696492e-01 -9.547982e-01
##  [24817,] -8.235059e-01  1.810913e+00  1.253624e-02 -6.940829e-01
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##  [24820,]  9.792733e-01  1.873206e-02  5.978738e-01 -1.751237e-01
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##  [24822,]  5.778921e-01 -6.224745e-01 -1.304260e+00 -1.142150e+00
##  [24823,]  8.305997e-01  8.633975e-01 -5.364262e-01  1.023212e-01
##  [24824,]  2.003678e-01 -4.561393e-01 -1.846087e+00 -4.709038e-01
##  [24825,] -4.695699e-01  9.542910e-01 -8.149725e-01  2.900778e-02
##  [24826,] -3.859739e-01  2.830591e-01  9.997520e-01 -3.873715e-01
##  [24827,] -1.117500e+00  1.603548e-01 -1.104525e+00 -1.168473e+00
##  [24828,] -6.130899e-01  3.661637e+00 -2.136020e-01 -6.659152e-02
##  [24829,]  8.393880e-01  7.619024e-01 -2.893960e-01 -8.603859e-02
##  [24830,] -9.235480e-01 -1.688785e-01 -1.349310e+00 -1.395876e+00
##  [24831,] -2.524595e+00 -5.268719e-02 -2.248483e-01 -2.868845e-01
##  [24832,]  7.503217e-01  1.781798e-01 -1.329637e-01 -6.045663e-01
##  [24833,] -4.958728e-01  3.379616e-01  3.434703e-01 -7.056380e-01
##  [24834,]  9.864215e-01  4.137113e-02 -1.739148e-01  2.673528e-01
##  [24835,]  6.037597e-01 -7.370946e-01  6.530274e-01  1.178849e+00
##  [24836,]  1.034223e+00  6.810494e-02 -4.883917e-01 -3.180683e-02
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##  [24838,] -1.487429e+00 -5.055645e-01  9.408709e-01 -2.136326e-01
##  [24839,] -1.682873e+00 -7.490765e-01 -1.136238e+00 -6.851662e-01
##  [24840,]  8.594118e-01 -4.667258e-01 -1.144843e+00 -4.310444e-01
##  [24841,] -1.475219e+00  5.347296e-01 -1.776939e+00 -6.508368e-01
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##  [24843,] -6.462969e-01 -4.265957e-01  1.321789e+00 -7.599046e-01
##  [24844,] -5.363892e-01  2.235819e+00 -4.273437e-01 -2.079751e-01
##  [24845,]  1.369644e-01 -5.071347e-01 -2.150792e-01 -3.384555e-01
##  [24846,]  2.813995e-01  7.139269e-01  4.758117e-01 -1.209932e+00
##  [24847,] -2.781053e+00  2.211206e-01  1.118562e+00 -5.397987e-01
##  [24848,] -1.157267e+00  4.309038e-01  1.039743e+00 -4.682548e-01
##  [24849,]  2.099467e-01 -1.150978e+00  1.152770e+00 -4.652328e-01
##  [24850,]  1.168553e+00  1.585689e-01  4.732949e-01  9.643175e-01
##  [24851,]  1.000850e-01 -1.455164e+00  1.334379e+00 -7.671669e-01
##  [24852,] -1.505990e+00  1.731472e+00  7.379175e-01 -7.312212e-01
##  [24853,]  9.203526e-01 -3.479596e-01  1.056678e+00 -3.440921e-01
##  [24854,] -5.331774e-01 -4.338220e-01 -6.268086e-01 -2.374716e-01
##  [24855,]  7.151601e-01 -1.838253e-01  6.357819e-01 -3.651245e-01
##  [24856,]  5.269997e-01  1.997747e+00  9.900821e-01 -6.567247e-01
##  [24857,] -2.100373e+00 -3.297203e-01 -8.787873e-01 -5.180097e-01
##  [24858,] -4.266848e-01 -9.638297e-01  9.096765e-01  1.854218e+00
##  [24859,] -2.012540e+00 -2.635581e-01  9.537091e-01  1.667080e+00
##  [24860,] -1.761462e+00  2.780534e-02  1.043591e+00 -1.017343e+00
##  [24861,]  1.313079e+00 -2.306406e-01 -1.410949e+00 -3.450758e-01
##  [24862,]  6.104394e-01 -1.985064e-01  4.309614e-01 -5.454491e-01
##  [24863,]  5.891800e-01  1.132842e+00 -3.634584e-01  1.373118e+00
##  [24864,] -1.344609e+00  2.785241e-01 -8.343119e-01 -4.000741e-03
##  [24865,]  9.204850e-01  3.333822e-02 -1.745384e+00 -3.551460e-01
##  [24866,] -2.705873e+00 -7.013416e-01  4.150233e-01 -3.913496e-01
##  [24867,] -2.044773e+00  9.786259e-01 -3.198198e-01 -2.277532e-01
##  [24868,]  9.897221e-01  3.994477e-01  8.317148e-01 -7.456049e-02
##  [24869,] -1.659277e+00  1.279494e+00  1.249898e+00 -1.177941e+00
##  [24870,] -2.418929e-01 -1.588995e-01  3.508285e-01  7.967537e-01
##  [24871,]  8.350552e-01 -4.561512e-01  2.098964e-01  1.563684e+00
##  [24872,]  1.038576e+00  1.910727e+00  1.125818e+00 -7.327429e-01
##  [24873,]  6.240126e-01  1.256700e-01  1.118770e-01 -4.506016e-01
##  [24874,] -7.585764e-02 -1.321121e+00 -9.126926e-01  1.219587e+00
##  [24875,] -3.208464e-01 -4.777303e-02 -2.249855e+00  2.937761e-01
##  [24876,]  2.255094e-01 -8.503704e-01 -4.298246e-01 -1.809524e-01
```

```
##  [24877,] -7.967421e-01  2.280372e+00 -3.100688e-01 -8.255080e-01
##  [24878,] -5.019893e-01  4.549794e-01 -1.430998e+00 -5.799270e-01
##  [24879,] -1.376117e+00  5.857729e-01  9.868786e-01 -5.786455e-01
##  [24880,]  6.990377e-01 -4.812481e-01  1.391175e-01 -3.564362e-01
##  [24881,]  2.105800e-02 -8.647467e-01 -1.505905e+00  1.252955e+00
##  [24882,]  3.511301e-01  1.611846e-02  4.038283e-01  3.966693e-01
##  [24883,]  3.720150e-02 -8.567313e-01  3.203725e-02  1.207532e+00
##  [24884,]  2.635174e-01 -4.209878e-01 -1.600016e+00 -2.959248e-01
##  [24885,] -4.248603e-01  7.498623e-01 -4.331621e-01 -9.404401e-02
##  [24886,] -3.279070e-01  6.851391e-01 -9.924052e-01 -9.575635e-01
##  [24887,] -2.632017e-02 -1.030012e+00 -1.050633e+00 -8.212145e-01
##  [24888,] -2.945318e-01 -1.873006e-01 -2.339351e+00  3.668335e-01
##  [24889,]  1.668086e-02  2.364919e+00 -1.890104e+00 -4.202624e-01
##  [24890,] -1.974232e+00  6.506470e-02  1.923069e-01 -4.864588e-01
##  [24891,]  2.624300e-01 -3.541405e-01 -1.868077e+00  1.520645e+00
##  [24892,] -2.089782e-01 -6.838814e-01  6.504786e-01 -8.477410e-01
##  [24893,]  2.676601e-01 -2.656764e-01 -1.731629e+00  1.556712e+00
##  [24894,]  7.229074e-01 -7.663802e-01 -1.641354e+00 -4.806130e-01
##  [24895,] -5.961978e-01  1.548963e-01 -5.958880e-01 -3.549335e-01
##  [24896,] -6.540064e-01  3.357907e-01  1.431658e+00 -1.062516e+00
##  [24897,] -6.744860e-01  1.230769e+00 -7.076985e-01 -3.666888e-01
##  [24898,]  7.677748e-01 -3.369846e-02  5.937798e-01 -2.359642e-01
##  [24899,] -6.705849e-01  9.773367e-01 -3.706245e-01 -8.964505e-01
##  [24900,] -2.132086e+00  8.525376e-01 -1.016657e+00  1.054371e+00
##  [24901,] -1.775207e-01 -7.114517e-01  1.056148e+00  8.618631e-01
##  [24902,]  1.061040e+00 -3.268652e-01 -5.051927e-01 -1.742227e-03
##  [24903,] -2.117964e+00  2.475164e-01  1.012139e+00  1.522451e+00
##  [24904,]  8.270374e-02 -5.133878e-01 -6.283559e-01  1.705314e+00
##  [24905,]  9.071797e-02 -1.625403e+00  1.365365e+00 -8.087962e-01
##  [24906,]  7.569438e-01 -8.688454e-01 -2.185210e-01 -4.716773e-01
##  [24907,] -6.591897e-01  2.162369e-01  1.251659e+00 -8.035940e-01
##  [24908,]  1.284723e-01 -8.664519e-01  1.011558e+00 -2.513471e-01
##  [24909,]  2.126136e-01 -4.036125e-01  3.312604e-01  1.592862e+00
##  [24910,] -7.694617e-01  1.863577e+00 -7.741305e-02 -1.187698e+00
##  [24911,] -1.726325e+00  9.030920e-01 -7.684898e-01  1.984503e+00
##  [24912,]  6.745407e-01  1.007380e+00  8.599616e-01 -2.135306e-01
##  [24913,]  1.127148e+00  6.837754e-01  1.107190e+00 -6.407472e-01
##  [24914,]  4.897814e-01 -7.742460e-01 -5.823239e-01 -1.131941e+00
##  [24915,] -3.563976e+00  3.295763e-01 -3.528209e-01 -9.546668e-01
##  [24916,] -4.404924e-01 -6.781419e-01 -1.942930e+00  1.759325e+00
##  [24917,]  8.457555e-01 -7.457793e-01  2.055573e-03  1.323322e+00
##  [24918,]  2.235524e-01 -1.628898e-01  3.221461e-01 -1.570489e+00
##  [24919,]  9.736872e-01  4.789624e-01 -5.674597e-02 -1.033223e+00
##  [24920,] -9.712644e-01  6.997116e-01 -6.227974e-02  6.135319e-01
##  [24921,]  6.965228e-01  7.874376e-03 -2.792170e-01 -5.058274e-01
##  [24922,] -2.147834e+00  3.236312e-01 -1.636359e+00 -2.675590e-01
##  [24923,]  1.858228e-02  3.032582e-01 -7.174385e-01 -1.848149e-01
##  [24924,] -4.777877e-01  8.328608e-01 -8.624280e-02  5.095769e-01
##  [24925,] -7.372792e-01  6.553518e-01  1.099036e+00 -5.857397e-01
##  [24926,]  7.914780e-01 -1.988732e-02 -2.010114e+00 -2.295093e-01
##  [24927,]  1.323097e-01 -6.136119e-01  1.141309e+00 -4.498694e-01
##  [24928,] -1.355884e-01  5.611446e-01  3.096297e-01 -7.576268e-01
##  [24929,]  5.793766e-01  1.134675e+00 -4.129382e-01 -5.724520e-01
##  [24930,]  6.845075e-01 -8.509835e-01  1.304957e+00 -8.423195e-01
##  [24931,]  7.991920e-01 -2.584035e-01 -3.202415e-01 -3.086476e-01
##  [24932,]  4.659006e-01  1.406273e-01  7.495772e-01  2.127743e+00
##  [24933,]  6.886808e-01 -1.440496e-01  9.991070e-01 -4.073290e-01
##  [24934,] -2.107734e+00  2.124821e+00  8.780248e-01 -1.287140e-01
##  [24935,] -6.839458e-01  2.108262e+00 -4.367969e-01 -5.715344e-01
##  [24936,] -4.596104e-01  5.589724e-01  1.027774e+00  1.546838e+00
##  [24937,]  5.306688e-01 -6.672152e-01  5.466594e-02 -9.982121e-01
##  [24938,] -7.193278e-02 -8.415522e-01  1.212254e+00  1.336742e+00
##  [24939,] -7.754824e-02  6.188357e-01  1.287278e-01 -7.324450e-01
##  [24940,] -1.242067e-01 -2.533089e-01 -1.693881e-01 -9.305541e-01
##  [24941,] -1.389248e+00 -5.264500e-01 -1.303796e+00 -1.014953e+00
##  [24942,]  1.122627e+00 -3.122168e-01 -9.467770e-01 -1.067464e+00
##  [24943,]  9.366522e-01  8.519793e-01  2.828608e-01 -1.292276e+00
##  [24944,]  6.866336e-01  4.928520e-01  9.728222e-01 -4.454677e-01
##  [24945,] -6.513069e-01  4.837054e-01  3.121014e-01 -5.755796e-01
##  [24946,] -2.383744e+00  4.327638e-01  1.267246e+00 -7.878561e-01
##  [24947,]  5.071469e-01 -9.937402e-01  5.895122e-02 -8.907529e-01
##  [24948,] -1.489950e+00 -2.928093e-01  9.046831e-01 -3.902581e-01
##  [24949,]  1.896076e-01 -6.119973e-01 -1.752168e+00 -5.362917e-01
##  [24950,]  6.839416e-01  8.626112e-02 -2.639222e-01 -3.381578e-01
##  [24951,]  1.572472e-01 -3.716416e-01 -5.152385e-01  8.954431e-02
##  [24952,] -4.186920e-02  1.155593e+00  1.212058e+00  1.121821e+00
##  [24953,]  6.127101e-01 -5.632018e-01  8.780621e-02 -5.815010e-01
##  [24954,]  3.370610e-01 -1.997824e-02 -6.088877e-01 -5.316359e-02
##  [24955,] -2.660039e+00  7.147820e-01  1.018131e+00 -4.632279e-01
##  [24956,] -7.262621e-01 -1.022148e-01  2.926516e-03 -9.150814e-01
##  [24957,] -1.464155e+00  9.939070e-01  9.008388e-01 -6.922156e-01
##  [24958,]  7.259909e-01 -7.501644e-01 -2.295063e-01 -4.307001e-01
##  [24959,] -1.054092e-02  2.633604e+00  6.468527e-01 -5.000227e-01
##  [24960,] -2.037183e+00  8.871435e-02  9.468265e-01 -1.614468e-01
##  [24961,]  6.315768e-01 -4.484196e-02 -1.130607e+00 -4.961085e-01
##  [24962,] -3.050503e+00  1.912646e-01 -6.623457e-01 -1.357066e+00
##  [24963,]  2.414907e-01 -5.389349e-01 -3.251503e-01 -3.243340e-01
##  [24964,]  3.021738e-01  7.668865e-01 -9.251541e-01  1.935193e-01
##  [24965,]  6.063136e-01 -1.306437e+00  1.348544e+00 -7.761318e-01
##  [24966,] -6.849910e-01 -4.628859e-01 -8.929419e-02 -7.845339e-01
##  [24967,]  1.034605e+00  9.018424e-01  1.288887e+00 -1.049706e+00
##  [24968,]  3.175261e-01 -9.300449e-02 -1.842596e+00 -1.480252e-01
##  [24969,] -2.565763e+00  2.862603e-01  6.473004e-01  1.541189e+00
##  [24970,]  1.543994e+00 -1.873952e-01 -1.774300e-01  1.352620e+00
##  [24971,]  4.034211e-01 -2.140815e-01 -1.366701e-01 -1.037071e+00
##  [24972,]  6.992733e-01  2.338701e-01 -1.597714e+00 -4.027853e-01
##  [24973,] -5.224387e-01  1.072735e+00  5.466337e-01 -2.701925e-01
##  [24974,] -2.538329e+00 -2.448796e-01  8.017744e-01  1.583770e-01
```

```
##  [24975,]  6.723333e-01 -1.627304e+00  7.558946e-03 -7.724005e-01
##  [24976,]  2.380302e-01 -8.004596e-01 -4.088367e-01  1.837687e+00
##  [24977,]  5.840029e-01 -3.236216e-01 -1.370829e-01 -6.222232e-01
##  [24978,] -1.300101e+00  9.020943e-01  3.305708e-01 -5.565542e-01
##  [24979,]  1.282080e+00 -4.432940e-02  9.838348e-01 -3.452925e-01
##  [24980,]  8.286485e-01 -1.589776e-01 -5.402526e-01  1.812868e+00
##  [24981,] -4.949551e-02  6.379322e-01  1.010281e+00 -4.922314e-01
##  [24982,]  5.985424e-02  4.245061e-01 -7.689598e-01  1.196207e+00
##  [24983,]  7.208716e-01 -1.246457e-01  1.096385e+00 -4.661130e-01
##  [24984,]  1.277116e+00  3.139556e-01  6.498382e-01 -6.998743e-01
##  [24985,]  1.463527e+00  1.025629e+00  2.686287e-01 -1.477876e-01
##  [24986,]  9.076764e-01 -9.002766e-01  1.015642e+00 -3.052113e-01
##  [24987,] -3.707976e-01 -6.308611e-01 -3.270311e-01  1.759360e+00
##  [24988,]  1.928765e-01 -7.969000e-01 -1.983142e+00 -1.581436e-01
##  [24989,] -1.835700e+00 -9.897685e-02  9.091648e-01 -1.409701e-01
##  [24990,]  2.416078e-01 -1.148053e+00  1.198693e+00  1.435496e+00
##  [24991,] -1.280867e+00 -5.960932e-01  1.347107e+00 -7.147528e-01
##  [24992,]  2.671038e-01 -3.439560e-01  5.117379e-01 -1.394481e+00
##  [24993,]  6.636228e-01 -3.295375e-01  7.298430e-01 -4.206346e-01
##  [24994,] -5.407032e-01 -3.039535e-02 -3.416990e-01 -3.807297e-01
##  [24995,]  9.291952e-01 -5.253321e-01  1.008138e+00  1.621227e+00
##  [24996,]  5.989808e-01  1.987052e-01  1.053010e+00 -5.779553e-01
##  [24997,]  2.286000e-01  2.232942e-01 -3.402771e-01 -1.507502e-01
##  [24998,]  5.952977e-01  9.617697e-01  1.183121e+00 -8.439046e-01
##  [24999,] -1.925568e-01  4.040500e-01  1.494589e+00 -1.271999e+00
##  [ reached getOption("max.print") -- omitted 105719 rows ]
```

```
# Play with FA utilities

fa.parallel(ABC) # See factor recommendation
```

```
## Parallel analysis suggests that the number of factors =  5  and the number of components =  4
```

```
fa.plot(fit.pc) # See Correlations within Factors
```

```
fa.diagram(fit.pc) # Visualize the relationship
```

```
vss(ABC) # See Factor recommendations for a simple structure
```

```
##
## Very Simple Structure
## Call: vss(x = ABC)
## Although the VSS complexity 1 shows  6  factors, it is probably more reasonable to think about  4  factors
## VSS complexity 2 achieves a maximimum of 0.78  with  6  factors
##
## The Velicer MAP achieves a minimum of 0.06  with  1  factors
## BIC achieves a minimum of  NA  with  5  factors
## Sample Size adjusted BIC achieves a minimum of  NA  with  5  factors
##
## Statistics by number of factors
##   vss1 vss2   map dof   chisq prob sqresid  fit RMSEA   BIC SABIC complex
## 1 0.41 0.00 0.060  35 6.4e+04    0     8.1 0.41 0.118 63737 63849     1.0
## 2 0.49 0.54 0.069  26 2.5e+04    0     6.3 0.54 0.086 24732 24815     1.3
## 3 0.51 0.60 0.088  18 1.4e+04    0     5.4 0.60 0.076 13575 13632     1.4
## 4 0.57 0.65 0.108  11 7.5e+03    0     4.5 0.67 0.072  7391  7425     1.4
## 5 0.54 0.67 0.173   5 6.4e+03    0     4.1 0.70 0.099  6360  6376     1.4
## 6 0.72 0.78 0.283   0 3.3e+01   NA     2.5 0.82    NA    NA    NA     1.2
## 7 0.56 0.67 0.499  -4 9.0e-04   NA     3.8 0.72    NA    NA    NA     1.4
## 8 0.52 0.65 0.660  -7 6.2e-07   NA     4.0 0.71    NA    NA    NA     1.7
##    eChisq    SRMR eCRMS  eBIC
## 1 8.9e+04 8.7e-02 0.099 88781
## 2 2.6e+04 4.7e-02 0.062 25862
## 3 1.2e+04 3.2e-02 0.051 12028
## 4 1.3e+03 1.1e-02 0.022  1218
## 5 4.9e+02 6.4e-03 0.019   429
## 6 8.7e+00 8.6e-04    NA    NA
## 7 6.4e-05 2.3e-06    NA    NA
## 8 6.5e-08 7.4e-08    NA    NA
```

```
################ end of code ##################################################

############ Multinomial Linear Regression #######################
#View(loan)
mysample = ABC
```

```
#View(ABC)
mysample = loan[,c("loan_status","loan_amnt" ,"installment", "int_rate","issue_d","grade","purpose", "dti",
                   "emp_length" , "home_ownership" ,"annual_inc" , "term")]
mysample <- mysample[sample(1:nrow(mysample), 5000,replace=FALSE),]



#Multiple Regression
#View(mysample)

# Performing multiple regression on DEF dataset
fit <- lm(loan_status~loan_amnt+installment+int_rate+
            issue_d+grade+purpose+dti+emp_length+home_ownership+
            annual_inc+term, data = mysample)
#show the results
summary(fit)
```

```
##
## Call:
## lm(formula = loan_status ~ loan_amnt + installment + int_rate +
##     issue_d + grade + purpose + dti + emp_length + home_ownership +
##     annual_inc + term, data = mysample)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.03618  0.02983  0.15127  0.24452  0.69532
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -6.611e+01  1.762e+01  -3.752 0.000178 ***
## loan_amnt       1.024e-05  5.309e-06   1.928 0.053919 .
## installment    -3.458e-04  1.636e-04  -2.114 0.034538 *
## int_rate        2.449e-04  4.433e-03   0.055 0.955956
## issue_d         3.295e-02  8.758e-03   3.762 0.000170 ***
## grade           6.300e-02  1.685e-02   3.739 0.000187 ***
## purpose        -4.686e-03  1.396e-02  -0.336 0.737112
## dti            -1.801e-03  7.583e-04  -2.375 0.017577 *
## emp_length     -1.339e-03  1.605e-03  -0.834 0.404166
## home_ownership  7.580e-02  1.218e-02   6.224 5.24e-10 ***
## annual_inc      2.354e-07  1.094e-07   2.152 0.031441 *
## term            1.388e-01  3.590e-02   3.867 0.000112 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4002 on 4988 degrees of freedom
## Multiple R-squared:  0.08813,        Adjusted R-squared:  0.08612
## F-statistic: 43.83 on 11 and 4988 DF,  p-value: < 2.2e-16
```

```
#ANS- By looking at the output we can figure out that int_rate and emp_length are insignificant

#Summary has three sections. Section1: How well does the model fit the data (before Coefficients). Section2: Is the hypothesis supported? (until sifnif
# Useful Helper Functions
coefficients(fit)
```

```
##    (Intercept)      loan_amnt    installment       int_rate        issue_d
##  -6.611098e+01   1.023628e-05  -3.458434e-04   2.448651e-04   3.294977e-02
##          grade         purpose            dti     emp_length home_ownership
##   6.299723e-02  -4.685754e-03  -1.801186e-03  -1.338892e-03   7.579942e-02
##     annual_inc            term
##   2.353627e-07   1.388285e-01
```

```
library(ggplot2)
#install.packages("GGally")
library(GGally)
#install.packages("tidyverse")
library(tidyverse)
# install.packages("rlang")
#install.packages("https://cran.r-project.org/src/contrib/Archive/rlang/rlang_0.4.4.tar.gz", repo=NULL, type = "source")
#install.packages("caret")
library(caret)
ggpairs(data=mysample, title="Loan Data")
```

```
#install.packages("GGally", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/Library")
library(GGally)
# ggpairs(data=mtcars, title="Cars Data")
confint(fit,level=0.95)
```

```
##                        2.5 %        97.5 %
## (Intercept)    -1.006580e+02 -3.156401e+01
## loan_amnt      -1.725417e-07  2.064509e-05
## installment    -6.665168e-04 -2.516994e-05
## int_rate       -8.446645e-03  8.936375e-03
## issue_d         1.578021e-02  5.011933e-02
## grade           2.996501e-02  9.602944e-02
## purpose        -3.204992e-02  2.267841e-02
## dti            -3.287849e-03 -3.145217e-04
## emp_length     -4.485119e-03  1.807335e-03
## home_ownership  5.192482e-02  9.967402e-02
## annual_inc      2.095636e-08  4.497690e-07
## term            6.844327e-02  2.092137e-01
```

```
# Predicted Values
fitted(fit)
```

```
##     48574      6994     42099     54113      6260     85568     49547     65527
## 0.5774688 0.9455786 0.7809599 0.8134247 0.8098020 0.9619441 0.7300189 0.5817091
##     28899     13842     95856    130255     20295     42141     52174     28016
## 0.8622501 0.8928881 0.8848949 0.7757575 0.7083364 0.6554048 0.8936378 0.7841781
##     38381      4510      3918     37144    128281     72615    111612     27025
## 0.8477281 1.0004432 0.8556157 0.6421807 0.7542271 0.6235506 0.8066629 0.8808169
##     63117     30488     27327     57130    112929    123033     65263       606
## 0.8212402 0.7059460 0.7502356 0.8861305 0.7687751 0.7933728 0.8104915 0.8553428
##     53160     42987     43524    109956     50446     56958    122818     62942
## 0.7939714 0.7015481 0.9282135 0.8942249 0.9436765 0.8592898 0.6455404 0.7969891
##       207    118813     13692     41820    100701     12085     49436    103012
## 0.8999563 0.8565393 0.7497930 0.7978779 0.4139762 0.8270839 0.7132513 0.7126178
##     98189     85147     27801       283     98878    128462     79974    126862
## 0.7500394 0.8841986 0.4759633 1.0286725 0.8432909 0.7533974 0.9206788 0.5293338
##     83651    106069    119256    111684     75364      5187     27426     73911
## 0.9256528 0.7032266 0.7203649 0.8051551 0.8508614 0.8379997 0.8648031 0.8628316
##     73861     58140    109689    110640    126757     72012     59657     16590
## 0.7460944 0.8714621 0.8104096 0.6716781 0.7479919 0.7169399 0.9709394 0.7491256
##     75575    116461    111176    107305     37989     87981     90186     75317
## 0.7864700 0.6378548 0.9689227 0.8776082 0.8323959 0.8068891 0.5102046 0.5226094
##       175     14148     78623      1162     92461     16827    123755    123196
## 0.7086103 0.8664593 0.5813878 0.8120967 0.7954019 0.6451039 0.6255230 0.7666563
##      4075      3054     16866    108765     48946     83358     46672     37661
## 0.7588185 0.8746634 0.7934723 0.8159048 0.7283878 0.4990397 0.7263991 0.8228745
##     93750    123373      8802    112896    109139    123239    114732     80733
## 0.8154643 0.7667828 0.9498929 0.7369250 0.9354799 0.6049035 0.6671439 0.7274476
##     10001     11365     32320    113390    111942      1606     96198     38985
## 1.0215746 0.7321433 0.8689740 0.7963079 0.6201340 0.8291667 0.8923629 0.7725085
##     76617     53668     65241     83037     89897      3549     83688     39079
## 0.6124256 0.5265725 0.9731142 0.7353014 0.8188623 0.7632034 0.7240490 0.4251045
##     33730     13361     66326     72913     47123     96621     52977    113650
## 0.7076495 1.0105143 0.9615738 0.8019141 0.7399335 0.8508892 0.8226719 0.8021603
##     31499     68939     30011     81019     20318     96795     40229     45052
## 0.8904265 0.5216100 0.7245819 0.8589842 0.8185321 0.8857445 0.7464821 0.7961497
##     14467     97809    110762     52719     39990     77146     62813     16373
## 0.8426212 0.5181402 0.8730572 0.8539088 0.7971368 0.8322948 0.9783020 0.8836542
##    104753     24044     38342     42769     38974     29191     84723     96432
## 0.8898707 0.8133790 0.7963857 0.5786302 0.7274230 0.8844017 1.0069887 0.7853618
##     47543      1415     11483     49684    111532     10848     27352    103480
## 0.6728303 0.7846431 0.9454392 0.7260413 0.6303688 1.0234166 0.7992792 0.7109516
##     51510     22489    105839     51019     29649      6352    105333     76715
## 0.7031027 0.8205492 0.7555980 0.7306917 0.8253657 1.0231206 0.8739693 0.8305978
##     68225     25706    102396     55218     53022    119214     60460     53249
```

```
## 0.7949934 0.9095517 0.8981017 0.7848502 0.7833912 0.8605225 0.4863926 0.6995704
##     45114     72724     42881    101577       389    121090     22577     35305
## 0.8004990 0.5442317 0.8317558 0.6015272 0.8184188 0.3116151 0.5504583 0.9516055
##      5065    119056    109020    126236     66009     93948     85762     79786
## 0.8211539 0.7642084 0.4663979 0.9011797 0.7616664 0.7755466 0.7645566 0.8176340
##    111969     58561     70678     36451     71567     99915     29806    101891
## 0.7596200 0.9547440 0.8107519 0.5496418 0.8499648 0.7888260 0.7959742 0.7178639
##     99112     68632      1856     14630     77963    109365     92568     85480
## 0.7642477 0.7655930 0.8837528 0.7446493 0.6998861 0.6872917 0.7324753 0.8669288
##     58367    107743     54004      4566     78682    127491     74365     41703
## 0.7796980 0.5514275 0.8866814 0.7888663 0.8055185 0.7069011 0.8801142 0.9343792
##    103092      1443     67852     90068     36058    110761     94839     55589
## 0.5417055 0.8876121 0.8702311 0.9593641 0.8940015 0.7411656 0.7891048 0.8096057
##      3932     23800    106669      9595      7547    123005     49881     39591
## 0.8489835 0.7770944 0.6663519 0.7963936 0.7409130 0.7980396 0.7554848 0.5660163
##     52070     31339     59815     23082     78767     49457     41455    104866
## 0.8700037 0.7084440 0.8794062 0.8194267 0.3607297 0.8813692 0.7511886 0.8764200
##     92868     86685     78104     78764     29885     66532    127284    110186
## 0.7191772 0.7772879 0.7629290 0.5796919 0.9265787 0.8794157 0.7477534 0.9397282
##     95651     25270       487     79883     62417    107406     76996     44770
## 0.8070045 0.7340804 0.8655130 0.6209404 0.8683452 0.8620939 0.7081965 0.6927538
##     44407    124404     76971     40914      2428     51074    100033     26867
## 0.5843628 0.7614114 0.7666422 0.8675977 1.0175811 0.6855671 0.6991264 0.8431890
##     26900    125208     33882     58102     55312    103281     20967     65416
## 0.7955400 0.7812021 0.8155679 0.8816566 0.8763941 0.8506581 0.7849669 0.8520745
##     43513     11826     30678    109309    107469     66368     55059     88408
## 0.8545021 0.9945081 0.8763910 0.5466454 0.8892444 0.7906278 0.8025164 0.6294044
##     57405    109150     33037     96734    100421     39608     58551    117815
## 0.8605518 0.7890821 0.5113142 0.9154662 0.8222888 0.6562046 0.9622393 0.4993627
##    113202     72458     44838     75388     81669     76826     71588    120604
## 0.8659168 0.8884017 0.9618144 0.8567886 0.9672465 0.7108347 0.6127702 0.5115516
##     49065      1957     68124      9891      4646     45663      7790    112252
## 0.8004984 0.8564675 0.7933970 0.6477677 0.8558019 0.7837915 0.8526786 0.8839879
##     34945     17475     94084     72569     15859    124435     74965     77011
## 0.9379088 0.7855490 0.8589431 0.8303626 0.8399491 0.6959952 0.6984110 0.8064846
##      9524     80384     12975    102244     61376    110550     55954      9644
## 0.8730817 0.7095139 0.8826551 0.7879340 0.7855990 0.6978593 0.9449701 0.8866421
##     61761     60266     44370     99011     39136     23080     24345    130220
## 0.7381889 0.7588057 0.9093493 0.7999324 0.8126049 0.7887224 0.7521231 0.7504438
##     43562    102683    116085     71031     26969     41870     75270    127781
## 0.8134117 0.6677689 0.8221607 0.8656493 0.8692823 0.9625790 0.7757698 0.6372033
##     42755    125732     65855      5922     46102     15781     77561    104815
## 0.6714681 0.7854710 0.8485943 0.7398779 0.7979273 0.7351543 0.9032600 0.8099473
##      9621     71998    120052     58113     37091     11970     34641     65512
## 0.7661476 0.8883311 0.9013284 0.8619700 0.7886759 0.7316747 0.7349788 0.9743203
##     79353     25603     83997    101586     69535     62018     46349     22931
## 0.8024769 0.7910007 0.7947821 0.8878238 0.6033360 0.8032418 0.8315229 0.6112478
##      5489     73890    127087    114606     87974     92733     60153     40353
## 0.7791580 0.6185424 0.8950531 0.6603304 0.8804560 0.7838518 0.5329312 0.7753715
##     57443    128838     81122    116289     41362     81415    105220    114233
## 0.9543118 0.7437731 0.8732771 0.8158610 0.6451961 0.6383665 0.7871222 0.7153420
##    122444    106349     63860     68123     91248     90256    106274    102929
## 0.6528024 0.7438210 0.7979247 0.7839469 0.8645203 0.7259238 0.8697643 0.8802874
##     61630     71114     60837     43487    113842     87007     22678    121003
## 0.5126989 0.4962888 0.6701843 0.8394716 0.7516298 0.5829464 0.6788121 0.6667675
##     89875    123955        85    115173     10308     84843     86973      4220
## 0.8444037 0.9350956 0.9408992 0.5467913 0.8039138 0.8079159 0.8832035 0.7147928
##     90775     64057     27413    116520     30180     26756     36538     19688
## 0.7298003 0.6120147 0.9006463 0.6317215 0.7913881 0.9039338 0.7456709 0.8206961
##      5355     35784     56651     69218     87861     10328     94655    118318
## 0.7188892 0.8024292 0.8209244 0.6523220 0.7367038 0.7251271 0.8546666 0.9753721
##     68313     15659     50733     54302     86596     11740    124138     57099
## 0.7956203 0.8613857 0.7121581 0.4688810 0.7144812 0.9371335 0.6167357 0.7759479
##     80112     71044     87100     13939     94201    126291     76758     69395
## 0.7937632 0.5854478 0.8689975 1.0068720 0.8710074 0.6944382 0.7362200 0.9623080
##    105870     78218     68595     74406     89776     22869     25840      8244
## 0.8941503 0.8754740 0.7561801 0.8164628 0.9802672 0.7380805 0.8635638 0.9052301
##     14192     62734     44404     31720     62191     97640     52192     66133
## 0.6696976 0.9474105 0.5162441 0.7877705 0.9452298 0.8948371 0.6327631 0.5393800
##     82887     21197     34510     89971     90059    104901     72737     99647
## 0.6616987 0.5802753 0.3359748 0.5464247 0.5673526 0.8164711 0.7101077 0.5552040
##      5535     38768     91778     90845    103589    128922    100004     53998
## 0.6951346 0.6477326 1.0778976 0.7819290 0.6978376 0.6785416 0.8596042 0.7184693
##     34250     24398     97739    105196     88620     21703     97439     86184
## 0.7821553 0.7894654 0.8533867 0.7253177 0.8979552 0.9233741 0.9322673 0.7177365
##     33172     36728     39788     73258    127046     56021     77024      7003
## 0.8633018 0.5098311 0.4782406 0.6314259 0.7566705 0.6474488 0.5790344 0.5737454
##     59383    107873     79559     51217     52167      6915    119999     78079
## 0.7967214 0.8813780 0.8124664 0.8823698 0.9446665 0.9082992 0.7849911 0.7663253
##     47412     68465     66852    116444    101196     20815     53411     20971
## 0.7971626 0.6351959 0.8395149 0.8067147 0.7805337 0.4196899 0.7714166 0.9142365
##    108079     35933     73968     13849     30439       634     78797     30462
## 0.8108090 0.8909135 0.7069236 0.5435543 0.7934099 0.6140124 0.6979141 0.8772042
##     24504     25158    107926     16762     55642     91615    108824     20869
## 0.6442974 0.8882081 0.7500775 0.4257624 0.7603994 0.7843307 0.8117626 0.5460854
##    110523    116469     96494     93213     50060     66096     35335     49029
## 0.7132458 0.8710099 0.6570767 0.7061974 0.8952953 0.7074788 0.8503925 0.9380735
##     98033      1793     72976    112676     49680     96923     85905     76467
## 0.8938835 0.8776523 0.9652564 0.7113913 0.6800441 0.8797991 0.9149465 0.8873858
##    123304     99343     17200    103617    115364    126335     45776     68160
## 0.8169933 0.8673810 0.6019038 0.8631744 0.5933866 0.7300290 0.8792973 0.8932148
##    117836      6120     86283     68589     66331     54626     54756     58985
## 0.8021019 0.7987496 0.8475491 0.7424306 0.7250050 0.5292590 0.7312227 0.6499266
##     88824     37581     31128     45148     82837    127095     62190     41800
## 0.4785447 0.8677699 0.8779577 0.8414981 0.9947773 0.5030111 0.8944935 0.9473997
##     48343     94369     15343     40105     18462     97451     98707    126724
## 0.9338796 0.9677200 0.7293924 0.7733095 0.7400680 0.8145147 0.6340903 0.8349009
##     33981     69459     94734     42380    120313     24547     45640     42097
```

```
## 0.7411482 0.8946185 0.8063352 0.9118650 0.8962135 0.6608429 0.5683188 0.6428707
##     44018     51838     87670     36218     72180    111962     61526    120702
## 0.8458602 0.6306472 0.8677779 0.8210211 0.5997548 0.8100542 0.6813466 0.7106743
##    114740     40324     82902     77394     77650     27592    129621    127266
## 0.8598702 0.8092540 0.9416641 0.7162702 0.9411901 0.8862322 0.8342587 0.5384002
##     54460     61926     20420     12602     63605     75349     29594     64562
## 0.8209596 0.6683633 0.7598151 0.8694381 0.9186667 0.8803043 0.7741442 0.7152740
##    101317     56496     89473     54276     18074     73445     67234      1195
## 0.5168100 0.7580379 0.7107679 0.3873563 0.4001782 0.7229822 0.5502784 0.9626790
##    118260     68057     26746     24764    102199    130058      4480     90618
## 0.8063681 0.7670962 0.7407664 0.7142856 0.8489307 0.5332848 0.9529567 0.9053897
##     88670     71873      1560     84209     35595    125103     79316     74893
## 0.7380722 0.8172845 0.7802908 0.8642600 0.8664828 0.8600071 0.7156197 0.9313758
##     86468     20931       875      6883     85259     48776     58907     96935
## 0.8383150 0.9047501 0.8594033 0.8609923 0.9057239 0.8957555 0.7479629 0.8718624
##     13727    111748     85474    119033     71820      2246     20883     16004
## 0.9140540 0.9633995 0.6959098 0.7834510 0.6355272 0.8324943 0.9569501 0.7317597
##     13269     34429      5267     50560     68366     31724     14818     25081
## 0.8284084 0.7698838 0.9578103 0.6136270 0.7077894 0.6582683 0.7347108 0.9549270
##     78605     80240     79436     19844     47016     36766     93480     74843
## 0.7136567 0.9269695 0.8139783 0.8413202 0.6541557 0.7959497 0.8160165 0.8741815
##     38657     71780     15923     64576      4846    127509    122987     24146
## 0.7510166 0.8102157 0.9593915 0.7513998 0.6924954 0.7025056 0.8038223 0.7328925
##     66607      6386     41708    108965     97429    108826     32453     99958
## 0.7384493 0.8345278 0.8607588 0.7230574 0.8701190 0.7356736 0.8811387 0.7886941
##    130538     66424     19132    114328     75921     91831     98094     17032
## 0.6706621 0.7870760 0.8408760 0.6082308 0.7940737 0.7968294 0.8859614 0.6999809
##    119039     31742     58178     14550     11701     49832    104705     73143
## 0.7858473 0.6930103 0.6231238 0.8241903 0.9161183 0.8252707 0.9167667 0.9100025
##    117332     53600     42993     50567     99963     56663     18313    111420
## 0.8882210 0.8198883 0.7244153 0.8048609 0.8044587 0.5904861 0.5855066 0.5827524
##    121943     70953     95154     25985    122004     19475     57517     13050
## 0.7659395 0.7559954 0.4646854 0.9383463 0.6655152 0.7663788 0.7420387 0.8055501
##     12245     45069     91725     53047     67267     83317     75864       117
## 1.0296620 0.9209996 0.5517166 0.8296914 0.9497640 0.7142001 0.6383135 0.8814480
##     17510     21451    124457     11352     22578    122263     83229      6083
## 0.7944452 0.6843689 0.8370920 0.7491995 0.9671437 0.8083376 0.6298419 0.8367506
##     91047     24289     12307     95394    103458     66428    120061      2528
## 0.7959633 0.8996168 0.8439883 0.7181975 0.8341383 0.8867519 0.8484420 0.9715970
##     15404     19781    100391     48542      1786     35353     87779     95073
## 0.7329930 0.7857059 0.8737334 0.6375539 0.8082621 0.8818626 0.8856718 0.7885750
##     21058     65036     68866     34899     95371     57664     62959    106630
## 0.8169628 0.7581109 0.6381524 0.6384384 0.7273783 0.7238808 0.7685037 0.7147546
##     29189     66581     39549     61537       518     34924     66403     33813
## 0.8638368 0.9457591 0.8231389 0.3919578 0.9701172 0.7722794 0.9215614 0.6486177
##     18132    121773     74645     91848     30033     76215     57788    111462
## 0.7088682 0.7918931 0.7178386 0.9447494 0.6378011 0.8802309 0.8492014 0.8130589
##     77029    108784     20072     32780    106576     34928     58653     96408
## 0.6637159 0.6413749 0.8314779 0.8115186 0.8110567 0.6268380 0.9590334 0.7221613
##     44181     61446     56298     84467     69749    125807     83435      3490
## 0.7768719 0.6462778 0.8890152 0.6247449 0.7236154 0.7194427 0.7304649 0.5500816
##     56294     48828     28557     57230     80852     37153    122626    114391
## 0.7181678 0.8066433 0.8151932 0.8346882 0.8248601 0.8020226 0.7456263 0.6975421
##     72243     72701     39623     94578     97997     35010     22165     46151
## 0.8792020 0.9286555 0.5895963 0.9620922 0.9350849 0.7651122 0.7359053 0.5608427
##      1620      3585     37963     61522     28112     21949      9663      6377
## 0.7736884 0.9627939 1.0026897 0.7196654 0.7295308 0.8269547 0.8535950 0.9155248
##     22641     71267     86954    119908     68647      2059    105345     31074
## 0.7103252 0.9565341 0.7630590 0.5330882 0.7142953 0.8126710 0.7052809 0.8695035
##     98619     59767    128826     97597      7000     53454     88646     13545
## 0.8653321 0.6537463 0.8059422 0.8053381 0.8117613 0.8324258 0.7727480 0.7880821
##     89709     77505    104775    124200      5304     94507    107905      7873
## 0.6926775 0.7738159 0.5890665 0.7881794 0.7195395 0.8064233 0.9469576 0.7234255
##     46752    127191     84267     46475      1762     44785     17603     82684
## 0.8624047 0.8683168 0.8115659 0.4154542 0.9433491 0.8757239 0.4713017 0.7824886
##    115091     85152     99372    112138     70523     53015     36690     27892
## 0.8827375 0.7167383 0.6042059 0.8928588 0.8340165 0.8660341 0.7930222 0.6129346
##     25738     21054     46594      5522     95845    128007     96988    100467
## 0.7858208 0.7841728 0.7472397 0.8874543 0.6328682 0.7976802 0.9041706 0.9001408
##    114894     80484    125466      8285    102665    111515     21504     83837
## 0.8080661 0.7107957 0.4763303 0.7401778 0.8750814 0.8820844 0.7085184 0.8662958
##     24765     95721    111542     93854     65493     25309     63425    119828
## 0.4402217 0.7357342 0.7227460 0.8768626 0.7868117 0.6574306 0.4977662 0.7960112
##     74691     29018     74823     74468      7601     93549     95458    128767
## 0.8741416 0.6339051 0.7041144 0.6712353 0.8631962 0.7908215 0.7101960 0.8894238
##     32898     10437       991     46560      7723     84377     91169    103991
## 0.7769789 0.9526535 0.9593002 0.5957176 0.8833549 1.0473047 0.7810960 0.7125372
##     45353     57979     82870    115117     15173     12995     59827     76268
## 0.5690542 0.6118537 0.6960821 0.8193985 0.9534564 0.7900513 0.5520543 0.9369350
##     69067     19728     31863     18549     64668     69042    102559    116948
## 0.6866921 0.6503849 0.7385164 0.7736578 0.8824471 0.6260984 0.5404820 0.9739330
##     69908    109882     15109     11468     30849     93218    127676    106336
## 0.8378589 0.7943142 0.4275097 0.8110514 0.5712702 0.8621693 0.7749480 0.8075400
##    111843     18228     17768     47237    114002     27579    122547     10705
## 0.5439623 0.7958978 0.7931106 0.5804457 0.9528386 0.5397127 0.7213002 0.7904598
##    127894     13432      3605     45087     45054     23332     57478     94973
## 0.8569709 0.9030493 0.8389166 0.8929592 0.5798712 0.6945471 0.7097340 0.8356676
##     23022     72282    105288      2543     85233      6882    129790     17122
## 0.9696214 0.9866189 0.5815067 0.8183538 0.5745384 0.9029834 0.7420065 0.9125627
##     93532     70379     30258     60913     56271     89884     99130     43900
## 0.8624193 0.8648204 0.8887618 0.8115131 0.8807860 0.8735496 0.8148108 0.6207376
##     99738     71511    104940     56855     79768     10977     89287    119867
## 0.8445151 0.7218823 0.8652319 0.4581808 0.7467941 0.8613586 0.7927959 0.6992151
##    108813     39453     69503     77116     88979     99000     38484    128209
## 0.6968884 0.6602931 0.9396415 0.7379682 0.6444368 0.8633066 0.7057783 0.8517722
##     20903     31398    124886     83400     55670     87028     36067     33369
## 0.8184849 0.8370835 0.7414690 0.5758541 0.7977830 0.7091855 0.8501449 0.8349455
##     33568    103368     97000    117364     21656     26064     48099    120516
```

```
## 0.6277394 0.5534206 0.6620608 0.6570664 0.7215583 0.8988217 0.5789047 1.0218774
##     91832      7109     40970     65649     41223     53578    100952     80480
## 0.5479689 0.8786116 0.7309082 0.7050390 0.7748868 0.5366049 0.8028960 0.8149222
##     61797    103907     94021      2812     41523    104307    119396     99430
## 0.9292420 0.8503650 0.8222161 0.9387155 0.8711710 0.7065074 0.6289330 0.6340913
##     91328     31551     10644    126336     29062     30080    118194     61968
## 0.8735262 0.7387998 0.8369864 0.8524035 0.5572961 0.6762807 0.7831547 0.7688249
##    110042     98720      2410    125618     22994     39519     25762       748
## 0.8073845 0.7158316 0.9123800 0.7710111 0.7590661 0.8073143 0.7984706 0.7169147
##     21669    111761     46182     69039    111733      9916     24758    112727
## 0.7802702 0.8004143 0.7548293 0.6378227 0.8839722 1.1454125 0.5740933 0.7707667
##     87922     33153    129719     17517    107430    129287     72042     99369
## 0.7751189 0.8092554 0.8925811 0.7926218 0.6410366 0.7999888 0.7673850 0.7244406
##     76227     26803    115589     34865     72342     11846    111281      8831
## 0.6443126 0.6631907 0.7558694 0.7235379 0.7106443 0.5394109 0.5720242 0.9197224
##     85010    102458      8045     60853     30789    124070      6565     69282
## 0.7940187 0.6069493 0.6188129 0.4816014 0.6579441 0.7541643 1.0123355 0.8893113
##     51622    117066     72189     19303     62986    100387     22366     30959
## 0.8777237 0.8213808 0.9237724 0.5659630 0.3076379 0.8325245 0.7958939 0.8533170
##     26996     86255     34260     49096     40305     69397     63132     40605
## 0.7799280 0.7890551 0.7052425 0.7475543 0.6160312 0.8589300 0.8278567 0.7253663
##     95852     75194     68743    107054    120477     32614     34558    125883
## 0.8731593 0.5816597 0.8045168 0.7240709 0.8955708 0.7172067 0.7422664 0.9074805
##     13657     94273     38468     14952     89172     60609     32354    128788
## 0.6956880 0.9723003 0.8736026 0.7873768 0.8702572 0.7912129 0.7100974 0.8176085
##     96266      5814     34538     54445     19652     66467     83623     17227
## 0.5386297 0.8416379 0.4202990 0.8520855 0.8057092 0.8791396 0.5370953 0.8126009
##     55998     85952    128684     20207     34247     50137     95790     14080
## 0.8216058 0.8530565 0.7579817 0.6972488 0.7411038 0.8781510 0.9372905 0.8840226
##     17077     50513    106571     67746     83979     59168     82567    118444
## 0.7945743 0.8935630 0.7709234 0.9242582 0.6916295 0.6354929 0.9341060 0.6048948
##     93788     66647    111294      5438     72152     77727    118735     28522
## 0.8205727 0.7548435 0.8293662 0.8919546 0.7769361 0.9698352 0.5377276 0.7629720
##     73734     38197     95596     18693     75933    119029     91041    111662
## 0.8608779 0.8655134 0.8728286 0.8557374 0.5828906 0.9610696 0.8855372 0.8880897
##     92963     13293     35786      6256      9439     28467    114025     87226
## 0.7593131 0.8361033 0.7920856 0.8695561 0.9652557 0.6560462 0.7957835 0.7771372
##     23554     56172     56065    120817     26217      8422     87950     52221
## 0.7286095 0.5221095 0.9081427 0.8502583 0.7536059 0.8650126 0.7128977 0.8781163
##    106194     12709     60818     29562     32209     23967     86249     27148
## 0.7089057 0.7854883 0.7819747 0.8003849 0.7143666 0.7288373 0.8301116 0.8825637
##     84172     79057    120535     93084    118832     50258     61987     14501
## 0.7287078 0.5462292 0.8092240 0.7655694 0.5595202 0.8059705 0.8777612 0.7750610
##     34469     55360     82026     45186    125901     65830     82954     85922
## 0.9245546 0.6468097 0.7012379 0.7154244 0.6539137 0.7879906 0.6276561 0.7658265
##    117793     30291      6597    125735     25871     19282     13506     70011
## 0.8063002 0.4766723 0.9607706 0.8235340 0.9513708 0.5993942 0.8685365 0.4307040
##     51775    129115     84767     58843     59788     57794     56766     70003
## 0.7181965 0.8258923 0.8815893 0.9387422 0.8737998 0.7860305 0.6186625 0.7040734
##     91692     14326     46163      3810     20069     19529    127222    103818
## 0.8581942 0.6980485 0.5617091 0.8385618 0.8129726 0.7338848 0.3926116 0.7360080
##     12786     86361      6249     97011    114274      5416     65834     75176
## 0.9384074 0.8910591 0.8694959 0.8500677 0.8078237 0.8323230 0.8717513 0.6481937
##     12202     95047    110017     58882      3460    121200     34308     24978
## 0.7615310 0.4020861 0.8981288 0.9524401 0.7910446 0.8783869 0.9549050 0.6628823
##     18204     51950     22510     74145     51394    126606     87141     61663
## 0.5263034 0.8849991 0.8642206 0.9616594 0.9356223 0.8017973 0.9560423 0.7262537
##      5401     55294     87499      4411     53618     44815     27670     64447
## 0.9453899 0.7752137 0.8506589 0.7478671 0.7771402 0.9600423 0.6360240 0.9548405
##     90832     63048     75468    114155    129080     21679    110471     18707
## 0.7677839 0.8466270 0.4811191 0.7020172 0.8044127 0.4889521 0.6820860 0.7102672
##    116683    118988     19213     73482     12692     64661     23299    104394
## 0.9340421 0.8735754 0.7579201 0.8476819 0.8796076 0.8195692 0.8613523 0.8630845
##     37864    106688     66335     10145     51889     73578     42799     92725
## 0.8434841 0.7277610 0.8500273 0.8735893 0.7450886 0.8244771 0.7146482 0.7253656
##     51120     14789     92297     66104    109185     95874     66356     39712
## 0.8566055 0.8010219 0.8990709 0.6644740 0.4069573 0.8020103 0.7963230 0.6359834
##     71301     99765      4019     82823    115431     77642     43350    101969
## 0.8559102 0.6509067 0.6955071 0.7729699 0.7968935 0.8710655 0.8084282 0.8000102
##     43187     43536     77114     88125     18624     43661     72593      2742
## 0.3240202 0.8040616 0.6272611 0.7250336 0.8321179 0.9520052 0.4875515 1.0059400
##     32760     61821     97057     73792     31541    113095     11902     91268
## 0.6690457 0.6519371 0.5857391 0.8896690 0.8582149 0.8801330 0.7672814 0.7664531
##    104302     44103     59624    100881      1914    104710     18247     27922
## 0.7647342 0.5993661 0.6400824 0.8638966 0.8257521 0.5437363 0.6016909 0.5473270
##      2173      9013     60130    117513     80988     79815     50814     28941
## 1.0310298 0.9187206 0.6347544 0.7812173 0.8897333 0.6997157 0.7966430 0.8255780
##     21040     69966     89650     47965     45989     58913     48382     21906
## 0.8954450 0.9372510 0.8617281 0.8602384 0.7303696 0.7995420 0.8256278 0.5328725
##     39893    117087     36758     40987     36504     39522     55771     32311
## 0.7792306 0.8121973 0.7610363 0.8175074 0.8596264 0.4251563 0.4164702 0.8599304
##     13882     76903     30768    101918     78399     27891     84302    122932
## 1.0230203 0.6357803 0.7964912 0.8053056 0.7496979 0.7775315 0.7090966 0.7898586
##      1483    121844     22820     93640     67499    104550     32739     54561
## 0.8829927 0.7053567 0.8080824 0.7670028 0.9293384 0.6745348 0.7011166 0.5147611
##      4594     24323     18984     87319     25085      8370     20103     53537
## 0.8927560 0.7966591 0.7956652 0.6652429 0.6327128 0.8027290 0.8554886 0.7193195
##     30911     73626     97518    123941    105526     41547     96078    114395
## 0.6892189 0.6971891 0.8479236 0.7576240 0.7954041 1.0031980 0.8028930 0.3905827
##     36596    108901    123112     79487     30290     58788     33587     77218
## 0.6933623 0.5036640 0.5920635 0.8079310 0.8147863 0.9589398 0.7807547 0.6216661
##     38341    108541     77431     30504     83531     78873     34936     60610
## 0.7517508 0.8478188 0.7792952 0.8074206 0.7799550 0.8042619 0.8085599 0.7464127
##     49529      7933    120539     65763     69835    104561     57738    109887
## 0.8915604 0.8577201 0.9657282 0.7865052 0.7268930 0.8635718 0.7339141 0.4944814
##    116048     35809    129781     75895      7413     23345      9789     48658
## 0.8742224 0.7531667 0.6673483 0.9258824 0.8559963 0.7819371 0.7984999 0.8164347
##     45430    128797     18720     23888     57400     45338     47722    114257
```

```
## 0.7159245 0.8221662 0.8070634 0.6298903 0.6610134 0.7161147 0.7040068 0.4077018
##     19335     27128    107234     66699    126217    102207     51747    120652
## 0.8108052 0.8106016 0.6220352 0.9799641 0.6878623 0.8232005 0.8229419 0.8943513
##      9986     88589     19942    117368     17648     76851     14945     57065
## 0.8535889 0.8058425 0.8660623 0.8049506 0.9537343 0.7776297 0.7550757 0.5231352
##     58620    120488    103711     11634     49429      4990     42022     68343
## 0.8470295 0.8966023 0.7720167 0.8762463 0.9313916 1.0000621 0.5101261 0.6475283
##    114086    109361    130416     11738     78654      5471     78487     84084
## 0.8047279 0.6595051 0.7503210 0.9481850 0.7262162 0.8221649 0.7797355 0.8287936
##     60199      6323    116605     62415     68116    120127     20593    125776
## 0.8750956 0.8204008 0.8040299 0.8570763 0.8732053 0.8340515 0.6732261 0.3693283
##     89850     28036    104272     43817      3094    127656     94336    119133
## 0.4763601 0.5555569 0.6973529 0.7700171 0.6057522 0.8577363 0.8174303 0.8156738
##    104737     38580    115606    118276     58118    111855    104517     64256
## 0.6899946 0.7942926 0.8977701 0.8772877 0.8461229 0.8933331 0.8692910 0.8936168
##    110218    105323     82713     81857     40649     42439     78618     58361
## 0.9304871 0.6047655 0.9546198 0.9698873 0.6545657 0.8639251 0.8818223 0.9679681
##     89698     99629      6601     76120     78464     90646     55990    102529
## 0.8593498 0.8431868 0.8240579 0.8578590 0.7137861 0.6919575 0.8198995 0.7489653
##     77338     63754      4479    129051     99350     13725       526     97257
## 0.7283529 0.8254152 0.9832577 0.8653038 0.7921082 0.9523490 0.7637239 0.9434706
##     19242     99969    107276     95772     94798    108505      8007     10876
## 0.8870393 1.0103330 0.7363397 0.8648048 0.9485172 0.6511325 0.7880142 0.8481936
##     87021    103554     38625     22680     30452    105958    102413     48295
## 0.8626678 0.7917530 0.7302999 0.5665682 0.9785213 0.6936966 0.4676027 0.7941008
##     34435     23432    103705     99195    101587     70529    123443    127630
## 0.4889857 0.7679021 0.6623315 0.4800895 0.7192990 0.6430553 0.9212712 0.8552688
##     28341      6923     22806     72587     30395    113007     96117    101251
## 0.7889781 0.4478315 0.6400195 0.8687822 0.7506777 0.7879582 0.8228428 0.9550972
##     47104     81205     19773     59610    112356     20118     14500     46414
## 0.8265624 0.6565524 0.9030865 0.6226944 0.8138968 0.8203218 0.7811300 0.7544797
##     90232     93180    122171    119211     42394     17577     46835     20135
## 0.8527565 0.8460410 0.7428172 0.7885716 0.8801330 0.6600552 0.7972000 0.7712776
##     18602     86048    114017    129967    118876     11466     17676     41723
## 0.7263132 0.9717710 0.9218626 0.8751731 0.6633144 0.8246326 0.7088929 0.8070355
##     94146     80535     49399     98615    102638     49520    130523     76588
## 0.6324089 0.4821414 0.6974248 0.7858112 0.8737839 0.8579631 0.7510049 0.5330251
##    109721     83125    126044    117982     23292     85408     89459     90403
## 0.7921826 0.5592620 0.9342525 0.8151154 0.6967909 0.8396900 0.5593159 0.7774013
##     20253     31270     37425     89152    127634     88764      2852     37410
## 0.7557935 0.6982650 0.7889809 0.5056219 0.6332050 0.7864879 0.8456472 0.7242432
##    119113     45327     16884     78424     76931    112181     77307    114078
## 0.8600712 0.7504863 0.8391486 0.5591370 0.8104651 0.5958746 0.6847866 0.7317609
##     73298      4781     23578     83642    106915     22717    112152     36463
## 0.8314151 0.7651392 0.5538710 0.9258404 0.7745415 0.7830325 0.8200625 0.7379667
##     77259     35807     77027     61770     97237     91309    110627    113347
## 0.7009014 0.7523094 0.7483742 0.9331286 0.5854576 0.9076764 0.6366485 0.7841904
##     53637     64632     50672     88216     89975     72127     61976    122146
## 0.5685887 0.8592636 0.7994913 0.6059633 0.7966255 0.6295132 0.7620537 0.8902165
##     15715     19143     48408     24939     14178    127215      4214    116341
## 0.5982029 0.3908948 0.8733857 0.7951682 0.8897185 0.6989987 0.6353277 0.7207182
##     52229     54258    109991     37671    107065     34212     65299     18678
## 0.8025734 0.8701126 0.7825827 0.7485664 0.8097853 0.9731562 0.8570746 0.8827398
##    112878     67785     21470     96118    124449     22611     56814    127211
## 0.6540764 0.8349626 0.7911177 0.5377404 0.7901446 0.6960895 0.7905300 0.7503782
##     52964    103598     15124    117672    108834    109876     13472     57687
## 0.7190016 0.7260490 0.9545880 0.8420437 0.7880833 0.8869708 0.9533861 0.7593794
##     29695    125587     15308     18429      5592      1342     34912    124936
## 0.7581582 0.8327701 0.7974590 0.8305444 0.8061537 0.9453497 0.8220649 0.6860380
##      9961     87643     43206    121367     56961     36590     11143     92961
## 0.8583987 0.6951464 0.8173411 0.4157838 0.7844471 0.7188469 0.9648802 0.8675641
##     29561     83146     55192     10113     46081     13759     48404     61866
## 0.8057947 0.8546341 0.7789669 0.8626801 0.7144252 1.0113845 0.8214438 0.7989531
##      6078    103391    122954     65931     92166      9016      5758     49854
## 0.9263933 0.8024607 0.7930062 0.9742739 0.7327850 1.0156382 0.9485710 0.8844954
##      9259     77457     80940     56515     84493     77553    109522     72781
## 0.6074041 0.8030800 0.7760897 0.7617069 0.7370114 0.7974662 0.8182786 0.7290544
##     29832    118419     54937     59790     59518    100728     88375    103387
## 0.7854886 0.7144872 0.8791894 0.7758184 0.7083362 0.8810535 0.8168912 0.8097468
##     92257     99717     30843     74345    114035     59632     41911     50160
## 0.8762035 0.8370554 0.6439412 0.9593302 0.7414747 0.6900557 0.5616744 0.8929416
##      5294      8861     73513     70969     71592    112131      1912     37797
## 0.8578797 0.8538035 0.8316957 0.7977953 0.7495646 0.9461263 0.6404027 0.7679609
##     73786     96545    128957     44844     10621     80986       809    119819
## 0.6317263 0.6475047 0.6624553 0.8820771 0.8408306 0.8839341 0.8104745 0.8062991
##     63962    126221     53508     89670     40664     49044     49407    124577
## 0.6372114 0.5118961 0.8261423 0.7991032 0.6853349 0.8694024 0.8913467 0.4469119
##    109437    118322     33908     65131      6161     67950      8375    109514
## 0.6819768 0.6774993 0.7017575 0.8185599 0.7645065 0.8577931 0.8018509 0.8113170
##     13073      1474     33127     38731     96623    117184     71492     97244
## 0.7423650 0.9698836 0.8151225 0.7222508 0.8166202 0.7780016 0.8550809 0.7031831
##    118289     80071     38767     40439    121927     77122     40220    118071
## 0.7296484 0.8630829 0.6449295 0.8776206 0.8012025 0.4854641 0.7926903 0.7544657
##     61948     58962     25333     56762     60895      8559    100407     31141
## 0.9030211 0.9015219 0.7187554 0.7125602 0.8846151 0.7612013 0.6237031 0.8852877
##     72755     85116     54468     49473     74873    119852     27129     17372
## 0.8883682 0.8876007 0.7010421 0.9227834 0.9413610 0.5924770 0.8719778 0.7486483
##     50146     23373     96720    104557     16381     72561     11043    109461
## 0.8863629 0.6413331 0.8256523 0.6997215 0.8119669 0.8802070 0.7073402 0.6889256
##     66275     88213     41180    125104     82278     10870     42272     89808
## 0.7476668 0.7029146 0.7950917 0.7453251 0.7806501 0.9482290 0.6831812 0.6993992
##      1532      2534     83697      6873     37790     18769     66580      5837
## 0.7758434 0.8206344 0.8861864 0.8606119 0.7998858 0.7808746 0.9757226 0.7820666
##     73300    101729     51884     77747     23573     64891     36244     59116
## 0.8802807 0.7737388 0.7318295 0.8143784 0.6372271 0.7545981 0.5584288 0.6310490
##     57944     21260     96392     57163      7961     31758     25254    101119
## 0.5285930 0.5652105 0.6317111 0.8577560 0.7252081 0.5855853 0.6774213 0.9300274
##     25431     46252    127584     82055    127262     36330     69641    127268
```

```
## 0.8706810 0.7893527 0.5432219 0.9064947 0.8376486 0.8038130 0.6368752 0.7628109
##     66703    116103     69186     74862     45431     25597     70876    102708
## 0.9004522 0.8815079 0.7831949 0.5059888 0.9401834 0.7323899 0.7186362 0.9506257
##    104459     59786      9440    104896     35559    113481    113789     89416
## 0.7092912 0.7218704 0.6842168 0.7279981 0.7885178 0.8958025 0.6824451 0.9344088
##    118420    129111    105737    115100    108273     48352     65175     47621
## 0.8364477 0.6999742 0.6839483 0.9025795 0.8445024 0.7945799 0.8875079 0.7192834
##     49445    128267    105115     25104     49337     18090     94640     16227
## 0.8589887 0.7918821 0.6345141 0.6744763 0.7186497 0.8504213 0.7211207 0.8634112
##      6677     83055     23464    126328    104672     40083     32669      5892
## 0.8706896 0.5822297 0.9272870 0.6921692 0.8122147 0.4294083 0.8206392 0.9408047
##     19445     48549     99048     79122     23958    122808     19432     71707
## 0.8975309 0.7149203 0.8045351 0.7289018 0.8237579 0.8118152 0.9583489 0.5952902
##     29539     96672     51694     73345    120501    103246     69545    113627
## 0.8299863 0.4836585 0.9457583 0.7699796 0.7582594 0.8075155 0.8864124 0.8504440
##     90483     50161     53067    101265      5430     77335      3619     63604
## 0.7777973 0.7905524 0.7375562 0.8574760 0.6927843 0.5752958 0.6118199 0.8666424
##     14210     84495    119749      4636    111563    100313     93762     81760
## 0.7554769 0.8669827 0.9020826 0.9140153 0.7967597 0.7926702 0.6863516 0.8215908
##     59566    121997     29701     85855     88894    109483     52086     93336
## 0.9716498 0.8018182 0.6603255 0.7004893 0.6280736 0.7897984 0.8627102 0.8040977
##    101231     27056     44560     64895    106325     77117     72714     79388
## 0.6988023 0.7776121 0.9801022 0.7184151 0.7261237 0.9006255 0.7364936 0.9384731
##     61485     76483    112234     14098      4489     77447     14464     96295
## 0.6542723 0.7022298 0.7934493 0.8453772 0.9018186 0.8616139 0.6502053 0.7214591
##     23749     59784     91877     17716     35336     30181     48062     60337
## 0.7399472 0.7257103 0.8637163 0.7777633 0.9487422 0.6720039 0.7832822 0.6042651
##     30259     98167     65568     18494    118302     20550     78413     87893
## 0.8744880 0.7943472 0.7015129 0.6331310 0.5651964 0.8187764 0.6760510 0.7869876
##     80866    104921     36474     44606     61878      2563      7206     43241
## 0.7817043 0.8664152 0.8968901 0.8941951 0.8029762 1.0291644 0.6147741 0.7637866
##     80114     48454     36375     87444      3622    106619     31108      5681
## 0.6402553 0.6369824 0.6430370 0.6949627 1.0278410 0.8686853 0.6261374 0.9248760
##     89197     12234      1864     51951     12333     22141     88655     47255
## 0.7824224 0.8780221 0.9255983 0.7338610 0.7478689 0.7371280 0.9387241 0.5640174
##     11547     25737     42453     11433     63066    124264     91432    106237
## 0.9412618 0.7863791 0.9332547 0.8315909 0.8343602 0.8320126 0.7316102 0.7356048
##     94756    111750     55494     57324     40377    104329     10104    115172
## 0.7897029 0.8816742 0.5743759 0.8866374 0.8463009 0.8100150 0.7434757 0.8151648
##     27449     71190     84077     30825    117914     50776     25428     85673
## 0.6639333 0.7829365 0.4789786 0.7710572 0.6626313 0.8443294 0.8569867 0.5813646
##     44378    110982    125084     22345     18875     21780     35015     82195
## 0.8634157 0.8722509 0.9305055 0.8005063 0.7110277 0.8750270 0.7303192 0.8602036
##     28777     80349     98007    110171     56972     55345     34529     20090
## 0.6392241 0.8010641 0.6966652 0.8765820 0.8268572 0.7326937 0.8379574 0.6238777
##      5281     46986     98065     40368     26008     25243     81668      8561
## 0.7717286 0.5865077 0.6291882 0.8791877 0.8786271 0.7463686 0.9831411 0.5984292
##     69698     59075     75569     35514    126972       405     38698     47632
## 0.7901590 0.3983224 0.7169312 0.9266001 0.6666309 0.9817297 0.7328420 0.7663531
##     67821     87924     22414      5883      5680     19039    111161    101179
## 0.9417407 0.8606725 0.8018380 1.0238619 0.7995173 0.6580391 0.7632863 0.5089436
##    121217     70471    112001    130277     71100    127744     24222    122114
## 0.6090047 0.8054337 0.8164197 0.6712945 0.8044674 0.7648419 0.5631185 0.8718553
##     58762     39961     54886    127271     79839    114462    113840    125072
## 0.9054916 0.9898089 0.6446203 0.7628809 0.9320299 0.7721446 0.7898592 0.9291107
##     25698     75293    116582     98362     65367     56520     59936     47646
## 0.7219761 0.6232557 0.6732358 0.7642719 0.9373825 0.6639741 0.8620690 0.6863810
##     72303     19534    128351        56     79018     42768      1449      6113
## 0.8492457 0.7032443 0.8575007 0.7973419 0.7878999 0.7196441 0.8355006 1.0286323
##     22418     97080     71393    122421     90578      7292     37362     61702
## 0.9836127 0.7168127 0.7876910 0.8708164 0.5720193 1.0243218 0.4736820 0.7737578
##     65645      3351     17560     14909    103402    116563     91141      4066
## 0.9555344 0.9593854 0.8101459 0.8249735 0.7293614 0.7737096 0.8773053 0.8253208
##    108126      9872     56358     75135    106953     70984    100732    102541
## 0.9417570 1.0032038 0.7572332 0.9535119 0.7984036 0.7738782 0.9338991 0.7153363
##     55943     74925     52547     17441     83510     29100     32807     58844
## 0.9727731 0.6041968 0.8031299 0.7340504 0.7286689 0.8703271 0.4977754 0.8822384
##     73433     84307     36006     77511     18328      2520     78215    106959
## 0.8961002 0.7277049 0.6649677 0.9473710 0.5899239 0.8064033 0.5427068 0.7031109
##    123480     21637     33327    121621     79817     17126     38185     67994
## 0.5249456 0.6516025 0.7553696 0.8726466 0.5421968 0.8676041 0.8279025 0.8099642
##    121511     62020     25898     73609    119314     14327     74850     38525
## 0.7916823 0.5079531 0.9592569 0.4387024 0.6030654 0.7959668 0.6991622 0.8798800
##     62654     19385     15192    112359     84246     37507    115657    126451
## 0.5550210 0.8303504 0.8720318 0.7362374 0.8846928 0.7811791 0.7859394 0.7469007
##      2989     45956     64771     72353     82999     12647     10501    108957
## 0.8745681 0.6387933 0.6373085 0.8727985 0.7774223 0.8547260 0.8693747 0.8229195
##     84895     41355     13738     90692     12415     19080     40841     17035
## 0.8289529 0.8801591 0.7947410 0.7549343 0.6929597 0.7312393 0.7783526 0.7934235
##     79711     83690     15676     26420     15357    112932    123306     71928
## 0.7423583 0.9007206 0.7397375 0.7233969 0.8073619 0.5099136 0.7705960 0.8116559
##     94682     87626    106705     88468     23662     84432     77522     46059
## 0.4858707 0.8084950 0.6628094 0.8657112 0.6622755 0.4883986 0.8608775 0.6988629
##     94614    126950       148     52368     15034    111506     43129     22631
## 0.8836666 0.6742457 0.9116494 0.8094225 0.9667867 0.7779201 0.6748830 0.7724471
##     83481     32691      3715      9761     37332     68730     69054     47723
## 0.5548192 0.4004212 0.5478449 0.8960656 0.5604558 0.6755723 0.6296386 0.8389020
##     75750    110849      8647     75318     62057     22983     73566     68894
## 0.8559355 0.7955146 0.9522397 0.8701609 0.7510239 0.8623112 0.7120206 0.5847665
##    119099     26799    114209     26849     76370     64940     22200     65035
## 0.7851851 0.8506837 0.8695610 0.7224046 0.9533330 0.6386718 0.8058709 0.8163931
##     99073    109804     32538     85310     46980      5432     35450     61237
## 0.7336039 0.8820670 0.7818257 0.7220009 0.7034689 0.8651722 0.8012996 0.9559122
##     59531    111695     64065     41241     81661     71561     13489     38377
## 0.7797996 0.8225989 0.6621923 0.8240756 0.7901983 0.7963806 0.6985263 0.8102355
##     68166     44335     21483      2162     57151    129674    128958     68087
## 0.7867328 0.7733232 0.6994494 1.0140344 0.7090021 0.6779873 0.8330159 0.9645663
##     67709     42624     17559    117621     16043     61632     95853     50579
```

```
## 0.9255523 0.8896815 0.7433315 0.8789141 0.7698815 0.6136248 0.8150687 0.7363048
##     40896     74049     14542     60940    111613     30131     26883     83595
## 0.8855168 0.7516531 0.8792657 0.6188314 0.7221323 0.7893399 0.7349565 0.6292396
##     67729     59086     17813     32204     25373     35161     20405     38139
## 0.9036180 0.6929635 0.7305404 0.7000793 0.8529688 0.8892921 0.6932621 0.7983950
##     87254     49003     85672    102554    107197    118512     46227     54256
## 0.5973217 0.8111852 0.7986375 0.7508232 0.8755800 0.5093400 0.5323854 0.9118424
##     53387    104362     77949     53917    123292     75710     81888     19323
## 0.9649267 0.7973719 0.8228231 0.7973259 0.8944842 0.9052821 0.6683994 0.6344662
##     45418     76667    116293     16577     30580      1584     87688     77825
## 0.5918865 0.7248579 0.8700512 0.8916852 0.6280617 0.9985668 0.8077221 0.7289716
##     26099     46575    108799     23778     10782     29569     64901     95630
## 0.8078348 0.8122505 0.4833098 0.6580025 0.9188316 0.8062502 0.8143832 0.4695542
##     29686     56139     69734     21336     11231     21201     29475     30951
## 0.7277139 0.8616808 0.7849571 0.8305653 1.0154058 0.7315198 0.8222701 0.4053777
##    121689     93671     27412     52411     31560     17337     66608     29030
## 0.7085590 0.8551796 0.8623107 0.7011897 0.7155517 0.4033846 0.8229624 0.8805523
##     84534     86365     99622      3500     80410     21724     61085     94252
## 0.7718249 0.8988574 0.9577727 0.8829710 0.7089182 0.8067214 0.8139258 0.7241992
##     12287     40726    113059     94255    113334    125122     20278     44067
## 0.7936097 0.5761564 0.7289177 0.6343390 0.7480838 0.7944874 0.8378490 0.9293762
##     77566     91513     70927     61035     55497    117969     80145     30635
## 0.8456365 0.9761125 0.8761091 0.7149466 0.8558897 0.6445963 0.8763543 0.7433334
##    104081     54048    121786    112578     84249     26450     67031     94595
## 0.8608764 0.7256112 0.5284543 0.9025866 0.9214923 0.7423296 0.8710275 0.7797850
##     21448     48373     38886     87516    105540    102508    123094     52266
## 0.8902310 0.6333232 0.9470063 0.7760265 0.6869699 0.5279213 0.7358126 0.8522182
##     22048     35605     71211     20157    112608    101919     50173    123315
## 0.6391520 0.7279575 0.7928973 0.7606176 0.5619393 0.8077116 0.8432467 0.8332595
##    117924     33774      2385     27955    103541     25236    101516     70706
## 0.7905934 0.3936303 0.8028068 0.8424913 0.8114757 0.7254669 0.6461184 0.8391419
##     21789     32070    115269     26325     48602    130498    112117    130215
## 0.8126980 0.9047879 0.6403007 0.7190175 0.8124050 0.7849544 0.7978865 0.5866562
##     52532     24857     12981     61155    128453     56639    109580     69579
## 0.8801838 0.4768190 0.8915089 0.6856569 0.8348275 0.9587377 0.7046660 0.7195233
##     96159     40282    109541      8277     70278     61212     72142    116091
## 0.7746730 0.6979816 0.7351725 0.7687544 0.8162588 0.7719713 0.6735762 0.7835161
##      8892    108782     55599     49269     69490     77826     89309    100671
## 0.5121174 0.8830523 0.5915397 0.7786139 0.7362537 0.8877441 0.7926664 0.6296398
##    104371    113250     22309      6392     67245     68046    113208     27821
## 0.6780967 0.7898512 0.8150658 0.8491883 0.9005850 0.9639155 0.8603760 0.8739145
##     32759     25821     64563     99992     78986     62390    120064    130513
## 0.8119263 0.8691183 0.8204532 0.7422866 0.7961576 0.7834382 0.9466024 0.7658157
##    128229     88195    126333     38213     57183    130705     45560     22485
## 0.5445109 0.8214296 0.6952685 0.8792512 0.8334656 0.8475396 0.7363037 0.6928977
##     96114     20546     53727     77943     64883     53353     17370     32278
## 0.8097731 0.9029943 0.7244036 0.7158894 0.8489780 0.9513794 0.7348074 0.7863383
##     24494     17447     24100    120179     89145     42737     10076     42392
## 0.8272094 0.7520455 0.9074169 0.7354163 0.8011973 0.8890003 0.8670800 0.9056256
##      1480     49216     21697     96667     32238      7529     44459     86128
## 0.6865962 0.7972383 0.4082814 0.9618131 0.7763348 0.7063071 0.7443429 0.7165644
##     11904     18722     61756      7800     48502    116455    123460     49946
## 0.9371488 0.6833455 0.8902420 0.8091040 0.9432353 0.8294123 0.7468726 0.7193867
##     48802     79468     18763    124018     80889     86002      4017     62352
## 0.9469695 0.7085620 0.8645886 0.8462184 0.9371941 0.9048170 0.8259686 0.8164033
##     52940      5276     92485     38052     31797     93659     65453     21689
## 0.5972582 0.9722042 0.9279989 0.8322450 0.8651489 0.9685292 0.9168804 0.7962790
##     79048     59119     21487    125662     94335      5201     23703     52904
## 0.9528074 0.6303680 0.7603201 0.7588203 0.7520176 0.7761127 0.8835303 0.9298295
##     56733     64184     56207     87968      9965      6293    100611     56477
## 0.7546187 0.7005351 0.6161474 0.8461807 0.9500433 0.5278919 0.7802325 0.8987535
##    123208     49295    115026     38835      1435     39794    128564      9982
## 0.8356857 0.9537485 0.7957497 0.5580892 0.8148808 0.7300033 0.7965560 0.5630103
##     77379     49006     37446     10287     48902     30280    114664     91769
## 0.5567525 0.5879607 0.8674510 0.7105850 0.8824710 0.5089670 0.9076400 0.5646558
##      6566     71895     97436     36918     57447     28453    107384      7994
## 0.8483931 0.8677499 0.8086502 0.5884985 0.8504924 0.8896980 0.8106454 0.9516344
##    130638     32901     50823    116190     47295     15682    128998     96137
## 0.5280393 0.8020699 0.7964568 0.5739717 0.8570640 0.8226677 0.4671448 0.4066278
##    129223     20959     21954     26232     51474     66961     73892    113586
## 0.8269951 0.8844677 0.9508709 0.7375149 0.8286364 0.9450969 0.9723725 0.7184897
##    114386     84524     50651    108492     91976     78115     79006     80555
## 0.8801647 0.7223616 0.7991054 0.8615499 0.9639405 0.9901370 0.8128903 0.8685783
##    116312    114401     20769     77439     23123    130583    108256     93057
## 0.7814748 0.8078377 0.6801678 0.8121422 0.7394299 0.7907384 0.8047410 0.7999650
##     58539    122901      8560    104729     17719     61414     68033     71488
## 0.7969479 0.8553473 0.7944450 0.6570056 0.7309080 0.7305467 0.8117352 0.7577000
##     36925     28046    118602    127559      5199     55783    127394     25140
## 0.7743664 0.6532370 0.6497276 0.8489383 0.8122450 0.8039936 0.9252703 0.6068409
##     67827     46283     20006    119154     93047     63669    128345     86469
## 0.9683264 0.5499670 0.8100509 0.7109603 0.8973919 0.9569634 0.9338181 0.7770549
##    127854     50108     32589     86854    100666     23532     54711     39269
## 0.8430472 0.8377713 0.6421297 0.6390959 0.7009348 0.9439027 0.7938794 0.3571441
##     20605     24962     26923     23644     27283     91469     87997     77151
## 0.7607693 0.3894325 0.8091064 0.5894789 0.9120947 0.8236125 0.7897083 0.9241342
##    128784     46210     65806     95578    126010    117877     19661      7824
## 0.4610373 0.8675666 0.9341563 0.9260067 0.7812195 0.9249645 0.8488175 0.9494354
##    118171     38673     30546    105945    101582     63286     72016    101014
## 0.7110303 0.5546656 0.7869128 0.8704927 0.6283907 0.5703577 0.7943648 0.8141602
##     35378     38979    102161    122328     73717    123484     25040     20350
## 0.8520340 0.6531855 0.7107354 0.7215129 0.7218047 0.7681637 0.6187899 0.4760846
##     63020     60556     15810    116357     57058     70770     57822    105124
## 0.9472228 0.8150838 0.6806401 0.6893702 0.7416461 0.7244782 0.9617297 0.7978481
##    130462     53159     49903     26509     15264      4339     73689    128455
## 0.7487322 0.7121621 0.7789762 0.6606167 0.8654958 0.9504172 0.7783415 0.6936578
##     60535    100949     14989     21074    128818     43064    100425      1922
## 0.7301338 0.8885941 0.8944979 0.8043909 0.7387334 0.6648554 0.8090350 0.7808277
##      4535     88788     47734     97900     10424     22929     65535    125020
```

```
## 0.8895492 0.9570453 0.8522614 0.4881508 0.9495371 0.7801375 0.9567931 0.6784028
##    105101     79458     50345     82461     56982     51271     18898     92311
## 0.7941343 0.7129624 0.7399306 0.5305764 0.7377611 0.9293225 0.8152029 0.8403570
##    119456     80479      3031     89329    126664     26542     66022     44851
## 0.7849169 0.9016770 0.8323818 0.7105251 0.8776227 0.8051648 0.8924256 0.9504541
##    115398     96323     31473    126688     29049    115607     47939     83431
## 0.4188254 0.9410568 0.8017540 0.6772121 0.8997276 0.8683414 0.7915549 0.7058273
##    106256      5302     86113       566       990    111778     30919     15901
## 0.9863647 0.8421072 0.5973589 0.5246339 0.7350334 0.8781811 0.8734292 0.8646712
##    106331    118084    101097     94705     63329     33618     12319     87229
## 0.6816320 0.7177345 0.8835033 0.5604709 0.7267836 0.8022206 0.9533342 0.8727321
##    106063     86630     67671      2120    103826     86206     68972     44715
## 0.9319386 0.8026222 0.9178869 1.0255702 0.7245110 0.8882010 0.6979296 0.7324226
##     70001     78826    106799    114249     74176     77802    111899    110056
## 0.9514979 0.9595679 0.6001023 0.6454467 0.7983282 0.3278740 0.8820088 0.8095311
##     59015    107729    130432     67510     57365      9701     88921    128346
## 0.5703711 0.6231031 0.7589092 0.8858241 0.5856374 0.7885368 0.7646619 0.7635472
##     90114     31068     49681     59861     70847    103706    119914      8644
## 0.9498456 0.6728042 0.7787590 0.7302315 0.9342803 0.9327303 0.9469920 0.8813310
##     76419     38737      6891     22119     51452     63280     12354     99334
## 0.8032704 0.6662908 0.6263759 0.6854882 0.7733351 0.5400092 0.7708042 0.8768751
##    106612     47404     22802     86200     28445     47593     80183    104628
## 0.6979373 0.7297523 0.8735317 0.3300486 0.8796485 0.7837716 0.9586590 0.7897407
##    129787     19442    130517     67283     54983     63073     92366     78608
## 0.6918633 0.7024504 0.6722093 0.6344776 0.4210174 0.3030892 0.7953064 0.7549945
##     10242     82365     14737     66718     12353     94023    107091     89960
## 0.8644470 0.8922850 0.8535349 0.8667329 0.8907435 0.8839534 0.7979982 0.9404635
##     27394    116294     57136     84913     92117    103226    115950     21823
## 0.4923807 0.8794924 0.7941009 0.7783732 0.8753541 0.7383458 0.9721520 0.5866474
##     79592      1147     42865    124357    109406     82609     82541     67797
## 0.9168713 1.0245735 0.8160848 0.5480264 0.8059868 0.7001083 0.6959428 0.8166441
##     58345     23255     43058     82493     81547    113005     48076     53892
## 0.8862726 0.7145314 0.8032902 0.5986465 0.4717627 0.7326778 0.8614592 0.8261864
##     20394     54438     53607     78395     89215     17515     66058     32227
## 0.7459775 0.8849290 0.8970619 0.8843374 0.5107707 0.8869357 0.8925966 0.8756501
##     36891    101747     48438    124781     71365     56926     38898     22849
## 0.8377670 0.8583854 0.8067328 0.7405887 0.8207380 0.8830134 0.8188153 0.8930607
##     80436     67892     24468     12348    123782    112780     47550     50080
## 0.6947387 0.7974178 0.8837532 1.0265056 0.7512130 0.7510727 0.7692929 0.9349872
##     30331     72720     92871     63361    122946    101616    103196     73906
## 0.8662680 0.7831836 0.6396807 0.6472205 0.7408368 0.8234323 0.4855851 0.9076964
##     29797     52078     76367     33668     41915    130327     76595     65694
## 0.8112276 0.7424568 0.6165139 0.8792032 0.7859753 0.6138676 0.7740115 0.7856257
##     79930    106027    126193     92054    115717     59935     19908     22306
## 0.9639124 0.6096811 0.8640680 0.7358200 0.7882611 0.7355656 0.4939842 0.8725157
##     11175     52277     56579     64360     46859     28988    129431     91879
## 1.0403316 0.6234838 0.8828395 0.3162170 0.6826825 0.8235550 0.9073586 0.9066040
##     89647     56483     70762     88155     21281    106338     87288      4946
## 0.6417516 0.5701393 0.7278608 0.8768368 0.8100088 0.6501203 0.6483514 0.9910957
##    105824     23697     28490     69815    105652    117532     52190    103954
## 0.7446013 0.6449473 0.8123162 0.6204967 0.7616809 0.8173696 0.7382951 0.7763006
##     97626      7195    121038    130315    103679    115867     40171     75108
## 0.8667252 0.8800607 0.8038321 0.7736853 0.6509544 0.6414229 0.6682663 0.7060882
##    113622    125738     55156     73835     94729     32352        75     52326
## 0.8735715 0.6326192 0.6701249 0.8986815 0.7258797 0.7726986 0.9975626 0.7175486
##     62898    103358     23674    118202     78728    105325     69572     35027
## 0.7414997 0.8671975 0.5718131 0.7176016 0.9378788 0.7969123 0.9401458 0.4363514
##     33907    129912    108858     16481     17752     66940     19577     70798
## 0.6929054 0.9180219 0.7920446 0.7157480 0.8693738 0.7571430 0.8065035 0.6710782
##    122379     58661     95979     69488     56475     30035     66388     43814
## 0.7561031 0.7507545 0.6783263 0.6712636 0.7187513 0.6927781 0.6294383 0.8025858
##     29186    113368     10794     37245     56694     83658     44863     32054
## 0.6356575 0.9467018 0.7279211 0.8055369 0.8653209 0.8444692 0.7138808 0.8663050
##     75497     50891    112711     69352      3594    110338      1301     69817
## 0.9392437 0.4999551 0.8911221 0.9503583 0.9402559 0.7882518 0.8297176 0.8936823
##      5765     17733    114442     65139     15121     99344    110742     70855
## 0.7893403 0.5502598 0.5163530 0.6643662 0.3865294 0.8779517 0.8696448 0.4517533
##    127344     97978     99749      7932     45416     82720     78478    108918
## 0.9129083 0.5816774 0.8784836 0.6673605 0.9595419 0.7491473 0.7126800 0.7732822
##    126973     40547     32703     44187     57715     36556    113490     25344
## 0.5950330 0.6611359 0.6759685 0.8714408 0.7028930 0.6828804 0.8059497 0.7328999
##    113945    116374    115588     25395       332     20514      6482     44551
## 0.6723422 0.7411872 0.9588607 0.8106308 0.7525352 0.8034262 0.8019980 0.8205561
##    101484     58809     77865     78336     77648     98559     84634     51801
## 0.4029700 0.8211482 0.7986201 0.7602079 0.7981587 0.5736404 0.7951950 0.8620076
##     10318     49215     28880     45623     25262     92162      6608     96468
## 0.8064411 0.9508053 0.7895495 0.4415527 0.7261281 0.4887128 0.7730909 0.8788709
##     80451    108732    113813     13108     41332     76628     52506    106445
## 0.8548936 0.6971221 0.7692844 0.8569719 0.8067297 0.8651794 0.8236307 0.9127921
##    100109     26162     41842     93985    114791     46187     63897    105995
## 0.7249521 0.8119702 0.8352033 0.3523857 0.7560846 0.7154780 0.8655372 0.7886110
##     93835     85371     29447      9703     51876     39531     33207     84304
## 0.7567333 0.7087337 0.7998710 0.9317141 0.7689064 0.5247771 0.7788871 0.8638899
##     45817    126640     34191    108462    107826     27928     62903    128542
## 0.5917061 0.7040502 0.7048539 0.9253911 0.6606448 0.7986505 0.8604847 0.4545387
##     80683     17698     81464    118643     93411     99867     44925    128142
## 0.8746509 0.8197389 0.5823034 0.5419585 0.7727896 0.8626519 0.7896880 0.7728154
##     83712     14739     90599    116481     76811     12077       176      6980
## 0.5030492 0.8385303 0.7205599 0.7909296 0.8483507 0.6886694 0.8491420 0.7754034
##    117138     60074    114618    118359     76596     49912     48415     34280
## 0.8201577 0.7027587 0.5818309 0.7989270 0.5655380 0.7828395 0.7205350 0.7330478
##     99941    109625     79744     80501      1954     86304     25030      5591
## 0.9464789 0.6923056 0.8289986 0.8787673 0.6798913 0.9324143 0.9546869 0.7860689
##     29288     45347    128870    128006     23062     86712    113314     34036
## 0.9031565 0.9585170 0.8625941 0.8541930 0.5601287 0.7189377 0.5615336 0.8683137
##     93097    129508     94719    119958     35914     89085     74798     44114
## 0.7762473 0.9216485 0.8628566 0.8053942 0.8601622 0.7162684 0.6486687 0.8759537
##     94071     86245     97174     70565     15670     78249    113311     65179
```

```
## 0.7947924 0.3046791 0.7842936 0.4952754 0.7292273 0.7799546 0.7939128 0.7798187
##     58540     31852    101845     61139     59620    101751     37373     53809
## 0.8811140 0.9460523 0.8893970 0.7158416 0.7186485 0.6766254 0.6444366 0.7714447
##     66051    115489     57972     97718     38729     82935       524    129381
## 0.6700855 0.8108241 0.8239509 0.9870908 0.5480060 0.7288801 0.8105110 0.7401393
##    120363    107168     41876     69679     45146    123089    107372    120407
## 0.8514325 0.7870143 0.8676247 0.6576891 0.9487876 0.8090600 0.7953884 0.6855672
##     69274    111976    120824    120379     20876     69542     71884     42772
## 0.8086968 0.8964188 0.8407881 0.7063098 0.6571866 0.6958707 0.7630597 0.6499090
##     15578      3385     89335     67272     69627     67879    107731     73418
## 0.7138709 0.9300481 0.8103095 0.8637061 0.5150632 0.8165876 0.6964075 0.4514714
##    116728     29210     99361     20516     93510     53528    102440     52761
## 0.7717723 0.8250248 0.8642781 0.7142147 0.9327637 0.6078438 0.7316767 0.6482596
##     98556    125302     69063    106885    111797     84297    122740    129021
## 0.8493484 0.7938722 0.8397464 0.8020106 0.8079852 0.7649326 0.8737928 0.7494010
##     27582     12148      5726     43123     48158      5838    126070     37670
## 0.7434601 0.5985605 0.7984111 0.7293481 0.8356754 0.9263631 0.8301871 0.8222634
##    112431     22330      1465    109904     94666     42041    101474    118808
## 0.7261345 0.7965352 0.8502414 0.7907158 0.7725503 0.8251043 0.7832515 0.4871222
##     41667    114848     53803     79169     25096     36259     67874     74641
## 0.8376117 0.8050304 0.8904867 0.5777055 0.8498406 0.7193200 0.8233874 0.8346188
##     58106     69983     28623     39798     60494    122449    105979    101382
## 0.8728956 0.7598578 0.6869178 0.6348451 0.8713508 0.7366737 0.7909803 0.8665495
##     91115     54206     16348     56760     76190     98374     40809     19230
## 0.8504017 0.8151412 0.6369303 0.4748767 0.6560481 0.7308667 0.9043083 0.8765724
##     68267     46236     91426     60983     38315     84892     26598     23361
## 0.8020504 0.6924217 0.8907292 0.9278828 0.5640996 0.9407458 0.7658881 0.9040669
##     27231     11120     77638     60967    118699     58321     45287     51312
## 0.7105084 1.0103158 0.8764438 0.9644316 0.9498645 0.8729372 0.9455775 0.8931694
##    105368     78335     46290     94551     73359     38257     30543    102039
## 0.8179079 0.7998617 0.6241225 0.7927471 0.5675482 0.7043132 0.7209030 0.8559172
##     66143     83233    123757    114460    103981      9092     77966     55937
## 0.8694294 0.9739431 0.7440775 0.8007814 0.7815817 0.7448837 0.7802904 0.6639791
##     24185    125223     53785    117988    116965     81767      1262     71062
## 0.8161311 0.8320786 0.6352004 0.7034706 0.6541411 0.8121635 0.7221944 0.7896707
##     21742    104481     80837    103788     71885     46300     63462    125862
## 0.8608156 0.4768693 0.8505547 0.9439675 0.8612302 0.7612163 1.0110970 0.9315568
##     60098     60961     25314     86101     16236     67256     93344     73954
## 0.6942185 0.7314284 0.8178132 0.4823327 0.4808509 0.8165704 0.5200110 0.8485086
##     35444     12797     11486     90445     28891     31731     94660     97621
## 0.9303203 0.9433208 0.7959018 0.9350233 0.8967711 0.8588890 0.7343816 0.9656433
##     79866     23817     74617    122281     53731     39801     42278     82856
## 0.4535080 0.8018835 0.7434327 0.8867178 0.9524299 0.8077127 0.5775775 0.7899928
##     68598    112815     97952     72571     28767     68497     21019     52670
## 0.6667936 0.7859384 0.8712603 0.8966104 0.7680852 0.5771022 0.4382449 0.8160612
##     69288     68427     94691    107134     17025     58225     60674     96126
## 0.8776234 0.9403486 0.7195505 0.7790857 0.8392736 0.7857064 0.6850981 0.9595773
##     22344     35068     86517     81539     87400    109978     94667     30211
## 0.7813710 0.7964446 0.8896347 0.8031326 0.7814989 0.7919512 0.9413116 0.7385115
##     52642     83584     99603     72996     18489     14533    122006     26327
## 0.5282740 0.7857113 0.7492512 0.8694745 0.7266697 0.8270121 0.8025421 0.8281342
##      3514     59480    118501     57670    127520    130179      9252     88933
## 0.7826331 0.7859302 0.5565454 0.8760861 0.6831136 0.8378347 0.9690680 0.6819614
##      8833    103180    118741     52580     83836     88432     74440      6102
## 0.7289306 0.8736073 0.6535140 0.8049258 0.9636289 0.8238408 0.8758452 0.7461637
##     72007    130365     33344     48500     15205     84907     60121     28342
## 0.8589184 0.8286962 0.5778112 0.8082705 0.8965185 0.8643835 0.7225740 0.6793025
##    129396     67246     52309    118183    112428    122904     13356     66226
## 0.6854696 0.7340573 0.5949079 0.6805142 0.8779593 0.4863179 0.9536120 0.5821317
##     71747    129404     87443     10942     49790     90714    110735     46152
## 0.7767888 0.7933664 0.6943333 0.8497560 0.8425785 0.9374439 0.8905021 0.5898155
##     92747    125772     61022     55127    115490     73415     98305    110069
## 0.5607483 0.7230360 0.9459584 0.7428006 0.7324503 0.9264446 0.8694825 0.9475240
##     41933    124473     16193     23765       434    102628     74514     53839
## 0.7941893 0.7750722 0.7477120 0.7549202 0.9441580 0.6409575 0.8985666 0.8538433
##     73274     23586    101926     39184    102967    100778    110256    115324
## 0.8108063 0.8513512 0.8678777 0.8842708 0.7416810 0.6484058 0.6370675 0.8239235
##      6399     47507     17383     66844     47366     67565     64997    125746
## 0.7132225 0.7323301 0.6841772 0.7580860 0.8012433 0.8100004 0.7743598 0.6531993
##    111070    103780     42697      9737     86402     72972     89660    100826
## 0.4552631 0.8665861 0.7252652 1.0177809 0.8055267 0.8807188 0.8179563 0.6685882
##     17755     43822    113970     99701    120233    112447    121275     55679
## 0.6667443 0.8763506 0.7768288 0.7680710 0.7409555 0.9613697 0.5570539 0.6650107
##     70401     19244    105189     98877     50517     39835      6153     97297
## 0.9084290 0.8059639 0.7597833 0.8531218 0.8455905 0.6469861 0.8744085 0.8657018
##     18303     15222     91300    124346     19630     70799     27865     58563
## 0.8538382 0.9634094 0.8596145 0.8462055 0.7326109 0.8110190 0.7692875 0.7443585
##     53207     51368     89916     54121     39785     74883     11857     24555
## 0.6913492 0.8111921 0.6865834 0.7106743 0.7336053 0.7466089 0.6312088 0.6624842
##     77257     34889     46019     77370     64850     64476     11993      4669
## 0.5431070 0.9913961 0.7267133 0.8412618 0.7818914 0.8376213 0.7687805 0.8337142
##     20158    120640     65400    102135     27308    125863     66737     68467
## 0.6643685 0.8263245 0.8200513 0.7427690 0.7771273 0.9246599 0.6741038 0.6330528
##     28646     59877    123815    116210      2281     54016     57757     88429
## 0.7201212 0.6741256 0.8368317 0.7320811 0.8176168 0.8717126 0.8200531 0.7334829
##      3045      9254    116796    102908     87594    112410     37749    101687
## 0.8333071 0.8198640 0.8070706 0.8694959 0.7408016 0.8675049 0.4000302 0.5303973
##    111024     60759     52628    119948     69956     94769     75412     15747
## 0.9712403 0.9535904 0.9915893 0.9399211 0.9125996 0.7370247 0.7696447 0.8136544
##    112253     82839     78885     52419    119806     30435     54551     92877
## 0.6374819 0.6450942 0.8114070 0.7343135 0.9024797 0.7196811 0.7057974 0.6890832
##    117607     52898     59685     30322     92209     48437     67243    100887
## 0.3459504 0.8710285 0.7398083 0.5495510 0.7805271 0.7647547 0.5857656 0.9657645
##     96342     42002     36818     27181     40527    102387     51067    124510
## 0.8401105 0.6423072 0.7611359 0.7494083 0.6691134 0.7389480 0.7548351 0.6282659
##     87256     33169    121870    101172     20662     84879    123759     95313
## 0.3912767 0.8852462 0.8577976 0.8728653 0.4965635 0.8704401 0.8409090 0.9814145
##    124742    118455     23818     68141     64756     10541     75766     42012
```

```
## 0.8104186 0.4102289 0.5909866 0.5341390 0.7318324 0.7219222 0.7625762 0.6598724
##    121054     75103     11686     30846     92663     24827     14312     44598
## 0.7898949 0.8107614 0.6184285 0.9054835 0.8821086 0.6025925 0.7777717 0.9035268
##     68359     55374    103841     10244     94748    115130     99247     17313
## 0.5934871 0.7380360 0.6265330 0.8483402 0.8729144 0.7815157 0.9571837 0.8016062
##     91667    102621     64348    117514     75503    118986     14891    129700
## 0.8063215 0.8756155 0.7913866 0.8063387 0.8070062 0.5372619 0.7869326 0.8435502
##     25169     49385     83590    108218    125497     36072     38415      7032
## 0.8867553 0.9410993 0.4955852 0.6680653 0.7052059 0.5673280 0.6830806 0.7311460
##     70461     84282    100709     42777     81438     77799     87948    112517
## 0.9326083 0.7393485 0.6185293 0.7653433 0.7927244 0.3807221 0.8116391 0.7301770
##     78027     88079     36770    105166     61288     83122    118121     24960
## 0.9478052 0.7936471 0.7311552 0.7881681 0.6587287 0.9331957 0.8542338 0.5598882
##      4021     97350     22844    105276     59286     92187    122654     96273
## 1.0589898 0.6773197 0.7941153 0.7580005 0.6688664 0.4356147 0.5601065 0.9361448
##    101106     98206    127537     62004      2609     24042     61337     75448
## 0.8566697 0.7675583 0.7529582 0.6887023 1.0018140 0.7495367 0.8867353 0.9020796
##     97542    107078     60744     66923     80703      1314     61011     97380
## 0.7843849 0.8202727 0.8150230 0.7401946 0.5382554 0.9986313 0.7401576 0.8886217
##    107438     35497     30467    108097     99562    117234     32327     90090
## 0.7895710 0.7173065 0.7270879 0.8121636 0.6011812 0.7098181 0.9446632 0.7128695
##    118711     83795     37151     85884     23177     78979     47481     17625
## 0.6639724 0.7213335 0.8672995 0.9016153 0.7248174 0.7927639 0.7159630 0.6324799
##     73794     10783     84617     39789     81876     13570     39972     74780
## 0.7883522 0.9282552 0.7798164 0.6318689 0.8034432 0.9434467 0.7853624 0.8208262
##     36608     30385     83926     47193    100024     39267     89411     10563
## 0.7346977 0.6573713 0.8658606 0.6741025 0.8811568 0.7899141 0.6581302 0.7983853
##    113673     25219     47719     24266     53050     95576     87163     30046
## 0.7887734 0.8362489 0.7198045 0.7726420 0.8277359 0.8710634 0.8542124 0.6077055
##     92272     14575      4626     80407    129796     79438     26901    119325
## 0.5266009 0.7514868 0.7435241 0.8401364 0.9291703 0.9521397 0.8159656 0.8089920
##    116493     89443     40374     14037     81604     88650     36620      3980
## 0.8019732 0.5992673 0.6039097 1.0361975 0.6257600 0.7702118 0.7289550 1.0464081
##     26643     62512     41337     16951    105484     97882     37109    111979
## 0.8108719 0.7016530 0.8725607 0.7822745 0.8559648 0.7096992 0.8849770 0.8728986
##      5022     45161    104369     74401     56626     61244     88483     63772
## 0.6127731 0.6866414 0.8225136 0.7924326 0.9644209 0.6740198 0.8052252 0.7701093
##     26393    122081    105144     43718     64050     69413      5849     71719
## 0.7823184 0.7370365 0.8233721 0.9911976 0.8245177 0.6553101 0.7470434 0.9485341
##     59354     55483     76380     22440     11704    129428     50574     22666
## 0.7882481 0.8767811 0.7150234 0.5274779 0.8946272 0.7662505 0.8616441 0.8799017
##     15843     37241     62287     45214      4932     58901     20133    112813
## 0.8670041 0.7939126 0.6069710 0.8557744 0.7418257 0.8427492 0.7769147 0.8020641
##     75322      6466     27976    121339     82770    123597     32732      7659
## 0.6417085 1.0228010 0.7295873 0.8737228 0.9463304 0.5860336 0.6676842 0.8023036
##     79536     70492     33078     40663      6217    102116     34017     68133
## 0.8766546 0.7503202 0.8361101 0.8169549 1.0118857 0.6766705 0.6379786 0.8532759
##     64342     55596    125650     45626     81023     12460     63948     84187
## 0.3233567 0.7724679 0.5434330 0.7949017 0.6087829 0.8637550 0.8236922 0.6475151
##     70214     89079     11662     27266     12272     44681     49397     62917
## 0.6452775 0.6418105 0.8685852 0.8027418 0.7921873 0.8850230 0.8394752 0.8292067
##     60671     70539     14719     82086    126463     35315     14986     96007
## 0.7916562 0.5255823 0.7495815 0.6999989 0.7517061 0.5781875 0.4422966 0.9704862
##     26978      1504    118362     24697     32363     26282     89862     95734
## 0.8911381 1.0133798 0.7668417 0.7842089 0.7132972 0.8149141 0.6443295 0.7099376
##     37347     56228     96218    122382    104709      4274    127593     46185
## 0.7271101 0.8064877 0.9457548 0.7145044 0.6422584 0.7324113 0.7966541 0.7115832
##     82932     74649     19635     90371     30434     59812     53498     54205
## 0.7867923 0.7697177 0.5414771 0.8620013 0.7575076 0.9562480 0.9633692 0.9539559
##    111207     26700     28435     34219     71398     73397     71979     74452
## 0.4205383 0.9395768 0.8466748 0.7837296 0.9502558 0.8537204 0.9224203 0.8054890
##    119547     48976     18069     30459     56512    126818     16375     16388
## 0.7530264 0.7435157 0.6608740 0.6643518 0.7312097 0.7684616 0.5063506 0.9269649
##    115595     11215    101796    129639      3341      8532     70632     36980
## 0.6371564 0.6838077 0.7834893 0.5415855 0.8219473 0.7158439 0.7258949 0.7620450
##     36508       608      1938     42194     14525     99797    127269    112162
## 0.7369269 0.7725779 0.9637301 0.7113628 0.7803242 0.8633049 0.9142921 0.6991644
##     95018     78651     69708     78865     98563    113205     38685    104063
## 0.8077920 0.7512129 0.5750345 0.8473678 0.8000364 0.8577870 0.7110505 0.7330299
##     75366       543     64153    117083     94834     27446     55893    117611
## 0.7057065 0.8415869 0.8747917 0.6600592 0.8786907 0.8748070 0.7712902 0.9087748
##     31870     81039     41474     39222     35350     48318     39268    112741
## 0.5723667 0.9104347 0.8917764 0.7249506 0.5009425 0.8719102 0.7257105 0.7941389
##     59289    122007     96372     14598     65819     79695    106250     38570
## 0.7045596 0.7785952 0.5909428 0.7126228 0.4054860 0.7861719 0.6573251 0.7798309
##     33607     48304     20104     19227    126984      3777     94613     75702
## 0.5228845 0.9493027 0.8999411 0.8663555 0.4812962 0.8533218 0.8511737 0.9640915
##     42903     12617     16800     80273     27860     37859     65144    107608
## 0.6284252 0.9638993 0.4902660 0.8712497 0.8038143 0.6395500 0.7186489 0.7851742
##      1680    127935      7231     65966     55764     22023     43214     11924
## 0.8145176 0.8442235 0.9274177 0.7804903 0.5226116 0.7221074 0.7189095 0.7205815
##     56750     83171    109524    110468     45121     38475     64374     26248
## 0.7462156 0.7503706 0.7451127 0.6318183 0.6651364 0.6164849 0.9182468 0.7458315
##     36206    113193    100500     46515    113380     85531     72383     64685
## 0.8531475 0.6511767 0.7339299 0.6902232 0.7945208 0.6153343 0.8667975 0.7961088
##     14905     17582     13149     26864     92468     82919      9317     26441
## 0.9450665 0.8094534 0.7880188 0.6243922 0.5609130 0.8596801 0.9131404 0.8630195
##    101258    119520    128292     98917     89878     99519     79193     36179
## 0.9482358 0.7368908 0.6701316 0.8768397 0.7780103 0.8571744 0.7985865 0.7020822
##     34869    120880      3945     25612     62555     96499     68907     44865
## 0.6214926 0.7344376 0.9263554 0.8022600 0.7458076 0.7919535 0.6160991 0.8513423
##    107885     65539     22135     63814      7925    127120     48872     59892
## 0.5841048 0.7731604 0.6520852 0.8760497 0.8486433 0.7609823 0.9548311 0.6112587
##     47432    107597     49679    130572     11505     64104    123942    102586
## 0.7866131 0.8822599 0.8145712 0.7392993 0.7115984 0.9272244 0.5384140 0.6594789
##     10559     54649     99210    117791     69785     78677      2689     62956
## 0.8247616 0.7522045 0.8066722 0.9535893 0.7257634 0.8463466 0.7087881 0.7308179
##     93611    105004     61827     93612     49949    106706     23244     95078
```

```
## 0.7860298 0.8926962 0.8373594 0.8099577 0.8466327 0.7285587 0.7737785 0.5947778
##     12488     97480     69308      1194    117305     22230    105510     61030
## 0.9479320 0.7361062 0.7262280 0.7185268 0.8014558 0.6110308 0.9571227 0.6429352
##       646     80191     90750     72330      6322    121358     75067    104859
## 0.8716134 0.4914853 0.9001716 0.7790453 0.9929360 0.8666788 0.9690188 0.7376948
##    105910    114469     61677     98245     93588    101308     54083     98715
## 0.7141633 0.6584258 0.7804557 0.5352482 0.8143799 0.6341148 0.7792747 0.6410449
##    100759     86953     25451     39733     47439    125939     26789     16045
## 0.8655446 0.7850348 0.7757917 0.7584917 0.7637456 0.7720950 0.6687868 0.7408340
##     87267     85045    105502     49563     61074      8440     64892     74319
## 0.7739082 0.8137813 0.8025303 0.9249612 0.6874339 0.6918849 0.6142946 0.6527265
##     57831     71564     45636     89683     52351     62019    119726     67787
## 0.7892588 0.5858466 0.5121989 0.6775696 0.6305114 0.9462857 0.8890695 0.8402330
##     55909     66239     48956     52861     27165     64090    102990    103996
## 0.7400306 0.6671535 0.6391906 0.3879520 0.7538634 0.5543353 0.7894982 0.7928740
##     69887     47301     69230     43126     33570     28919     56683     25635
## 0.8584015 0.6077165 0.8733883 0.8317361 0.3975318 0.5934703 0.7874862 0.6891149
##    102788     42153     65758    127024     73627     23833     98196     65693
## 0.8631023 0.8007348 0.8546797 0.7172434 0.8350964 0.4575415 0.8330611 0.8401091
##     79629     87435     26406     44833     51192     69914      9113     12498
## 0.7983274 0.6049641 0.7747063 0.7949819 0.8409184 0.6643182 0.7360929 0.9999718
##     42604     98375    127598     55948    106752    103776     84445    113137
## 0.8214137 0.9223711 0.8353131 0.7932000 0.7429982 0.7105653 0.8879404 0.6274950
##     18808     80573     80964    114299     84673     69849     30346    110406
## 0.7956723 0.7778024 0.7118916 0.9355096 0.7322150 0.8480524 0.8808330 0.8655267
##    115270     70810     87713     11923     47367     18815     65997     40266
## 0.7459171 0.7765182 0.8908968 0.6334770 0.7445991 0.6885661 0.9749740 0.6943602
##     11065     97605    116089    119379     58213     90153     11863     38480
## 0.9548425 0.9401337 0.7760186 0.8517903 0.8957683 0.7356677 0.7696122 0.7694780
##     13376      6296      3621     83905     13679     70158    106881     17986
## 0.7783443 0.9368462 0.8724842 0.7697519 0.8054548 0.5727461 0.6512164 0.7278847
##    127768    116420     29491     16722     57778    120906     58441     38727
## 0.9354357 0.7306923 0.9751646 0.5444782 0.7369648 0.9034788 0.9924836 0.8515943
##    106943     65658     49559    127459     56222     68645    115735    128594
## 0.7956899 0.6922932 0.8664430 0.6941560 0.7277335 0.7289040 0.7758389 0.8211510
##     21526     71520     85892     92135    107818    124488     57213    123230
## 0.8941396 0.8942010 0.7911592 0.8066334 0.9712247 0.5018643 0.5851809 0.6442753
##    103866    111461    108702     56067     69070     72808     97857     20842
## 0.8189591 0.8659228 0.8329344 0.5703823 0.5611733 0.8896491 0.7921532 0.8733125
##     66851     62179     58179     39998    117751      1108     46886     34764
## 0.7113734 0.7131132 0.8368342 0.8327227 0.6544523 0.9825766 0.7660430 0.5769581
##     35439      2245    130344     65985     62170     41341    124792     58487
## 0.8671253 1.0064246 0.7940100 0.5950034 0.6969582 0.8754095 0.6170647 0.8538745
##     82879      6650     25556      3433      2171     56386     11431     30155
## 0.5451435 0.6242685 0.5532963 0.9291387 0.7093040 0.5790371 0.6987011 0.6648088
##      2783     73730     95928      8340     64657     71580     92222     26635
## 0.7840182 0.8500673 0.8692420 0.8141737 0.6651798 0.8795138 0.5847991 0.7102181
##     15186      5266     79857     43117     90394    122567    121674      6168
## 0.8567021 0.7502522 0.7766299 0.7503681 0.7602023 0.8934154 0.9325892 1.0241216
##     15925     45823     17426     31906      7980     49900     13104     66338
## 0.7601807 0.5971065 0.6420112 0.7105177 0.7873844 0.9506996 1.0051074 0.5669520
##     21291     93961    118629     20678     24527     19273    129030     74061
## 0.7709836 0.9723768 0.7154251 0.8060886 0.6662511 0.8018112 0.7768757 0.8839069
##     64727     65368     63181     43216     31174     75953     66548    113906
## 0.8604389 0.4684436 0.8724292 0.7111941 0.8413562 0.8312472 0.9446556 0.9181173
##     20590     44445     36151     32647     49315     48105     39610     63284
## 0.6585711 0.8798357 0.7830610 0.5888239 0.9470872 0.8491785 0.9421070 0.8498420
##    118868     63250    120629     24826     87571    104239     33966     80783
## 0.8724079 0.8453447 0.8476285 0.7119998 0.9592353 0.7104267 0.7700673 0.8523448
##     63317     28462    104864     79627     67979     81320     70607      2835
## 0.9275394 0.8129517 0.7998470 0.8836786 0.9382828 0.7161116 0.7177565 0.8207951
##     24301    115911       102     99656     88342    108860     86270     55935
## 0.8231353 0.7517673 0.8380470 0.8787003 0.8331795 0.7021320 1.0361776 0.6172126
##      6723    119924    129715    120219     20874     63775     29265     74016
## 0.6422122 0.7803705 0.7559046 0.7718545 0.8320556 0.7169359 0.6587193 0.6260838
##    118319     13927     79232     98013    112407    129979     75151     10079
## 0.7228883 0.8106276 0.7993774 0.5954882 0.6986506 0.6810153 0.9171456 1.0065830
##     42140     51389     31858     13534    129029     48482     97084     35585
## 0.8141899 0.7995292 0.7789473 0.9366618 0.7880820 0.8241817 0.7838341 0.7714295
##      2206     96704     74766      8454     13353     60727    122471    122885
## 0.8838998 0.8560970 0.8589687 0.6435923 0.6238075 0.6076837 0.8677635 0.7874002
##     35770      8174     36559     88516      7690     11287     22007     57327
## 0.7436902 0.9539603 0.8639633 0.8732035 0.7885042 0.8821852 0.7012705 0.8897614
##    108110    125798     38450     46195     10452    120060     88394     62071
## 0.5111029 0.6278463 0.8520185 0.6969065 0.8548734 0.8353564 0.6055776 0.6206673
##     87541    105388     88269     47908     63341     18376     42191     73678
## 0.8455537 0.5314573 0.8115345 0.6147538 0.7953821 0.8986756 0.6965081 0.8840462
##    120261     56640     40342    120837     35111     53879     48323     46465
## 0.8698541 0.7339662 0.7559376 0.8084907 0.8829805 0.7097380 0.6844115 0.8804336
##      8461    129466     42608     36030     29629      4506    111173      4356
## 0.7554056 0.5457051 0.5979652 0.9719418 0.7394026 0.7240423 0.7984816 0.9460382
##     94345     45290     12323     92192     30117     39283     94753     86967
## 0.7132363 0.7784879 0.8815284 0.5616819 0.8602920 0.8248147 0.7711923 0.7237296
##     82239     38782     93653    119598     75812     81204     66348     77420
## 0.7653507 0.5969610 0.9285148 0.8269499 0.7159852 0.9468685 0.7886843 0.8981891
##     17110     32042     86798     11593     86434     22879    118655     50652
## 0.8906521 0.8924642 0.8851183 0.7988131 0.8015865 0.8452367 0.7895958 0.7413694
##     36632     88554     13872    110785     26364     26487     80686     50714
## 0.5452858 0.8195285 1.0173093 0.8864609 0.7714318 0.7317808 0.8582654 0.7457467
##     35017    113766     43596      2356     46226     33125      7435     16764
## 0.5680683 0.7755646 0.9524382 0.6950481 0.7543812 0.8527711 0.7882948 0.7726169
##     95473     70120     45964     10088     63643     39478      5301     60321
## 0.7767400 0.7824801 0.7248538 1.0096680 0.7106164 0.7421658 0.7847762 0.5272267
##      3761     41575     83901     43879     95763     25713    107618     43471
## 0.9865423 0.8066903 0.4164765 0.6000506 0.8017524 0.5654847 0.5938025 0.7754713
##     73036     14687     99954     83199     99611     83380     86291     25734
## 0.7016684 0.7710526 0.7061480 0.7980579 0.8430513 0.5967951 0.7815084 0.7325741
##     21688     31549    112820    112422     47631    128246      8719     87020
```

```
## 0.9524981 0.7322157 0.6430706 0.5754289 0.5517334 0.7748154 0.9396957 0.7152398
##     54772     76233     51003     14775      6631     61058     37848     46442
## 0.9218820 0.7416822 0.7640240 0.7864346 0.8777796 0.7752549 0.8171175 0.8116031
##    123224     31064    117949    117700      2836    117840      4749     66120
## 0.8851692 0.7065493 0.7205717 0.8553503 0.7598198 0.8064172 0.8656122 0.9489108
##     21465    102982    106472     50817     55739     54881     34136     64214
## 0.8622738 0.8284212 0.8169045 0.8754778 0.7381965 0.8736221 0.4100485 0.8118859
##     96671    127659     83227     14149     77983     32941     50037    130438
## 0.9542506 0.6709344 0.8450207 0.7963451 0.7929209 0.7300401 0.8579062 0.7425027
##     53372     33582     72164     65552    101609       939     69029     24890
## 0.8872834 0.8794786 0.7383698 0.7199564 0.7212710 0.7488976 0.7205512 0.5612519
##    107667     89201     62668    124976     86832     58796    120613     86007
## 0.7165301 0.8135028 0.7307123 0.7171209 0.8803723 0.8809329 0.8587128 0.8717891
##    128866     35675     76795     14355     99914     74949    115112    105882
## 0.8316716 0.9495522 0.7946630 0.7431474 0.4342658 0.7784525 0.7965337 0.7125309
##    112047     72644     51628     75967     68231     64961      5396     28792
## 0.6169808 0.8174341 0.7797163 0.7897764 0.8009027 0.5119698 0.8889856 0.8895248
##     95767     92501     71678     11944     49800     75386     37883     92652
## 0.5588231 0.8020398 0.9606004 1.0370218 0.6383710 0.8629503 0.8862041 0.7672498
##     85128    113570     34255     10832     25956    111580     71735      9345
## 0.7463746 0.8716981 0.7695331 0.8456836 0.7321592 0.8614803 0.7754252 0.5071128
##     17490     49613     90804     10684     32531      2065     63234     84226
## 0.7601150 0.8042119 0.5121789 0.8650033 0.7353743 0.8629925 0.8967706 0.8536124
##    130496    115684    109958     55537      1679     11054     43920     85557
## 0.7630588 0.6225598 0.5640782 0.7374939 0.9556541 0.9378049 0.8551384 0.7769176
##     13731     85780     50957     75621    108884     71565     94951      6766
## 0.7182267 0.8253207 0.6760106 0.8695358 0.7148273 0.8159060 0.7234174 0.8807170
##    130093      3611     64098     24103     72802     21191     27439     10950
## 0.8359216 0.9616124 0.6080945 0.7137781 0.8911815 0.8244862 0.4047594 0.8667075
##    114728     97727     43653    116916     65485     76017     90479     32263
## 0.8700306 0.7837616 0.8771803 0.8862641 0.6517423 0.7532536 0.7755902 0.7637741
##     47943    101495     20806     33017     32871     83640    111818     48313
## 0.5902830 0.7804068 0.6706371 0.7832016 0.7861898 0.5966530 0.6444442 0.7517086
##    128669    123335     28813     64999    102417    107481    122350    109840
## 0.8404077 0.4011980 0.8297897 0.8188703 0.9040740 0.8285685 0.8122197 0.7472630
##     88421      1360     73951    104381     26130     65124    113576     88169
## 0.7125815 0.7989158 0.6629284 0.6715043 0.7439170 0.4770324 0.7204073 0.5680212
##     32805      1752      6426      8187     64573     72623     32742     20377
## 0.6471248 1.0036319 0.8934261 0.8954302 0.4972766 0.8430418 0.9483834 0.8887771
##     32231     70437     86838    114121     56644     73060     87080     45215
## 0.7354219 0.6466776 0.7207301 0.9024587 0.6962314 0.7038544 0.8071867 0.5418750
##     41866     46191     28863     79643     23658     17006    114136     14536
## 0.8003009 0.7990994 0.8852832 0.7595788 0.8779790 0.8090990 0.7390345 0.7920396
##     11699     81711     50370     51616    107184     44926     79012     14828
## 0.6521665 0.6233353 0.8119796 0.6314025 0.9019742 0.8617757 0.7088493 0.5968338
##     91276     61112     34735    102204     43994     74974     98170     57901
## 0.8222556 0.6935409 0.7041078 0.8072998 0.8598730 0.7000139 0.5160259 0.8044742
##    103556      4680     85401     95865     98627     98302     75791     54234
## 0.6126145 0.8186962 0.7098768 0.8262290 0.7405193 0.8224971 0.7377024 0.8562451
##     51989     29698    122086     35612     24150     60691     17695     27524
## 0.8074864 0.8439298 0.6097272 0.7464735 0.9284694 0.8091158 0.7102302 0.8192034
##    107679      4314     96292     52750     63445     62369     41524    130475
## 1.0949507 0.7157785 0.8109740 0.8838847 0.8061781 0.7887165 0.8827228 0.4871659
##     56246      6500     48978    114701     95151     53685    128501    111498
## 0.8054668 1.0314746 0.6655002 0.9023884 0.8535915 0.8787809 0.8328896 0.5373319
##    124573     64498      8362     46245     40211    102706     62703     26767
## 0.9395929 0.8801598 0.7486583 0.7159384 0.9246221 0.4715742 0.7104836 0.7660555
##     66264      8530     42621     24753     62400     42853     21849    127574
## 0.8014253 0.8948125 0.7309159 0.8975811 0.8717105 0.7061791 0.6284825 0.4600892
##     64094     83530     86926    127886     53666    113063     93356     93824
## 0.5723425 0.8001689 0.8552938 0.8156881 0.9212467 0.6752500 0.6335096 0.6112199
##    125129      6906     22041     55340     57304    121518     88626     48747
## 0.9095135 0.9205284 0.7744722 0.7935579 0.8036681 0.8575862 0.4995741 0.8036517
##     83772     63894    119403     48765     91249     42075     63853     73878
## 0.5558831 0.6321251 0.6476661 0.7886503 0.7956969 0.8649716 0.9500101 0.8671610
##     62699     69435      6722     90684    108800    114609     18802    111852
## 0.9743963 0.6387283 0.7151659 0.7231720 0.7717438 0.8743356 0.8702518 0.6506481
##     18427     78451     24581    118516     28350     90451     22146     31721
## 0.5911050 0.7962771 0.7892552 0.8048241 0.8912406 0.4620326 0.5595925 0.5304904
##     21965      8886     19869       160     76245     43546    103999     34430
## 0.5375789 0.8803680 0.7682502 0.6762108 0.7831262 0.9120505 0.5667104 0.7482389
##     75035     33448     62323    107965     98935     57636     85547    126334
## 0.8610150 0.5696669 0.7157091 0.7870012 0.8887228 0.8135151 0.6118614 0.6186988
##     89251     68117    122044    129425     17732     36781    103832      9369
## 0.9618594 0.8467681 0.8054865 0.7204926 0.8028846 0.7534549 0.9344428 0.7029703
##     58000     11364     50576     96274     57608     71509     19788     91376
## 0.3861669 0.8852665 0.7579619 0.9846397 0.8795411 0.7150067 0.5706861 0.8024510
##     57808     37743     91919     53737     70199     76511     24265     55505
## 0.8279271 0.7956540 0.8970228 0.7407281 0.6015010 0.8597189 0.8858250 0.6278770
##     74936     44824    105172     18230    102311     48821     56283     12862
## 0.8867415 0.9299429 0.8409936 0.6736208 0.5653931 0.7173278 0.8817625 0.6344153
##     32257      5840     67837     67488     56880     36990     74266     26178
## 0.7392270 0.7176235 0.8752673 0.8492181 0.4835033 0.6752318 0.8751341 0.8254110
##     95236    116390     40426      2716     49082     32081     46005     97134
## 0.5403136 0.6961733 0.7239772 0.9156484 0.7095056 0.8811509 0.6881154 0.8152504
##      7449     81248    126727    103815     72199     78748     89279     98200
## 0.8006740 0.5989986 0.7656555 0.5822865 0.6651577 0.7111284 0.7579290 0.4034608
##      6092     41389     64286     94253     92002    127707     37480     66425
## 0.8747443 0.7275242 0.8914516 0.5119828 0.7479713 0.8598364 0.7088245 0.8108968
##    129953      2188     73148     46701     25865     26623     25756     68512
## 0.4339573 0.7916029 0.7528566 0.7815357 0.7603951 0.7888242 0.8128809 0.5915765
##     38522     52893     69143    120062     73750     94927     92510     70218
## 0.5891439 0.6882048 0.8057201 0.8195989 0.6747532 0.8083849 0.9582071 0.6720142
##     62794     48611     16772     40016     87309     82849     62044     60045
## 0.8392134 0.8633687 0.8120844 0.8813709 0.8035270 0.7380093 0.8220036 0.5486799
##     30200     15884     83965    117975      1558    110684     25174    117329
## 0.7852418 0.9081254 0.7741664 0.8501698 0.7621031 0.5512261 0.5537126 0.6652668
##    126458     13387      6312      6127     27641     37470    126109     72624
```

```
## 0.5288855 0.7267425 0.9106910 0.9628117 0.7903217 0.8024929 0.8474136 0.6282412
##     68808    118805     54595     52562     26664     12851     20572    102928
## 0.8906343 0.8787933 0.7250535 0.7323197 0.7180042 0.8783310 0.6326340 0.7442192
##     87876     84944     37467     96685     11932     69962     99961     43892
## 0.7225991 0.8752664 0.8914282 0.9303324 0.8012849 0.7232687 0.7728079 0.8950543
##     97078    123931     34485     75232     88864     84368     65061    121976
## 0.8764720 0.9144474 0.9243440 0.6143918 0.6617159 0.6611710 0.7460921 0.5644238
##     51826    120795    130126     40903    130066    106568     78116    130068
## 0.3989617 0.8603257 0.7193734 0.8791439 0.7138595 0.7392968 0.6750970 0.8340366
##     34397     34437     83311    124141     56522      5466     55849     85758
## 0.7763494 0.7122944 0.6956657 0.7366774 0.7674315 0.8301092 0.8926593 0.8792415
##      3973     97798    115334    109147     69740     80728     68750      3103
## 0.7927507 0.7247221 0.7295718 0.7420630 0.8623686 0.8893455 0.5359388 0.7930833
##     27948     43439    120550     13598     17927     94698    120163    115188
## 0.7346400 0.9763192 0.8016954 0.9013976 0.7469246 0.7821123 0.8843957 0.7015731
##    119009     21934    128103     24346     61683     77860     85022    121655
## 0.8610739 0.6169628 0.8100083 0.7792302 0.7659137 0.6864785 0.9020335 0.8543167
##     54150     60859      5851     92013    122519     79479     70987     65907
## 0.8886507 0.6991140 0.7982678 0.7862935 0.7428041 0.7726981 0.7321258 0.8719677
##     26918      8617     90528     84045     49479    117692     64320     46240
## 0.7466772 0.9369658 0.8790823 0.8065609 0.8580998 0.9574373 0.2992957 0.4751921
##    121475      9775     52285     35572     56371     15085     31498      8849
## 0.8815224 0.6505678 0.8680916 0.9649092 0.7374271 0.9670829 0.8137332 1.0218431
##    120689     63268     40612    122154     40395     66833    118250    125187
## 0.8768960 0.8760327 0.7912330 0.9050286 0.6520106 0.6893529 0.6417064 0.8565863
##     12103     86049     27521     89838     98714     26627    127117     52108
## 0.8449152 0.7394126 0.8718970 0.6180649 0.8518793 0.9002728 0.7218770 0.8742707
##     25534    128762     51449      1284     55780     97550     34810     64440
## 0.8609260 0.7382892 0.7154441 1.0092009 0.5691939 0.7254979 0.7749734 0.8015003
##     50715     39319     76816    105844     12744     93717     98295     11956
## 0.8833472 0.7819307 0.7246876 0.7649264 0.8636750 0.8002967 0.8742388 0.8586393
##     33154     47915     29916     29099     13394     11967    114376     47198
## 0.7402282 0.7248132 0.8033750 0.6011631 0.7643671 0.8718491 0.8991967 0.6026131
##       165     76493     92999    120573     53912     93231     13159    125030
## 0.6912567 0.7171042 0.9452732 0.8884928 0.5832785 0.7761408 0.7104726 0.9128196
##     32294     43946    114050     72939     57622     77071    121830     90853
## 0.8069852 0.8725628 0.8579998 0.8766614 0.7098432 0.7345882 0.8637324 0.7919580
##     82730     43492     33060    128530    125579     42090     54245     82379
## 0.9612069 0.8854202 0.8402129 0.7857233 0.8439232 0.7136224 0.8805961 0.5449183
##       859     99882    102398     10035     42285     15861    115999    124647
## 0.7368383 0.6913030 0.7555256 0.9990850 0.8549041 0.6682934 0.8217225 0.8520861
##     16360     79415     81615     69472     59956    119506     38694     53546
## 0.8219685 0.9462370 0.6959246 0.9703302 0.6800109 0.9084807 0.6673513 0.8890041
##     80855     84610     44936    103825     58691     89877     19105     23273
## 0.8611826 0.6724033 0.8684131 0.7831929 0.8477292 0.7845802 0.8187271 0.8799748
##    116322     92194     36237     76713       403     69127     38788     91516
## 0.9527410 0.8322223 0.8747377 0.7083415 0.7355984 0.6174630 0.8159350 0.7990925
##     83998    116333    120884      7467     40879     25955      9276     59255
## 0.9536427 0.7958267 0.7108832 0.7769135 0.8676146 0.8048444 0.8425179 0.8399849
##     65488     60524     15620    107531     49648     46830     91100     59706
## 0.6876141 0.8945617 0.7617128 0.7370456 0.7437231 0.8302936 0.6925801 0.7050925
##    111331     68690    120879      2363     36455    123280     64637    104598
## 0.7976843 0.5933448 0.4719359 0.9620570 0.5212656 0.8461479 0.7462738 0.9142809
##     74400     99308      4068     17420     52922     29037     34209     63904
## 0.7193043 0.8181365 0.7566794 0.8752697 0.8626447 0.6902971 0.7188079 0.5780353
##     22858     36685     14296    128484     71151     77217     14023     98402
## 0.5181479 0.7580677 0.7859546 0.7289553 0.8829137 0.7042736 0.9546603 0.9355185
##     32548     82495     27938     61955     19100     17916     64805     74303
## 0.7906419 0.6497175 0.9169263 0.8267100 0.6358611 0.8769016 0.5803762 0.6546941
##    123113    117393    112981     31014     34504    124247     17444     63680
## 0.6604853 0.8843325 0.4291367 0.8722989 0.9684391 0.7972706 0.7940949 0.6962339
##      9591    122802     29712     78882     69363     85422     51038     82742
## 0.9181659 0.8267907 0.7362963 0.4874833 0.6273341 0.8235620 0.7706473 0.9604710
##     40533     91098     26825     83585     81216     29269     15474      5463
## 0.9066616 0.8495519 0.9464776 0.7108956 0.9311862 0.8129052 0.6186757 0.7153653
##     79135     72739     54230     70279     49192    102863     21687     92112
## 0.6885062 0.6986709 0.7028775 0.8733771 0.8206141 0.6850459 0.7538594 0.8569587
##     17610     41226     71817     83395    115331     38062     67372     92683
## 0.8793448 0.7928977 0.6380230 0.8049657 0.8133375 0.8218045 0.9499321 0.6180936
##    125185     89018    121755      5171    121043     58143      4081     30897
## 0.7870894 0.5001486 0.4793093 0.6392688 0.8051946 0.9170609 0.8034100 0.8018492
##    119167     23067     28015     77891     23026     19683     26855     69664
## 0.7659397 0.8015188 0.8176788 0.6180875 0.6911677 0.6547679 0.8069686 0.6959824
##      3628     65809     54775     68132     90788     91045     19024     87044
## 0.9739863 0.9520321 0.7230067 0.8947245 0.5057737 0.8788091 0.9590162 0.8112746
##     80408     37937    130531      1293     79407     91828     50096     88166
## 0.7909015 0.7589168 0.6683161 0.8009571 0.7119351 0.5738634 0.8751391 0.6201364
##     46956    106162     96430     86203     68410     37728     99339     87486
## 0.3877572 0.7862718 0.7073095 0.8105514 0.8261111 0.7952511 0.8910320 0.8830843
##     20714    117293     30503     28127     39299     98268     32559     36279
## 0.9033839 0.9748976 0.8440281 0.8592192 0.5598487 0.8746811 0.8063468 0.5827814
##     70385     17724     57839     86819     74635    123641     20223     93137
## 0.8683083 0.9035984 0.9322060 0.8861695 0.8074793 0.5196737 0.4863782 0.5442650
##    128752     46140     87303    118821      7982    129403     45711     75425
## 0.7894976 0.8090903 0.7768733 0.7957471 0.8798358 0.5523972 0.8879480 0.5261911
##      8039    118607     17471    126396     91784     69928     36753     88862
## 0.6273959 0.7816523 0.8717755 0.9048554 0.6462141 0.7828311 0.7439532 0.7743170
##    107747     64861     25374    130673     11489     67067    124808     59889
## 0.5550892 0.6768115 0.8891244 0.8237908 0.9377407 0.8353024 0.7770596 0.7292189
##      1868      7205     48326     41652     26759     12702     90846     12088
## 0.8668496 0.7854251 0.9585933 0.9355393 0.8519460 0.8249870 0.7970251 0.6185477
##     51091     28511    118681     44733     85670    113483     91630     92114
## 0.8213351 0.8047914 0.8816821 0.9628941 0.7366530 0.8250770 0.7035472 0.8290916
##     18794     93885     71343     48684    119592     70866     35597     12785
## 0.5565636 0.9764554 0.8714597 0.8315233 0.9122647 0.8450686 0.8250505 1.0327504
##     96892     50491     18280    125612    117457     22516    111705     78871
## 0.6552756 0.8219232 0.8110505 0.6833937 0.8553394 0.7056558 0.3890437 0.9197559
##     78635      7173     80261     70742      1906     16509    105380     28266
```

```
## 0.7575638 0.9418159 0.8519749 0.7330589 0.7675849 0.9017916 0.8893798 0.7981216
##    124555     93297    113751     41330     17565      5124    103667     98651
## 0.7560722 0.6071562 0.7619019 0.8706767 0.6354365 0.8216248 0.7758724 0.5480863
##     74072     68473      5174     46277     75816     19204    121018       751
## 0.7137861 0.8677382 0.9411712 0.7683546 0.7415475 0.7775214 0.8603483 0.9357038
##    109497      6154     78672    120155     61946     99122    128354      4082
## 0.7969812 0.9640288 0.7144291 0.7878108 0.5173791 0.7950778 0.7934781 0.8687517
##     11107    116330     26186    113663     48284     30281    112388    127200
## 0.7828345 0.9458183 0.8648551 0.7084124 0.7335973 0.6710984 0.7898194 0.4680830
##     98291     25403     84343    122124    114228     48763     78187      4408
## 0.4962141 0.8831162 0.8710041 0.8625427 0.9421122 0.7049860 0.9505997 0.8839610
##     10562    114765     19732     69832     11254     69716    103603     47589
## 0.5323447 0.7736201 0.4965808 0.7093004 0.8842672 0.7309025 0.7974445 0.7802455
##     77388    108230     47335    106879     58390     12964     78604    104505
## 0.6912104 0.8202725 0.7241735 0.7842845 0.8798229 0.8535514 0.7293173 0.8481587
##     74980     21046     44274     82540    117966    113723     43824     64352
## 0.6960170 0.7824534 0.8465507 0.8113705 0.8596684 0.8834019 0.8616080 0.8658844
##     76163     62385    122246     66512     29328     10225    113736     22241
## 0.9522172 0.3902536 0.4903709 0.6358567 0.6225339 0.9128415 0.7839024 0.8532590
##     27744      3513    102764     12791      3936     72226     59976     59975
## 0.7213354 0.8563497 0.8824330 0.7604494 0.8294394 0.6553309 0.7110073 0.4587324
##     17567    124764     90011     31096     14344     31233     39310     48118
## 0.8975234 0.8988946 0.8250548 0.7974794 0.8186984 0.8083731 0.7496944 0.8118011
##    101200     19851     66106     31214    128800    127150     38296    109083
## 0.8059465 0.7653153 0.9181589 0.8553500 0.8075461 0.7554621 0.7531121 0.8652045
##     52795     22856     61722     90758     37464     38283    125564      3827
## 0.8577247 0.7559344 0.8584208 0.7468882 0.7661678 0.7805122 0.7507762 0.8814118
##     67798     80309     37096     52729     26500    124308     98828    100077
## 0.9602896 0.8654999 0.6519386 0.8638426 0.8886962 0.7005550 0.7684748 0.9577501
##     65486     24905     98293    114550     51434     77898     15060     79215
## 0.9333041 0.7697239 0.8048087 0.8113673 0.5712086 0.9332941 0.9603490 0.7304169
```

```
residuals(fit)
```

```
##         48574          6994         42099         54113          6260
## -5.774688e-01  5.442140e-02  2.190401e-01  1.865753e-01  1.901980e-01
##         85568         49547         65527         28899         13842
##  3.805594e-02  2.699811e-01  4.182909e-01  1.377499e-01  1.071119e-01
##         95856        130255         20295         42141         52174
##  1.151051e-01  2.242425e-01  2.916636e-01  3.445952e-01  1.063622e-01
##         28016         38381          4510          3918         37144
##  2.158219e-01  1.522719e-01 -4.431802e-04  1.443843e-01 -6.421807e-01
##        128281         72615        111612         27025         63117
##  2.457729e-01  3.764494e-01  1.933371e-01  1.191831e-01  1.787598e-01
##         30488         27327         57130        112929        123033
##  2.940540e-01  2.497644e-01  1.138695e-01  2.312249e-01  2.066272e-01
##         65263           606         53160         42987         43524
##  1.895085e-01  1.446572e-01  2.060286e-01  2.984519e-01  7.178645e-02
##        109956         50446         56958        122818         62942
##  1.057751e-01  5.632353e-02  1.407102e-01  3.544596e-01 -7.969891e-01
##           207        118813         13692         41820        100701
##  1.000437e-01  1.434607e-01  2.502070e-01  2.021221e-01 -4.139762e-01
##         12085         49436        103012         98189         85147
##  1.729161e-01  2.867487e-01  2.873822e-01 -7.500394e-01  1.158014e-01
##         27801           283         98878        128462         79974
## -4.759633e-01 -2.867247e-02  1.567091e-01  2.466026e-01  7.932122e-02
##        126862         83651        106069        119256        111684
##  4.706662e-01  7.434718e-02  2.967734e-01  2.796351e-01  1.948449e-01
##         75364          5187         27426         73911         73861
##  1.491386e-01  1.620003e-01  1.351969e-01  1.371684e-01  2.539056e-01
##         58140        109689        110640        126757         72012
##  1.285379e-01 -8.104096e-01 -6.716781e-01  2.520081e-01  2.830601e-01
##         59657         16590         75575        116461        111176
##  2.906061e-02  2.508744e-01  2.135300e-01  3.621452e-01  3.107734e-02
##        107305         37989         87981         90186         75317
##  1.223918e-01  1.676041e-01  1.931109e-01 -5.102046e-01  4.773906e-01
##           175         14148         78623          1162         92461
##  2.913897e-01  1.335407e-01  4.186122e-01  1.879033e-01  2.045981e-01
##         16827        123755        123196          4075          3054
##  3.548961e-01  3.744770e-01 -7.666563e-01  2.411815e-01  1.253366e-01
##         16866        108765         48946         83358         46672
##  2.065277e-01  1.840952e-01 -7.283878e-01  5.009603e-01  2.736009e-01
##         37661         93750        123373          8802        112896
##  1.771255e-01 -8.154643e-01 -7.667828e-01  5.010711e-02  2.630750e-01
##        109139        123239        114732         80733         10001
##  6.452008e-02  3.950965e-01 -6.671439e-01  2.725524e-01 -2.157457e-02
##         11365         32320        113390        111942          1606
## -7.321433e-01  1.310260e-01  2.036921e-01  3.798660e-01 -8.291667e-01
##         96198         38985         76617         53668         65241
##  1.076371e-01  2.274915e-01 -6.124256e-01  4.734275e-01  2.688579e-02
##         83037         89897          3549         83688         39079
## -7.353014e-01  1.811377e-01  2.367966e-01  2.759510e-01  5.748955e-01
##         33730         13361         66326         72913         47123
##  2.923505e-01 -1.051435e-02  3.842620e-02 -8.019141e-01  2.600665e-01
##         96621         52977        113650         31499         68939
##  1.491108e-01  1.773281e-01  1.978397e-01  1.095735e-01 -5.216100e-01
##         30011         81019         20318         96795         40229
## -7.245819e-01 -8.589842e-01  1.814679e-01  1.142555e-01 -7.464821e-01
##         45052         14467         97809        110762         52719
##  2.038503e-01  1.573788e-01  4.818598e-01  1.269428e-01  1.460912e-01
##         39990         77146         62813         16373        104753
##  2.028632e-01 -8.322948e-01  2.169802e-02  1.163458e-01  1.101293e-01
##         24044         38342         42769         38974         29191
##  1.866210e-01 -7.963857e-01  4.213698e-01  2.725770e-01 -8.844017e-01
##         84723         96432         47543          1415         11483
## -6.988722e-03 -7.853618e-01 -6.728303e-01  2.153569e-01  5.456077e-02
```

```
##         49684        111532         10848         27352        103480
## -7.260413e-01 -6.303688e-01 -2.341661e-02  2.007208e-01  2.890484e-01
##         51510         22489        105839         51019         29649
##  2.968973e-01  1.794508e-01  2.444020e-01  2.693083e-01  1.746343e-01
##          6352        105333         76715         68225         25706
## -2.312057e-02  1.260307e-01  1.694022e-01  2.050066e-01  9.044831e-02
##        102396         55218         53022        119214         60460
##  1.018983e-01  2.151498e-01 -7.833912e-01 -8.605225e-01  5.136074e-01
##         53249         45114         72724         42881        101577
## -6.995704e-01  1.995010e-01  4.557683e-01  1.682442e-01  3.984728e-01
##           389        121090         22577         35305          5065
##  1.815812e-01  6.883849e-01 -5.504583e-01  4.839454e-02  1.788461e-01
##        119056        109020        126236         66009         93948
## -7.642084e-01  5.336021e-01  9.882032e-02 -7.616664e-01  2.244534e-01
##         85762         79786        111969         58561         70678
## -7.645566e-01  1.823660e-01  2.403800e-01  4.525598e-02 -8.107519e-01
##         36451         71567         99915         29806        101891
##  4.503582e-01  1.500352e-01  2.111740e-01  2.040258e-01  2.821361e-01
##         99112         68632          1856         14630         77963
##  2.357523e-01  2.344070e-01  1.162472e-01  2.553507e-01  3.001139e-01
##        109365         92568         85480         58367        107743
##  3.127083e-01  2.675247e-01  1.330712e-01  2.203020e-01  4.485725e-01
##         54004          4566         78682        127491         74365
##  1.133186e-01  2.111337e-01  1.944815e-01  2.930989e-01  1.198858e-01
##         41703        103092          1443         67852         90068
##  6.562078e-02  4.582945e-01 -8.876121e-01  1.297689e-01  4.063591e-02
##         36058        110761         94839         55589          3932
##  1.059985e-01 -7.411656e-01  2.108952e-01 -8.096057e-01  1.510165e-01
##         23800        106669          9595          7547        123005
##  2.229056e-01  3.336481e-01  2.036064e-01  2.590870e-01  2.019604e-01
##         49881         39591         52070         31339         59815
##  2.445152e-01  4.339837e-01  1.299963e-01  2.915560e-01  1.205938e-01
##         23082         78767         49457         41455        104866
##  1.805733e-01 -3.607297e-01  1.186308e-01  2.488114e-01 -8.764200e-01
##         92868         86685         78104         78764         29885
## -7.191772e-01  2.227121e-01 -7.629290e-01  4.203081e-01  7.342128e-02
##         66532        127284        110186         95651         25270
##  1.205843e-01  2.522466e-01  6.027177e-02  1.929955e-01 -7.340804e-01
##           487         79883         62417        107406         76996
##  1.344870e-01  3.790596e-01  1.316548e-01 -8.620939e-01  2.918035e-01
##         44770         44407        124404         76971         40914
##  3.072462e-01  4.156372e-01 -7.614114e-01  2.333578e-01  1.324023e-01
##          2428         51074        100033         26867         26900
## -1.758106e-02 -6.855671e-01  3.008736e-01  1.568110e-01  2.044600e-01
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##         20967         65416         43513         11826         30678
##  2.150331e-01  1.479255e-01 -8.545021e-01  5.491932e-03 -8.763910e-01
##        109309        107469         66368         55059         88408
##  4.533546e-01  1.107556e-01 -7.906278e-01  1.974836e-01 -6.294044e-01
##         57405        109150         33037         96734        100421
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##         39608         58551        117815        113202         72458
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##         44838         75388         81669         76826         71588
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## -5.115516e-01 -8.004984e-01  1.435325e-01  2.066030e-01  3.522323e-01
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## -8.558019e-01  2.162085e-01  1.473214e-01  1.160121e-01  6.209121e-02
##         17475         94084         72569         15859        124435
## -7.855490e-01 -8.589431e-01 -8.303626e-01  1.600509e-01 -6.959952e-01
##         74965         77011          9524         80384         12975
##  3.015890e-01  1.935154e-01  1.269183e-01  2.904861e-01  1.173449e-01
##        102244         61376        110550         55954          9644
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##         61761         60266         44370         99011         39136
##  2.618111e-01  2.411943e-01 -9.093493e-01  2.000676e-01  1.873951e-01
##         23080         24345        130220         43562        102683
##  2.112776e-01  2.478769e-01  2.495562e-01  1.865883e-01  3.322311e-01
##        116085         71031         26969         41870         75270
##  1.778393e-01  1.343507e-01  1.307177e-01  3.742099e-02  2.242302e-01
##        127781         42755        125732         65855          5922
##  3.627967e-01  3.285319e-01  2.145290e-01  1.514057e-01  2.601221e-01
##         46102         15781         77561        104815          9621
##  2.020727e-01  2.648457e-01  9.674002e-02  1.900527e-01  2.338524e-01
##         71998        120052         58113         37091         11970
##  1.116689e-01 -9.013284e-01  1.380300e-01 -7.886759e-01  2.683253e-01
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##          5489         73890        127087        114606         87974
##  2.208420e-01  3.814576e-01 -8.950531e-01 -6.603304e-01 -8.804560e-01
##         92733         60153         40353         57443        128838
## -7.838518e-01 -5.329312e-01  2.246285e-01  4.568815e-02  2.562269e-01
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##  2.846580e-01 -6.528024e-01  2.561790e-01 -7.979247e-01  2.160531e-01
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##  3.211879e-01  3.332325e-01  1.555963e-01  6.490444e-02  5.910079e-02
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## -7.298003e-01  3.879853e-01  9.935371e-02  3.682785e-01  2.086119e-01
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##        118318         68313         15659         50733         54302
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##  3.303024e-01  5.258952e-02  4.837559e-01  2.122295e-01 -9.452298e-01
##         97640         52192         66133         82887         21197
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## -9.322673e-01 -7.177365e-01  1.366982e-01 -5.098311e-01 -4.782406e-01
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##         59383        107873         79559         51217         52167
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##         30439           634         78797         30462         24504
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##         25158        107926         16762         55642         91615
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##  1.882374e-01 -5.460854e-01 -7.132458e-01  1.289901e-01  3.429233e-01
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##         98033          1793         72976        112676         49680
##  1.061165e-01  1.223477e-01 -9.652564e-01  2.886087e-01 -6.800441e-01
##         96923         85905         76467        123304         99343
##  1.202009e-01  8.505347e-02  1.126142e-01  1.830067e-01  1.326190e-01
##         17200        103617        115364        126335         45776
## -6.019038e-01  1.368256e-01 -5.933866e-01  2.699710e-01  1.207027e-01
##         68160        117836          6120         86283         68589
## -8.932148e-01 -8.021019e-01  2.012504e-01  1.524509e-01  2.575694e-01
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##         37581         31128         45148         82837        127095
##  1.322301e-01  1.220423e-01  1.585019e-01  5.222748e-03 -5.030111e-01
##         62190         41800         48343         94369         15343
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##  3.391571e-01  4.316812e-01  3.571293e-01  1.541398e-01 -6.306472e-01
##         87670         36218         72180        111962         61526
##  1.322221e-01  1.789789e-01 -5.997548e-01  1.899458e-01 -6.813466e-01
##        120702        114740         40324         82902         77394
##  2.893257e-01 -8.598702e-01  1.907460e-01  5.833587e-02  2.837298e-01
##         77650         27592        129621        127266         54460
##  5.880991e-02  1.137678e-01  1.657413e-01  4.615998e-01  1.790404e-01
##         61926         20420         12602         63605         75349
##  3.316367e-01  2.401849e-01 -8.694381e-01  8.133331e-02  1.196957e-01
##         29594         64562        101317         56496         89473
##  2.258558e-01  2.847260e-01 -5.168100e-01  2.419621e-01  2.892321e-01
##         54276         18074         73445         67234          1195
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##        118260         68057         26746         24764        102199
##  1.936319e-01 -7.670962e-01 -7.407664e-01 -7.142856e-01  1.510693e-01
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##  4.667152e-01  4.704334e-02  9.461031e-02  2.619278e-01  1.827155e-01
##          1560         84209         35595        125103         79316
##  2.197092e-01  1.357400e-01  1.335172e-01  1.399929e-01  2.843803e-01
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##         78605         80240         79436         19844         47016
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##  1.181374e-01  1.143282e-01  2.114250e-01  1.830372e-01  2.418891e-01
##         68866         34899         95371         57664         62959
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##  2.081069e-01 -7.178386e-01  5.525055e-02 -6.378011e-01  1.197691e-01
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## -8.492014e-01  1.869411e-01 -6.637159e-01  3.586251e-01  1.685221e-01
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##          9663          6377         22641         71267         86954
## -8.535950e-01  8.447523e-02  2.896748e-01  4.346592e-02  2.369410e-01
##        119908         68647          2059        105345         31074
## -5.330882e-01  2.857047e-01  1.873290e-01  2.947191e-01  1.304965e-01
##         98619         59767        128826         97597          7000
##  1.346679e-01  3.462537e-01  1.940578e-01  1.946619e-01  1.882387e-01
##         53454         88646         13545         89709         77505
##  1.675742e-01  2.272520e-01  2.119179e-01 -6.926775e-01  2.261841e-01
##        104775        124200          5304         94507        107905
##  4.109335e-01  2.118206e-01  2.804605e-01  1.935767e-01  5.304243e-02
##          7873         46752        127191         84267         46475
##  2.765745e-01 -8.624047e-01  1.316832e-01  1.884341e-01  5.845458e-01
##          1762         44785         17603         82684        115091
##  5.665090e-02  1.242761e-01  5.286983e-01  2.175114e-01  1.172625e-01
##         85152         99372        112138         70523         53015
##  2.832617e-01 -6.042059e-01  1.071412e-01 -8.340165e-01  1.339659e-01
##         36690         27892         25738         21054         46594
##  2.069778e-01  3.870654e-01  2.141792e-01  2.158272e-01  2.527603e-01
##          5522         95845        128007         96988        100467
##  1.125457e-01  3.671318e-01  2.023198e-01 -9.041706e-01  9.985920e-02
##        114894         80484        125466          8285        102665
##  1.919339e-01 -7.107957e-01 -4.763303e-01  2.598222e-01  1.249186e-01
##        111515         21504         83837         24765         95721
##  1.179156e-01  2.914816e-01  1.337042e-01 -4.402217e-01  2.642658e-01
##        111542         93854         65493         25309         63425
##  2.772540e-01  1.231374e-01  2.131883e-01  3.425694e-01  5.022338e-01
##        119828         74691         29018         74823         74468
##  2.039888e-01  1.258584e-01 -6.339051e-01  2.958856e-01 -6.712353e-01
##          7601         93549         95458        128767         32898
## -8.631962e-01 -7.908215e-01  2.898040e-01  1.105762e-01  2.230211e-01
##         10437           991         46560          7723         84377
##  4.734651e-02  4.069979e-02 -5.957176e-01 -8.833549e-01 -4.730473e-02
##         91169        103991         45353         57979         82870
##  2.189040e-01  2.874628e-01  4.309458e-01 -6.118537e-01  3.039179e-01
##        115117         15173         12995         59827         76268
## -8.193985e-01  4.654359e-02  2.099487e-01  4.479457e-01  6.306504e-02
##         69067         19728         31863         18549         64668
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##         69042        102559        116948         69908        109882
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##  5.724903e-01  1.889486e-01  4.287298e-01  1.378307e-01  2.250520e-01
##        106336        111843         18228         17768         47237
##  1.924600e-01 -5.439623e-01  2.041022e-01  2.068894e-01  4.195543e-01
##        114002         27579        122547         10705        127894
##  4.716138e-02  4.602873e-01 -7.213002e-01 -7.904598e-01  1.430291e-01
##         13432          3605         45087         45054         23332
##  9.695074e-02  1.610834e-01  1.070408e-01  4.201288e-01  3.054529e-01
##         57478         94973         23022         72282        105288
##  2.902660e-01  1.643324e-01  3.037856e-02  1.338105e-02  4.184933e-01
##          2543         85233          6882        129790         17122
##  1.816462e-01 -5.745384e-01  9.701661e-02  2.579935e-01  8.743729e-02
##         93532         70379         30258         60913         56271
##  1.375807e-01  1.351796e-01  1.112382e-01 -8.115131e-01  1.192140e-01
##         89884         99130         43900         99738         71511
## -8.735496e-01  1.851892e-01  3.792624e-01  1.554849e-01  2.781177e-01
##        104940         56855         79768         10977         89287
##  1.347681e-01  5.418192e-01  2.532059e-01  1.386414e-01  2.072041e-01
##        119867        108813         39453         69503         77116
##  3.007849e-01  3.031116e-01 -6.602931e-01  6.035846e-02  2.620318e-01
##         88979         99000         38484        128209         20903
## -6.444368e-01  1.366934e-01  2.942217e-01  1.482278e-01  1.815151e-01
##         31398        124886         83400         55670         87028
## -8.370835e-01  2.585310e-01  4.241459e-01  2.022170e-01  2.908145e-01
##         36067         33369         33568        103368         97000
## -8.501449e-01  1.650545e-01  3.722606e-01  4.465794e-01 -6.620608e-01
##        117364         21656         26064         48099        120516
## -6.570664e-01 -7.215583e-01  1.011783e-01  4.210953e-01 -2.187735e-02
##         91832          7109         40970         65649         41223
## -5.479689e-01  1.213884e-01 -7.309082e-01  2.949610e-01  2.251132e-01
##         53578        100952         80480         61797        103907
## -5.366049e-01  1.971040e-01  1.850778e-01  7.075802e-02  1.496350e-01
##         94021          2812         41523        104307        119396
##  1.777839e-01  6.128454e-02  1.288290e-01  2.934926e-01 -6.289330e-01
##         99430         91328         31551         10644        126336
## -6.340913e-01  1.264738e-01  2.612002e-01  1.630136e-01  1.475965e-01
##         29062         30080        118194         61968        110042
##  4.427039e-01 -6.762807e-01 -7.831547e-01  2.311751e-01  1.926155e-01
##         98720          2410        125618         22994         39519
##  2.841684e-01  8.762004e-02  2.289889e-01  2.409339e-01  1.926857e-01
##         25762           748         21669        111761         46182
##  2.015294e-01  2.830853e-01  2.197298e-01 -8.004143e-01  2.451707e-01
##         69039        111733          9916         24758        112727
## -6.378227e-01  1.160278e-01 -1.454125e-01  4.259067e-01 -7.707667e-01
##         87922         33153        129719         17517        107430
##  2.248811e-01 -8.092554e-01  1.074189e-01  2.073782e-01  3.589634e-01
##        129287         72042         99369         76227         26803
##  2.000112e-01  2.326150e-01 -7.244406e-01  3.556874e-01  3.368093e-01
##        115589         34865         72342         11846        111281
##  2.441306e-01  2.764621e-01  2.893557e-01  4.605891e-01  4.279758e-01
##          8831         85010        102458          8045         60853
##  8.027760e-02  2.059813e-01  3.930507e-01  3.811871e-01  5.183986e-01
##         30789        124070          6565         69282         51622
## -6.579441e-01  2.458357e-01 -1.233550e-02  1.106887e-01  1.222763e-01
##        117066         72189         19303         62986        100387
##  1.786192e-01  7.622760e-02 -5.659630e-01 -3.076379e-01  1.674755e-01
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## -7.958939e-01  1.466830e-01  2.200720e-01  2.109449e-01 -7.052425e-01
##         49096         40305         69397         63132         40605
##  2.524457e-01  3.839688e-01  1.410700e-01  1.721433e-01  2.746337e-01
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##         32614         34558        125883         13657         94273
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##         38468         14952         89172         60609         32354
##  1.263974e-01  2.126232e-01  1.297428e-01  2.087871e-01  2.899026e-01
##        128788         96266          5814         34538         54445
##  1.823915e-01  4.613703e-01  1.583621e-01 -4.202990e-01  1.479145e-01
##         19652         66467         83623         17227         55998
##  1.942908e-01  1.208604e-01 -5.370953e-01  1.873991e-01  1.783942e-01
##         85952        128684         20207         34247         50137
##  1.469435e-01  2.420183e-01  3.027512e-01 -7.411038e-01  1.218490e-01
##         95790         14080         17077         50513        106571
##  6.270951e-02 -8.840226e-01 -7.945743e-01  1.064370e-01 -7.709234e-01
##         67746         83979         59168         82567        118444
##  7.574183e-02  3.083705e-01  3.645071e-01  6.589396e-02  3.951052e-01
##         93788         66647        111294          5438         72152
##  1.794273e-01 -7.548435e-01  1.706338e-01  1.080454e-01  2.230639e-01
##         77727        118735         28522         73734         38197
##  3.016477e-02 -5.377276e-01  2.370280e-01  1.391221e-01  1.344866e-01
##         95596         18693         75933        119029         91041
## -8.728286e-01  1.442626e-01 -5.828906e-01  3.893041e-02  1.144628e-01
##        111662         92963         13293         35786          6256
##  1.119103e-01  2.406869e-01 -8.361033e-01  2.079144e-01  1.304439e-01
##          9439         28467        114025         87226         23554
## -9.652557e-01  3.439538e-01  2.042165e-01  2.228628e-01  2.713905e-01
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##         29562         32209         23967         86249         27148
##  1.996151e-01  2.856334e-01 -7.288373e-01  1.698884e-01  1.174363e-01
##         84172         79057        120535         93084        118832
##  2.712922e-01 -5.462292e-01  1.907760e-01  2.344306e-01 -5.595202e-01
##         50258         61987         14501         34469         55360
##  1.940295e-01  1.222388e-01  2.249390e-01  7.544538e-02 -6.468097e-01
##         82026         45186        125901         65830         82954
##  2.987621e-01  2.845756e-01  3.460863e-01  2.120094e-01  3.723439e-01
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##         85922        117793         30291          6597        125735
##  2.341735e-01 -8.063002e-01 -4.766723e-01  3.922937e-02  1.764660e-01
##         25871         19282         13506         70011         51775
##  4.862924e-02  4.006058e-01  1.314635e-01 -4.307040e-01 -7.181965e-01
##        129115         84767         58843         59788         57794
##  1.741077e-01  1.184107e-01  6.125778e-02  1.262002e-01  2.139695e-01
##         56766         70003         91692         14326         46163
##  3.813375e-01  2.959266e-01  1.418058e-01 -6.980485e-01  4.382909e-01
##          3810         20069         19529        127222        103818
##  1.614382e-01  1.870274e-01  2.661152e-01  6.073884e-01  2.639920e-01
##         12786         86361          6249         97011        114274
##  6.159263e-02  1.089409e-01  1.305041e-01  1.499323e-01 -8.078237e-01
##          5416         65834         75176         12202         95047
##  1.676770e-01  1.282487e-01  3.518063e-01  2.384690e-01 -4.020861e-01
##        110017         58882          3460        121200         34308
##  1.018712e-01  4.755988e-02 -7.910446e-01  1.216131e-01  4.509500e-02
##         24978         18204         51950         22510         74145
##  3.371177e-01  4.736966e-01  1.150009e-01  1.357794e-01  3.834060e-02
##         51394        126606         87141         61663          5401
##  6.437773e-02  1.982027e-01  4.395775e-02 -7.262537e-01  5.461010e-02
##         55294         87499          4411         53618         44815
##  2.247863e-01  1.493411e-01  2.521329e-01 -7.771402e-01  3.995767e-02
##         27670         64447         90832         63048         75468
##  3.639760e-01  4.515946e-02  2.322161e-01  1.533730e-01  5.188809e-01
##        114155        129080         21679        110471         18707
##  2.979828e-01 -8.044127e-01 -4.889521e-01  3.179140e-01  2.897328e-01
##        116683        118988         19213         73482         12692
##  6.595785e-02  1.264246e-01  2.420799e-01  1.523181e-01  1.203924e-01
##         64661         23299        104394         37864        106688
##  1.804308e-01  1.386477e-01  1.369155e-01  1.565159e-01  2.722390e-01
##         66335         10145         51889         73578         42799
##  1.499727e-01 -8.735893e-01  2.549114e-01  1.755229e-01 -7.146482e-01
##         92725         51120         14789         92297         66104
## -7.253656e-01  1.433945e-01  1.989781e-01  1.009291e-01 -6.644740e-01
##        109185         95874         66356         39712         71301
##  5.930427e-01  1.979897e-01  2.036770e-01 -6.359834e-01  1.440898e-01
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## -6.509067e-01  3.044929e-01 -7.729699e-01  2.031065e-01  1.289345e-01
##         43350        101969         43187         43536         77114
##  1.915718e-01  1.999898e-01  6.759798e-01  1.959384e-01 -6.272611e-01
##         88125         18624         43661         72593          2742
##  2.749664e-01  1.678821e-01  4.799482e-02 -4.875515e-01 -5.939980e-03
##         32760         61821         97057         73792         31541
## -6.690457e-01 -6.519371e-01  4.142609e-01  1.103310e-01  1.417851e-01
##        113095         11902         91268        104302         44103
##  1.198670e-01  2.327186e-01  2.335469e-01  2.352658e-01  4.006339e-01
##         59624        100881          1914        104710         18247
##  3.599176e-01 -8.638966e-01  1.742479e-01  4.562637e-01  3.983091e-01
##         27922          2173          9013         60130        117513
##  4.526730e-01 -3.102978e-02  8.127943e-02 -6.347544e-01  2.187827e-01
##         80988         79815         50814         28941         21040
##  1.102667e-01  3.002843e-01  2.033570e-01  1.744220e-01  1.045550e-01
##         69966         89650         47965         45989         58913
##  6.274901e-02  1.382719e-01  1.397616e-01  2.696304e-01  2.004580e-01
##         48382         21906         39893        117087         36758
## -8.256278e-01  4.671275e-01  2.207694e-01  1.878027e-01  2.389637e-01
##         40987         36504         39522         55771         32311
##  1.824926e-01  1.403736e-01 -4.251563e-01 -4.164702e-01 -8.599304e-01
##         13882         76903         30768        101918         78399
## -2.302030e-02  3.642197e-01  2.035088e-01  1.946944e-01  2.503021e-01
##         27891         84302        122932          1483        121844
##  2.224685e-01  2.909034e-01  2.101414e-01  1.170073e-01  2.946433e-01
##         22820         93640         67499        104550         32739
## -8.080824e-01 -7.670028e-01  7.066163e-02 -6.745348e-01  2.988834e-01
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##  4.852389e-01  1.072440e-01  2.033409e-01  2.043348e-01  3.347571e-01
##         25085          8370         20103         53537         30911
## -6.327128e-01  1.972710e-01  1.445114e-01 -7.193195e-01 -6.892189e-01
##         73626         97518        123941        105526         41547
##  3.028109e-01  1.520764e-01  2.423760e-01  2.045959e-01 -3.197964e-03
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##         79487         30290         58788         33587         77218
##  1.920690e-01  1.852137e-01  4.106017e-02  2.192453e-01  3.783339e-01
##         38341        108541         77431         30504         83531
##  2.482492e-01  1.521812e-01 -7.792952e-01  1.925794e-01  2.200450e-01
##         78873         34936         60610         49529          7933
##  1.957381e-01 -8.085599e-01  2.535873e-01  1.084396e-01  1.422799e-01
##        120539         65763         69835        104561         57738
##  3.427176e-02 -7.865052e-01 -7.268930e-01  1.364282e-01  2.660859e-01
##        109887        116048         35809        129781         75895
##  5.055186e-01  1.257776e-01  2.468333e-01 -6.673483e-01  7.411761e-02
##          7413         23345          9789         48658         45430
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##        128797         18720         23888         57400         45338
##  1.778338e-01  1.929366e-01  3.701097e-01  3.389866e-01  2.838853e-01
##         47722        114257         19335         27128        107234
## -7.040068e-01 -4.077018e-01  1.891948e-01  1.893984e-01 -6.220352e-01
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##         76851         14945         57065         58620        120488
## -7.776297e-01  2.449243e-01 -5.231352e-01  1.529705e-01  1.033977e-01
##        103711         11634         49429          4990         42022
##  2.279833e-01  1.237537e-01  6.860837e-02 -6.212153e-05  4.898739e-01
##         68343        114086        109361        130416         11738
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##  2.737838e-01  1.778351e-01 -7.797355e-01  1.712064e-01  1.249044e-01
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##  1.795992e-01  1.959701e-01  1.429237e-01  1.267947e-01  1.659485e-01
##         20593        125776         89850         28036        104272
## -6.732261e-01 -3.693283e-01  5.236399e-01 -5.555569e-01  3.026471e-01
##         43817          3094        127656         94336        119133
##  2.299829e-01  3.942478e-01  1.422637e-01  1.825697e-01  1.843262e-01
##        104737         38580        115606        118276         58118
##  3.100054e-01  2.057074e-01 -8.977701e-01  1.227123e-01  1.538771e-01
##        111855        104517         64256        110218        105323
##  1.066669e-01  1.307090e-01  1.063832e-01  6.951289e-02  3.952345e-01
##         82713         81857         40649         42439         78618
##  4.538021e-02  3.011271e-02 -6.545657e-01  1.360749e-01 -8.818223e-01
##         58361         89698         99629          6601         76120
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##  2.862139e-01  3.080425e-01  1.801005e-01  2.510347e-01  2.716471e-01
##         63754          4479        129051         99350         13725
##  1.745848e-01  1.674226e-02  1.346962e-01  2.078918e-01 -9.523490e-01
##           526         97257         19242         99969        107276
##  2.362761e-01  5.652940e-02  1.129607e-01 -1.033304e-02  2.636603e-01
##         95772         94798        108505          8007         10876
##  1.351952e-01  5.148283e-02  3.488675e-01  2.119858e-01 -8.481936e-01
##         87021        103554         38625         22680         30452
##  1.373322e-01  2.082470e-01  2.697001e-01  4.334318e-01  2.147872e-02
##        105958        102413         48295         34435         23432
## -6.936966e-01  5.323973e-01  2.058992e-01 -4.889857e-01 -7.679021e-01
##        103705         99195        101587         70529        123443
##  3.376685e-01 -4.800895e-01  2.807010e-01  3.569447e-01  7.872879e-02
##        127630         28341          6923         22806         72587
##  1.447312e-01  2.110219e-01  5.521685e-01  3.599805e-01  1.312178e-01
##         30395        113007         96117        101251         47104
## -7.506777e-01  2.120418e-01 -8.228428e-01  4.490283e-02  1.734376e-01
##         81205         19773         59610        112356         20118
## -6.565524e-01  9.691353e-02  3.773056e-01  1.861032e-01  1.796782e-01
##         14500         46414         90232         93180        122171
##  2.188700e-01 -7.544797e-01  1.472435e-01  1.539590e-01  2.571828e-01
##        119211         42394         17577         46835         20135
##  2.114284e-01  1.198670e-01  3.399448e-01 -7.972000e-01 -7.712776e-01
##         18602         86048        114017        129967        118876
## -7.263132e-01  2.822896e-02  7.813736e-02  1.248269e-01  3.366856e-01
##         11466         17676         41723         94146         80535
##  1.753674e-01  2.911071e-01  1.929645e-01  3.675911e-01  5.178586e-01
##         49399         98615        102638         49520        130523
##  3.025752e-01 -7.858112e-01  1.262161e-01  1.420369e-01  2.489951e-01
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## -5.330251e-01  2.078174e-01 -5.592620e-01  6.574749e-02  1.848846e-01
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##         31270         37425         89152        127634         88764
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##  1.543528e-01  2.757568e-01  1.399288e-01  2.495137e-01  1.608514e-01
##         78424         76931        112181         77307        114078
## -5.591370e-01 -8.104651e-01  4.041254e-01  3.152134e-01 -7.317609e-01
##         73298          4781         23578         83642        106915
##  1.685849e-01  2.348608e-01  4.461290e-01  7.415958e-02  2.254585e-01
##         22717        112152         36463         77259         35807
## -7.830325e-01  1.799375e-01  2.620333e-01  2.990986e-01  2.476906e-01
##         77027         61770         97237         91309        110627
## -7.483742e-01  6.687142e-02  4.145424e-01  9.232358e-02  3.633515e-01
##        113347         53637         64632         50672         88216
##  2.158096e-01  4.314113e-01  1.407364e-01  2.005087e-01 -6.059633e-01
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##         19143         48408         24939         14178        127215
## -3.908948e-01  1.266143e-01  2.048318e-01 -8.897185e-01  3.010013e-01
##          4214        116341         52229         54258        109991
##  3.646723e-01  2.792818e-01 -8.025734e-01  1.298874e-01 -7.825827e-01
##         37671        107065         34212         65299         18678
## -7.485664e-01  1.902147e-01  2.684376e-02  1.429254e-01  1.172602e-01
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##         22611         56814        127211         52964        103598
## -6.960895e-01  2.094700e-01  2.496218e-01 -7.190016e-01  2.739510e-01
##         15124        117672        108834        109876         13472
##  4.541200e-02 -8.420437e-01  2.119167e-01  1.130292e-01  4.661386e-02
##         57687         29695        125587         15308         18429
##  2.406206e-01  2.418418e-01  1.672299e-01 -7.974590e-01  1.694556e-01
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## -6.951464e-01  1.826589e-01  5.842162e-01 -7.844471e-01  2.811531e-01
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##  7.360669e-02 -8.024607e-01 -7.930062e-01  2.572614e-02 -7.327850e-01
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## -1.563818e-02  5.142896e-02  1.155046e-01  3.925959e-01  1.969200e-01
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## -7.760897e-01  2.382931e-01  2.629886e-01  2.025338e-01  1.817214e-01
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##         59518        100728         88375        103387         92257
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## -7.612013e-01 -6.237031e-01  1.147123e-01  1.116318e-01  1.123993e-01
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## -5.752958e-01 -6.118199e-01  1.333576e-01  2.445231e-01  1.330173e-01
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##  1.784092e-01  2.835021e-02  1.981818e-01 -6.603255e-01  2.995107e-01
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##         27056         44560         64895        106325         77117
##  2.223879e-01  1.989784e-02 -7.184151e-01  2.738763e-01  9.937450e-02
##         72714         79388         61485         76483        112234
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##         14098          4489         77447         14464         96295
##  1.546228e-01  9.818142e-02 -8.616139e-01  3.497947e-01  2.785409e-01
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##         87893         80866        104921         36474         44606
##  2.130124e-01 -7.817043e-01  1.335848e-01  1.031099e-01 -8.941951e-01
##         61878          2563          7206         43241         80114
##  1.970238e-01 -2.916440e-02 -6.147741e-01  2.362134e-01  3.597447e-01
##         48454         36375         87444          3622        106619
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##  3.738626e-01  7.512398e-02  2.175776e-01  1.219779e-01  7.440173e-02
##         51951         12333         22141         88655         47255
##  2.661390e-01  2.521311e-01  2.628720e-01  6.127590e-02  4.359826e-01
##         11547         25737         42453         11433         63066
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##         35015         82195         28777         80349         98007
## -7.303192e-01  1.397964e-01  3.607759e-01  1.989359e-01  3.033348e-01
##        110171         56972         55345         34529         20090
##  1.234180e-01 -8.268572e-01 -7.326937e-01  1.620426e-01 -6.238777e-01
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##  2.282714e-01 -5.865077e-01  3.708118e-01  1.208123e-01  1.213729e-01
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##         24222        122114         58762         39961         54886
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##        127271         79839        114462        113840        125072
##  2.371191e-01  6.797013e-02 -7.721446e-01  2.101408e-01  7.088935e-02
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##  1.424993e-01  2.026581e-01  2.121001e-01  2.803559e-01  1.644994e-01
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##         55943         74925         52547         17441         83510
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##  1.452740e-01 -8.693747e-01  1.770805e-01  1.710471e-01  1.198409e-01
##         13738         90692         12415         19080         40841
##  2.052590e-01 -7.549343e-01 -6.929597e-01 -7.312393e-01  2.216474e-01
##         17035         79711         83690         15676         26420
## -7.934235e-01  2.576417e-01  9.927937e-02 -7.397375e-01  2.766031e-01
##         15357        112932        123306         71928         94682
##  1.926381e-01 -5.099136e-01  2.294040e-01  1.883441e-01  5.141293e-01
##         87626        106705         88468         23662         84432
##  1.915050e-01  3.371906e-01  1.342888e-01 -6.622755e-01 -4.883986e-01
##         77522         46059         94614        126950           148
##  1.391225e-01 -6.988629e-01 -8.836666e-01  3.257543e-01  8.835060e-02
##         52368         15034        111506         43129         22631
##  1.905775e-01 -9.667867e-01  2.220799e-01 -6.748830e-01  2.275529e-01
##         83481         32691          3715          9761         37332
## -5.548192e-01 -4.004212e-01  4.521551e-01 -8.960656e-01  4.395442e-01
##         68730         69054         47723         75750        110849
##  3.244277e-01  3.703614e-01  1.610980e-01  1.440645e-01 -7.955146e-01
##          8647         75318         62057         22983         73566
##  4.776032e-02  1.298391e-01 -7.510239e-01  1.376888e-01  2.879794e-01
##         68894        119099         26799        114209         26849
##  4.152335e-01  2.148149e-01 -8.506837e-01  1.304390e-01  2.775954e-01
##         76370         64940         22200         65035         99073
##  4.666699e-02 -6.386718e-01  1.941291e-01 -8.163931e-01  2.663961e-01
##        109804         32538         85310         46980          5432
##  1.179330e-01  2.181743e-01  2.779991e-01 -7.034689e-01  1.348278e-01
##         35450         61237         59531        111695         64065
## -8.012996e-01  4.408784e-02  2.202004e-01  1.774011e-01 -6.621923e-01
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##  1.759244e-01  2.098017e-01  2.036194e-01 -6.985263e-01  1.897645e-01
##         68166         44335         21483          2162         57151
## -7.867328e-01  2.266768e-01  3.005506e-01 -1.403440e-02 -7.090021e-01
##        129674        128958         68087         67709         42624
##  3.220127e-01 -8.330159e-01  3.543374e-02  7.444771e-02 -8.896815e-01
##         17559        117621         16043         61632         95853
##  2.566685e-01  1.210859e-01  2.301185e-01 -6.136248e-01  1.849313e-01
##         50579         40896         74049         14542         60940
##  2.636952e-01  1.144832e-01  2.483469e-01 -8.792657e-01  3.811686e-01
##        111613         30131         26883         83595         67729
##  2.778677e-01 -7.893399e-01  2.650435e-01  3.707604e-01  9.638198e-02
##         59086         17813         32204         25373         35161
## -6.929635e-01  2.694596e-01 -7.000793e-01  1.470312e-01  1.107079e-01
##         20405         38139         87254         49003         85672
## -6.932621e-01  2.016050e-01  4.026783e-01  1.888148e-01  2.013625e-01
##        102554        107197        118512         46227         54256
##  2.491768e-01  1.244200e-01  4.906600e-01 -5.323854e-01  8.815758e-02
##         53387        104362         77949         53917        123292
##  3.507331e-02  2.026281e-01  1.771769e-01  2.026741e-01  1.055158e-01
##         75710         81888         19323         45418         76667
##  9.471785e-02  3.316006e-01 -6.344662e-01 -5.918865e-01  2.751421e-01
##        116293         16577         30580          1584         87688
##  1.299488e-01  1.083148e-01 -6.280617e-01  1.433176e-03  1.922779e-01
##         77825         26099         46575        108799         23778
##  2.710284e-01  1.921652e-01  1.877495e-01 -4.833098e-01  3.419975e-01
##         10782         29569         64901         95630         29686
##  8.116843e-02 -8.062502e-01  1.856168e-01 -4.695542e-01  2.722861e-01
##         56139         69734         21336         11231         21201
## -8.616808e-01  2.150429e-01  1.694347e-01 -1.540576e-02 -7.315198e-01
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##  1.777299e-01 -4.053777e-01  2.914410e-01  1.448204e-01  1.376893e-01
##         52411         31560         17337         66608         29030
##  2.988103e-01  2.844483e-01 -4.033846e-01 -8.229624e-01  1.194477e-01
##         84534         86365         99622          3500         80410
##  2.281751e-01  1.011426e-01  4.222730e-02  1.170290e-01  2.910818e-01
##         21724         61085         94252         12287         40726
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##         44067         77566         91513         70927         61035
##  7.062381e-02  1.543635e-01  2.388747e-02  1.238909e-01  2.850534e-01
##         55497        117969         80145         30635        104081
##  1.441103e-01  3.554037e-01  1.236457e-01  2.566666e-01  1.391236e-01
##         54048        121786        112578         84249         26450
##  2.743888e-01  4.715457e-01  9.741342e-02  7.850769e-02  2.576704e-01
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##  1.289725e-01 -7.797850e-01  1.097690e-01  3.666768e-01  5.299367e-02
##         87516        105540        102508        123094         52266
## -7.760265e-01  3.130301e-01  4.720787e-01  2.641874e-01  1.477818e-01
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##        101919         50173        123315        117924         33774
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##          2385         27955        103541         25236        101516
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##  1.608581e-01 -8.126980e-01  9.521214e-02  3.596993e-01  2.809825e-01
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##        109580         69579         96159         40282        109541
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##         77826         89309        100671        104371        113250
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##         27821         32759         25821         64563         99992
##  1.260855e-01  1.880737e-01  1.308817e-01 -8.204532e-01  2.577134e-01
##         78986         62390        120064        130513        128229
##  2.038424e-01  2.165618e-01  5.339765e-02  2.341843e-01  4.554891e-01
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##  5.676474e-02  1.705877e-01  2.531274e-01  2.806133e-01  5.303051e-02
##         79468         18763        124018         80889         86002
## -7.085620e-01  1.354114e-01 -8.462184e-01  6.280591e-02  9.518296e-02
##          4017         62352         52940          5276         92485
##  1.740314e-01 -8.164033e-01 -5.972582e-01  2.779582e-02  7.200106e-02
##         38052         31797         93659         65453         21689
## -8.322450e-01  1.348511e-01  3.147080e-02  8.311963e-02  2.037210e-01
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##  4.719262e-02  3.696320e-01  2.396799e-01  2.411797e-01  2.479824e-01
##          5201         23703         52904         56733         64184
##  2.238873e-01  1.164697e-01  7.017051e-02  2.453813e-01  2.994649e-01
##         56207         87968          9965          6293        100611
##  3.838526e-01  1.538193e-01  4.995673e-02 -5.278919e-01  2.197675e-01
##         56477        123208         49295        115026         38835
##  1.012465e-01  1.643143e-01  4.625151e-02 -7.957497e-01  4.419108e-01
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## -5.879607e-01  1.325490e-01  2.894150e-01  1.175290e-01  4.910330e-01
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##  9.236003e-02  4.353442e-01  1.516069e-01  1.322501e-01  1.913498e-01
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##        130638         32901         50823        116190         47295
##  4.719607e-01 -8.020699e-01  2.035432e-01 -5.739717e-01  1.429360e-01
##         15682        128998         96137        129223         20959
##  1.773323e-01  5.328552e-01 -4.066278e-01  1.730049e-01  1.155323e-01
##         21954         26232         51474         66961         73892
##  4.912906e-02  2.624851e-01  1.713636e-01  5.490312e-02  2.762750e-02
##        113586        114386         84524         50651        108492
## -7.184897e-01  1.198353e-01  2.776384e-01  2.008946e-01  1.384501e-01
##         91976         78115         79006         80555        116312
##  3.605955e-02 -9.901370e-01 -8.128903e-01  1.314217e-01  2.185252e-01
##        114401         20769         77439         23123        130583
##  1.921623e-01  3.198322e-01  1.878578e-01  2.605701e-01  2.092616e-01
##        108256         93057         58539        122901          8560
##  1.952590e-01  2.000350e-01  2.030521e-01  1.446527e-01  2.055550e-01
##        104729         17719         61414         68033         71488
##  3.429944e-01  2.690920e-01 -7.305467e-01 -8.117352e-01 -7.577000e-01
##         36925         28046        118602        127559          5199
##  2.256336e-01  3.467630e-01  3.502724e-01  1.510617e-01  1.877550e-01
##         55783        127394         25140         67827         46283
##  1.960064e-01  7.472972e-02  3.931591e-01  3.167360e-02  4.500330e-01
##         20006        119154         93047         63669        128345
## -8.100509e-01 -7.109603e-01  1.026081e-01  4.303661e-02  6.618194e-02
##         86469        127854         50108         32589         86854
##  2.229451e-01  1.569528e-01  1.622287e-01 -6.421297e-01  3.609041e-01
##        100666         23532         54711         39269         20605
##  2.990652e-01  5.609729e-02  2.061206e-01 -3.571441e-01  2.392307e-01
##         24962         26923         23644         27283         91469
##  6.105675e-01 -8.091064e-01  4.105211e-01  8.790526e-02  1.763875e-01
##         87997         77151        128784         46210         65806
##  2.102917e-01  7.586580e-02  5.389627e-01  1.324334e-01  6.584373e-02
##         95578        126010        117877         19661          7824
##  7.399332e-02  2.187805e-01 -9.249645e-01  1.511825e-01  5.056458e-02
##        118171         38673         30546        105945        101582
## -7.110303e-01  4.453344e-01  2.130872e-01  1.295073e-01  3.716093e-01
##         63286         72016        101014         35378         38979
##  4.296423e-01  2.056352e-01  1.858398e-01  1.479660e-01  3.468145e-01
##        102161        122328         73717        123484         25040
## -7.107354e-01  2.784871e-01  2.781953e-01  2.318363e-01  3.812101e-01
##         20350         63020         60556         15810        116357
##  5.239154e-01  5.277717e-02  1.849162e-01  3.193599e-01 -6.893702e-01
##         57058         70770         57822        105124        130462
##  2.583539e-01  2.755218e-01  3.827026e-02  2.021519e-01  2.512678e-01
##         53159         49903         26509         15264          4339
## -7.121621e-01  2.210238e-01 -6.606167e-01  1.345042e-01  4.958280e-02
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##  2.216585e-01  3.063422e-01  2.698662e-01  1.114059e-01  1.055021e-01
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##  1.104508e-01  4.295466e-02  1.477386e-01 -4.881508e-01  5.046292e-02
##         22929         65535        125020        105101         79458
##  2.198625e-01  4.320688e-02 -6.784028e-01 -7.941343e-01  2.870376e-01
##         50345         82461         56982         51271         18898
##  2.600694e-01  4.694236e-01 -7.377611e-01  7.067748e-02 -8.152029e-01
##         92311        119456         80479          3031         89329
## -8.403570e-01  2.150831e-01  9.832301e-02  1.676182e-01 -7.105251e-01
##        126664         26542         66022         44851        115398
##  1.223773e-01 -8.051648e-01  1.075744e-01  4.954591e-02 -4.188254e-01
##         96323         31473        126688         29049        115607
##  5.894315e-02  1.982460e-01  3.227879e-01  1.002724e-01  1.316586e-01
##         47939         83431        106256          5302         86113
##  2.084451e-01  2.941727e-01  1.363528e-02  1.578928e-01  4.026411e-01
##           566           990        111778         30919         15901
##  4.753661e-01  2.649666e-01  1.218189e-01 -8.734292e-01 -8.646712e-01
##        106331        118084        101097         94705         63329
## -6.816320e-01  2.822655e-01  1.164967e-01 -5.604709e-01  2.732164e-01
##         33618         12319         87229        106063         86630
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##  2.016718e-01 -3.278740e-01  1.179912e-01  1.904689e-01 -5.703711e-01
##        107729        130432         67510         57365          9701
##  3.768969e-01  2.410908e-01  1.141759e-01 -5.856374e-01  2.114632e-01
##         88921        128346         90114         31068         49681
##  2.353381e-01  2.364528e-01  5.015444e-02  3.271958e-01  2.212410e-01
##         59861         70847        103706        119914          8644
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##  4.599908e-01  2.291958e-01  1.231249e-01  3.020627e-01  2.702477e-01
##         22802         86200         28445         47593         80183
##  1.264683e-01  6.699514e-01  1.203515e-01  2.162284e-01  4.134096e-02
##        104628        129787         19442        130517         67283
##  2.102593e-01 -6.918633e-01  2.975496e-01 -6.722093e-01 -6.344776e-01
##         54983         63073         92366         78608         10242
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##         82365         14737         66718         12353         94023
##  1.077150e-01  1.464651e-01 -8.667329e-01  1.092565e-01  1.160466e-01
##        107091         89960         27394        116294         57136
##  2.020018e-01  5.953652e-02 -4.923807e-01  1.205076e-01 -7.941009e-01
##         84913         92117        103226        115950         21823
##  2.216268e-01  1.246459e-01 -7.383458e-01  2.784797e-02 -5.866474e-01
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##         43058         82493         81547        113005         48076
##  1.967098e-01  4.013535e-01  5.282373e-01 -7.326778e-01  1.385408e-01
##         53892         20394         54438         53607         78395
##  1.738136e-01 -7.459775e-01  1.150710e-01  1.029381e-01  1.156626e-01
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##         38898         22849         80436         67892         24468
##  1.811847e-01  1.069393e-01 -6.947387e-01 -7.974178e-01 -8.837532e-01
##         12348        123782        112780         47550         50080
## -2.650560e-02  2.487870e-01  2.489273e-01  2.307071e-01  6.501278e-02
##         30331         72720         92871         63361        122946
##  1.337320e-01 -7.831836e-01  3.603193e-01 -6.472205e-01  2.591632e-01
##        101616        103196         73906         29797         52078
## -8.234323e-01  5.144149e-01  9.230359e-02 -8.112276e-01  2.575432e-01
##         76367         33668         41915        130327         76595
## -6.165139e-01  1.207968e-01 -7.859753e-01  3.861324e-01  2.259885e-01
##         65694         79930        106027        126193         92054
## -7.856257e-01  3.608764e-02  3.903189e-01  1.359320e-01  2.641800e-01
##        115717         59935         19908         22306         11175
## -7.882611e-01  2.644344e-01 -4.939842e-01  1.274843e-01 -4.033155e-02
##         52277         56579         64360         46859         28988
## -6.234838e-01  1.171605e-01 -3.162170e-01  3.173175e-01  1.764450e-01
##        129431         91879         89647         56483         70762
## -9.073586e-01  9.339599e-02  3.582484e-01 -5.701393e-01  2.721392e-01
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##  1.231632e-01  1.899912e-01 -6.501203e-01  3.516486e-01  8.904283e-03
##        105824         23697         28490         69815        105652
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##  1.826304e-01 -7.382951e-01  2.236994e-01  1.332748e-01  1.199393e-01
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##  1.961679e-01 -7.736853e-01  3.490456e-01  3.585771e-01  3.317337e-01
##         75108        113622        125738         55156         73835
##  2.939118e-01  1.264285e-01  3.673808e-01  3.298751e-01  1.013185e-01
##         94729         32352            75         52326         62898
##  2.741203e-01  2.273014e-01  2.437419e-03 -7.175486e-01  2.585003e-01
##        103358         23674        118202         78728        105325
##  1.328025e-01 -5.718131e-01  2.823984e-01  6.212122e-02  2.030877e-01
##         69572         35027         33907        129912        108858
##  5.985425e-02 -4.363514e-01  3.070946e-01  8.197808e-02  2.079554e-01
##         16481         17752         66940         19577         70798
##  2.842520e-01  1.306262e-01 -7.571430e-01  1.934965e-01  3.289218e-01
##        122379         58661         95979         69488         56475
##  2.438969e-01 -7.507545e-01 -6.783263e-01 -6.712636e-01  2.812487e-01
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##         10794         37245         56694         83658         44863
##  2.720789e-01  1.944631e-01  1.346791e-01  1.555308e-01  2.861192e-01
##         32054         75497         50891        112711         69352
##  1.336950e-01  6.075625e-02 -4.999551e-01  1.088779e-01 -9.503583e-01
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##  5.974407e-02  2.117482e-01 -8.297176e-01 -8.936823e-01  2.106597e-01
##         17733        114442         65139         15121         99344
## -5.502598e-01  4.836470e-01 -6.643662e-01 -3.865294e-01  1.220483e-01
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## -8.696448e-01  5.482467e-01  8.709169e-02  4.183226e-01  1.215164e-01
##          7932         45416         82720         78478        108918
## -6.673605e-01  4.045807e-02  2.508527e-01 -7.126800e-01  2.267178e-01
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##         36556        113490         25344        113945        116374
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##        115588         25395           332         20514          6482
##  4.113930e-02 -8.106308e-01  2.474648e-01  1.965738e-01  1.980020e-01
##         44551        101484         58809         77865         78336
##  1.794439e-01  5.970300e-01  1.788518e-01  2.013799e-01  2.397921e-01
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##  2.018413e-01  4.263596e-01  2.048050e-01  1.379924e-01  1.935589e-01
##         49215         28880         45623         25262         92162
## -9.508053e-01  2.104505e-01  5.584473e-01  2.738719e-01  5.112872e-01
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## -8.638899e-01 -5.917061e-01  2.959498e-01  2.951461e-01  7.460894e-02
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##         44925        128142         83712         14739         90599
##  2.103120e-01  2.271846e-01 -5.030492e-01  1.614697e-01  2.794401e-01
##        116481         76811         12077           176          6980
## -7.909296e-01  1.516493e-01  3.113306e-01  1.508580e-01  2.245966e-01
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##          5591         29288         45347        128870        128006
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## -8.612302e-01  2.387837e-01 -1.109700e-02  6.844320e-02  3.057815e-01
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##  5.464920e-01  1.981165e-01  2.565673e-01  1.132822e-01  4.757011e-02
##         39801         42278         82856         68598        112815
## -8.077127e-01  4.224225e-01  2.100072e-01  3.332064e-01  2.140616e-01
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##  2.522880e-01  2.450798e-01  5.584203e-02  3.590425e-01  1.014334e-01
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##  1.461567e-01  1.891937e-01  1.486488e-01  1.321223e-01  1.157292e-01
##        102967        100778        110256        115324          6399
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##         36818         27181         40527        102387         51067
##  2.388641e-01  2.505917e-01  3.308866e-01 -7.389480e-01  2.451649e-01
##        124510         87256         33169        121870        101172
## -6.282659e-01 -3.912767e-01  1.147538e-01 -8.577976e-01  1.271347e-01
##         20662         84879        123759         95313        124742
##  5.034365e-01  1.295599e-01  1.590910e-01  1.858548e-02  1.895814e-01
##        118455         23818         68141         64756         10541
## -4.102289e-01  4.090134e-01  4.658610e-01  2.681676e-01 -7.219222e-01
##         75766         42012        121054         75103         11686
##  2.374238e-01  3.401276e-01  2.101051e-01 -8.107614e-01  3.815715e-01
##         30846         92663         24827         14312         44598
##  9.451649e-02  1.178914e-01  3.974075e-01  2.222283e-01  9.647325e-02
##         68359         55374        103841         10244         94748
##  4.065129e-01 -7.380360e-01 -6.265330e-01  1.516598e-01  1.270856e-01
##        115130         99247         17313         91667        102621
##  2.184843e-01  4.281627e-02  1.983938e-01  1.936785e-01  1.243845e-01
##         64348        117514         75503        118986         14891
##  2.086134e-01 -8.063387e-01  1.929938e-01  4.627381e-01 -7.869326e-01
##        129700         25169         49385         83590        108218
##  1.564498e-01  1.132447e-01 -9.410993e-01 -4.955852e-01 -6.680653e-01
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##        125497         36072         38415          7032         70461
##  2.947941e-01 -5.673280e-01  3.169194e-01  2.688540e-01  6.739173e-02
##         84282        100709         42777         81438         77799
##  2.606515e-01  3.814707e-01  2.346567e-01  2.072756e-01 -3.807221e-01
##         87948        112517         78027         88079         36770
##  1.883609e-01  2.698230e-01  5.219485e-02  2.063529e-01  2.688448e-01
##        105166         61288         83122        118121         24960
## -7.881681e-01  3.412713e-01  6.680431e-02  1.457662e-01  4.401118e-01
##          4021         97350         22844        105276         59286
## -5.898978e-02  3.226803e-01 -7.941153e-01  2.419995e-01  3.311336e-01
##         92187        122654         96273        101106         98206
## -4.356147e-01  4.398935e-01  6.385523e-02 -8.566697e-01  2.324417e-01
##        127537         62004          2609         24042         61337
##  2.470418e-01  3.112977e-01 -1.814013e-03 -7.495367e-01  1.132647e-01
##         75448         97542        107078         60744         66923
##  9.792040e-02  2.156151e-01  1.797273e-01  1.849770e-01  2.598054e-01
##         80703          1314         61011         97380        107438
##  4.617446e-01  1.368694e-03  2.598424e-01  1.113783e-01  2.104290e-01
##         35497         30467        108097         99562        117234
## -7.173065e-01 -7.270879e-01  1.878364e-01 -6.011812e-01  2.901819e-01
##         32327         90090        118711         83795         37151
##  5.533682e-02  2.871305e-01  3.360276e-01  2.786665e-01  1.327005e-01
##         85884         23177         78979         47481         17625
##  9.838470e-02  2.751826e-01 -7.927639e-01 -7.159630e-01  3.675201e-01
##         73794         10783         84617         39789         81876
##  2.116478e-01  7.174479e-02  2.201836e-01 -6.318689e-01  1.965568e-01
##         13570         39972         74780         36608         30385
##  5.655327e-02 -7.853624e-01  1.791738e-01  2.653023e-01 -6.573713e-01
##         83926         47193        100024         39267         89411
## -8.658606e-01 -6.741025e-01  1.188432e-01  2.100859e-01  3.418698e-01
##         10563        113673         25219         47719         24266
##  2.016147e-01  2.112266e-01  1.637511e-01  2.801955e-01  2.273580e-01
##         53050         95576         87163         30046         92272
##  1.722641e-01  1.289366e-01  1.457876e-01  3.922945e-01 -5.266009e-01
##         14575          4626         80407        129796         79438
## -7.514868e-01  2.564759e-01 -8.401364e-01  7.082969e-02  4.786028e-02
##         26901        119325        116493         89443         40374
##  1.840344e-01  1.910080e-01  1.980268e-01  4.007327e-01  3.960903e-01
##         14037         81604         88650         36620          3980
## -3.619755e-02 -6.257600e-01 -7.702118e-01  2.710450e-01 -4.640812e-02
##         26643         62512         41337         16951        105484
## -8.108719e-01 -7.016530e-01 -8.725607e-01  2.177255e-01  1.440352e-01
##         97882         37109        111979          5022         45161
## -7.096992e-01  1.150230e-01  1.271014e-01  3.872269e-01 -6.866414e-01
##        104369         74401         56626         61244         88483
##  1.774864e-01  2.075674e-01  3.557905e-02 -6.740198e-01  1.947748e-01
##         63772         26393        122081        105144         43718
##  2.298907e-01  2.176816e-01 -7.370365e-01  1.766279e-01  8.802377e-03
##         64050         69413          5849         71719         59354
##  1.754823e-01  3.446899e-01  2.529566e-01  5.146591e-02  2.117519e-01
##         55483         76380         22440         11704        129428
##  1.232189e-01  2.849766e-01  4.725221e-01  1.053728e-01  2.337495e-01
##         50574         22666         15843         37241         62287
##  1.383559e-01  1.200983e-01  1.329959e-01  2.060874e-01 -6.069710e-01
##         45214          4932         58901         20133        112813
##  1.442256e-01  2.581743e-01  1.572508e-01  2.230853e-01  1.979359e-01
##         75322          6466         27976        121339         82770
## -6.417085e-01 -2.280098e-02  2.704127e-01  1.262772e-01  5.366965e-02
##        123597         32732          7659         79536         70492
##  4.139664e-01  3.323158e-01 -8.023036e-01  1.233454e-01 -7.503202e-01
##         33078         40663          6217        102116         34017
## -8.361101e-01  1.830451e-01 -1.188567e-02 -6.766705e-01  3.620214e-01
##         68133         64342         55596        125650         45626
##  1.467241e-01  6.766433e-01  2.275321e-01  4.565670e-01  2.050983e-01
##         81023         12460         63948         84187         70214
##  3.912171e-01  1.362450e-01  1.763078e-01 -6.475151e-01  3.547225e-01
##         89079         11662         27266         12272         44681
## -6.418105e-01 -8.685852e-01  1.972582e-01 -7.921873e-01  1.149770e-01
##         49397         62917         60671         70539         14719
##  1.605248e-01  1.707933e-01  2.083438e-01 -5.255823e-01 -7.495815e-01
##         82086        126463         35315         14986         96007
##  3.000011e-01  2.482939e-01 -5.781875e-01  5.577034e-01  2.951381e-02
##         26978          1504        118362         24697         32363
##  1.088619e-01 -1.337977e-02  2.331583e-01  2.157911e-01 -7.132972e-01
##         26282         89862         95734         37347         56228
##  1.850859e-01 -6.443295e-01  2.900624e-01 -7.271101e-01  1.935123e-01
##         96218        122382        104709          4274        127593
##  5.424519e-02  2.854956e-01 -6.422584e-01  2.675887e-01  2.033459e-01
##         46185         82932         74649         19635         90371
## -7.115832e-01  2.132077e-01 -7.697177e-01 -5.414771e-01  1.379987e-01
##         30434         59812         53498         54205        111207
## -7.575076e-01  4.375204e-02  3.663080e-02  4.604413e-02 -4.205383e-01
##         26700         28435         34219         71398         73397
##  6.042319e-02  1.533252e-01  2.162704e-01  4.974421e-02  1.462796e-01
##         71979         74452        119547         48976         18069
##  7.757967e-02  1.945110e-01  2.469736e-01  2.564843e-01  3.391260e-01
##         30459         56512        126818         16375         16388
## -6.643518e-01 -7.312097e-01  2.315384e-01  4.936494e-01  7.303505e-02
##        115595         11215        101796        129639          3341
##  3.628436e-01  3.161923e-01  2.165107e-01 -5.415855e-01  1.780527e-01
##          8532         70632         36980         36508           608
##  2.841561e-01  2.741051e-01  2.379550e-01  2.630731e-01  2.274221e-01
##          1938         42194         14525         99797        127269
##  3.626986e-02  2.886372e-01  2.196758e-01  1.366951e-01  8.570793e-02
##        112162         95018         78651         69708         78865
##  3.008356e-01  1.922080e-01  2.487871e-01  4.249655e-01  1.526322e-01
##         98563        113205         38685        104063         75366
## -8.000364e-01  1.422130e-01  2.889495e-01 -7.330299e-01 -7.057065e-01
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##  1.584131e-01  1.252083e-01 -6.600592e-01  1.213093e-01  1.251930e-01
##         55893        117611         31870         81039         41474
##  2.287098e-01  9.122518e-02 -5.723667e-01  8.956526e-02  1.082236e-01
##         39222         35350         48318         39268        112741
##  2.750494e-01  4.990575e-01  1.280898e-01  2.742895e-01  2.058611e-01
##         59289        122007         96372         14598         65819
## -7.045596e-01  2.214048e-01  4.090572e-01 -7.126228e-01 -4.054860e-01
##         79695        106250         38570         33607         48304
##  2.138281e-01 -6.573251e-01  2.201691e-01 -5.228845e-01  5.069731e-02
##         20104         19227        126984          3777         94613
##  1.000589e-01 -8.663555e-01 -4.812962e-01  1.466782e-01  1.488263e-01
##         75702         42903         12617         16800         80273
##  3.590847e-02  3.715748e-01  3.610072e-02 -4.902660e-01  1.287503e-01
##         27860         37859         65144        107608          1680
##  1.961857e-01  3.604500e-01 -7.186489e-01  2.148258e-01 -8.145176e-01
##        127935          7231         65966         55764         22023
##  1.557765e-01  7.258226e-02  2.195097e-01 -5.226116e-01  2.778926e-01
##         43214         11924         56750         83171        109524
## -7.189095e-01  2.794185e-01  2.537844e-01  2.496294e-01  2.548873e-01
##        110468         45121         38475         64374         26248
##  3.681817e-01 -6.651364e-01  3.835151e-01  8.175320e-02  2.541685e-01
##         36206        113193        100500         46515        113380
##  1.468525e-01 -6.511767e-01  2.660701e-01  3.097768e-01  2.054792e-01
##         85531         72383         64685         14905         17582
##  3.846657e-01  1.332025e-01  2.038912e-01  5.493351e-02  1.905466e-01
##         13149         26864         92468         82919          9317
##  2.119812e-01  3.756078e-01 -5.609130e-01 -8.596801e-01 -9.131404e-01
##         26441        101258        119520        128292         98917
##  1.369805e-01  5.176422e-02  2.631092e-01  3.298684e-01  1.231603e-01
##         89878         99519         79193         36179         34869
##  2.219897e-01  1.428256e-01  2.014135e-01 -7.020822e-01  3.785074e-01
##        120880          3945         25612         62555         96499
##  2.655624e-01 -9.263554e-01  1.977400e-01 -7.458076e-01  2.080465e-01
##         68907         44865        107885         65539         22135
## -6.160991e-01  1.486577e-01  4.158952e-01 -7.731604e-01  3.479148e-01
##         63814          7925        127120         48872         59892
##  1.239503e-01  1.513567e-01  2.390177e-01  4.516885e-02  3.887413e-01
##         47432        107597         49679        130572         11505
## -7.866131e-01  1.177401e-01  1.854288e-01  2.607007e-01 -7.115984e-01
##         64104        123942        102586         10559         54649
##  7.277556e-02  4.615860e-01  3.405211e-01 -8.247616e-01  2.477955e-01
##         99210        117791         69785         78677          2689
##  1.933278e-01  4.641073e-02  2.742366e-01  1.536534e-01 -7.087881e-01
##         62956         93611        105004         61827         93612
##  2.691821e-01  2.139702e-01  1.073038e-01  1.626406e-01  1.900423e-01
##         49949        106706         23244         95078         12488
##  1.533673e-01  2.714413e-01  2.262215e-01  4.052222e-01  5.206800e-02
##         97480         69308          1194        117305         22230
##  2.638938e-01  2.737720e-01  2.814732e-01  1.985442e-01  3.889692e-01
##        105510         61030           646         80191         90750
##  4.287734e-02 -6.429352e-01  1.283866e-01  5.085147e-01  9.982836e-02
##         72330          6322        121358         75067        104859
##  2.209547e-01  7.063974e-03  1.333212e-01  3.098117e-02  2.623052e-01
##        105910        114469         61677         98245         93588
## -7.141633e-01  3.415742e-01  2.195443e-01  4.647518e-01  1.856201e-01
##        101308         54083         98715        100759         86953
## -6.341148e-01  2.207253e-01 -6.410449e-01  1.344554e-01  2.149652e-01
##         25451         39733         47439        125939         26789
##  2.242083e-01  2.415083e-01  2.362544e-01 -7.720950e-01 -6.687868e-01
##         16045         87267         85045        105502         49563
## -7.408340e-01  2.260918e-01  1.862187e-01  1.974697e-01  7.503875e-02
##         61074          8440         64892         74319         57831
## -6.874339e-01  3.081151e-01 -6.142946e-01  3.472735e-01  2.107412e-01
##         71564         45636         89683         52351         62019
##  4.141534e-01 -5.121989e-01  3.224304e-01 -6.305114e-01  5.371430e-02
##        119726         67787         55909         66239         48956
##  1.109305e-01  1.597670e-01  2.599694e-01 -6.671535e-01  3.608094e-01
##         52861         27165         64090        102990        103996
##  6.120480e-01  2.461366e-01 -5.543353e-01  2.105018e-01  2.071260e-01
##         69887         47301         69230         43126         33570
##  1.415985e-01  3.922835e-01  1.266117e-01  1.682639e-01 -3.975318e-01
##         28919         56683         25635        102788         42153
##  4.065297e-01  2.125138e-01 -6.891149e-01  1.368977e-01  1.992652e-01
##         65758        127024         73627         23833         98196
##  1.453203e-01 -7.172434e-01 -8.350964e-01 -4.575415e-01  1.669389e-01
##         65693         79629         87435         26406         44833
##  1.598909e-01  2.016726e-01 -6.049641e-01  2.252937e-01  2.050181e-01
##         51192         69914          9113         12498         42604
## -8.409184e-01  3.356818e-01 -7.360929e-01 -9.999718e-01  1.785863e-01
##         98375        127598         55948        106752        103776
##  7.762892e-02  1.646869e-01 -7.932000e-01  2.570018e-01  2.894347e-01
##         84445        113137         18808         80573         80964
##  1.120596e-01  3.725050e-01  2.043277e-01  2.221976e-01  2.881084e-01
##        114299         84673         69849         30346        110406
##  6.449042e-02  2.677850e-01  1.519476e-01  1.191670e-01 -8.655267e-01
##        115270         70810         87713         11923         47367
##  2.540829e-01  2.234818e-01  1.091032e-01 -6.334770e-01  2.554009e-01
##         18815         65997         40266         11065         97605
## -6.885661e-01  2.502601e-02  3.056398e-01  4.515746e-02  5.986626e-02
##        116089        119379         58213         90153         11863
##  2.239814e-01  1.482097e-01 -8.957683e-01  2.643323e-01  2.303878e-01
##         38480         13376          6296          3621         83905
##  2.305220e-01  2.216557e-01  6.315382e-02  1.275158e-01  2.302481e-01
##         13679         70158        106881         17986        127768
##  1.945452e-01 -5.727461e-01  3.487836e-01 -7.278847e-01  6.456431e-02
##        116420         29491         16722         57778        120906
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##         58441         38727        106943         65658         49559
##  7.516404e-03  1.484057e-01  2.043101e-01 -6.922932e-01  1.335570e-01
##        127459         56222         68645        115735        128594
##  3.058440e-01  2.722665e-01  2.710960e-01  2.241611e-01  1.788490e-01
##         21526         71520         85892         92135        107818
##  1.058604e-01  1.057990e-01  2.088408e-01 -8.066334e-01  2.877532e-02
##        124488         57213        123230        103866        111461
## -5.018643e-01  4.148191e-01  3.557247e-01  1.810409e-01 -8.659228e-01
##        108702         56067         69070         72808         97857
## -8.329344e-01 -5.703823e-01  4.388267e-01  1.103509e-01  2.078468e-01
##         20842         66851         62179         58179         39998
##  1.266875e-01  2.886266e-01  2.868868e-01  1.631658e-01  1.672773e-01
##        117751          1108         46886         34764         35439
##  3.455477e-01  1.742341e-02 -7.660430e-01 -5.769581e-01  1.328747e-01
##          2245        130344         65985         62170         41341
## -6.424632e-03  2.059900e-01 -5.950034e-01 -6.969582e-01  1.245905e-01
##        124792         58487         82879          6650         25556
## -6.170647e-01  1.461255e-01  4.548565e-01  3.757315e-01  4.467037e-01
##          3433          2171         56386         11431         30155
##  7.086133e-02  2.906960e-01  4.209629e-01  3.012989e-01  3.351912e-01
##          2783         73730         95928          8340         64657
##  2.159818e-01  1.499327e-01  1.307580e-01 -8.141737e-01  3.348202e-01
##         71580         92222         26635         15186          5266
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##         79857         43117         90394        122567        121674
##  2.233701e-01  2.496319e-01  2.397977e-01 -8.934154e-01  6.741082e-02
##          6168         15925         45823         17426         31906
## -2.412165e-02  2.398193e-01 -5.971065e-01 -6.420112e-01 -7.105177e-01
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##  2.126156e-01  4.930043e-02 -5.107412e-03 -5.669520e-01  2.290164e-01
##         93961        118629         20678         24527         19273
##  2.762319e-02 -7.154251e-01  1.939114e-01  3.337489e-01 -8.018112e-01
##        129030         74061         64727         65368         63181
##  2.231243e-01  1.160931e-01  1.395611e-01  5.315564e-01  1.275708e-01
##         43216         31174         75953         66548        113906
## -7.111941e-01  1.586438e-01  1.687528e-01  5.534437e-02 -9.181173e-01
##         20590         44445         36151         32647         49315
##  3.414289e-01 -8.798357e-01  2.169390e-01 -5.888239e-01 -9.470872e-01
##         48105         39610         63284        118868         63250
##  1.508215e-01  5.789297e-02  1.501580e-01  1.275921e-01 -8.453447e-01
##        120629         24826         87571        104239         33966
## -8.476285e-01 -7.119998e-01  4.076474e-02  2.895733e-01  2.299327e-01
##         80783         63317         28462        104864         79627
##  1.476552e-01  7.246057e-02  1.870483e-01  2.001530e-01  1.163214e-01
##         67979         81320         70607          2835         24301
##  6.171724e-02 -7.161116e-01  2.822435e-01  1.792049e-01  1.768647e-01
##        115911           102         99656         88342        108860
##  2.482327e-01  1.619530e-01  1.212997e-01  1.668205e-01  2.978680e-01
##         86270         55935          6723        119924        129715
## -1.036178e+00 -6.172126e-01  3.577878e-01 -7.803705e-01  2.440954e-01
##        120219         20874         63775         29265         74016
##  2.281455e-01  1.679444e-01  2.830641e-01  3.412807e-01 -6.260838e-01
##        118319         13927         79232         98013        112407
##  2.771117e-01  1.893724e-01  2.006226e-01 -5.954882e-01 -6.986506e-01
##        129979         75151         10079         42140         51389
## -6.810153e-01 -9.171456e-01 -6.583026e-03  1.858101e-01 -7.995292e-01
##         31858         13534        129029         48482         97084
##  2.210527e-01  6.333820e-02  2.119180e-01  1.758183e-01  2.161659e-01
##         35585          2206         96704         74766          8454
##  2.285705e-01  1.161002e-01 -8.560970e-01  1.410313e-01 -6.435923e-01
##         13353         60727        122471        122885         35770
##  3.761925e-01  3.923163e-01 -8.677635e-01  2.125998e-01  2.563098e-01
##          8174         36559         88516          7690         11287
##  4.603972e-02  1.360367e-01  1.267965e-01 -7.885042e-01  1.178148e-01
##         22007         57327        108110        125798         38450
## -7.012705e-01  1.102386e-01  4.888971e-01 -6.278463e-01 -8.520185e-01
##         46195         10452        120060         88394         62071
##  3.030935e-01 -8.548734e-01  1.646436e-01 -6.055776e-01  3.793327e-01
##         87541        105388         88269         47908         63341
##  1.544463e-01 -5.314573e-01 -8.115345e-01 -6.147538e-01  2.046179e-01
##         18376         42191         73678        120261         56640
##  1.013244e-01  3.034919e-01  1.159538e-01  1.301459e-01  2.660338e-01
##         40342        120837         35111         53879         48323
##  2.440624e-01 -8.084907e-01  1.170195e-01 -7.097380e-01  3.155885e-01
##         46465          8461        129466         42608         36030
##  1.195664e-01  2.445944e-01 -5.457051e-01 -5.979652e-01  2.805824e-02
##         29629          4506        111173          4356         94345
##  2.605974e-01  2.759577e-01 -7.984816e-01  5.396178e-02 -7.132363e-01
##         45290         12323         92192         30117         39283
##  2.215121e-01  1.184716e-01  4.383181e-01  1.397080e-01  1.751853e-01
##         94753         86967         82239         38782         93653
##  2.288077e-01  2.762704e-01  2.346493e-01  4.030390e-01  7.148523e-02
##        119598         75812         81204         66348         77420
##  1.730501e-01  2.840148e-01  5.313151e-02  2.113157e-01  1.018109e-01
##         17110         32042         86798         11593         86434
##  1.093479e-01 -8.924642e-01  1.148817e-01  2.011869e-01  1.984135e-01
##         22879        118655         50652         36632         88554
##  1.547633e-01  2.104042e-01  2.586306e-01  4.547142e-01  1.804715e-01
##         13872        110785         26364         26487         80686
## -1.730935e-02  1.135391e-01  2.285682e-01  2.682192e-01  1.417346e-01
##         50714         35017        113766         43596          2356
##  2.542533e-01  4.319317e-01 -7.755646e-01  4.756179e-02  3.049519e-01
##         46226         33125          7435         16764         95473
##  2.456188e-01  1.472289e-01 -7.882948e-01  2.273831e-01 -7.767400e-01
##         70120         45964         10088         63643         39478
##  2.175199e-01  2.751462e-01 -9.667976e-03 -7.106164e-01  2.578342e-01
##          5301         60321          3761         41575         83901
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## -6.000506e-01  1.982476e-01 -5.654847e-01  4.061975e-01  2.245287e-01
##         73036         14687         99954         83199         99611
##  2.983316e-01  2.289474e-01  2.938520e-01  2.019421e-01  1.569487e-01
##         83380         86291         25734         21688         31549
## -5.967951e-01  2.184916e-01 -7.325741e-01  4.750185e-02 -7.322157e-01
##        112820        112422         47631        128246          8719
##  3.569294e-01  4.245711e-01 -5.517334e-01  2.251846e-01  6.030432e-02
##         87020         54772         76233         51003         14775
##  2.847602e-01  7.811803e-02  2.583178e-01  2.359760e-01  2.135654e-01
##          6631         61058         37848         46442        123224
## -8.777796e-01  2.247451e-01  1.828825e-01  1.883969e-01  1.148308e-01
##         31064        117949        117700          2836        117840
##  2.934507e-01  2.794283e-01  1.446497e-01  2.401802e-01  1.935828e-01
##          4749         66120         21465        102982        106472
##  1.343878e-01  5.108919e-02  1.377262e-01  1.715788e-01  1.830955e-01
##         50817         55739         54881         34136         64214
##  1.245222e-01  2.618035e-01  1.263779e-01  5.899515e-01  1.881141e-01
##         96671        127659         83227         14149         77983
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##         32941         50037        130438         53372         33582
##  2.699599e-01  1.420938e-01 -7.425027e-01  1.127166e-01  1.205214e-01
##         72164         65552        101609           939         69029
## -7.383698e-01  2.800436e-01  2.787290e-01  2.511024e-01  2.794488e-01
##         24890        107667         89201         62668        124976
##  4.387481e-01  2.834699e-01 -8.135028e-01  2.692877e-01 -7.171209e-01
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##  1.196277e-01  1.190671e-01  1.412872e-01  1.282109e-01 -8.316716e-01
##         35675         76795         14355         99914         74949
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##         75967         68231         64961          5396         28792
## -7.897764e-01  1.990973e-01 -5.119698e-01  1.110144e-01  1.104752e-01
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##          9345         17490         49613         90804         10684
## -5.071128e-01  2.398850e-01  1.957881e-01  4.878211e-01  1.349967e-01
##         32531          2065         63234         84226        130496
##  2.646257e-01  1.370075e-01  1.032294e-01  1.463876e-01 -7.630588e-01
##        115684        109958         55537          1679         11054
## -6.225598e-01  4.359218e-01 -7.374939e-01  4.434585e-02  6.219511e-02
##         43920         85557         13731         85780         50957
## -8.551384e-01  2.230824e-01  2.817733e-01  1.746793e-01 -6.760106e-01
##         75621        108884         71565         94951          6766
##  1.304642e-01  2.851727e-01  1.840940e-01  2.765826e-01  1.192830e-01
##        130093          3611         64098         24103         72802
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##  1.755138e-01  5.952406e-01  1.332925e-01  1.299694e-01  2.162384e-01
##         43653        116916         65485         76017         90479
## -8.771803e-01  1.137359e-01 -6.517423e-01  2.467464e-01  2.244098e-01
##         32263         47943        101495         20806         33017
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##         32871         83640        111818         48313        128669
##  2.138102e-01  4.033470e-01  3.555558e-01 -7.517086e-01  1.595923e-01
##        123335         28813         64999        102417        107481
## -4.011980e-01  1.702103e-01  1.811297e-01  9.592597e-02  1.714315e-01
##        122350        109840         88421          1360         73951
##  1.877803e-01  2.527370e-01  2.874185e-01  2.010842e-01 -6.629284e-01
##        104381         26130         65124        113576         88169
## -6.715043e-01 -7.439170e-01 -4.770324e-01 -7.204073e-01 -5.680212e-01
##         32805          1752          6426          8187         64573
##  3.528752e-01 -3.631852e-03  1.065739e-01  1.045698e-01  5.027234e-01
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##  1.569582e-01 -9.483834e-01  1.112229e-01  2.645781e-01 -6.466776e-01
##         86838        114121         56644         73060         87080
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##         45215         41866         46191         28863         79643
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##         23658         17006        114136         14536         11699
##  1.220210e-01  1.909010e-01  2.609655e-01  2.079604e-01 -6.521665e-01
##         81711         50370         51616        107184         44926
##  3.766647e-01  1.880204e-01  3.685975e-01  9.802576e-02  1.382243e-01
##         79012         14828         91276         61112         34735
##  2.911507e-01  4.031662e-01  1.777444e-01  3.064591e-01 -7.041078e-01
##        102204         43994         74974         98170         57901
##  1.927002e-01 -8.598730e-01  2.999861e-01 -5.160259e-01  1.955258e-01
##        103556          4680         85401         95865         98627
##  3.873855e-01  1.813038e-01  2.901232e-01  1.737710e-01  2.594807e-01
##         98302         75791         54234         51989         29698
##  1.775029e-01 -7.377024e-01  1.437549e-01  1.925136e-01 -8.439298e-01
##        122086         35612         24150         60691         17695
##  3.902728e-01  2.535265e-01  7.153058e-02 -8.091158e-01  2.897698e-01
##         27524        107679          4314         96292         52750
##  1.807966e-01 -9.495068e-02  2.842215e-01  1.890260e-01  1.161153e-01
##         63445         62369         41524        130475         56246
## -8.061781e-01  2.112835e-01  1.172772e-01 -4.871659e-01  1.945332e-01
##          6500         48978        114701         95151         53685
## -3.147459e-02  3.344998e-01  9.761164e-02  1.464085e-01  1.212191e-01
##        128501        111498        124573         64498          8362
## -8.328896e-01 -5.373319e-01  6.040712e-02 -8.801598e-01  2.513417e-01
##         46245         40211        102706         62703         26767
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##         42853         21849        127574         64094         83530
##  2.938209e-01 -6.284825e-01 -4.600892e-01  4.276575e-01  1.998311e-01
##         86926        127886         53666        113063         93356
##  1.447062e-01  1.843119e-01  7.875335e-02  3.247500e-01  3.664904e-01
##         93824        125129          6906         22041         55340
##  3.887801e-01  9.048652e-02  7.947162e-02  2.255278e-01  2.064421e-01
##         57304        121518         88626         48747         83772
##  1.963319e-01  1.424138e-01  5.004259e-01  1.963483e-01 -5.558831e-01
##         63894        119403         48765         91249         42075
## -6.321251e-01 -6.476661e-01  2.113497e-01  2.043031e-01  1.350284e-01
##         63853         73878         62699         69435          6722
##  4.998987e-02  1.328390e-01  2.560374e-02 -6.387283e-01  2.848341e-01
##         90684        108800        114609         18802        111852
## -7.231720e-01 -7.717438e-01  1.256644e-01  1.297482e-01  3.493519e-01
##         18427         78451         24581        118516         28350
## -5.911050e-01  2.037229e-01  2.107448e-01  1.951759e-01  1.087594e-01
##         90451         22146         31721         21965          8886
## -4.620326e-01 -5.595925e-01  4.695096e-01 -5.375789e-01  1.196320e-01
##         19869           160         76245         43546        103999
##  2.317498e-01  3.237892e-01  2.168738e-01  8.794952e-02 -5.667104e-01
##         34430         75035         33448         62323        107965
##  2.517611e-01  1.389850e-01  4.303331e-01 -7.157091e-01  2.129988e-01
##         98935         57636         85547        126334         89251
##  1.112772e-01 -8.135151e-01  3.881386e-01  3.813012e-01  3.814064e-02
##         68117        122044        129425         17732         36781
##  1.532319e-01  1.945135e-01  2.795074e-01  1.971154e-01 -7.534549e-01
##        103832          9369         58000         11364         50576
##  6.555719e-02  2.970297e-01 -3.861669e-01  1.147335e-01 -7.579619e-01
##         96274         57608         71509         19788         91376
##  1.536030e-02  1.204589e-01  2.849933e-01  4.293139e-01  1.975490e-01
##         57808         37743         91919         53737         70199
## -8.279271e-01  2.043460e-01  1.029772e-01 -7.407281e-01 -6.015010e-01
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##        105172         18230        102311         48821         56283
##  1.590064e-01 -6.736208e-01  4.346069e-01 -7.173278e-01  1.182375e-01
##         12862         32257          5840         67837         67488
##  3.655847e-01  2.607730e-01  2.823765e-01  1.247327e-01  1.507819e-01
##         56880         36990         74266         26178         95236
## -4.835033e-01  3.247682e-01  1.248659e-01  1.745890e-01 -5.403136e-01
##        116390         40426          2716         49082         32081
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##         46005         97134          7449         81248        126727
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##        103815         72199         78748         89279         98200
##  4.177135e-01  3.348423e-01 -7.111284e-01  2.420710e-01 -4.034608e-01
##          6092         41389         64286         94253         92002
##  1.252557e-01  2.724758e-01 -8.914516e-01  4.880172e-01  2.520287e-01
##        127707         37480         66425        129953          2188
##  1.401636e-01 -7.088245e-01  1.891032e-01  5.660427e-01  2.083971e-01
##         73148         46701         25865         26623         25756
##  2.471434e-01  2.184643e-01 -7.603951e-01  2.111758e-01  1.871191e-01
##         68512         38522         52893         69143        120062
## -5.915765e-01  4.108561e-01 -6.882048e-01  1.942799e-01  1.804011e-01
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## -6.747532e-01  1.916151e-01  4.179288e-02 -6.720142e-01  1.607866e-01
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##         54595         52562         26664         12851         20572
## -7.250535e-01 -7.323197e-01 -7.180042e-01  1.216690e-01  3.673660e-01
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##  8.555265e-02  7.565596e-02  3.856082e-01 -6.617159e-01  3.388290e-01
##         65061        121976         51826        120795        130126
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##         40903        130066        106568         78116        130068
##  1.208561e-01  2.861405e-01  2.607032e-01 -6.750970e-01  1.659634e-01
##         34397         34437         83311        124141         56522
##  2.236506e-01  2.877056e-01  3.043343e-01  2.633226e-01  2.325685e-01
##          5466         55849         85758          3973         97798
##  1.698908e-01 -8.926593e-01  1.207585e-01  2.072493e-01  2.752779e-01
##        115334        109147         69740         80728         68750
##  2.704282e-01  2.579370e-01  1.376314e-01  1.106545e-01  4.640612e-01
##          3103         27948         43439        120550         13598
## -7.930833e-01  2.653600e-01  2.368084e-02  1.983046e-01 -9.013976e-01
##         17927         94698        120163        115188        119009
##  2.530754e-01  2.178877e-01  1.156043e-01  2.984269e-01  1.389261e-01
##         21934        128103         24346         61683         77860
##  3.830372e-01  1.899917e-01  2.207698e-01 -7.659137e-01  3.135215e-01
##         85022        121655         54150         60859          5851
##  9.796652e-02  1.456833e-01  1.113493e-01  3.008860e-01  2.017322e-01
##         92013        122519         79479         70987         65907
##  2.137065e-01  2.571959e-01  2.273019e-01  2.678742e-01 -8.719677e-01
##         26918          8617         90528         84045         49479
##  2.533228e-01 -9.369658e-01  1.209177e-01  1.934391e-01  1.419002e-01
```

```
##        117692         64320         46240        121475          9775
##  4.256269e-02 -2.992957e-01  5.248079e-01  1.184776e-01  3.494322e-01
##         52285         35572         56371         15085         31498
## -8.680916e-01  3.509078e-02 -7.374271e-01  3.291712e-02 -8.137332e-01
##          8849        120689         63268         40612        122154
## -2.184307e-02  1.231040e-01  1.239673e-01  2.087670e-01  9.497140e-02
##         40395         66833        118250        125187         12103
##  3.479894e-01  3.106471e-01  3.582936e-01  1.434137e-01  1.550848e-01
##         86049         27521         89838         98714         26627
##  2.605874e-01  1.281030e-01  3.819351e-01  1.481207e-01  9.972718e-02
##        127117         52108         25534        128762         51449
##  2.781230e-01  1.257293e-01  1.390740e-01  2.617108e-01  2.845559e-01
##          1284         55780         97550         34810         64440
## -9.200944e-03  4.308061e-01  2.745021e-01 -7.749734e-01 -8.015003e-01
##         50715         39319         76816        105844         12744
##  1.166528e-01  2.180693e-01  2.753124e-01  2.350736e-01 -8.636750e-01
##         93717         98295         11956         33154         47915
##  1.997033e-01  1.257612e-01  1.413607e-01  2.597718e-01  2.751868e-01
##         29916         29099         13394         11967        114376
##  1.966250e-01  3.988369e-01  2.356329e-01  1.281509e-01  1.008033e-01
##         47198           165         76493         92999        120573
## -6.026131e-01  3.087433e-01 -7.171042e-01  5.472677e-02  1.115072e-01
##         53912         93231         13159        125030         32294
## -5.832785e-01  2.238592e-01  2.895274e-01  8.718041e-02  1.930148e-01
##         43946        114050         72939         57622         77071
##  1.274372e-01  1.420002e-01  1.233386e-01  2.901568e-01  2.654118e-01
##        121830         90853         82730         43492         33060
##  1.362676e-01  2.080420e-01  3.879312e-02  1.145798e-01  1.597871e-01
##        128530        125579         42090         54245         82379
##  2.142767e-01  1.560768e-01  2.863776e-01  1.194039e-01  4.550817e-01
##           859         99882        102398         10035         42285
##  2.631617e-01  3.086970e-01  2.444744e-01  9.150469e-04  1.450959e-01
##         15861        115999        124647         16360         79415
##  3.317066e-01  1.782775e-01  1.479139e-01  1.780315e-01  5.376299e-02
##         81615         69472         59956        119506         38694
##  3.040754e-01  2.966979e-02 -6.800109e-01  9.151931e-02  3.326487e-01
##         53546         80855         84610         44936        103825
##  1.109959e-01  1.388174e-01  3.275967e-01  1.315869e-01  2.168071e-01
##         58691         89877         19105         23273        116322
##  1.522708e-01  2.154198e-01  1.812729e-01  1.200252e-01 -9.527410e-01
##         92194         36237         76713           403         69127
## -8.322223e-01  1.252623e-01  2.916585e-01  2.644016e-01  3.825370e-01
##         38788         91516         83998        116333        120884
## -8.159350e-01  2.009075e-01  4.635731e-02 -7.958267e-01  2.891168e-01
##          7467         40879         25955          9276         59255
##  2.230865e-01  1.323854e-01  1.951556e-01  1.574821e-01  1.600151e-01
##         65488         60524         15620        107531         49648
##  3.123859e-01  1.054383e-01  2.382872e-01  2.629544e-01 -7.437231e-01
##         46830         91100         59706        111331         68690
##  1.697064e-01  3.074199e-01  2.949075e-01  2.023157e-01  4.066552e-01
##        120879          2363         36455        123280         64637
##  5.280641e-01  3.794298e-02 -5.212656e-01  1.538521e-01  2.537262e-01
##        104598         74400         99308          4068         17420
##  8.571914e-02  2.806957e-01  1.818635e-01  2.433206e-01  1.247303e-01
##         52922         29037         34209         63904         22858
##  1.373553e-01 -6.902971e-01  2.811921e-01 -5.780353e-01  4.818521e-01
##         36685         14296        128484         71151         77217
## -7.580677e-01  2.140454e-01 -7.289553e-01  1.170863e-01  2.957264e-01
##         14023         98402         32548         82495         27938
##  4.533968e-02  6.448145e-02  2.093581e-01  3.502825e-01  8.307370e-02
##         61955         19100         17916         64805         74303
##  1.732900e-01  3.641389e-01  1.230984e-01  4.196238e-01  3.453059e-01
##        123113        117393        112981         31014         34504
##  3.395147e-01  1.156675e-01 -4.291367e-01 -8.722989e-01  3.156090e-02
##        124247         17444         63680          9591        122802
##  2.027294e-01  2.059051e-01  3.037661e-01  8.183414e-02  1.732093e-01
##         29712         78882         69363         85422         51038
##  2.637037e-01 -4.874833e-01  3.726659e-01  1.764380e-01  2.293527e-01
##         82742         40533         91098         26825         83585
##  3.952901e-02  9.333840e-02  1.504481e-01  5.352238e-02 -7.108956e-01
##         81216         29269         15474          5463         79135
##  6.881381e-02 -8.129052e-01  3.813243e-01 -7.153653e-01  3.114938e-01
##         72739         54230         70279         49192        102863
##  3.013291e-01  2.971225e-01 -8.733771e-01 -8.206141e-01 -6.850459e-01
##         21687         92112         17610         41226         71817
##  2.461406e-01  1.430413e-01  1.206552e-01  2.071023e-01  3.619770e-01
##         83395        115331         38062         67372         92683
##  1.950343e-01  1.866625e-01  1.781955e-01  5.006788e-02 -6.180936e-01
##        125185         89018        121755          5171        121043
##  2.129106e-01 -5.001486e-01 -4.793093e-01 -6.392688e-01  1.948054e-01
##         58143          4081         30897        119167         23067
##  8.293913e-02  1.965900e-01  1.981508e-01  2.340603e-01  1.984812e-01
##         28015         77891         23026         19683         26855
## -8.176788e-01  3.819125e-01  3.088323e-01 -6.547679e-01  1.930314e-01
##         69664          3628         65809         54775         68132
## -6.959824e-01  2.601366e-02  4.796792e-02 -7.230067e-01  1.052755e-01
##         90788         91045         19024         87044         80408
## -5.057737e-01  1.211909e-01  4.098378e-02  1.887254e-01  2.090985e-01
##         37937        130531          1293         79407         91828
##  2.410832e-01 -6.683161e-01  1.990429e-01  2.880649e-01 -5.738634e-01
##         50096         88166         46956        106162         96430
##  1.248609e-01 -6.201364e-01 -3.877572e-01  2.137282e-01  2.926905e-01
##         86203         68410         37728         99339         87486
##  1.894486e-01  1.738889e-01  2.047489e-01  1.089680e-01  1.169157e-01
##         20714        117293         30503         28127         39299
##  9.661615e-02  2.510236e-02  1.559719e-01  1.407808e-01  4.401513e-01
##         98268         32559         36279         70385         17724
##  1.253189e-01  1.936532e-01  4.172186e-01  1.316917e-01  9.640159e-02
```

```
##         57839         86819         74635        123641         20223
##  6.779398e-02  1.138305e-01  1.925207e-01  4.803263e-01  5.136218e-01
##         93137        128752         46140         87303        118821
## -5.442650e-01  2.105024e-01  1.909097e-01  2.231267e-01  2.042529e-01
##          7982        129403         45711         75425          8039
## -8.798358e-01  4.476028e-01  1.120520e-01  4.738089e-01  3.726041e-01
##        118607         17471        126396         91784         69928
##  2.183477e-01  1.282245e-01  9.514461e-02  3.537859e-01 -7.828311e-01
##         36753         88862        107747         64861         25374
##  2.560468e-01  2.256830e-01  4.449108e-01  3.231885e-01  1.108756e-01
##        130673         11489         67067        124808         59889
##  1.762092e-01  6.225927e-02  1.646976e-01  2.229404e-01  2.707811e-01
##          1868          7205         48326         41652         26759
##  1.331504e-01  2.145749e-01  4.140675e-02  6.446066e-02  1.480540e-01
##         12702         90846         12088         51091         28511
##  1.750130e-01  2.029749e-01  3.814523e-01  1.786649e-01  1.952086e-01
##        118681         44733         85670        113483         91630
##  1.183179e-01 -9.628941e-01 -7.366530e-01 -8.250770e-01  2.964528e-01
##         92114         18794         93885         71343         48684
##  1.709084e-01  4.434364e-01  2.354465e-02  1.285403e-01  1.684767e-01
##        119592         70866         35597         12785         96892
##  8.773529e-02  1.549314e-01  1.749495e-01 -3.275043e-02 -6.552756e-01
##         50491         18280        125612        117457         22516
##  1.780768e-01  1.889495e-01  3.166063e-01  1.446606e-01  2.943442e-01
##        111705         78871         78635          7173         80261
##  6.109563e-01  8.024408e-02  2.424362e-01  5.818407e-02  1.480251e-01
##         70742          1906         16509        105380         28266
##  2.669411e-01  2.324151e-01  9.820838e-02  1.106202e-01  2.018784e-01
##        124555         93297        113751         41330         17565
##  2.439278e-01  3.928438e-01 -7.619019e-01  1.293233e-01 -6.354365e-01
##          5124        103667         98651         74072         68473
##  1.783752e-01  2.241276e-01 -5.480863e-01  2.862139e-01  1.322618e-01
##          5174         46277         75816         19204        121018
##  5.882879e-02  2.316454e-01  2.584525e-01 -7.775214e-01  1.396517e-01
##           751        109497          6154         78672        120155
##  6.429622e-02  2.030188e-01  3.597118e-02  2.855709e-01  2.121892e-01
##         61946         99122        128354          4082         11107
## -5.173791e-01  2.049222e-01  2.065219e-01 -8.687517e-01  2.171655e-01
##        116330         26186        113663         48284         30281
##  5.418167e-02  1.351449e-01  2.915876e-01  2.664027e-01  3.289016e-01
##        112388        127200         98291         25403         84343
##  2.101806e-01  5.319170e-01 -4.962141e-01  1.168838e-01  1.289959e-01
##        122124        114228         48763         78187          4408
##  1.374573e-01  5.788780e-02 -7.049860e-01  4.940029e-02  1.160390e-01
##         10562        114765         19732         69832         11254
##  4.676553e-01  2.263799e-01 -4.965808e-01 -7.093004e-01  1.157328e-01
##         69716        103603         47589         77388        108230
## -7.309025e-01 -7.974445e-01  2.197545e-01  3.087896e-01  1.797275e-01
##         47335        106879         58390         12964         78604
## -7.241735e-01  2.157155e-01  1.201771e-01  1.464486e-01 -7.293173e-01
##        104505         74980         21046         44274         82540
##  1.518413e-01  3.039830e-01  2.175466e-01  1.534493e-01  1.886295e-01
##        117966        113723         43824         64352         76163
##  1.403316e-01  1.165981e-01  1.383920e-01  1.341156e-01  4.778275e-02
##         62385        122246         66512         29328         10225
## -3.902536e-01  5.096291e-01 -6.358567e-01 -6.225339e-01  8.715846e-02
##        113736         22241         27744          3513        102764
##  2.160976e-01  1.467410e-01  2.786646e-01  1.436503e-01  1.175670e-01
##         12791          3936         72226         59976         59975
##  2.395506e-01  1.705606e-01 -6.553309e-01 -7.110073e-01 -4.587324e-01
##         17567        124764         90011         31096         14344
##  1.024766e-01  1.011054e-01  1.749452e-01 -7.974794e-01  1.813016e-01
##         31233         39310         48118        101200         19851
##  1.916269e-01  2.503056e-01  1.881989e-01 -8.059465e-01  2.346847e-01
##         66106         31214        128800        127150         38296
##  8.184107e-02  1.446500e-01  1.924539e-01  2.445379e-01  2.468879e-01
##        109083         52795         22856         61722         90758
##  1.347955e-01  1.422753e-01 -7.559344e-01  1.415792e-01  2.531118e-01
##         37464         38283        125564          3827         67798
##  2.338322e-01  2.194878e-01  2.492238e-01  1.185882e-01  3.971044e-02
##         80309         37096         52729         26500        124308
##  1.345001e-01  3.480614e-01  1.361574e-01  1.113038e-01  2.994450e-01
##         98828        100077         65486         24905         98293
##  2.315252e-01  4.224988e-02  6.669589e-02  2.302761e-01  1.951913e-01
##        114550         51434         77898         15060         79215
##  1.886327e-01 -5.712086e-01  6.670589e-02  3.965099e-02  2.695831e-01
```

```
#Anova Table
anova(fit)
```

```
## Analysis of Variance Table
##
## Response: loan_status
##                  Df Sum Sq Mean Sq  F value    Pr(>F)
## loan_amnt         1   3.35   3.348  20.9009 4.954e-06 ***
## installment       1   0.07   0.066   0.4091 0.5224391
## int_rate          1  55.16  55.165 344.3666 < 2.2e-16 ***
## issue_d           1   5.06   5.056  31.5641 2.034e-08 ***
## grade             1   2.75   2.751  17.1716 3.472e-05 ***
## purpose           1   0.16   0.164   1.0247 0.3114535
## dti               1   1.11   1.108   6.9170 0.0085643 **
## emp_length        1   0.02   0.022   0.1358 0.7125442
## home_ownership    1   6.31   6.307  39.3711 3.801e-10 ***
## annual_inc        1   0.85   0.845   5.2777 0.0216416 *
## term              1   2.40   2.395  14.9521 0.0001117 ***
## Residuals      4988 799.04   0.160
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
#Anova fit tells me that installment, purpose, emp_length are non-significant


#dont worry for next two lines
vcov(fit)
```

```
##                  (Intercept)     loan_amnt   installment      int_rate
## (Intercept)     3.105367e+02  5.617765e-06 -1.947885e-04  1.932049e-02
## loan_amnt       5.617765e-06  2.819005e-11 -8.594288e-10  6.923353e-09
## installment    -1.947885e-04 -8.594288e-10  2.675587e-08 -2.195882e-07
## int_rate        1.932049e-02  6.923353e-09 -2.195882e-07  1.965547e-05
## issue_d        -1.543287e-01 -2.909562e-09  1.003698e-07 -9.908890e-06
## grade           6.485511e-02  5.985359e-10 -2.437434e-08  6.794738e-05
## purpose         6.554416e-03 -2.274192e-09  1.234271e-07 -2.265284e-06
## dti            -8.702431e-04 -1.161184e-10  2.790579e-09 -4.966651e-08
## emp_length      1.045310e-04  3.073517e-11 -1.248483e-09  1.974763e-07
## home_ownership  6.081767e-03 -1.017756e-09  5.997305e-09 -3.481478e-09
## annual_inc      3.805759e-08 -4.060106e-14  2.670029e-13  1.000418e-11
## term            3.948606e-02  1.730986e-07 -5.276180e-06  4.793172e-05
##                     issue_d         grade       purpose           dti
## (Intercept)    -1.543287e-01  6.485511e-02  6.554416e-03 -8.702431e-04
## loan_amnt      -2.909562e-09  5.985359e-10 -2.274192e-09 -1.161184e-10
## installment     1.003698e-07 -2.437434e-08  1.234271e-07  2.790579e-09
## int_rate       -9.908890e-06  6.794738e-05 -2.265284e-06 -4.966651e-08
## issue_d         7.670278e-05 -3.335628e-05 -3.262676e-06  4.245763e-07
## grade          -3.335628e-05  2.839020e-04  2.694234e-06  8.351715e-07
## purpose        -3.262676e-06  2.694234e-06  1.948307e-04  1.031418e-06
## dti             4.245763e-07  8.351715e-07  1.031418e-06  5.750672e-07
## emp_length     -6.074454e-08  5.453940e-07  3.290261e-07 -8.626061e-08
## home_ownership -3.025757e-06 -6.278699e-06 -1.264953e-05 -3.687859e-07
## annual_inc     -1.932003e-11  1.580901e-11 -1.590999e-10  2.064896e-11
## term           -2.043119e-05 -9.481577e-06 -3.427021e-05 -1.648816e-06
##                   emp_length home_ownership    annual_inc          term
## (Intercept)     1.045310e-04   6.081767e-03  3.805759e-08  3.948606e-02
## loan_amnt       3.073517e-11  -1.017756e-09 -4.060106e-14  1.730986e-07
## installment    -1.248483e-09   5.997305e-09  2.670029e-13 -5.276180e-06
## int_rate        1.974763e-07  -3.481478e-09  1.000418e-11  4.793172e-05
## issue_d        -6.074454e-08  -3.025757e-06 -1.932003e-11 -2.043119e-05
## grade           5.453940e-07  -6.278699e-06  1.580901e-11 -9.481577e-06
## purpose         3.290261e-07  -1.264953e-05 -1.590999e-10 -3.427021e-05
## dti            -8.626061e-08  -3.687859e-07  2.064896e-11 -1.648816e-06
## emp_length      2.575568e-06  -3.537462e-06 -7.967616e-12  9.673203e-07
## home_ownership -3.537462e-06   1.483082e-04 -8.170062e-11  1.153013e-05
## annual_inc     -7.967616e-12  -8.170062e-11  1.196102e-14 -1.459019e-10
## term            9.673203e-07   1.153013e-05 -1.459019e-10  1.289010e-03
```

```
cov2cor(vcov(fit))
```

```
##                 (Intercept)    loan_amnt  installment      int_rate
## (Intercept)     1.000000000  0.060042561 -0.067576756  2.472977e-01
## loan_amnt       0.060042561  1.000000000 -0.989583663  2.941215e-01
## installment    -0.067576756 -0.989583663  1.000000000 -3.028013e-01
## int_rate        0.247297650  0.294121528 -0.302801262  1.000000e+00
## issue_d        -0.999964520 -0.062571155  0.070062883 -2.551983e-01
## grade           0.218425588  0.006690493 -0.008843805  9.095923e-01
## purpose         0.026647030 -0.030686720  0.054059525 -3.660599e-02
## dti            -0.065121567 -0.028839899  0.022497046 -1.477279e-02
## emp_length      0.003696172  0.003607042 -0.004755943  2.775472e-02
## home_ownership  0.028339409 -0.015740300  0.003010676 -6.448212e-05
## annual_inc      0.019746985 -0.069920647  0.014925280  2.063268e-02
## term            0.062410727  0.908066163 -0.898425388  3.011294e-01
##                     issue_d        grade     purpose         dti   emp_length
## (Intercept)    -0.999964520  0.218425588  0.02664703 -0.06512157  0.003696172
## loan_amnt      -0.062571155  0.006690493 -0.03068672 -0.02883990  0.003607042
## installment     0.070062883 -0.008843805  0.05405952  0.02249705 -0.004755943
## int_rate       -0.255198250  0.909592302 -0.03660599 -0.01477279  0.027754719
## issue_d         1.000000000 -0.226041301 -0.02668945  0.06392797 -0.004321805
## grade          -0.226041301  1.000000000  0.01145572  0.06536303  0.020169244
## purpose        -0.026689451  0.011455722  1.00000000  0.09744208  0.014688084
## dti             0.063927970  0.065363032  0.09744208  1.00000000 -0.070878864
## emp_length     -0.004321805  0.020169244  0.01468808 -0.07087886  1.000000000
## home_ownership -0.028369122 -0.030598697 -0.07441548 -0.03993305 -0.180997574
## annual_inc     -0.020170574  0.008578993 -0.10422146  0.24897451 -0.045394978
## term           -0.064977059 -0.015673584 -0.06838486 -0.06055986  0.016788261
##                home_ownership   annual_inc        term
## (Intercept)      2.833941e-02  0.019746985  0.06241073
## loan_amnt       -1.574030e-02 -0.069920647  0.90806616
## installment      3.010676e-03  0.014925280 -0.89842539
## int_rate        -6.448212e-05  0.020632678  0.30112943
## issue_d         -2.836912e-02 -0.020170574 -0.06497706
## grade           -3.059870e-02  0.008578993 -0.01567358
## purpose         -7.441548e-02 -0.104221462 -0.06838486
## dti             -3.993305e-02  0.248974510 -0.06055986
## emp_length      -1.809976e-01 -0.045394978  0.01678826
## home_ownership   1.000000e+00 -0.061342111  0.02637082
## annual_inc      -6.134211e-02  1.000000000 -0.03715770
## term             2.637082e-02 -0.037157698  1.00000000
```

```
#acting as outliers for your dataset
temp <- influence.measures(fit)
```

```
temp
```

```
## Influence measures of
##       lm(formula = loan_status ~ loan_amnt + installment + int_rate +      issue_d + grade + purpose + dti + emp_length + home_ownership +      annua
##
##           dfb.1_  dfb.ln_m  dfb.inst  dfb.int_  dfb.iss_  dfb.grad  dfb.prps
## 48574  -1.90e-02 -1.59e-02  1.57e-02 -5.21e-02  1.93e-02 -3.60e-02 -3.43e-02
## 6994   -5.92e-03 -5.88e-04  6.44e-04 -2.76e-03  5.93e-03 -2.24e-03 -1.21e-03
## 42099  -1.11e-03 -2.94e-03  5.70e-03 -9.19e-03  1.18e-03 -8.50e-03 -1.75e-03
## 54113   2.22e-03  2.79e-03 -3.40e-03 -1.07e-03 -2.19e-03 -2.88e-03  1.07e-02
## 6260   -2.09e-02 -1.17e-03  1.66e-03 -1.20e-02  2.10e-02 -1.26e-02 -4.45e-03
## 85568   1.54e-04 -1.48e-03  1.27e-03 -1.38e-03 -1.45e-04 -5.05e-04  2.28e-03
## 49547   9.70e-04  4.47e-03 -5.25e-03 -8.82e-03 -8.90e-04 -1.38e-02  1.57e-02
## 65527  -1.73e-03  1.75e-02 -1.93e-02 -1.87e-02  1.93e-03 -3.73e-02 -1.27e-02
## 28899   2.46e-03 -1.65e-03  1.17e-03  7.08e-03 -2.52e-03  9.69e-03 -2.10e-03
## 13842  -1.05e-02 -8.04e-04  4.16e-04 -2.33e-03  1.05e-02 -1.96e-03 -3.13e-03
## 95856   1.97e-03  1.63e-04 -4.21e-04  3.70e-03 -1.99e-03  3.84e-03 -2.92e-03
## 130255  1.39e-02  3.61e-03 -4.44e-03  1.95e-03 -1.39e-02 -7.43e-04 -5.56e-03
## 20295   1.70e-03 -1.11e-03  1.79e-03 -7.71e-05 -1.69e-03 -3.07e-03 -5.51e-03
## 42141   5.79e-03  1.12e-02 -1.25e-02  1.42e-02 -5.87e-03  6.03e-03 -8.63e-03
## 52174   2.05e-03  9.39e-05 -2.81e-04  3.57e-03 -2.07e-03  3.43e-03 -2.98e-03
## 28016   4.37e-04  4.80e-04 -4.54e-04 -6.79e-03 -3.88e-04 -7.27e-03  1.44e-02
## 38381   7.02e-04 -1.35e-04  6.25e-04  5.94e-04 -7.19e-04  1.95e-03 -1.72e-03
## 4510    4.75e-05  5.47e-06 -6.08e-06  1.57e-05 -4.75e-05  6.42e-06  7.16e-06
## 3918   -1.33e-02  2.50e-03 -3.17e-03  2.49e-03  1.33e-02  1.32e-03 -3.98e-03
## 37144  -9.42e-03 -2.80e-02  3.15e-02 -2.83e-02  9.62e-03 -1.32e-02  1.41e-02
## 128281  1.13e-02 -8.36e-04  3.44e-03 -1.10e-02 -1.12e-02 -1.13e-02 -2.07e-03
## 72615   1.04e-02  4.12e-02 -4.42e-02  1.80e-02 -1.05e-02 -8.35e-03  1.48e-02
## 111612  2.11e-03  2.62e-03 -3.14e-03  9.17e-04 -2.10e-03 -1.50e-03 -5.22e-03
## 27025   2.06e-03 -1.01e-03  8.42e-04  4.64e-03 -2.09e-03  6.34e-03 -2.20e-03
## 63117   2.78e-03  2.25e-03 -2.54e-03  2.78e-03 -2.78e-03  2.41e-04 -5.37e-03
## 30488   5.02e-03 -1.88e-03  3.01e-03  7.21e-03 -5.07e-03  4.45e-03  1.91e-02
## 27327   3.10e-03  1.17e-02 -1.14e-02  4.11e-03 -3.12e-03  2.25e-03 -4.24e-03
## 57130  -2.01e-04 -1.72e-03  1.16e-03 -5.42e-03  2.50e-04 -4.93e-03 -2.96e-03
## 112929  2.22e-03 -6.39e-06 -6.72e-04  7.71e-03 -2.30e-03  1.00e-02 -2.58e-03
## 123033  7.37e-04 -2.64e-03  3.93e-03 -2.04e-03 -7.20e-04 -1.68e-03 -3.19e-03
## 65263   1.51e-03  2.11e-03 -3.29e-03 -4.27e-04 -1.50e-03 -2.52e-03 -5.48e-03
## 606    -1.42e-02 -8.62e-04  1.86e-03  1.20e-04  1.42e-02  1.85e-03 -1.78e-03
## 53160  -5.46e-04 -2.67e-03  4.99e-03 -7.67e-03  6.10e-04 -7.30e-03 -2.39e-03
## 42987   3.39e-03  6.53e-03 -7.82e-03  5.58e-03 -3.44e-03  4.03e-03  2.05e-02
## 43524   9.28e-04  1.94e-02 -1.90e-02  1.79e-03 -9.47e-04 -2.86e-03 -1.79e-03
## 109956  8.78e-04 -7.30e-04  4.90e-04  5.97e-04 -8.88e-04  1.20e-03 -2.60e-03
## 50446   6.24e-04  1.90e-04  1.46e-06  1.31e-03 -6.39e-04  2.13e-03 -7.92e-04
## 56958  -4.36e-04 -1.53e-04  5.46e-04 -4.14e-03  4.59e-04 -2.97e-03 -1.78e-03
## 122818 -1.79e-03 -1.60e-02  1.54e-02 -1.86e-02  1.97e-03 -1.12e-02 -3.40e-03
## 62942   5.01e-03  1.39e-04  9.57e-04  4.07e-02 -5.34e-03  4.40e-02  1.63e-02
## 207    -9.66e-03 -3.91e-04  2.13e-04 -3.75e-03  9.68e-03 -4.40e-03  4.96e-03
## 118813  1.71e-03 -3.42e-04  1.36e-03  3.81e-03 -1.75e-03  4.89e-03 -1.74e-03
## 13692  -2.11e-02  7.39e-03 -8.05e-03  4.63e-03  2.11e-02 -5.23e-03 -1.08e-02
## 41820   2.51e-03 -7.13e-04  2.33e-04  2.35e-03 -2.53e-03  4.13e-03  1.36e-02
## 100701  1.71e-03  7.94e-03 -7.61e-03  1.74e-02 -1.90e-03  2.27e-02  5.65e-03
## 12085  -1.39e-02  2.21e-02 -2.00e-02  8.32e-03  1.38e-02  3.82e-03  1.20e-02
## 49436   1.68e-03  2.68e-04  4.98e-04  2.32e-03 -1.69e-03  2.22e-03 -3.66e-03
## 103012  6.41e-04  3.36e-03 -4.66e-03 -2.03e-03 -6.27e-04 -3.69e-03 -5.10e-03
## 98189  -4.83e-04 -4.18e-02  3.90e-02  3.34e-02  2.19e-04  3.91e-02 -5.35e-02
## 85147   6.72e-04 -6.54e-04  2.78e-04 -1.54e-03 -6.54e-04 -1.14e-03 -2.83e-03
## 27801  -8.68e-03  1.75e-02 -1.66e-02 -1.63e-02  8.74e-03 -1.09e-02  9.85e-03
## 283     2.91e-03  7.68e-05 -1.77e-04  7.46e-04 -2.91e-03  3.43e-04  6.21e-04
## 98878   1.81e-03  6.52e-05 -3.96e-04  4.95e-03 -1.86e-03  6.17e-03 -2.38e-03
## 128462  1.35e-02 -3.38e-04  1.22e-03 -2.56e-03 -1.35e-02 -3.46e-03 -3.60e-03
## 79974   1.37e-03 -1.15e-03  1.16e-03  2.49e-03 -1.39e-03  4.17e-03  5.62e-03
## 126862  2.57e-02  7.29e-03 -6.77e-03 -4.05e-03 -2.56e-02 -1.00e-02 -5.08e-03
## 83651   1.07e-03 -4.88e-04  5.00e-04  2.60e-03 -1.09e-03  3.83e-03 -1.08e-03
## 106069 -2.83e-04  2.39e-03 -2.51e-03 -3.86e-03  3.12e-04 -4.15e-03 -3.41e-03
## 119256  1.63e-03  1.34e-02 -1.31e-02  1.57e-03 -1.66e-03  4.77e-04 -2.80e-03
## 111684  2.77e-03  6.56e-04 -1.11e-03  6.08e-03 -2.81e-03  6.86e-03 -3.76e-03
## 75364   2.29e-03 -3.31e-04 -2.30e-04  4.46e-03 -2.34e-03  5.97e-03  9.98e-03
## 5187   -1.52e-02 -7.45e-03  9.08e-03  2.53e-03  1.51e-02  4.81e-03 -2.37e-03
## 27426   2.00e-04  9.32e-05  3.71e-04 -2.65e-03 -1.84e-04 -1.98e-03 -2.04e-03
## 73911   9.53e-04 -1.57e-03  1.05e-03 -1.93e-03 -9.44e-04 -6.42e-04  8.81e-03
## 73861   2.66e-03  3.04e-03 -3.53e-03 -1.59e-03 -2.62e-03 -3.49e-03  1.55e-02
## 58140   3.84e-04 -5.56e-04  4.67e-04 -1.67e-03 -3.77e-04 -8.83e-04 -2.44e-03
## 109689 -1.65e-02 -1.13e-03 -1.30e-03 -1.86e-02  1.66e-02 -1.27e-02 -4.82e-02
## 110640 -7.60e-03  2.42e-02 -2.18e-02  8.00e-03  7.41e-03  7.44e-03  1.77e-02
## 126757  1.75e-02  7.64e-04 -1.88e-03  1.02e-02 -1.76e-02  1.20e-02  1.77e-02
## 72012  -2.46e-04  5.69e-03 -6.77e-03 -8.59e-03  3.24e-04 -1.43e-02 -6.90e-03
## 59657   9.21e-05  8.03e-04 -5.19e-04 -7.15e-04 -9.05e-05 -4.40e-04  2.10e-03
## 16590  -5.64e-04 -4.29e-03  7.44e-03 -1.04e-02  6.55e-04 -1.02e-02 -3.37e-03
## 75575  -5.68e-04 -3.23e-03  5.81e-03 -7.77e-03  6.25e-04 -7.32e-03 -2.19e-03
## 116461  2.78e-03  7.86e-03 -8.48e-03  4.33e-03 -2.79e-03 -2.21e-03 -6.85e-03
## 111176  3.35e-04  9.38e-04 -5.51e-04  6.72e-04 -3.43e-04  9.20e-04 -3.43e-04
## 107305  1.31e-03 -1.73e-04 -5.37e-05  9.14e-04 -1.31e-03  1.16e-03 -2.85e-03
## 37989   2.18e-03  1.20e-03 -1.97e-03 -1.53e-03 -2.16e-03 -3.38e-03  8.61e-03
## 87981   9.58e-04 -3.10e-04  1.58e-04 -3.61e-03 -9.24e-04 -9.43e-04 -2.75e-03
## 90186   3.55e-03  3.35e-02 -3.18e-02  4.68e-02 -4.02e-03  4.40e-02 -3.33e-02
## 75317   6.33e-03  5.57e-02 -6.02e-02  1.17e-02 -6.35e-03 -2.52e-02 -1.92e-02
## 175    -2.17e-02 -6.15e-03  5.90e-03  2.17e-02  2.15e-02  2.26e-02 -6.91e-03
## 14148   1.75e-03 -1.28e-04 -6.97e-04  3.00e-03 -1.77e-03  3.36e-03 -3.23e-03
## 78623  -1.11e-03  7.73e-03 -7.44e-03 -1.57e-02  1.30e-03 -2.70e-02 -8.99e-03
## 1162   -1.69e-02  3.08e-03 -3.63e-03  1.70e-03  1.68e-02 -2.53e-03 -6.87e-03
## 92461   5.98e-04 -7.14e-04  3.85e-04 -3.65e-03 -5.74e-04 -2.00e-04 -2.35e-03
## 16827   6.73e-03  8.35e-03 -8.13e-03  1.26e-02 -6.81e-03  6.20e-03  2.28e-02
## 123755  1.81e-02  1.62e-02 -1.57e-02 -1.35e-02 -1.80e-02 -1.83e-02 -4.08e-03
## 123196 -2.05e-03 -3.43e-03  5.15e-03  2.82e-02  1.74e-03  2.75e-02  1.77e-02
## 4075   -2.25e-02  5.10e-03 -5.69e-03  5.24e-03  2.24e-02  1.38e-03 -5.74e-03
## 3054   -1.33e-02 -6.58e-04  1.39e-03 -4.42e-03  1.33e-02 -3.14e-03 -1.96e-03
## 16866   1.32e-04  9.78e-05  4.96e-04 -3.95e-03 -1.01e-04 -2.68e-03 -2.49e-03
```

```
## 108765  3.75e-03  4.75e-04 -1.29e-03  5.67e-03 -3.78e-03  6.23e-03  1.11e-02
## 48946  -5.06e-03  5.15e-02 -4.81e-02  2.57e-02  4.81e-03  7.72e-03 -4.69e-02
## 83358  -2.92e-03 -2.40e-02  2.28e-02 -3.17e-02  3.27e-03 -3.09e-02 -7.89e-03
## 46672   2.52e-03  1.95e-03 -1.59e-03  3.15e-03 -2.52e-03  1.63e-03 -4.84e-03
## 37661   1.11e-03  1.88e-03 -2.39e-03 -4.48e-03 -1.05e-03 -7.14e-03 -5.44e-03
## 93750  -3.30e-03  3.10e-04 -1.80e-03  9.92e-03  3.19e-03  6.09e-03  1.40e-02
## 123373 -4.97e-02 -3.39e-03  2.90e-03 -2.20e-02  4.98e-02 -2.41e-02  1.13e-02
## 8802   -4.41e-03  9.59e-03 -9.18e-03  1.79e-03  4.38e-03 -1.19e-04 -1.08e-03
## 112896  9.94e-03  6.25e-03 -7.64e-03  2.69e-02 -1.01e-02  2.11e-02  1.33e-02
## 109139  5.99e-04 -8.86e-04  7.72e-04  7.28e-04 -6.08e-04  1.85e-03 -1.11e-03
## 123239  1.88e-02 -2.99e-03  5.78e-03 -1.86e-02 -1.86e-02 -2.06e-02  3.02e-02
## 114732 -4.53e-03 -7.10e-02  6.78e-02 -1.41e-02  4.69e-03 -2.33e-03  3.46e-03
## 80733   3.71e-03 -5.90e-04  5.21e-04  6.63e-03 -3.76e-03  1.11e-02 -2.68e-03
## 10001   2.07e-03  2.64e-04 -2.73e-04  1.12e-04 -2.07e-03 -2.38e-04  5.10e-04
## 11365   7.82e-02 -3.75e-03  3.93e-03  3.21e-02 -7.84e-02  4.20e-02  1.90e-02
## 32320   1.75e-03 -8.79e-05  1.09e-03  3.43e-03 -1.78e-03  4.24e-03 -1.86e-03
## 113390  9.59e-04  2.80e-03 -4.01e-03 -1.59e-03 -9.39e-04 -3.41e-03 -5.04e-03
## 111942  1.37e-03 -2.24e-02  2.08e-02 -7.61e-03 -1.28e-03 -2.00e-03 -5.56e-03
## 1606    6.86e-02 -2.34e-02  2.83e-02 -3.21e-02 -6.83e-02 -1.81e-02  3.01e-02
## 96198  -2.22e-04 -8.87e-04  6.30e-04 -4.68e-03  2.57e-04 -4.29e-03 -2.63e-03
## 38985   3.36e-03  1.91e-03 -2.20e-03  9.48e-03 -3.44e-03  8.48e-03 -4.14e-03
## 76617   2.83e-03  4.76e-02 -4.50e-02  2.38e-02 -3.04e-03  3.23e-03  3.09e-03
## 53668   5.56e-03 -8.46e-05  1.54e-03 -3.52e-03 -5.43e-03 -1.61e-02 -1.24e-02
## 65241   2.02e-05  4.46e-04 -3.27e-04 -6.37e-04 -1.78e-05 -4.13e-04 -4.68e-04
## 83037  -8.19e-03 -1.03e-02  1.16e-02 -1.13e-02  8.22e-03 -4.41e-03  1.61e-02
## 89897   9.46e-04 -6.12e-04  2.93e-04 -2.18e-03 -9.13e-04 -1.43e-03 -3.78e-03
## 3549   -1.59e-02  1.54e-02 -1.68e-02  1.83e-02  1.58e-02  7.16e-03  8.74e-03
## 83688  -3.98e-04 -1.02e-02  9.43e-03 -1.23e-02  5.17e-04 -7.81e-03 -4.28e-03
## 39079   9.88e-03 -1.89e-02  1.87e-02  1.29e-02 -9.84e-03  4.65e-03 -1.19e-02
## 33730   5.31e-03  1.15e-02 -1.04e-02  1.18e-02 -5.42e-03  1.23e-02  2.27e-02
## 13361   9.81e-04  2.73e-04 -2.23e-04 -6.98e-05 -9.79e-04 -2.90e-04  2.67e-04
## 66326   5.81e-04 -3.91e-04  3.02e-04  9.13e-04 -5.89e-04  1.40e-03 -9.20e-04
## 72913   2.37e-03  2.21e-03 -3.36e-03  2.38e-02 -2.55e-03  1.69e-02  1.03e-02
## 47123   4.13e-03  1.17e-02 -1.34e-02  7.00e-03 -4.16e-03 -9.80e-04 -8.58e-03
## 96621   8.97e-05  3.35e-04  5.55e-04 -1.99e-03 -8.66e-05 -8.13e-04 -1.43e-03
## 52977   3.94e-03  8.31e-04 -1.41e-03  5.79e-03 -3.97e-03  5.99e-03  1.05e-02
## 113650  4.06e-03  3.60e-03 -4.15e-03  6.06e-03 -4.10e-03  3.85e-03  1.14e-02
## 31499   8.90e-04 -4.06e-04  1.95e-03 -2.87e-04 -9.03e-04  9.68e-04  8.07e-03
## 68939   3.39e-04  2.65e-02 -2.48e-02  6.10e-03 -3.87e-04 -4.20e-03  1.47e-03
## 30011  -4.08e-03 -2.93e-03  9.11e-04  1.49e-03  4.02e-03  4.48e-03  1.15e-02
## 81019  -9.31e-03  3.76e-04  2.19e-03 -1.28e-02  9.42e-03 -1.59e-02  1.75e-02
## 20318   3.07e-03  1.66e-03 -1.77e-03  2.24e-03 -3.07e-03  7.02e-04  1.04e-02
## 96795  -2.94e-04  2.57e-03 -1.51e-03 -3.08e-03  3.14e-04 -1.77e-03 -7.22e-04
## 40229  -1.26e-02 -3.82e-02  4.41e-02 -1.82e-02  1.27e-02  8.04e-03  2.70e-02
## 45052   3.61e-03  4.60e-04 -6.94e-04  6.26e-03 -3.65e-03  7.64e-03  1.37e-02
## 14467  -1.80e-04 -4.20e-04  6.19e-04 -3.21e-03  1.94e-04 -1.83e-03 -1.79e-03
## 97809  -8.47e-04 -2.57e-02  2.40e-02 -3.90e-02  1.27e-03 -4.36e-02  2.74e-02
## 110762 -8.76e-04  6.44e-04  2.44e-06 -6.40e-03  9.18e-04 -5.81e-03 -1.73e-03
## 52719   1.69e-03 -2.16e-03  1.80e-03  4.66e-03 -1.73e-03  7.85e-03 -1.68e-03
## 39990   2.72e-03  2.41e-04 -7.20e-04  6.73e-03 -2.77e-03  7.86e-03 -3.57e-03
## 77146  -1.10e-02 -8.79e-02  8.65e-02 -3.01e-02  1.13e-02 -2.00e-02  1.10e-02
## 62813   1.44e-04 -8.99e-04  8.03e-04 -8.62e-04 -1.35e-04 -4.05e-04  1.23e-03
## 16373   3.97e-04 -1.71e-03  1.36e-03 -4.16e-03 -3.63e-04 -3.13e-03  7.13e-03
## 104753  2.02e-03  1.06e-04 -2.65e-05  3.46e-03 -2.05e-03  3.40e-03 -2.80e-03
## 24044   1.19e-04  2.30e-06  1.08e-04 -6.04e-03 -6.00e-05 -7.21e-03 -4.40e-03
## 38342   3.24e-04 -4.21e-03  6.70e-03  2.29e-02 -5.23e-04  2.79e-02  1.78e-02
## 42769   2.65e-03 -3.82e-03  3.79e-03 -1.12e-02 -2.54e-03 -1.45e-02  2.76e-02
## 38974   5.69e-03  7.89e-03 -8.97e-03  1.28e-02 -5.78e-03  1.03e-02  1.72e-02
## 29191  -1.31e-02  1.04e-03  1.83e-03 -1.92e-02  1.33e-02 -1.98e-02  2.33e-02
## 84723  -1.26e-04  1.10e-04 -6.27e-05 -1.69e-04  1.27e-04 -2.42e-04  2.50e-04
## 96432  -1.56e-03 -2.81e-03  2.81e-03  1.17e-02  1.46e-03  1.48e-02  1.43e-02
## 47543  -5.93e-04 -4.34e-03  3.51e-03  2.42e-02  3.08e-04  3.70e-02  1.65e-02
## 1415   -2.05e-02 -1.42e-03  1.13e-03  4.51e-04  2.05e-02 -2.02e-03 -6.22e-03
## 11483  -5.07e-03 -1.16e-03  1.02e-03  4.46e-04  5.06e-03  1.51e-03 -1.21e-03
## 49684  -1.55e-03 -8.67e-03  9.98e-03  1.51e-02  1.37e-03  2.17e-02  1.43e-02
## 111532 -2.58e-05  4.10e-02 -3.86e-02  1.71e-02 -1.51e-04 -4.20e-04  5.65e-03
## 10848   2.26e-03  3.89e-04 -5.94e-04  6.92e-04 -2.26e-03  4.96e-04 -1.23e-03
## 27352   1.97e-03  1.11e-04  2.53e-04  3.61e-03 -2.00e-03  4.88e-03 -2.92e-03
## 103480  5.83e-03 -2.36e-03  3.23e-03  1.42e-02 -5.92e-03  1.09e-02 -6.38e-03
## 51510  -6.49e-04  2.75e-03 -3.58e-03 -6.41e-03  6.96e-04 -7.50e-03 -4.16e-03
## 22489   2.34e-03 -3.96e-05  9.06e-04  4.07e-04 -2.33e-03  1.43e-03  1.21e-02
## 105839  6.88e-03  1.31e-02 -1.53e-02  1.80e-02 -6.99e-03  9.66e-03 -9.42e-03
## 51019   2.70e-03  3.38e-03 -3.82e-03 -1.24e-03 -2.68e-03 -3.19e-03  1.71e-02
## 29649   3.14e-03  9.79e-03 -9.90e-03  7.43e-03 -3.20e-03  7.17e-03 -2.95e-03
## 6352    2.21e-03 -7.50e-04  2.65e-04  1.46e-04 -2.21e-03 -1.43e-04 -1.81e-03
## 105333  1.97e-03  3.53e-04 -7.06e-04  3.77e-03 -2.00e-03  4.04e-03 -2.93e-03
## 76715  -1.94e-04  1.42e-03  3.37e-05 -5.03e-03  2.35e-04 -4.33e-03 -2.27e-03
## 68225   1.39e-03  2.05e-03 -2.71e-03 -7.67e-04 -1.38e-03 -2.69e-03 -4.93e-03
## 25706   1.80e-03 -1.91e-04  2.37e-04  2.92e-03 -1.81e-03  2.80e-03 -2.67e-03
## 102396  1.94e-03  9.72e-05 -7.14e-04  3.54e-03 -1.96e-03  3.44e-03 -3.17e-03
## 55218   2.40e-03 -4.11e-04  9.25e-04  1.54e-03 -2.42e-03  1.57e-03  1.45e-02
## 53022  -7.04e-03  3.20e-02 -4.00e-02 -1.14e-02  7.18e-03 -1.99e-02  9.55e-03
## 119214 -1.35e-02 -1.68e-03  5.79e-03 -3.04e-02  1.37e-02 -3.27e-02  1.92e-02
## 60460   1.62e-03 -5.57e-03  6.32e-03 -1.14e-02 -1.47e-03 -2.04e-02 -8.84e-03
## 53249   1.12e-03 -3.11e-03  3.43e-03  1.91e-02 -1.24e-03  1.70e-02 -5.22e-02
## 45114   1.12e-03 -2.30e-03  1.47e-03 -3.15e-03 -1.09e-03 -8.94e-04  1.33e-02
## 72724   1.84e-03 -1.90e-03  3.05e-03  2.17e-03 -1.83e-03 -5.02e-03 -6.20e-03
## 42881   2.71e-03  1.04e-02 -1.03e-02  5.25e-03 -2.75e-03  4.57e-03 -2.95e-03
## 101577  8.78e-03  2.83e-02 -2.57e-02  2.56e-02 -8.95e-03  1.74e-02 -4.86e-03
## 389    -1.61e-02  3.10e-03 -3.57e-03  1.62e-03  1.61e-02 -2.68e-03 -6.88e-03
## 121090 -4.10e-03 -2.35e-02  2.46e-02 -3.10e-02  4.43e-03 -4.15e-02 -6.30e-03
## 22577  -4.57e-03  1.59e-02 -1.53e-02 -6.46e-03  4.58e-03 -1.20e-02  4.51e-03
## 35305   1.00e-03 -4.42e-05  1.42e-04  2.49e-03 -1.02e-03  3.13e-03 -9.02e-04
## 5065   -1.33e-02  1.02e-02 -1.16e-02  1.05e-02  1.31e-02  4.65e-03  7.64e-03
## 119056  7.01e-03  1.04e-02 -1.89e-02  3.32e-02 -7.21e-03  2.71e-02  2.62e-03
## 109020  1.50e-02 -1.73e-02  2.14e-02  4.35e-02 -1.53e-02  3.85e-02 -6.94e-03
## 126236  6.19e-03 -2.86e-03  2.49e-03  7.92e-05 -6.19e-03  2.29e-03  6.71e-03
## 66009  -1.03e-02  7.62e-03 -1.24e-02 -1.84e-02  1.05e-02 -2.25e-02 -5.65e-02
```

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## 93948   1.01e-03 -1.62e-03  4.52e-03  4.63e-03 -1.08e-03  8.59e-03  2.45e-04
## 85762  -3.64e-03  8.80e-03 -1.26e-02 -3.71e-03  3.73e-03 -6.18e-03  8.54e-03
## 79786   2.25e-03  9.47e-04 -1.38e-03 -1.12e-03 -2.23e-03 -2.68e-03  1.02e-02
## 111969  2.25e-03  6.35e-04 -8.53e-04  7.62e-03 -2.33e-03  9.93e-03 -2.01e-03
## 58561  -6.29e-06  2.87e-04 -1.14e-04 -1.22e-03  1.26e-05 -6.88e-04 -6.74e-04
## 70678  -2.91e-03  9.65e-04 -1.94e-03  9.91e-03  2.82e-03  5.95e-03  1.37e-02
## 36451   4.53e-03 -3.44e-02  4.09e-02 -5.17e-03 -4.43e-03 -4.09e-03  3.33e-02
## 71567   1.68e-03 -9.49e-05 -3.91e-05  4.46e-03 -1.73e-03  5.71e-03 -2.29e-03
## 99915   4.50e-04 -7.05e-04  4.80e-04 -2.34e-03 -4.33e-04 -7.58e-04 -2.94e-03
## 29806  -4.50e-04 -1.22e-03  1.04e-03 -6.43e-03  5.00e-04 -4.97e-03 -3.04e-03
## 101891  5.00e-03  5.97e-03 -7.18e-03  1.59e-02 -5.12e-03  1.38e-02 -5.56e-03
## 99112  -2.76e-03  6.93e-04  6.31e-04 -1.08e-02  2.82e-03 -7.84e-03 -1.66e-04
## 68632   5.34e-03  7.92e-03 -9.29e-03  1.05e-02 -5.37e-03  5.65e-03 -7.77e-03
## 1856   -1.17e-02  1.41e-03 -1.37e-03 -2.88e-03  1.17e-02 -1.36e-03 -2.06e-03
## 14630   2.71e-03 -1.01e-02  9.65e-03 -5.55e-03 -2.64e-03 -1.40e-03  1.64e-02
## 77963   2.39e-03 -6.70e-03  9.98e-03  5.42e-03 -2.43e-03  7.96e-03 -1.57e-03
## 109365  3.79e-03  1.68e-04  8.94e-04  1.41e-02 -3.91e-03  1.52e-02 -2.30e-03
## 92568  -1.18e-04  1.43e-03 -1.67e-03 -7.26e-03  1.90e-04 -8.74e-03 -5.07e-03
## 85480   6.90e-04 -9.55e-04  3.20e-04 -1.47e-03 -6.78e-04 -8.97e-04 -3.01e-03
## 58367  -6.66e-05 -3.52e-03  2.69e-03 -7.03e-03  1.16e-04 -3.76e-03  1.58e-02
## 107743  1.17e-02 -2.13e-02  1.91e-02  2.68e-02 -1.19e-02  2.61e-02 -1.03e-02
## 54004   1.53e-03 -2.80e-03  2.54e-03  6.85e-04 -1.53e-03  3.11e-03  7.43e-03
## 4566   -2.17e-02 -1.88e-02  1.80e-02 -1.21e-02  2.18e-02 -6.38e-03 -5.11e-03
## 78682   1.13e-03 -1.53e-03  1.42e-03 -3.08e-03 -1.10e-03 -1.10e-03  1.32e-02
## 127491  1.54e-02  1.15e-03  1.18e-04 -7.42e-03 -1.53e-02 -9.14e-03 -4.41e-03
## 74365   1.63e-04  4.62e-04  5.20e-04 -1.83e-03 -1.59e-04 -1.09e-03 -1.58e-03
## 41703  -5.40e-05 -2.36e-03  2.18e-03 -2.63e-03  6.96e-05 -7.76e-04  4.58e-03
## 103092  1.11e-02 -2.28e-02  2.05e-02  2.67e-02 -1.12e-02  2.73e-02 -9.30e-03
## 1443    7.15e-02  1.53e-03  2.44e-03 -3.55e-02 -7.10e-02 -3.97e-02 -4.85e-02
## 67852   6.37e-04 -6.93e-04  3.37e-04 -1.48e-03 -6.26e-04 -9.42e-04 -2.80e-03
## 90068   6.83e-04  5.74e-04 -1.80e-04  1.05e-03 -6.96e-04  1.56e-03  2.90e-03
## 36058   1.50e-03 -3.29e-04 -3.37e-04  1.10e-03 -1.50e-03  9.28e-04 -3.29e-03
## 110761 -6.19e-03 -9.52e-03  1.37e-02  6.20e-03  6.11e-03  1.12e-02 -4.46e-02
## 94839  -5.23e-04  5.48e-05  6.46e-04 -5.95e-03  5.68e-04 -4.36e-03 -2.11e-03
## 55589   5.91e-04  2.22e-03 -4.43e-03  4.37e-02 -9.59e-04  4.68e-02 -5.12e-02
## 3932   -1.60e-02  1.30e-04 -8.77e-04 -7.25e-03  1.60e-02 -7.33e-03  9.09e-03
## 23800   3.50e-03  3.31e-02 -3.16e-02  9.71e-03 -3.58e-03  2.27e-03 -3.32e-03
## 106669  4.75e-03  1.56e-02 -1.74e-02  6.04e-03 -4.77e-03 -2.16e-03  1.95e-02
## 9595   -1.85e-02  3.95e-03 -4.80e-03  2.78e-03  1.84e-02 -1.60e-03 -6.89e-03
## 7547   -2.72e-02  6.74e-03 -6.20e-03 -9.79e-03  2.72e-02 -9.50e-03 -3.95e-03
## 123005  2.65e-03  5.66e-04 -1.36e-04  6.07e-03 -2.70e-03  7.24e-03 -2.94e-03
## 49881   2.11e-03  2.79e-03 -3.63e-03 -8.62e-04 -2.07e-03 -3.70e-03 -6.67e-03
## 39591   1.05e-02 -1.58e-02  1.45e-02  2.32e-02 -1.06e-02  2.18e-02 -9.87e-03
## 52070   1.01e-03 -1.21e-03  9.61e-04 -1.85e-03 -9.95e-04 -8.05e-04  8.30e-03
## 31339   4.93e-03  6.63e-04  6.90e-04  1.02e-02 -5.01e-03  1.05e-02  2.12e-02
## 59815   2.18e-03 -7.33e-04  4.95e-04  3.57e-03 -2.21e-03  4.49e-03  7.42e-03
## 23082   1.10e-03  7.43e-06 -4.34e-04 -5.37e-03 -1.05e-03 -6.56e-03  1.02e-02
## 78767   5.84e-03  2.73e-02 -3.00e-02  2.69e-02 -6.08e-03  3.09e-02  2.63e-03
## 49457   2.46e-03  1.94e-04 -6.18e-04  3.64e-03 -2.48e-03  4.05e-03  6.99e-03
## 41455   2.85e-03  4.47e-03 -5.15e-03 -3.51e-03 -2.80e-03 -9.15e-03  1.29e-02
## 104866 -9.60e-03  3.28e-03  1.37e-03 -8.07e-03  9.65e-03 -9.94e-03  2.25e-02
## 92868  -4.45e-03 -4.97e-03  4.31e-03  9.84e-03  4.35e-03  1.22e-02 -4.93e-02
## 86685   2.21e-03  2.01e-04 -9.75e-04  7.08e-03 -2.28e-03  9.22e-03 -2.87e-03
## 78104  -7.04e-03 -1.05e-03  1.27e-05 -2.37e-02  7.29e-03 -3.15e-02  5.59e-03
## 78764   3.77e-03 -2.58e-03  1.66e-03  3.55e-04 -3.74e-03 -4.25e-03 -8.90e-03
## 29885   1.26e-03 -7.48e-04  5.47e-04  3.78e-03 -1.30e-03  5.18e-03 -1.17e-03
## 66532   6.15e-04 -6.35e-04  3.63e-04 -1.37e-03 -6.07e-04 -9.07e-04 -2.75e-03
## 127284  1.46e-02  1.71e-03 -2.18e-03  1.63e-03 -1.46e-02  3.12e-04 -4.28e-03
## 110186  5.82e-04 -1.04e-03  7.48e-04  1.37e-03 -6.00e-04  2.65e-03 -1.10e-03
## 95651   2.61e-03  2.18e-03 -2.89e-03  7.31e-04 -2.61e-03 -9.78e-04  1.11e-02
## 25270  -1.38e-02 -2.47e-03  2.27e-03 -2.77e-02  1.40e-02 -2.66e-02 -4.76e-02
## 487    -1.34e-02 -9.38e-04  8.18e-04 -9.60e-04  1.33e-02  3.42e-04 -2.67e-03
## 79883   1.54e-03  1.74e-02 -1.94e-02  1.73e-03 -1.56e-03 -1.06e-02 -8.56e-03
## 62417  -8.16e-04  1.13e-03 -1.48e-04 -6.23e-03  8.59e-04 -5.67e-03 -1.47e-03
## 107406 -1.16e-02 -8.87e-04  3.37e-03 -2.71e-02  1.19e-02 -3.20e-02  1.70e-02
## 76996  -2.90e-04  3.37e-03 -4.52e-03 -5.90e-03  3.38e-04 -7.51e-03 -4.74e-03
## 44770  -3.54e-03 -2.42e-02  2.40e-02 -2.45e-02  3.73e-03 -1.03e-02  2.62e-02
## 44407   1.24e-02  3.51e-03 -2.43e-03  3.31e-02 -1.26e-02  2.62e-02 -9.18e-03
## 124404 -4.05e-02  1.25e-03 -8.91e-04 -3.28e-04  4.05e-02 -8.27e-03  7.63e-03
## 76971  -2.32e-03 -2.72e-04  8.16e-04 -1.24e-02  2.40e-03 -1.23e-02 -2.59e-03
## 40914   1.74e-03 -1.44e-04 -1.46e-04  3.99e-03 -1.77e-03  4.82e-03 -2.65e-03
## 2428    1.72e-03  4.58e-04 -3.99e-04  2.30e-04 -1.72e-03 -1.38e-04  4.39e-04
## 51074  -1.72e-03  2.05e-02 -2.52e-02  2.89e-03  1.70e-03  2.14e-03  7.39e-03
## 100033 -1.73e-03 -9.32e-04  2.27e-03 -9.57e-03  1.79e-03 -8.88e-03 -2.23e-03
## 26867   2.63e-03 -1.85e-03  1.33e-03  8.31e-03 -2.70e-03  1.14e-02 -1.82e-03
## 26900  -2.17e-04  1.20e-03 -1.61e-03 -6.23e-03  2.74e-04 -7.35e-03 -4.29e-03
## 125208  1.11e-02 -1.05e-03  7.97e-04 -7.26e-03 -1.10e-02 -6.22e-03 -3.63e-03
## 33882   1.02e-03  1.37e-03 -2.55e-03 -5.12e-03 -9.74e-04 -6.47e-03  1.03e-02
## 58102   5.42e-04 -4.27e-04  3.29e-04 -1.70e-03 -5.24e-04 -1.17e-03 -2.55e-03
## 55312   9.89e-04  6.33e-04 -1.36e-04  1.76e-03 -1.01e-03  3.56e-03 -1.33e-03
## 103281  1.54e-03 -4.50e-03  4.01e-03  9.36e-04 -1.56e-03  4.85e-03  1.08e-02
## 20967   5.36e-04 -8.83e-04  1.90e-03 -3.61e-03 -5.07e-04 -4.17e-03 -3.42e-03
## 65416   1.74e-03  3.66e-05  4.76e-04  5.21e-03 -1.79e-03  7.89e-03 -1.04e-03
## 43513  -8.92e-03 -4.45e-03 -3.29e-04 -2.95e-02  9.24e-03 -4.54e-02  4.12e-03
## 11826  -5.19e-04 -1.33e-04  1.13e-04  4.02e-05  5.18e-04  1.61e-04 -1.18e-04
## 30678  -1.51e-02 -2.31e-03  2.31e-03 -2.85e-02  1.53e-02 -2.93e-02  1.99e-02
## 109309  1.53e-03 -5.23e-02  5.82e-02 -6.45e-03 -1.44e-03  2.07e-04 -4.51e-03
## 107469  2.32e-03  5.35e-04 -1.07e-03  4.09e-03 -2.34e-03  3.66e-03 -3.35e-03
## 66368  -1.29e-02 -1.75e-02  2.14e-02 -3.17e-02  1.32e-02 -2.29e-02  1.94e-02
## 55059   3.57e-03  5.73e-04 -1.81e-04  6.45e-03 -3.61e-03  4.68e-03 -4.80e-03
## 88408   1.04e-03  1.62e-02 -1.57e-02  1.60e-02 -1.19e-03  4.12e-03  2.99e-03
## 57405   1.37e-03  2.16e-04  3.62e-04  1.65e-03 -1.38e-03  2.25e-03 -2.13e-03
## 109150  1.43e-03  1.49e-03 -1.88e-03  3.63e-04 -1.43e-03 -9.86e-04 -4.47e-03
## 33037  -9.01e-03 -2.39e-02  2.47e-02 -2.05e-02  9.07e-03  3.09e-03  1.48e-02
## 96734   1.57e-03 -8.15e-04  4.41e-05  1.25e-03 -1.58e-03  1.49e-03  4.11e-03
## 100421  5.23e-04  4.75e-04 -1.51e-03 -8.41e-03 -4.45e-04 -1.00e-02  9.53e-03
## 39608   5.17e-03  5.48e-03 -5.26e-03  1.10e-02 -5.22e-03  4.89e-03 -7.53e-03
## 58551   1.49e-05 -7.94e-04  7.29e-04 -1.31e-03 -3.83e-06 -6.48e-04 -7.95e-04
```

```
## 117815 -1.41e-02  7.55e-02 -8.08e-02 -4.08e-02  1.44e-02 -4.84e-02  6.95e-03
## 113202 -1.17e-02  1.62e-03 -7.15e-03 -2.37e-02  1.19e-02 -2.85e-02  1.30e-02
## 72458   5.96e-04 -1.66e-03  1.18e-03 -3.22e-03 -5.73e-04 -2.38e-03  6.57e-03
## 44838  -4.61e-05  2.07e-04 -6.86e-05 -1.12e-03  5.27e-05 -6.09e-04 -5.81e-04
## 75388  -5.63e-04 -1.03e-03  1.45e-03 -7.28e-03  6.09e-04 -5.66e-03  1.04e-02
## 81669   4.87e-04 -7.56e-04  5.75e-04  3.66e-04 -4.88e-04  7.87e-04 -9.43e-04
## 76826  -4.80e-04  1.68e-02 -1.64e-02 -1.23e-02  6.05e-04 -1.56e-02 -5.07e-03
## 71588  -1.21e-02 -3.06e-02  3.14e-02 -1.34e-02  1.21e-02  1.06e-02 -3.23e-02
## 120604 -7.06e-03 -5.22e-03  3.13e-04  2.26e-03  6.95e-03  1.40e-02 -3.45e-02
## 49065  -1.55e-03 -3.37e-03  2.92e-03  2.05e-02  1.34e-03  2.63e-02  1.74e-02
## 1957   -1.21e-02  1.04e-03 -1.66e-03  7.34e-03  1.20e-02  6.60e-03 -4.11e-03
## 68124  -1.73e-03 -1.12e-03  1.42e-03 -1.04e-02  1.81e-03 -8.34e-03 -2.20e-03
## 9891   -3.09e-02  4.41e-03 -2.99e-03  8.97e-03  3.08e-02  3.85e-03 -7.77e-03
## 4646    7.56e-02  2.41e-02 -3.19e-02 -1.88e-02 -7.53e-02 -2.22e-02  1.78e-02
## 45663   2.06e-03  4.47e-03 -6.37e-03  4.49e-03 -2.10e-03  2.50e-03 -5.26e-03
## 7790   -1.50e-02  5.86e-04 -1.38e-03 -4.95e-03  1.50e-02 -5.24e-03  8.63e-03
## 112252 -2.06e-04 -1.64e-03  1.20e-03 -5.95e-03  2.62e-04 -5.59e-03 -2.95e-03
## 34945   1.47e-03 -1.05e-03  8.17e-04  3.17e-03 -1.50e-03  4.35e-03  3.95e-03
## 17475  -5.06e-03 -5.28e-03  7.97e-03 -2.59e-03  5.10e-03  2.20e-03  1.69e-02
## 94084  -9.56e-04  2.57e-02 -2.88e-02  3.15e-02  7.49e-04  3.21e-02  2.62e-02
## 72569  -4.14e-03 -3.28e-03  4.29e-03  2.08e-02  3.88e-03  2.97e-02  2.44e-02
## 15859   1.95e-03  2.03e-03 -3.17e-03 -6.68e-04 -1.93e-03 -3.48e-03 -6.01e-03
## 124435 -4.26e-02 -9.97e-02  9.47e-02 -2.44e-02  4.28e-02 -4.85e-03  1.67e-03
## 74965   1.84e-03 -1.94e-02  1.80e-02 -3.91e-03 -1.79e-03  3.26e-03 -4.37e-03
## 77011  -1.21e-03 -1.23e-03  1.70e-03 -1.03e-02  1.29e-03 -1.09e-02 -3.86e-03
## 9524   -1.31e-02  9.12e-03 -8.68e-03 -2.61e-03  1.31e-02 -2.71e-03 -1.43e-03
## 80384  -1.23e-03 -6.24e-04  1.68e-03 -8.49e-03  1.29e-03 -8.13e-03 -2.91e-03
## 12975  -1.12e-02  5.75e-04 -8.89e-04 -2.78e-03  1.12e-02 -3.43e-03  6.26e-03
## 102244  2.35e-03 -1.56e-03  2.49e-03  3.87e-03 -2.37e-03  3.68e-03 -3.66e-03
## 61376  -1.15e-03  9.68e-04 -1.80e-03 -1.02e-02  1.24e-03 -1.15e-02 -4.45e-03
## 110550 -7.99e-04 -9.31e-04  2.78e-03 -5.80e-03  8.39e-04 -4.78e-03 -1.82e-03
## 55954   5.44e-04 -2.41e-04  4.85e-04 -1.71e-04 -5.46e-04  7.88e-04  3.89e-03
## 9644   -1.14e-02 -1.22e-03  7.53e-04 -2.57e-03  1.14e-02 -1.75e-03 -3.02e-03
## 61761   2.79e-03 -3.98e-03  2.84e-03  6.41e-04 -2.79e-03  2.62e-03 -5.50e-03
## 60266  -3.96e-04  1.62e-03 -1.97e-03 -1.18e-02  5.28e-04 -1.44e-02 -6.15e-03
## 44370  -8.36e-03  1.87e-02 -1.50e-02 -1.83e-02  8.59e-03 -3.82e-02  1.23e-02
## 99011  -1.28e-03 -1.63e-03  1.34e-03 -8.86e-03  1.34e-03 -7.11e-03 -2.97e-03
## 39136   2.97e-03  7.30e-04 -8.85e-04  6.06e-03 -3.00e-03  6.51e-03 -3.83e-03
## 23080   3.54e-03 -1.05e-04  2.33e-04  8.28e-03 -3.60e-03  7.25e-03 -4.51e-03
## 24345   1.31e-03 -6.89e-04  3.65e-03  6.09e-03 -1.39e-03  1.00e-02  8.83e-04
## 130220  1.66e-02 -6.88e-05 -9.53e-04  6.13e-03 -1.66e-02  7.97e-03  1.75e-02
## 43562   2.72e-03  5.10e-05  9.38e-04  5.39e-03 -2.76e-03  6.19e-03 -3.02e-03
## 102683  7.99e-03  1.23e-02 -1.35e-02  2.19e-02 -8.12e-03  1.34e-02 -9.26e-03
## 116085  9.09e-04  1.63e-03 -2.47e-03 -4.61e-03 -8.54e-04 -7.08e-03 -5.56e-03
## 71031   1.62e-03 -1.05e-02  9.79e-03  1.04e-03 -1.63e-03  7.13e-03 -1.89e-03
## 26969   1.62e-03 -3.47e-05  1.50e-04  2.53e-03 -1.64e-03  2.97e-03 -2.57e-03
## 41870   2.66e-04  2.29e-06  7.43e-05 -1.02e-05 -2.67e-04  4.89e-04 -6.83e-04
## 75270  -2.21e-03 -1.13e-03  2.90e-03 -1.27e-02  2.30e-03 -1.25e-02 -2.08e-03
## 127781  1.55e-02  2.85e-03 -3.00e-03 -2.64e-02 -1.52e-02 -3.64e-02 -9.58e-03
## 42755   8.01e-03  8.42e-03 -8.04e-03  1.79e-02 -8.12e-03  1.35e-02 -7.29e-03
## 125732  1.21e-02  2.59e-02 -2.51e-02  2.47e-03 -1.22e-02 -5.35e-04 -1.09e-03
## 65855   1.41e-03 -4.99e-04  1.10e-03  1.05e-03 -1.43e-03  2.92e-03  1.12e-02
## 5922   -2.26e-02  9.04e-03 -1.00e-02  7.05e-03  2.25e-02  2.55e-04 -8.68e-03
## 46102   1.18e-03 -2.00e-03  3.00e-03 -3.42e-03 -1.16e-03 -2.94e-03  1.36e-02
## 15781   4.63e-03  7.96e-03 -8.38e-03  3.56e-03 -4.63e-03 -3.03e-03  1.46e-02
## 77561   1.27e-03 -2.27e-04  1.61e-04  1.18e-03 -1.27e-03  1.31e-03 -2.62e-03
## 104815  1.63e-03  2.04e-05 -1.85e-04  1.08e-03 -1.63e-03  1.93e-03 -3.55e-03
## 9621   -2.54e-02  4.83e-04 -4.29e-04 -8.44e-03  2.54e-02 -8.43e-03 -3.60e-03
## 71998   1.35e-03 -1.32e-03  1.13e-03  2.32e-03 -1.37e-03  4.20e-03 -2.04e-03
## 120052 -2.17e-02 -1.83e-03  6.24e-03 -2.97e-02  2.18e-02 -2.93e-02 -4.77e-02
## 58113  -4.16e-04 -1.57e-03  1.82e-03 -4.35e-03  4.45e-04 -1.70e-03 -1.24e-03
## 37091  -7.70e-04  1.04e-02 -9.04e-03  2.74e-02  5.57e-04  1.83e-02 -5.53e-02
## 11970  -1.83e-02  6.65e-03 -7.29e-03  2.32e-02  1.81e-02  1.52e-02  1.24e-02
## 34641   3.05e-04  2.27e-03 -3.06e-03 -6.85e-03 -2.32e-04 -9.18e-03 -5.84e-03
## 65512   8.45e-05 -8.11e-04  6.79e-04 -8.75e-04 -7.63e-05 -4.58e-04 -7.12e-04
## 79353  -1.05e-03 -4.98e-04  1.30e-03 -1.05e-02  1.13e-03 -1.15e-02 -3.71e-03
## 25603  -1.01e-02  4.32e-02 -5.53e-02 -1.29e-02  1.02e-02 -2.20e-02  9.93e-03
## 83997   3.75e-03  4.43e-03 -5.48e-03  8.61e-03 -3.81e-03  5.86e-03 -5.50e-03
## 101586  1.20e-03 -2.83e-03  2.19e-03  1.10e-03 -1.20e-03  3.17e-03 -2.45e-03
## 69535   3.48e-03 -3.25e-02  3.17e-02 -5.71e-04 -3.46e-03  1.42e-02  3.23e-02
## 62018  -3.14e-04 -4.05e-04  9.00e-04 -1.07e-02  4.02e-04 -1.12e-02  1.27e-02
## 46349   5.17e-04  4.10e-04 -6.93e-04 -8.62e-03 -4.29e-04 -1.01e-02  9.25e-03
## 22931  -1.52e-02  2.32e-02 -2.14e-02 -4.44e-02  1.56e-02 -5.10e-02  8.43e-03
## 5489   -2.24e-02 -1.38e-02  1.29e-02 -8.03e-03  2.24e-02 -3.01e-03 -4.58e-03
## 73890  -1.91e-03 -1.47e-02  1.83e-02 -1.18e-02  2.00e-03 -1.01e-02 -2.20e-03
## 127087 -5.47e-02  1.68e-02 -1.15e-02 -2.01e-02  5.49e-02 -3.82e-02  1.40e-02
## 114606 -2.35e-02  2.04e-03 -3.61e-03 -5.04e-02  2.38e-02 -3.31e-02 -3.41e-02
## 87974   3.36e-03  1.11e-02 -8.00e-03  4.26e-02 -3.70e-03  3.72e-02  1.99e-02
## 92733  -7.31e-04  5.83e-03 -8.95e-03  1.46e-02  6.44e-04  1.50e-02  1.21e-02
## 60153   6.79e-04 -3.72e-02  4.06e-02  1.87e-02 -9.27e-04  4.73e-02  1.75e-02
## 40353   2.14e-03  2.90e-03 -3.64e-03  7.75e-04 -2.15e-03 -2.58e-04  1.47e-02
## 57443   9.02e-04 -6.37e-04  6.29e-04  1.37e-03 -9.13e-04  2.21e-03  2.93e-03
## 128838  1.65e-02  1.09e-03 -1.53e-03  1.03e-02 -1.66e-02  1.19e-02 -2.80e-03
## 81122  -2.20e-04  1.34e-03 -2.32e-05 -3.67e-03  2.42e-04 -3.15e-03 -1.31e-03
## 116289  4.59e-03  4.95e-03 -6.17e-03  1.12e-02 -4.66e-03  8.03e-03 -6.04e-03
## 41362   7.61e-03 -1.89e-03  1.59e-03  1.65e-02 -7.71e-03  1.53e-02 -6.76e-03
## 81415   4.23e-03 -1.94e-02  1.85e-02 -4.60e-03 -4.15e-03 -1.39e-04  2.40e-02
## 105220  9.70e-04  2.69e-03 -3.84e-03 -1.46e-03 -9.57e-04 -3.31e-03 -4.92e-03
## 114233 -2.63e-04 -9.92e-04  2.65e-03 -5.56e-03  3.14e-04 -5.13e-03 -2.85e-03
## 122444 -9.22e-04 -1.22e-02  1.30e-02  1.07e-02  7.80e-04  2.19e-02  1.31e-02
## 106349  4.04e-03  4.56e-03 -5.09e-03  7.58e-03 -4.07e-03  4.61e-03 -6.29e-03
## 63860  -8.06e-03  1.09e-03  2.45e-03 -1.28e-02  8.16e-03 -1.65e-02  1.56e-02
## 68123  -6.11e-05  1.21e-02 -1.21e-02 -9.18e-03  1.49e-04 -1.20e-02 -4.89e-03
## 91248   1.35e-03  1.71e-03 -6.69e-04  3.69e-03 -1.39e-03  5.67e-03 -7.91e-04
## 90256  -4.66e-03  1.56e-02 -1.54e-02  2.10e-02  4.47e-03  1.15e-02 -5.05e-02
## 106274  1.01e-03 -3.30e-03  2.64e-03  1.07e-03 -1.02e-03  3.93e-03 -2.16e-03
## 102929  2.21e-03  1.86e-04 -1.23e-03  4.53e-03 -2.25e-03  4.47e-03 -3.57e-03
## 61630   4.44e-03  1.95e-02 -1.66e-02  4.88e-03 -4.43e-03 -5.27e-03 -5.68e-03
```

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## 71114  -7.59e-03  2.31e-02 -2.02e-02 -5.53e-03  7.54e-03  6.74e-04  1.39e-02
## 60837   7.70e-03  1.94e-02 -1.72e-02  1.56e-02 -7.81e-03  1.02e-02  2.29e-02
## 43487   7.05e-04  1.70e-04  1.60e-03  1.22e-03 -7.34e-04  2.92e-03 -6.49e-04
## 113842  2.34e-04  4.55e-04 -1.63e-03 -6.84e-03 -1.71e-04 -8.76e-03 -6.47e-03
## 87007  -3.25e-04 -3.04e-02  3.34e-02  1.32e-02  1.52e-04  3.55e-02  1.52e-02
## 22678   3.21e-03  1.19e-02 -1.33e-02 -2.98e-03 -3.15e-03 -1.09e-02  1.80e-02
## 121003  1.23e-02  2.64e-02 -2.86e-02  3.70e-02 -1.26e-02  2.02e-02 -1.26e-02
## 89875   1.60e-03 -5.81e-04  1.01e-03  4.54e-03 -1.66e-03  6.08e-03 -1.83e-03
## 123955  3.58e-03  1.90e-03 -1.46e-03 -5.66e-04 -3.57e-03 -2.23e-04 -8.18e-04
## 85     -5.59e-03 -7.73e-04  5.50e-04 -9.03e-04  5.58e-03 -3.71e-04  3.37e-03
## 115173  1.54e-02 -2.36e-02  2.09e-02  4.28e-02 -1.56e-02  4.35e-02 -1.04e-02
## 10308  -2.04e-02  2.07e-03 -2.49e-03 -7.96e-03  2.04e-02 -1.15e-02 -6.24e-03
## 84843  -8.90e-04  1.01e-04 -1.54e-04 -9.89e-03  9.77e-04 -1.11e-02 -4.32e-03
## 86973   6.80e-04  3.16e-04  9.47e-04 -2.05e-03 -6.73e-04 -1.16e-03  8.39e-03
## 4220   -2.80e-02  1.18e-02 -1.34e-02  9.44e-04  2.79e-02 -5.27e-03 -7.41e-03
## 90775   4.28e-03  8.40e-03 -1.03e-02  4.10e-02 -4.64e-03  4.92e-02  1.62e-02
## 64057   3.06e-03 -9.00e-03  1.13e-02  7.53e-03 -3.12e-03  6.99e-03 -3.53e-03
## 27413   1.39e-04 -2.97e-03  2.66e-03 -3.55e-03 -1.02e-04 -1.72e-03 -2.16e-03
## 116520  9.85e-03 -5.06e-03  6.82e-03  3.08e-02 -1.01e-02  2.83e-02 -6.06e-03
## 30180   1.56e-04 -1.05e-03  7.16e-04 -4.04e-03 -1.20e-04 -2.51e-03 -3.09e-03
## 26756   1.55e-03 -5.18e-05 -2.22e-04  1.90e-03 -1.56e-03  1.83e-03 -2.86e-03
## 36538   1.59e-03  8.99e-03 -1.12e-02 -1.82e-03 -1.55e-03 -8.59e-03 -8.50e-03
## 19688   1.45e-03 -3.89e-04  2.41e-05 -2.72e-03 -1.43e-03 -3.31e-03  1.04e-02
## 5355   -2.13e-02 -1.91e-02  1.70e-02  1.49e-02  2.12e-02  1.80e-02 -9.23e-03
## 35784   1.45e-03  4.67e-04 -3.94e-04 -3.23e-04 -1.44e-03 -1.49e-03 -4.42e-03
## 56651   2.57e-03  2.65e-03 -3.20e-03  2.77e-03 -2.57e-03  4.07e-04 -5.35e-03
## 69218   6.72e-03  1.98e-02 -2.23e-02  2.15e-02 -6.87e-03  1.18e-02 -8.81e-03
## 87861   2.91e-03  4.29e-03 -4.80e-03  4.02e-03 -2.91e-03  1.49e-03 -5.80e-03
## 10328  -2.33e-02 -1.28e-02  1.21e-02  4.85e-03  2.33e-02  6.68e-03 -7.75e-03
## 94655   1.32e-03 -6.07e-05 -2.65e-05  1.96e-03 -1.34e-03  2.81e-03 -2.44e-03
## 118318  5.37e-04 -4.34e-04  3.02e-04  8.84e-04 -5.41e-04  1.16e-03 -7.55e-04
## 68313  -2.75e-04 -1.87e-03  1.18e-03 -5.68e-03  3.22e-04 -4.01e-03 -3.37e-03
## 15659   2.06e-03  3.87e-04 -8.62e-04  4.58e-03 -2.09e-03  5.09e-03 -2.89e-03
## 50733   3.33e-03  7.70e-03 -8.81e-03  6.02e-03 -3.37e-03 -2.93e-04 -7.22e-03
## 54302  -3.15e-03 -3.00e-02  2.81e-02 -2.50e-02  3.41e-03 -2.02e-02 -5.05e-03
## 86596  -2.13e-03 -1.23e-02  1.57e-02  2.31e-03  2.09e-03  6.76e-03  1.26e-02
## 11740  -5.64e-03 -5.55e-05 -1.96e-04  1.24e-03  5.62e-03  1.49e-03 -1.74e-03
## 124138 -3.32e-02  2.41e-02 -2.12e-02  2.11e-02  3.29e-02  1.83e-02  1.16e-02
## 57099  -1.54e-04  1.12e-03 -1.18e-03 -5.47e-03  1.95e-04 -6.48e-03 -3.75e-03
## 80112  -7.60e-03 -1.52e-02  1.52e-02 -9.34e-03  7.70e-03 -1.82e-02  8.17e-03
## 71044   1.61e-03 -2.10e-02  1.94e-02  2.11e-02 -1.81e-03  2.75e-02  5.78e-03
## 87100   1.68e-03 -1.23e-03  1.14e-03  4.28e-03 -1.72e-03  6.79e-03 -1.74e-03
## 13939   6.55e-04  1.05e-04 -1.04e-04 -4.78e-05 -6.53e-04 -1.91e-04  1.38e-04
## 94201  -3.83e-04 -9.77e-04  8.61e-04 -5.78e-03  4.30e-04 -5.16e-03 -2.53e-03
## 126291  1.41e-02  1.01e-03 -6.00e-04 -1.21e-02 -1.39e-02 -1.29e-02 -3.86e-03
## 76758   3.15e-03  1.30e-02 -1.22e-02  4.31e-03 -3.17e-03  2.30e-03 -3.61e-03
## 69395  -3.45e-05 -2.97e-04  3.18e-04 -1.20e-03  4.26e-05 -6.00e-04 -6.81e-04
## 105870  2.00e-03  2.17e-04 -6.64e-04  3.49e-03 -2.01e-03  3.36e-03 -3.11e-03
## 78218  -8.39e-03  2.20e-02 -1.69e-02 -9.21e-03  8.48e-03 -2.62e-02  1.71e-02
## 68595  -1.57e-02 -2.80e-02  3.35e-02 -1.95e-02  1.58e-02  2.21e-03 -3.58e-02
## 74406  -1.53e-02 -1.05e-02  1.28e-02 -2.98e-02  1.55e-02 -2.01e-02  2.39e-02
## 89776   1.64e-05  9.03e-05 -3.92e-05 -5.69e-04 -1.25e-05 -3.48e-04 -3.97e-04
## 22869  -2.96e-06  2.85e-02 -2.51e-02  3.42e-02 -3.24e-04  2.46e-02  1.54e-02
## 25840   1.95e-03 -1.19e-03  3.14e-03  2.91e-03 -1.99e-03  4.65e-03  1.05e-02
## 8244   -8.69e-03 -7.43e-04  7.65e-04  1.42e-03  8.65e-03  2.71e-03  6.42e-03
## 14192   3.68e-03  9.54e-03 -9.41e-03  2.01e-03 -3.67e-03 -2.40e-03 -6.64e-03
## 62734  -9.31e-05  1.12e-03 -6.72e-04 -1.40e-03  9.98e-05 -8.38e-04 -4.65e-04
## 44404   5.26e-03  1.28e-02 -1.06e-02  7.26e-03 -5.26e-03 -1.02e-03 -6.52e-03
## 31720   2.64e-03  2.74e-04  9.34e-04  6.35e-03 -2.70e-03  7.77e-03 -2.24e-03
## 62191  -1.26e-02  1.12e-02 -9.51e-03 -2.07e-02  1.28e-02 -3.51e-02  1.88e-02
## 97640   1.59e-03  1.23e-04 -3.81e-04  1.55e-03 -1.59e-03  1.41e-03 -2.95e-03
## 52192   4.76e-03  1.18e-02 -1.27e-02  1.04e-02 -4.81e-03 -1.12e-03 -9.27e-03
## 66133  -3.69e-04 -5.74e-03  5.18e-03 -1.01e-02  4.53e-04 -1.19e-02 -4.98e-03
## 82887  -9.90e-03 -2.04e-02  1.92e-02 -1.89e-02  1.00e-02 -1.17e-02  1.12e-02
## 21197   1.22e-02 -1.81e-02  1.71e-02  2.12e-02 -1.23e-02  2.06e-02  2.47e-02
## 34510   7.57e-03 -3.32e-02  3.09e-02 -6.79e-03 -7.37e-03 -1.66e-02  4.23e-02
## 89971  -5.52e-03 -3.64e-02  4.47e-02 -4.08e-02  5.89e-03 -3.72e-02  3.72e-02
## 90059   2.76e-03 -2.67e-02  2.94e-02  1.68e-02 -2.93e-03  3.48e-02  1.14e-02
## 104901 -5.49e-05 -2.98e-03  2.68e-03 -9.87e-03  1.44e-04 -8.37e-03  1.18e-02
## 72737  -2.67e-03 -1.47e-03  3.09e-03 -1.71e-02  2.80e-03 -1.52e-02  2.27e-02
## 99647  -4.71e-03 -1.56e-02  1.50e-02 -3.05e-02  4.99e-03 -2.61e-02 -3.49e-03
## 5535   -3.12e-02 -1.93e-02  1.87e-02 -8.25e-03  3.13e-02  4.18e-04 -3.63e-03
## 38768  -4.61e-04 -3.43e-02  3.21e-02  5.04e-03  4.35e-04  6.58e-03  2.14e-03
## 91778  -2.00e-03  4.30e-03 -1.46e-03 -1.29e-04  2.02e-03  2.16e-04  7.26e-04
## 90845   1.81e-03  2.62e-04 -3.06e-04  3.24e-03 -1.84e-03  4.64e-03 -2.83e-03
## 103589  3.01e-03  2.46e-03 -2.04e-03  7.90e-03 -3.07e-03  6.99e-03 -3.64e-03
## 128922  2.21e-02  1.06e-02 -1.25e-02  6.22e-03 -2.20e-02 -3.86e-03 -1.17e-02
## 100004  2.12e-03  2.46e-04 -2.80e-04  4.57e-03 -2.15e-03  5.05e-03 -2.67e-03
## 53998   5.00e-03  1.08e-02 -1.24e-02  1.24e-02 -5.09e-03  5.05e-03 -8.02e-03
## 34250   4.25e-03  8.49e-03 -9.94e-03  4.18e-03 -4.24e-03 -3.54e-03 -9.40e-03
## 24398  -4.57e-03  5.14e-03 -7.88e-03  3.20e-03  4.55e-03  5.10e-03  1.42e-02
## 97739   1.43e-03  1.66e-03 -3.05e-03 -2.78e-03 -1.39e-03 -5.54e-03 -6.10e-03
## 105196  2.28e-03  2.62e-03 -5.64e-03  2.51e-02 -2.48e-03  2.63e-02  1.01e-02
## 88620   1.65e-03 -1.24e-03  8.82e-04  3.56e-03 -1.68e-03  5.15e-03 -2.24e-03
## 21703   1.03e-03 -1.19e-03  8.97e-04  2.72e-03 -1.05e-03  4.28e-03 -1.22e-03
## 97439  -1.43e-02  1.77e-02 -1.23e-02 -3.29e-02  1.46e-02 -4.98e-02  1.91e-02
## 86184  -1.70e-02 -2.71e-02  3.28e-02 -1.98e-02  1.70e-02  3.23e-03 -3.07e-02
## 33172   2.31e-03 -5.12e-04  8.12e-04  3.88e-03 -2.35e-03  5.07e-03  9.23e-03
## 36728  -8.69e-03 -3.51e-02  3.70e-02 -1.46e-02  8.74e-03  1.09e-02 -2.84e-02
## 39788  -5.32e-03  1.95e-02 -1.90e-02  2.94e-04  5.27e-03 -1.47e-03 -3.46e-02
## 73258   3.11e-03  1.87e-03 -1.36e-03  2.78e-03 -3.10e-03 -5.64e-03 -8.14e-03
## 127046  1.14e-02 -2.36e-04  4.80e-04 -9.43e-03 -1.13e-02 -1.02e-02 -3.72e-03
## 56021   5.45e-03  1.15e-02 -1.05e-02  1.07e-02 -5.51e-03  6.54e-03 -5.11e-03
## 77024   1.69e-03  3.03e-02 -3.40e-02 -2.85e-03 -1.64e-03 -2.55e-02 -1.42e-02
## 7003    4.66e-02  3.07e-02 -2.78e-02 -2.04e-02 -4.65e-02 -1.52e-02  1.97e-02
## 59383   3.28e-04  2.91e-04 -2.22e-05 -5.22e-03 -2.80e-04 -6.52e-03 -4.20e-03
## 107873  1.38e-03 -6.64e-05 -2.42e-04  8.60e-04 -1.38e-03  9.70e-04 -2.95e-03
## 79559   4.53e-04 -5.94e-05 -6.84e-04 -4.28e-03 -4.19e-04 -5.64e-03 -5.07e-03
```

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## 51217   1.58e-03 -6.27e-04  7.71e-04  3.33e-03 -1.61e-03  4.11e-03 -2.42e-03
## 52167  -2.34e-05 -1.15e-03  1.04e-03 -1.78e-03  3.50e-05 -7.80e-04 -1.01e-03
## 6915   -9.60e-03 -2.73e-04 -8.42e-05 -5.41e-03  9.63e-03 -6.38e-03 -3.48e-03
## 119999 -4.80e-03  6.01e-05 -1.26e-03  1.05e-03  4.79e-03  4.29e-03  1.45e-02
## 78079   2.62e-03 -1.16e-02  1.30e-02  3.55e-03 -2.65e-03  5.86e-03 -5.18e-03
## 47412   3.65e-03  3.70e-03 -4.72e-03  8.32e-03 -3.71e-03  5.81e-03 -5.50e-03
## 68465   2.85e-03  4.02e-02 -3.79e-02  4.04e-02 -3.26e-03  3.22e-02  1.09e-02
## 66852   1.02e-03 -9.13e-05  4.72e-04  1.87e-03 -1.05e-03  3.25e-03 -1.76e-03
## 116444  6.49e-04  7.60e-04 -9.54e-04 -6.52e-03 -5.88e-04 -7.34e-03  1.19e-02
## 101196 -1.43e-02 -7.72e-02  7.46e-02 -3.12e-02  1.45e-02 -1.32e-02  1.60e-02
## 20815  -6.83e-03  2.04e-02 -1.81e-02 -8.68e-03  6.80e-03 -4.50e-03  9.80e-03
## 53411  -5.59e-03  6.47e-04 -4.92e-03 -1.99e-02  5.81e-03 -3.01e-02  3.48e-03
## 20971   1.03e-03 -8.76e-04  1.27e-03  1.40e-03 -1.05e-03  1.85e-03 -2.10e-03
## 108079  4.64e-03  4.98e-03 -5.85e-03  1.12e-02 -4.71e-03  8.05e-03 -5.77e-03
## 35933   1.83e-03  7.77e-05 -4.59e-04  2.46e-03 -1.85e-03  2.24e-03 -3.14e-03
## 73968   4.85e-03  2.12e-02 -2.39e-02  4.15e-03 -4.81e-03 -1.13e-02 -1.32e-02
## 13849  -3.88e-02 -1.47e-02  1.81e-02  1.57e-02  3.87e-02  1.16e-02 -8.26e-03
## 30439  -3.59e-04  9.78e-05 -4.12e-05 -6.61e-03  4.12e-04 -7.38e-03 -3.95e-03
## 634    -3.40e-02 -5.53e-03  6.02e-03  1.50e-02  3.38e-02  1.76e-02 -4.43e-03
## 78797  -3.01e-03 -6.32e-03  6.19e-03 -7.68e-03  3.09e-03 -7.46e-03  7.33e-03
## 30462  -1.69e-02  2.46e-04 -7.42e-04 -2.52e-02  1.71e-02 -3.01e-02 -5.54e-02
## 24504   8.79e-03  2.01e-03 -9.57e-04  1.65e-02 -8.90e-03  1.54e-02  2.45e-02
## 25158   1.56e-03  1.58e-05 -9.30e-05  2.06e-03 -1.57e-03  2.25e-03 -2.73e-03
## 107926  3.23e-03  8.65e-03 -9.90e-03 -2.05e-03 -3.18e-03 -9.02e-03  1.26e-02
## 16762   5.66e-03 -1.58e-02  1.73e-02 -7.49e-03 -5.49e-03 -1.32e-02  3.96e-02
## 55642   4.96e-03  2.30e-02 -2.21e-02  1.26e-02 -5.06e-03  7.34e-03 -4.22e-03
## 91615  -6.58e-05 -1.55e-04  6.74e-04 -2.96e-03  8.40e-05 -8.37e-04 -1.96e-03
## 108824  1.73e-03 -3.10e-05 -1.66e-04  1.25e-03 -1.73e-03  1.95e-03 -3.69e-03
## 20869  -1.26e-02  1.57e-02 -1.47e-02 -3.12e-02  1.28e-02 -2.90e-02  9.84e-03
## 110523 -2.92e-03  4.24e-02 -3.94e-02  1.76e-02  2.71e-03  2.10e-03  1.16e-02
## 116469 -6.17e-04 -1.48e-03  1.19e-03 -6.69e-03  6.72e-04 -5.92e-03 -2.61e-03
## 96494   3.10e-03  2.74e-02 -2.58e-02  6.12e-03 -3.16e-03 -1.50e-03 -3.94e-03
## 93213  -1.72e-03  1.62e-04  8.38e-04 -9.62e-03  1.79e-03 -9.06e-03 -2.55e-03
## 50060   8.24e-04 -9.91e-04  2.21e-04 -1.25e-03 -8.05e-04 -1.05e-03 -3.18e-03
## 66096  -4.69e-04 -8.46e-03  1.30e-02 -8.40e-03  5.15e-04 -3.94e-03  2.46e-02
## 35335   1.04e-03 -2.83e-03  2.48e-03  1.53e-03 -1.06e-03  4.72e-03 -1.68e-03
## 49029  -8.08e-05 -5.22e-05  2.69e-04 -1.83e-03  9.12e-05 -9.06e-04 -7.50e-04
## 98033   5.18e-04 -1.04e-03  5.14e-04 -2.71e-03 -4.90e-04 -2.61e-03 -3.05e-03
## 1793   -1.07e-02  1.11e-03 -1.23e-03  3.12e-04  1.07e-02 -7.84e-04  6.48e-03
## 72976  -1.62e-02  2.60e-02 -2.06e-02 -1.66e-02  1.64e-02 -3.66e-02 -5.66e-02
## 112676  1.86e-04 -3.26e-03  4.54e-03 -7.76e-03 -1.10e-04 -1.06e-02 -5.33e-03
## 49680  -1.14e-03 -7.49e-03  8.53e-03  2.24e-02  8.77e-04  3.67e-02  1.88e-02
## 96923   9.82e-04 -6.60e-05  8.54e-04 -1.75e-03 -9.72e-04 -1.03e-03  8.17e-03
## 85905   8.03e-04 -1.18e-03  8.24e-04 -2.54e-03 -7.75e-04 -2.28e-03  4.45e-03
## 76467   6.89e-04 -1.64e-03  1.21e-03 -3.53e-03 -6.54e-04 -2.73e-03  6.64e-03
## 123304  1.30e-02  1.53e-04 -3.44e-04  8.08e-03 -1.30e-02  9.49e-03  1.28e-02
## 99343  -5.06e-04 -7.21e-04  7.61e-04 -5.96e-03  5.52e-04 -5.26e-03 -2.33e-03
## 17200   3.92e-03  2.53e-02 -3.41e-02  2.69e-02 -4.11e-03  1.99e-02 -5.25e-02
## 103617 -3.03e-04 -1.32e-03  1.80e-03 -4.64e-03  3.23e-04 -1.34e-03  1.08e-02
## 115364 -8.44e-03 -1.77e-02  1.73e-02 -1.84e-02  8.55e-03 -1.26e-02  8.84e-03
## 126335  1.55e-02  2.73e-03 -3.66e-03 -4.83e-03 -1.54e-02 -8.35e-03 -7.19e-03
## 45776   4.02e-04 -2.14e-05  4.11e-04 -1.68e-03 -3.93e-04 -1.09e-03 -2.14e-03
## 68160  -1.36e-02  2.10e-04  1.90e-03 -1.40e-02  1.36e-02 -1.26e-02  2.52e-02
## 117836 -1.42e-02 -1.54e-04  4.64e-03 -2.46e-02  1.43e-02 -2.99e-02 -5.08e-02
## 6120   -1.87e-02  1.88e-02 -1.80e-02  7.54e-03  1.86e-02  6.91e-03 -1.34e-03
## 86283   1.16e-04  1.38e-04  5.04e-04 -2.12e-03 -1.11e-04 -9.52e-04 -1.61e-03
## 68589  -1.48e-03 -9.77e-03  8.89e-03 -1.78e-02  1.65e-03 -1.42e-02 -4.98e-03
## 66331   1.13e-03  2.39e-03 -2.12e-03 -2.24e-03 -1.09e-03 -3.78e-03 -4.62e-03
## 54626   1.43e-03  1.82e-02 -1.46e-02 -1.51e-02 -1.23e-03 -3.14e-02 -9.59e-03
## 54756   2.61e-03 -1.70e-02  1.58e-02 -3.76e-03 -2.54e-03  1.51e-03 -5.80e-03
## 58985   1.28e-03  4.80e-03 -4.87e-03 -3.46e-03 -1.22e-03 -9.32e-03 -6.95e-03
## 88824   4.87e-03  2.45e-02 -2.24e-02  3.80e-02 -5.25e-03  4.12e-02  9.07e-03
## 37581  -4.23e-04 -1.31e-03  9.04e-04 -4.39e-03  4.49e-04 -3.20e-03 -2.46e-03
## 31128   2.24e-03 -2.58e-04 -1.26e-04  2.43e-03 -2.26e-03  2.82e-03  7.23e-03
## 45148  -1.06e-03  1.02e-04  6.74e-04 -5.03e-03  1.08e-03 -3.09e-03 -9.39e-04
## 82837   6.75e-05 -4.36e-05  1.81e-05  8.54e-05 -6.87e-05  1.44e-04 -1.59e-04
## 127095 -2.09e-02  6.98e-03 -6.27e-03  4.30e-02  2.04e-02  4.86e-02  9.34e-03
## 62190  -9.79e-05 -2.78e-04  3.86e-04 -4.88e-03  1.42e-04 -4.82e-03 -2.48e-03
## 41800  -1.50e-02  3.92e-03 -8.39e-03 -1.71e-02  1.51e-02 -3.34e-02 -6.61e-02
## 48343   6.79e-04  9.16e-05  1.22e-04  1.49e-03 -6.97e-04  2.54e-03 -8.08e-04
## 94369   3.56e-04 -8.08e-04  6.65e-04 -1.16e-04 -3.53e-04  3.50e-04 -8.77e-04
## 15343   9.56e-03  1.34e-02 -1.48e-02  2.93e-02 -9.76e-03  2.10e-02 -8.70e-03
## 40105   1.74e-03 -2.64e-07  3.08e-04  2.51e-03 -1.76e-03  1.97e-03 -3.65e-03
## 18462   2.00e-04  2.12e-03 -3.40e-03 -6.67e-03 -1.31e-04 -8.82e-03 -6.16e-03
## 97451  -9.21e-03  9.60e-04  2.08e-03 -1.26e-02  9.28e-03 -1.54e-02  1.81e-02
## 98707   3.61e-03  3.17e-03 -2.50e-03  6.76e-03 -3.64e-03  1.62e-03 -6.05e-03
## 126724  1.13e-02 -7.86e-04  7.09e-04  7.80e-03 -1.13e-02  1.05e-02 -1.94e-03
## 33981   3.69e-03  4.93e-03 -5.74e-03  5.24e-03 -3.70e-03  1.64e-03 -6.64e-03
## 69459   5.89e-04 -1.08e-03  5.19e-04 -2.72e-03 -5.58e-04 -2.68e-03 -3.13e-03
## 94734  -1.15e-02 -9.52e-04  2.90e-04 -2.52e-02  1.16e-02 -2.89e-02  1.42e-02
## 42380   1.95e-03 -4.23e-04  1.45e-06  2.69e-03 -1.97e-03  2.95e-03  4.60e-03
## 120313 -1.51e-02  1.46e-03 -1.66e-03 -2.69e-02  1.52e-02 -2.90e-02  2.28e-02
## 24547  -2.54e-02 -3.00e-02  2.82e-02 -1.14e-01  2.64e-02 -1.06e-01 -3.91e-03
## 45640   2.16e-03 -1.61e-02  1.48e-02 -3.49e-03 -2.09e-03  9.86e-04 -5.56e-03
## 42097   5.50e-03  7.20e-03 -7.46e-03  1.16e-02 -5.58e-03  6.97e-03  2.37e-02
## 44018   2.19e-03 -2.33e-03  2.09e-03  1.50e-03 -2.19e-03  3.82e-04 -5.31e-03
## 51838  -3.40e-03  4.41e-02 -4.17e-02  9.21e-03  3.27e-03 -7.15e-03  7.25e-03
## 87670   1.36e-04 -4.44e-03  4.26e-03 -4.94e-03 -1.01e-04 -1.55e-03  9.42e-03
## 36218   1.70e-03 -1.54e-05  1.95e-04 -4.39e-04 -1.68e-03 -1.84e-03 -4.72e-03
## 72180   4.15e-03  4.20e-02 -4.83e-02  2.91e-02 -4.39e-03  2.78e-02  5.54e-03
## 111962  3.25e-04  1.10e-03 -1.39e-03 -5.77e-03 -2.64e-04 -7.50e-03 -4.76e-03
## 61526   4.31e-03  5.16e-02 -4.85e-02  3.67e-02 -4.60e-03  1.63e-02  6.06e-03
## 120702  4.05e-03 -2.91e-03  4.55e-03  9.88e-03 -4.12e-03  1.00e-02 -3.75e-03
## 114740 -7.81e-03  4.27e-03  2.12e-03 -8.16e-03  7.89e-03 -1.21e-02  2.00e-02
## 40324   3.06e-03  5.98e-04 -1.27e-03  6.61e-03 -3.10e-03  7.02e-03 -4.17e-03
## 82902   7.02e-04 -2.89e-04  3.03e-04  1.36e-03 -7.18e-04  2.24e-03 -9.87e-04
## 77394  -2.09e-03  1.04e-02 -1.00e-02 -1.37e-02  2.18e-03 -1.39e-02 -2.15e-03
## 77650   3.36e-04 -2.11e-04  3.57e-04 -1.16e-04 -3.37e-04  8.19e-04 -8.22e-04
```

```
## 27592   6.98e-04 -7.53e-04  3.32e-04 -2.06e-03 -6.74e-04 -1.91e-03 -3.00e-03
## 129621  1.07e-02  3.06e-04 -5.46e-04  4.11e-03 -1.07e-02  4.53e-03 -3.08e-03
## 127266  2.21e-02  1.76e-02 -1.83e-02 -2.07e-02 -2.19e-02 -3.37e-02  3.14e-02
## 54460   2.58e-03 -1.84e-03  8.07e-04  4.28e-03 -2.62e-03  7.31e-03 -3.64e-03
## 61926   4.17e-03  2.42e-02 -2.73e-02  5.22e-03 -4.17e-03 -1.08e-02 -1.22e-02
## 20420   3.37e-03  2.30e-03 -2.12e-03 -1.32e-04 -3.34e-03 -2.21e-03  1.42e-02
## 12602   8.99e-02 -6.55e-03  9.86e-03  2.98e-02 -9.00e-02  3.58e-02  2.50e-02
## 63605   1.11e-03  2.98e-03 -3.11e-03  1.41e-03 -1.12e-03  2.37e-03 -1.50e-03
## 75349  -6.62e-04 -4.18e-04  5.99e-04 -5.96e-03  7.10e-04 -5.21e-03 -2.11e-03
## 29594   2.09e-03  2.54e-03 -3.69e-03 -5.94e-03 -2.01e-03 -8.70e-03  1.19e-02
## 64562   3.63e-03  5.06e-03 -6.08e-03  4.98e-03 -3.68e-03  3.28e-03  1.88e-02
## 101317  1.87e-03 -8.34e-03  6.70e-03  2.42e-02 -2.15e-03  3.20e-02  6.83e-03
## 56496  -1.83e-03 -4.47e-03  8.01e-03 -9.63e-03  1.88e-03 -7.57e-03 -2.70e-04
## 89473  -2.88e-03  4.80e-04  4.58e-04 -1.56e-02  3.00e-03 -1.56e-02 -2.83e-03
## 54276   1.83e-03  1.03e-02 -1.20e-02  1.56e-02 -1.98e-03  2.23e-02  4.21e-03
## 18074  -2.27e-03 -3.01e-05 -1.01e-03  4.55e-03  2.19e-03  1.87e-02 -2.61e-02
## 73445   3.13e-05  1.54e-03 -9.82e-04 -7.00e-03  4.09e-05 -8.49e-03 -4.36e-03
## 67234  -1.53e-03 -3.83e-02  4.32e-02 -2.99e-02  1.83e-03 -3.18e-02  3.05e-02
## 1195   -3.73e-03 -5.35e-04  7.79e-04 -4.88e-04  3.72e-03 -6.49e-05 -8.22e-04
## 118260  4.89e-04  1.42e-03 -2.02e-03 -5.37e-03 -4.34e-04 -7.41e-03 -5.06e-03
## 68057  -5.24e-03  1.76e-03 -7.26e-03 -5.93e-03  5.38e-03 -1.73e-02 -6.27e-02
## 26746  -7.27e-03 -1.46e-02  1.77e-02 -4.86e-03  7.22e-03  4.29e-03  1.83e-02
## 24764  -6.67e-03  5.32e-03 -1.07e-02 -2.33e-03  6.67e-03 -5.15e-03 -5.31e-02
## 102199  2.26e-03  1.66e-03 -2.30e-03 -1.50e-03 -2.22e-03 -3.58e-03  7.28e-03
## 130058  2.03e-02  2.30e-02 -2.14e-02 -1.99e-02 -2.01e-02 -2.51e-02 -6.76e-04
## 4480   -4.69e-03 -8.14e-04  7.02e-04 -2.15e-03  4.70e-03 -1.79e-03  2.60e-03
## 90618   1.69e-03 -5.68e-04  5.58e-04  1.22e-03 -1.70e-03  1.49e-03  5.33e-03
## 88670   1.45e-03  3.59e-03 -4.70e-03 -5.83e-03 -1.38e-03 -7.66e-03  1.62e-02
## 71873   2.43e-03 -4.94e-04  1.68e-03  4.93e-03 -2.46e-03  6.10e-03 -2.78e-03
## 1560   -2.23e-02  2.75e-03 -3.51e-03 -2.33e-03  2.23e-02 -3.11e-03 -4.56e-03
## 84209  -4.54e-04 -1.62e-03  1.83e-03 -4.35e-03  4.83e-04 -1.67e-03 -1.26e-03
## 35595   1.30e-03 -6.67e-04 -2.92e-04  1.28e-03 -1.31e-03  1.78e-03 -3.28e-03
## 125103  1.10e-02  5.28e-04 -1.14e-03  6.70e-03 -1.10e-02  6.49e-03  7.86e-03
## 79316  -9.46e-04  1.71e-05  1.44e-03 -8.67e-03  1.02e-03 -8.69e-03 -2.97e-03
## 74893   5.09e-04  1.48e-03 -7.78e-04  1.03e-03 -5.25e-04  1.83e-03 -4.10e-04
## 86468   1.47e-03 -4.92e-04  1.81e-03  4.16e-03 -1.52e-03  5.98e-03 -1.07e-03
## 20931  -1.80e-02 -1.71e-03  6.01e-03 -3.06e-02  1.82e-02 -2.89e-02  2.88e-02
## 875    -1.25e-02  1.20e-03 -1.41e-03  4.08e-03  1.24e-02  3.29e-03 -3.77e-03
## 6883   -1.48e-02 -1.35e-03  1.27e-03 -5.11e-03  1.48e-02 -3.72e-03 -2.56e-03
## 85259   2.97e-04 -2.40e-05  1.91e-04 -2.45e-03 -2.78e-04 -2.40e-03 -2.33e-03
## 48776   9.59e-04  2.05e-03 -1.20e-03  1.70e-03 -9.79e-04  2.75e-03 -1.17e-03
## 58907  -1.19e-03  1.66e-02 -2.44e-02  1.16e-03  1.25e-03 -5.80e-03  2.71e-03
## 96935   5.61e-04 -2.93e-03  2.54e-03 -6.29e-04 -5.56e-04  2.16e-03 -1.92e-03
## 13727  -8.32e-03 -1.03e-03  6.71e-04 -9.23e-04  8.30e-03  1.66e-04  5.43e-03
## 111748  8.98e-05 -1.01e-03  8.58e-04 -1.19e-03 -8.00e-05 -5.96e-04 -9.07e-04
## 85474   1.95e-03 -2.47e-02  2.33e-02 -5.48e-03 -1.88e-03  2.80e-03 -4.62e-03
## 119033  4.00e-03  3.37e-03 -3.65e-03  9.72e-03 -4.07e-03  7.52e-03 -4.79e-03
## 71820   5.72e-03 -5.56e-03  7.26e-03  1.34e-02 -5.80e-03  1.04e-02 -6.06e-03
## 2246   -1.51e-02  4.76e-03 -4.26e-03  6.13e-03  1.50e-02  8.46e-03 -1.14e-03
## 20883   4.78e-04 -5.40e-04  4.94e-04  4.06e-04 -4.80e-04  1.06e-03 -9.03e-04
## 16004   4.41e-05 -1.00e-02  1.05e-02  2.45e-02 -2.56e-04  2.32e-02  1.07e-02
## 13269   8.66e-02  1.28e-02 -1.42e-02  3.42e-02 -8.68e-02  3.50e-02  2.28e-02
## 34429   5.45e-03  9.53e-03 -9.62e-03  1.06e-02 -5.51e-03  7.96e-03 -5.86e-03
## 5267   -4.17e-03 -5.26e-04  3.16e-04 -1.23e-03  4.17e-03 -1.11e-03 -1.38e-03
## 50560  -1.11e-03 -2.80e-02  2.66e-02 -1.40e-02  1.23e-03 -2.25e-03 -2.29e-03
## 68366   2.44e-03  1.47e-02 -1.64e-02 -7.03e-03 -2.31e-03 -2.07e-02 -1.25e-02
## 31724   2.78e-03  8.75e-03 -8.96e-03 -4.58e-03 -2.71e-03 -1.15e-02  2.12e-02
## 14818  -1.51e-02 -3.09e-03  2.44e-03 -2.25e-02  1.52e-02 -2.75e-02 -5.01e-02
## 25081   6.25e-04  3.67e-04 -1.15e-04  1.26e-03 -6.36e-04  1.79e-03 -6.90e-04
## 78605   9.06e-04  1.89e-03 -1.96e-03 -1.79e-03 -8.89e-04 -3.04e-03 -4.44e-03
## 80240  -1.22e-04 -1.33e-03  1.45e-03 -2.67e-03  1.34e-04 -8.14e-04  5.47e-03
## 79436   5.51e-04 -1.43e-04  4.69e-04 -2.69e-03 -5.22e-04 -1.61e-03 -3.05e-03
## 19844   1.82e-03  2.22e-03 -3.14e-03 -1.05e-03 -1.78e-03 -3.70e-03 -5.74e-03
## 47016  -8.50e-03 -2.07e-02  1.87e-02 -2.01e-02  8.62e-03 -2.10e-02  5.00e-03
## 36766   2.31e-03 -5.29e-03  8.11e-03 -9.78e-04 -2.30e-03  1.60e-04  1.46e-02
## 93480   2.50e-04 -1.61e-03  9.59e-04 -5.15e-03 -1.94e-04 -4.20e-03 -3.94e-03
## 74843   4.22e-05  1.10e-03  1.26e-04 -4.10e-03 -1.41e-05 -1.89e-03  1.01e-02
## 38657   3.14e-03  2.27e-03 -2.30e-03  3.41e-03 -3.14e-03  9.93e-04 -6.08e-03
## 71780  -2.98e-05 -8.51e-04  7.97e-04 -5.48e-03  8.34e-05 -4.35e-03 -3.27e-03
## 15923   9.68e-04 -3.89e-04  2.65e-04  2.14e-03 -9.82e-04  2.60e-03 -1.05e-03
## 64576   4.01e-03  1.06e-02 -1.23e-02  6.37e-03 -4.03e-03 -1.18e-03 -8.77e-03
## 4846   -2.97e-02 -5.69e-03  6.37e-03 -3.01e-04  2.96e-02 -4.89e-03 -7.75e-03
## 127509 -4.63e-02 -1.80e-02  2.23e-02 -2.35e-02  4.63e-02 -1.47e-02  1.58e-02
## 122987  3.05e-03  5.02e-04 -8.36e-04  6.73e-03 -3.09e-03  7.28e-03 -3.86e-03
## 24146   1.35e-03  6.44e-03 -7.30e-03 -3.61e-03 -1.30e-03 -9.65e-03 -7.40e-03
## 66607   4.78e-03  3.02e-02 -2.85e-02  1.47e-02 -4.91e-03  8.58e-03 -2.57e-03
## 6386   -1.90e-02 -1.75e-03  2.47e-03 -1.17e-02  1.90e-02 -1.02e-02  1.20e-02
## 41708   1.29e-03 -1.72e-04 -3.22e-04  1.77e-03 -1.31e-03  2.56e-03 -2.75e-03
## 108965  4.58e-03  5.73e-03 -6.36e-03  8.14e-03 -4.63e-03  6.23e-03  1.80e-02
## 97429   1.94e-03 -1.10e-04  4.24e-04  4.78e-03 -1.98e-03  6.70e-03 -1.64e-03
## 108826  5.31e-03  1.43e-03 -8.81e-04  1.29e-02 -5.38e-03  1.11e-02 -5.50e-03
## 32453   7.03e-05 -4.54e-04  4.56e-04 -3.71e-03 -4.13e-05 -3.32e-03 -2.50e-03
## 99958  -1.69e-04  4.06e-04  7.54e-04 -3.05e-03  1.85e-04 -9.76e-04 -1.55e-03
## 130538  1.98e-02  5.17e-03 -6.76e-03  3.33e-03 -1.98e-02  2.20e-03  2.33e-02
## 66424   3.30e-03  1.70e-04 -7.14e-04  6.44e-03 -3.35e-03  8.48e-03  1.48e-02
## 19132   8.29e-04 -5.20e-04  1.97e-04  1.06e-03 -8.51e-04  2.44e-03 -2.25e-03
## 114328 -1.71e-02 -2.65e-02  2.88e-02 -4.49e-02  1.74e-02 -2.09e-02  2.09e-02
## 75921  -9.99e-03  1.58e-04 -3.76e-03 -2.37e-02  1.02e-02 -2.89e-02  9.90e-03
## 91831   1.84e-03 -8.10e-04  2.93e-03  4.75e-03 -1.89e-03  7.13e-03 -1.36e-03
## 98094   7.89e-04  3.42e-04  1.88e-04 -1.28e-03 -7.75e-04 -1.22e-03 -2.29e-03
## 17032   4.45e-03  1.31e-03 -8.04e-04  7.97e-03 -4.51e-03  5.26e-03  2.00e-02
## 119039  1.74e-04 -1.68e-03  8.28e-04 -3.90e-03 -1.43e-04 -2.24e-03 -3.37e-03
## 31742   5.39e-03 -2.84e-03  3.47e-03  1.53e-02 -5.51e-03  1.27e-02 -5.61e-03
## 58178   3.68e-03  1.51e-02 -1.66e-02 -2.89e-03 -3.57e-03 -1.82e-02 -1.34e-02
## 14550   1.64e-03 -8.37e-04 -1.91e-03  2.71e-02 -1.86e-03  2.27e-02  1.33e-02
## 11701  -8.55e-03 -3.38e-04  7.86e-04 -4.91e-04  8.53e-03  1.31e-03 -6.74e-04
## 49832   2.23e-03 -1.26e-06 -7.48e-04  2.52e-03 -2.24e-03  2.78e-03 -4.40e-03
## 104705 -3.70e-04  1.02e-03 -4.13e-04 -4.21e-03  4.02e-04 -4.19e-03 -1.67e-03
```

```
## 73143  -2.45e-04  1.51e-03 -6.34e-04 -4.01e-03  2.73e-04 -4.18e-03 -1.63e-03
## 117332  1.11e-03 -2.33e-04  4.46e-04  7.11e-04 -1.12e-03  1.02e-03 -2.47e-03
## 53600   4.37e-04 -9.16e-04  6.45e-04 -4.69e-03 -3.90e-04 -4.17e-03 -3.87e-03
## 42993   1.85e-03  2.94e-03 -3.17e-03 -1.15e-03 -1.84e-03 -2.53e-04 -3.93e-03
## 50567  -1.47e-02 -1.20e-02  1.66e-02 -3.28e-02  1.50e-02 -2.31e-02  2.34e-02
## 99963   3.27e-03  3.88e-02 -3.66e-02  6.43e-03 -3.32e-03 -6.50e-04  1.48e-02
## 56663   7.39e-04 -2.70e-02  2.48e-02 -1.61e-02 -5.33e-04 -1.07e-02 -8.37e-03
## 18313  -1.61e-02  2.51e-02 -2.20e-02 -3.17e-02  1.62e-02 -2.83e-02  1.74e-02
## 111420  9.16e-03 -3.69e-02  4.01e-02  2.80e-02 -9.38e-03  3.09e-02 -5.30e-03
## 121943  2.63e-03 -9.52e-03  1.29e-02  4.65e-03 -2.67e-03  7.09e-03 -1.72e-03
## 70953  -2.64e-03 -6.91e-03  9.04e-03  1.73e-02  2.40e-03  2.48e-02  1.95e-02
## 95154   2.87e-03  1.56e-02 -1.50e-02  2.10e-02 -3.08e-03  1.99e-02  3.39e-03
## 25985   7.16e-04  4.00e-04 -6.31e-05  1.67e-03 -7.34e-04  2.58e-03 -7.03e-04
## 122004  6.69e-03  4.58e-02 -4.22e-02  2.17e-02 -6.89e-03  1.45e-02  2.82e-02
## 19475   7.14e-04 -7.76e-03  1.08e-02 -1.14e-03 -7.22e-04  1.23e-03 -1.44e-03
## 57517   4.21e-03 -5.90e-03  6.73e-03  5.30e-03 -4.23e-03  2.41e-03 -7.30e-03
## 13050  -1.72e-02  2.97e-03 -3.32e-03  1.12e-03  1.72e-02 -6.00e-04  1.10e-02
## 12245   2.73e-03  8.06e-04 -6.84e-04  2.04e-04 -2.73e-03 -2.44e-04  9.28e-04
## 45069   1.65e-03 -8.70e-04  8.57e-04  2.19e-03 -1.67e-03  2.61e-03  4.29e-03
## 91725  -6.63e-03  5.66e-03 -5.82e-03 -2.89e-02  6.86e-03 -3.75e-02 -5.87e-03
## 53047   4.11e-03  2.63e-03 -3.20e-03  6.29e-03 -4.15e-03  4.18e-03  8.82e-03
## 67267   3.53e-05 -2.14e-04  3.42e-04 -1.49e-03 -2.48e-05 -8.23e-04 -8.06e-04
## 83317   5.92e-03 -1.78e-03  6.09e-03  3.34e-02 -6.16e-03  3.52e-02  1.24e-02
## 75864  -1.53e-03 -2.87e-02  3.14e-02  1.71e-02  1.37e-03  3.81e-02 -3.81e-02
## 117    -1.01e-02 -1.76e-03  1.48e-03  3.78e-03  1.01e-02  6.06e-03 -2.64e-03
## 17510   9.16e-04  2.93e-04 -8.53e-05 -2.67e-03 -8.90e-04 -3.92e-03 -4.26e-03
## 21451   2.68e-03 -9.46e-03  1.31e-02  7.77e-03 -2.75e-03  1.13e-02 -7.74e-04
## 124457  1.11e-02 -7.48e-04  6.66e-04  7.71e-03 -1.11e-02  1.05e-02 -1.91e-03
## 11352   7.81e-02  3.12e-02 -3.87e-02  2.89e-02 -7.81e-02  2.40e-02 -5.40e-02
## 22578   4.38e-04 -6.41e-04  4.65e-04  4.18e-04 -4.42e-04  8.71e-04 -8.98e-04
## 122263  4.18e-03  3.78e-03 -4.67e-03  9.31e-03 -4.24e-03  6.43e-03 -5.77e-03
## 83229   2.52e-03  4.41e-03 -4.18e-03  4.83e-03 -2.54e-03  3.64e-05 -5.60e-03
## 6083   -1.68e-02 -2.56e-03  3.73e-03 -5.60e-03  1.68e-02 -4.42e-03  1.15e-02
## 91047   2.57e-03 -1.86e-04  1.17e-03  6.08e-03 -2.62e-03  7.47e-03 -2.57e-03
## 24289   1.85e-03 -3.74e-04  5.39e-04  1.65e-03 -1.86e-03  2.00e-03  5.91e-03
## 12307  -1.27e-02  2.66e-02 -2.49e-02  9.94e-03  1.26e-02  3.64e-03 -2.86e-03
## 95394  -7.07e-03  2.60e-02 -3.80e-02  2.15e-04  7.06e-03 -8.54e-03 -5.68e-02
## 103458  2.40e-03 -9.19e-04  4.20e-04  7.76e-04 -2.39e-03  1.62e-03  9.78e-03
## 66428  -1.16e-02 -3.65e-04  1.44e-03 -1.15e-02  1.16e-02 -1.23e-02  2.20e-02
## 120061 -2.54e-03  1.39e-02 -6.46e-03  2.60e-02  2.26e-03  2.32e-02  2.70e-02
## 2528   -2.51e-03 -3.79e-04  3.18e-04  1.12e-04  2.50e-03  3.29e-04  1.48e-03
## 15404  -5.44e-03 -8.60e-03  8.71e-03 -9.69e-04  5.38e-03  4.74e-03  1.45e-02
## 19781   3.72e-03 -9.31e-04  1.44e-03  7.24e-03 -3.79e-03  7.61e-03  1.43e-02
## 100391  1.61e-04 -1.40e-03  7.69e-04 -3.41e-03 -1.34e-04 -2.72e-03 -2.94e-03
## 48542   2.50e-03 -1.08e-02  1.04e-02 -1.55e-03 -2.46e-03  4.06e-03 -3.51e-03
## 1786   -1.86e-02  2.63e-03 -3.32e-03 -1.81e-03  1.86e-02 -3.51e-03 -5.38e-03
## 35353   7.11e-04 -3.69e-04  8.33e-04  2.95e-04 -7.21e-04  1.20e-03 -2.01e-03
## 87779   2.05e-03  2.15e-04 -6.47e-04  3.83e-03 -2.07e-03  3.84e-03 -3.09e-03
## 95073   2.52e-03  8.28e-05  1.64e-03  5.95e-03 -2.57e-03  7.52e-03 -1.87e-03
## 21058   3.15e-05 -1.54e-03  1.08e-03 -6.15e-03  3.54e-05 -5.18e-03 -3.78e-03
## 65036   1.04e-03  7.68e-03 -9.16e-03 -6.62e-03 -9.52e-04 -1.35e-02 -8.43e-03
## 68866   2.49e-03  3.78e-02 -3.55e-02  3.09e-02 -2.78e-03  1.58e-02  6.84e-03
## 34899   1.12e-02 -2.17e-02  1.94e-02  2.57e-02 -1.13e-02  2.88e-02 -9.27e-03
## 95371   1.64e-03 -7.19e-03  6.60e-03 -4.89e-04 -1.62e-03  6.50e-03 -2.50e-03
## 57664   4.05e-03  4.31e-03 -4.40e-03  9.74e-03 -4.10e-03  7.67e-03 -5.14e-03
## 62959  -1.37e-03  9.93e-04 -3.84e-03  8.75e-03  1.33e-03  9.59e-03  9.81e-03
## 106630 -2.32e-02 -2.03e-02  2.40e-02 -7.44e-02  2.38e-02 -5.79e-02  2.10e-02
## 29189   2.66e-04 -1.53e-03  6.82e-04 -2.45e-03 -2.52e-04 -1.51e-03 -2.99e-03
## 66581   6.19e-04 -9.59e-04  7.87e-04  5.92e-04 -6.25e-04  1.44e-03 -1.16e-03
## 39549   2.24e-03  2.80e-05  7.81e-05  3.28e-03 -2.26e-03  3.84e-03 -3.70e-03
## 61537  -8.73e-03 -2.83e-02  2.56e-02 -4.67e-02  9.15e-03 -4.86e-02 -6.57e-03
## 518    -3.01e-03 -5.49e-04  2.76e-04 -9.01e-04  3.01e-03 -7.18e-04 -1.08e-03
## 34924   3.04e-03  2.93e-02 -2.76e-02  5.63e-03 -3.08e-03 -1.14e-03 -3.39e-03
## 66403   7.02e-04  1.34e-03 -5.33e-04  2.69e-03 -7.37e-04  4.07e-03 -1.82e-04
## 33813   1.15e-03 -1.88e-02  1.79e-02 -8.55e-03 -1.03e-03 -9.35e-04 -4.38e-03
## 18132   1.60e-03 -1.92e-02  1.76e-02 -4.18e-03 -1.55e-03  3.14e-03 -4.60e-03
## 121773  1.88e-03 -1.30e-04 -2.42e-04  4.02e-03 -1.91e-03  5.57e-03 -3.17e-03
## 74645  -1.18e-02 -4.91e-03  2.81e-03 -1.57e-02  1.19e-02 -2.22e-02 -5.32e-02
## 91848   4.03e-04 -6.59e-04  6.45e-04 -1.09e-04 -4.03e-04  7.65e-04 -9.85e-04
## 30033  -4.60e-03  1.53e-02 -1.50e-02  1.33e-03  4.54e-03 -7.67e-03  5.92e-03
## 76215  -7.59e-04  2.04e-04  2.81e-04 -5.94e-03  8.03e-04 -5.22e-03 -1.82e-03
## 57788  -2.41e-02 -2.23e-02  2.59e-02 -3.44e-02  2.42e-02 -1.79e-02 -3.91e-02
## 111462  2.89e-03  3.33e-04  6.19e-05  4.14e-03 -2.91e-03  2.67e-03 -4.68e-03
## 77029   9.19e-04 -2.63e-02  2.43e-02  2.48e-02 -1.17e-03  3.35e-02  9.39e-03
## 108784  1.52e-02  1.50e-02 -1.54e-02  4.52e-02 -1.55e-02  3.34e-02  1.99e-02
## 20072   1.48e-03  1.83e-03 -2.81e-03 -4.55e-03 -1.42e-03 -6.51e-03  8.70e-03
## 32780   2.60e-03  5.11e-04 -1.25e-03  4.06e-03 -2.62e-03  4.33e-03 -4.27e-03
## 106576 -1.17e-03 -1.01e-03  1.16e-03 -9.87e-03  1.25e-03 -8.66e-03 -3.00e-03
## 34928   1.05e-02  6.22e-03 -5.40e-03  3.30e-02 -1.08e-02  3.11e-02 -4.70e-03
## 58653   6.22e-04 -5.12e-05  1.16e-04  9.91e-04 -6.31e-04  1.43e-03 -8.48e-04
## 96408   1.27e-03  6.34e-04 -1.49e-04 -5.64e-04 -1.25e-03 -1.29e-03 -4.29e-03
## 44181   1.07e-03 -4.37e-05  2.32e-04  2.38e-03 -1.10e-03  4.76e-03 -2.03e-03
## 61446   6.59e-04 -1.35e-02  1.21e-02 -1.11e-02 -5.37e-04 -8.67e-03 -6.62e-03
## 56298  -2.60e-04  1.21e-03 -5.29e-04 -3.21e-03  2.82e-04 -1.69e-03 -1.05e-03
## 84467   1.40e-03 -1.45e-04  4.01e-04  1.50e-02 -1.52e-03  1.28e-02  5.18e-03
## 69749   2.18e-03  2.87e-03 -3.34e-03  3.63e-03 -2.20e-03  2.30e-03 -4.97e-03
## 125807  1.59e-02  4.79e-02 -4.62e-02  4.75e-03 -1.59e-02 -5.51e-03 -1.62e-03
## 83435   6.56e-03  1.55e-03 -7.95e-03  4.25e-02 -6.94e-03  4.27e-02  7.38e-03
## 3490   -3.06e-02 -2.54e-02  2.44e-02  3.64e-02  3.03e-02  3.86e-02  2.74e-02
## 56294   1.21e-03 -2.01e-02  1.88e-02 -1.05e-02 -1.11e-03 -2.66e-03  1.92e-02
## 48828  -1.46e-02 -7.05e-04  1.37e-03 -2.41e-02  1.48e-02 -2.94e-02 -5.30e-02
## 28557  -1.34e-02 -3.77e-03  6.33e-03 -2.73e-02  1.36e-02 -2.86e-02  1.85e-02
## 57230  -3.05e-04 -5.26e-03  7.90e-03  4.09e-02 -1.56e-04  5.16e-02  2.63e-02
## 80852   1.03e-03 -6.54e-04  3.64e-04 -1.88e-03 -1.00e-03 -1.40e-03 -3.95e-03
## 37153   1.04e-03  1.35e-03 -1.24e-03 -2.60e-03 -1.01e-03 -4.17e-03 -4.41e-03
## 122626  1.23e-03  1.31e-03 -2.22e-03 -7.05e-03 -1.16e-03 -8.60e-03  1.53e-02
## 114391 -2.74e-03 -2.20e-03  4.55e-03 -1.21e-02  2.82e-03 -1.03e-02 -1.01e-03
## 72243  -5.52e-03 -1.18e-03 -1.38e-03  1.08e-02  5.41e-03  9.67e-03  1.76e-02
```

```
## 72701  -1.65e-02  1.20e-02 -1.22e-02 -2.98e-02  1.68e-02 -4.85e-02 -6.46e-02
## 39623  -8.51e-04  5.36e-02 -5.96e-02  7.84e-03  7.93e-04  2.65e-03  5.26e-03
## 94578   4.61e-04 -8.04e-04  5.97e-04  4.26e-04 -4.65e-04  1.02e-03 -9.80e-04
## 97997   2.87e-04  9.11e-04 -4.59e-04  1.44e-04 -2.96e-04  1.01e-03 -5.56e-04
## 35010  -1.15e-03  1.05e-02 -1.61e-02  6.78e-03  1.15e-03  3.61e-03  7.13e-03
## 22165  -3.48e-03 -6.04e-03  7.94e-03  2.02e-02  3.27e-03  2.50e-02 -4.61e-02
## 46151   6.31e-04  4.07e-03 -2.57e-03 -1.02e-02 -5.46e-04 -8.62e-03  3.55e-02
## 1620   -1.52e-02  1.19e-02 -1.28e-02  2.38e-02  1.50e-02  1.80e-02  1.22e-02
## 3585   -3.45e-03 -1.79e-03  1.79e-03 -8.79e-04  3.45e-03  5.33e-04  2.42e-03
## 37963  -2.62e-05  5.94e-05 -1.28e-05  5.78e-05  2.61e-05  7.24e-05  1.83e-04
## 61522   1.17e-03 -1.93e-02  2.36e-02  2.09e-02 -1.36e-03  3.57e-02  1.81e-02
## 28112   1.00e-02  1.56e-02 -1.75e-02  3.08e-02 -1.02e-02  2.14e-02 -9.29e-03
## 21949   2.08e-03  1.60e-03 -2.06e-03  5.03e-04 -2.06e-03 -1.71e-03 -5.35e-03
## 9663    8.43e-02  3.90e-03 -2.35e-03  7.13e-03 -8.42e-02  9.30e-04  1.68e-02
## 6377   -8.50e-03  6.29e-03 -6.08e-03 -2.60e-03  8.51e-03 -3.30e-03 -1.85e-03
## 22641  -1.14e-03  2.58e-03 -3.51e-03 -8.23e-03  1.21e-03 -9.05e-03 -4.27e-03
## 71267   4.35e-05 -1.37e-03  1.20e-03 -1.56e-03 -2.96e-05 -7.32e-04 -9.80e-04
## 86954   1.81e-03 -9.21e-03  1.27e-02  2.78e-03 -1.84e-03  5.69e-03 -1.23e-03
## 119908 -2.61e-03  2.16e-02 -2.52e-02 -2.03e-03  2.60e-03  1.14e-03  5.53e-03
## 68647   3.89e-03 -1.32e-02  1.18e-02  4.10e-03 -3.91e-03  9.00e-03 -5.23e-03
## 2059   -1.16e-02  1.38e-02 -1.49e-02  2.09e-02  1.14e-02  1.41e-02  8.26e-03
## 105345  5.15e-03 -8.11e-03  7.33e-03  1.05e-02 -5.22e-03  1.45e-02 -4.39e-03
## 31074   2.82e-03  3.76e-04 -8.93e-04  4.45e-03 -2.85e-03  4.73e-03  7.80e-03
## 98619   1.21e-03  1.06e-04  5.68e-04  1.43e-03 -1.22e-03  2.20e-03 -1.98e-03
## 59767   2.69e-04  1.39e-02 -1.60e-02 -7.94e-03 -1.73e-04 -1.70e-02 -8.43e-03
## 128826  1.01e-02  5.41e-04  2.12e-04 -3.52e-04 -1.01e-02  1.67e-03 -1.03e-03
## 97597   2.68e-03  7.40e-03 -8.95e-03  1.98e-03 -2.70e-03 -2.65e-04 -6.74e-03
## 7000   -1.70e-02  1.74e-02 -1.56e-02  2.23e-03  1.69e-02 -3.31e-04  1.36e-02
## 53454   4.33e-04 -1.61e-03  8.86e-04 -4.13e-03 -4.05e-04 -5.09e-03 -5.18e-03
## 88646   2.12e-03  4.29e-03 -5.58e-03  4.42e-03 -2.17e-03  2.46e-03 -4.71e-03
## 13545  -2.43e-02 -1.11e-03  2.07e-03 -1.42e-02  2.44e-02 -1.38e-02 -3.27e-03
## 89709   1.20e-03  2.92e-02 -3.71e-02  2.27e-02 -1.40e-03  2.16e-02  7.08e-03
## 77505   2.22e-03 -5.96e-04  7.01e-04  2.54e-03 -2.25e-03  5.16e-03  1.68e-02
## 104775  1.10e-02  2.20e-02 -2.32e-02  3.12e-02 -1.11e-02  1.49e-02 -1.21e-02
## 124200  1.25e-02 -6.59e-03  8.72e-03 -2.69e-03 -1.25e-02 -1.01e-03  1.46e-02
## 5304   -2.15e-02 -1.74e-02  1.57e-02  1.47e-02  2.14e-02  1.77e-02 -8.72e-03
## 94507   2.45e-03 -8.61e-04  5.29e-04  2.28e-03 -2.47e-03  4.00e-03  1.28e-02
## 107905  9.31e-04 -3.43e-04  3.18e-04  2.01e-03 -9.48e-04  2.73e-03 -1.06e-03
## 7873   -2.98e-02 -1.63e-02  1.58e-02 -1.70e-02  2.99e-02 -1.07e-02 -4.87e-03
## 46752  -9.07e-03  9.16e-04  7.40e-04 -1.24e-02  9.19e-03 -1.58e-02  1.73e-02
## 127191  7.95e-03 -9.95e-04  1.57e-04 -1.47e-03 -7.92e-03 -1.63e-03 -3.91e-03
## 84267   2.35e-04  1.48e-04  3.81e-04 -5.06e-03 -1.86e-04 -4.49e-03 -3.09e-03
## 46475   7.17e-03 -2.65e-02  2.53e-02 -4.19e-04 -7.03e-03 -1.28e-02 -1.53e-02
## 1762   -4.51e-03  9.80e-05 -3.57e-04  2.28e-03  4.48e-03  2.45e-03  3.04e-03
## 44785  -1.02e-04  1.42e-03 -8.72e-05 -3.51e-03  1.23e-04 -3.16e-03 -1.39e-03
## 17603   1.45e-02 -8.56e-03  1.09e-02  3.95e-02 -1.48e-02  3.98e-02  4.07e-02
## 82684  -2.80e-04 -3.63e-03  6.40e-03 -8.70e-03  3.39e-04 -7.12e-03  1.67e-02
## 115091  2.44e-03  1.75e-04 -3.50e-04  3.53e-03 -2.46e-03  3.95e-03  7.04e-03
## 85152   2.27e-03  5.13e-03 -6.08e-03  4.53e-03 -2.30e-03  2.67e-03 -5.01e-03
## 99372   2.97e-03  1.69e-02 -2.26e-02  1.65e-02 -3.09e-03  1.52e-02  1.93e-03
## 112138  1.25e-03 -6.90e-05  1.27e-05  6.35e-04 -1.24e-03  7.36e-04 -2.71e-03
## 70523  -4.65e-03  4.82e-03  6.06e-04  2.12e-02  4.51e-03  2.41e-02 -4.41e-02
## 53015   1.09e-03 -1.75e-03  1.70e-03  1.29e-03 -1.10e-03  3.79e-03 -1.73e-03
## 36690   1.67e-03  2.12e-03 -2.88e-03  8.90e-04 -1.68e-03 -9.01e-04 -4.91e-03
## 27892   9.68e-03 -2.53e-02  2.92e-02  1.80e-02 -9.78e-03  1.72e-02  2.60e-02
## 25738   1.89e-03  6.15e-03 -6.86e-03 -2.31e-03 -1.85e-03 -3.76e-03 -5.84e-03
## 21054   1.57e-03  2.89e-03 -4.04e-03  1.33e-03 -1.59e-03 -5.04e-04 -4.91e-03
## 46594   9.73e-04 -2.88e-03  4.65e-03 -4.14e-03 -9.22e-04 -4.43e-03 -4.37e-03
## 5522   -9.76e-03  1.94e-02 -1.82e-02  6.45e-03  9.67e-03  3.35e-03 -9.92e-04
## 95845  -4.95e-03 -2.35e-02  2.70e-02 -3.40e-02  5.22e-03 -3.33e-02  2.62e-02
## 128007  1.11e-02  1.82e-02 -1.76e-02 -3.06e-03 -1.11e-02 -5.30e-03 -2.17e-03
## 96988  -9.05e-03  4.26e-03 -9.15e-04  8.86e-03  8.88e-03  1.00e-02  2.76e-02
## 100467  4.79e-04 -9.02e-04  4.83e-04 -2.73e-03 -4.48e-04 -2.62e-03 -2.90e-03
## 114894  1.76e-03  1.92e-04  1.67e-04  1.38e-03 -1.76e-03  2.02e-03 -3.31e-03
## 80484   5.76e-03 -2.62e-03  3.67e-03  3.48e-02 -6.04e-03  3.68e-02  9.99e-03
## 125466 -1.99e-02 -2.46e-03  2.42e-03  3.34e-02  1.95e-02  4.36e-02  7.92e-03
## 8285   -1.87e-02  6.99e-03 -7.57e-03  2.21e-02  1.85e-02  1.58e-02 -9.03e-03
## 102665  1.91e-03  2.48e-04 -4.09e-04  3.62e-03 -1.93e-03  3.95e-03 -2.78e-03
## 111515  2.01e-03  2.12e-04 -4.45e-04  3.73e-03 -2.04e-03  3.83e-03 -2.94e-03
## 21504   2.35e-03  5.84e-03 -6.57e-03  3.03e-03 -2.37e-03 -2.26e-03 -6.53e-03
## 83837   1.83e-03 -1.87e-04  6.07e-04  3.88e-03 -1.86e-03  4.63e-03 -2.28e-03
## 24765  -3.30e-03  2.37e-02 -2.14e-02  2.13e-02  3.00e-03  3.02e-02 -2.30e-02
## 95721   1.22e-03  2.01e-03 -2.84e-03 -2.54e-03 -1.19e-03 -4.66e-03 -5.92e-03
## 111542  5.14e-03  2.04e-02 -1.93e-02  1.67e-02 -5.29e-03  1.41e-02 -2.44e-03
## 93854   2.17e-03  3.38e-04 -5.27e-04  4.11e-03 -2.19e-03  4.16e-03 -2.96e-03
## 65493  -6.78e-04 -2.30e-03  1.44e-03 -6.13e-03  7.23e-04 -3.86e-03 -3.05e-03
## 25309   1.01e-02  2.81e-02 -3.14e-02  3.07e-02 -1.03e-02  1.37e-02 -1.25e-02
## 63425  -4.58e-03 -9.52e-03  7.84e-03 -3.44e-02  4.89e-03 -4.21e-02 -1.03e-02
## 119828  4.11e-03  3.16e-03 -3.53e-03  9.28e-03 -4.17e-03  6.80e-03 -5.21e-03
## 74691  -2.38e-04  5.50e-04  2.39e-04 -3.71e-03  2.61e-04 -2.99e-03 -1.67e-03
## 29018  -1.84e-02  4.07e-03 -3.23e-03 -5.33e-02  1.88e-02 -5.26e-02  1.12e-02
## 74823   3.77e-03 -1.07e-02  9.78e-03  4.75e-03 -3.80e-03  9.49e-03 -4.30e-03
## 74468   1.13e-03  2.08e-02 -3.10e-02  4.35e-03 -1.10e-03 -5.77e-03 -3.29e-03
## 7601    8.18e-02  6.49e-03 -6.92e-03  9.80e-03 -8.17e-02  1.54e-03 -5.58e-02
## 93549  -2.70e-03 -3.34e-03  6.36e-03  2.08e-02  2.56e-03  2.38e-02 -4.95e-02
## 95458   6.87e-04  6.95e-03 -8.52e-03 -6.51e-03 -6.47e-04 -1.13e-02  1.79e-02
## 128767  6.41e-03 -1.56e-03  1.38e-03  5.34e-04 -6.41e-03  2.56e-03 -1.32e-03
## 32898  -5.16e-04  3.78e-04  1.27e-04 -7.07e-03  5.69e-04 -7.81e-03 -3.36e-03
## 10437  -4.12e-03 -1.37e-04  7.54e-05  9.31e-04  4.10e-03  9.79e-04 -1.45e-03
## 991    -3.21e-03  9.57e-05 -2.11e-04  1.51e-03  3.19e-03  1.61e-03  2.12e-03
## 46560  -3.36e-03 -4.97e-02  4.56e-02 -3.19e-04  3.33e-03  1.39e-02  5.24e-03
## 7723    8.20e-02 -1.80e-01  1.71e-01 -9.22e-03 -8.18e-02  3.73e-02  2.05e-02
## 84377  -1.02e-03 -2.45e-04  2.98e-04 -1.93e-03  1.04e-03 -2.16e-03  1.81e-03
## 91169  -1.56e-03  3.44e-04 -1.17e-03 -1.06e-02  1.64e-03 -1.14e-02 -4.15e-03
## 103991 -8.69e-04 -5.94e-03  1.04e-02 -8.39e-03  9.39e-04 -6.19e-03 -8.35e-04
## 45353   4.47e-04  2.13e-03 -1.20e-03 -7.61e-03 -3.35e-04 -1.67e-02 -7.93e-03
## 57979  -1.05e-03 -1.88e-02  2.07e-02  1.91e-02  7.87e-04  4.04e-02  1.89e-02
## 82870   2.63e-03 -1.57e-03  3.37e-03  7.67e-03 -2.70e-03  8.86e-03 -2.24e-03
```

```
## 115117 -3.08e-03 -4.16e-03  6.52e-03  2.30e-02  2.83e-03  3.25e-02  2.37e-02
## 15173   7.12e-04 -1.46e-03  1.26e-03  2.26e-04 -7.12e-04  1.20e-03  2.82e-03
## 12995  -2.38e-02 -1.36e-02  1.29e-02 -1.81e-02  2.39e-02 -1.32e-02 -4.30e-03
## 59827  -4.95e-04 -5.43e-02  6.05e-02 -2.49e-02  7.94e-04 -2.44e-02 -8.25e-03
## 76268  -1.45e-04  1.74e-03 -1.09e-03 -1.56e-03  1.50e-04 -9.45e-04 -3.49e-04
## 69067   2.93e-03  3.23e-02 -3.04e-02  3.79e-03 -2.95e-03 -3.11e-03 -3.24e-03
## 19728   3.91e-04 -1.22e-02  1.16e-02 -1.06e-02 -2.75e-04 -4.88e-03 -4.13e-03
## 31863   1.57e-03  2.02e-03 -1.89e-03 -2.75e-03 -1.52e-03 -5.13e-03 -5.57e-03
## 18549   4.22e-04  1.04e-03 -1.14e-03 -2.69e-03 -4.08e-04 -3.55e-03 -3.74e-03
## 64668   7.89e-04 -1.51e-03  1.49e-03 -2.76e-04 -7.84e-04  1.70e-03 -1.87e-03
## 69042   3.28e-04  3.72e-02 -3.49e-02  2.45e-02 -5.93e-04  1.54e-02  9.29e-03
## 102559  1.08e-02 -3.75e-03  4.61e-03  3.10e-02 -1.10e-02  2.77e-02 -6.05e-03
## 116948  4.49e-04  1.82e-04 -1.04e-04  1.09e-03 -4.61e-04  1.36e-03 -5.47e-04
## 69908   2.65e-03  1.77e-02 -1.71e-02  6.07e-03 -2.71e-03  3.42e-03 -2.43e-03
## 109882 -4.64e-03 -9.55e-03  1.33e-02  5.50e-03  4.57e-03  1.35e-02  1.97e-02
## 15109   3.74e-03 -2.47e-04  3.54e-03 -3.16e-03 -3.60e-03 -1.37e-02 -7.30e-03
## 11468  -1.90e-02  1.91e-02 -1.77e-02 -1.45e-03  1.89e-02 -4.66e-03 -2.31e-03
## 30849   8.45e-03  1.67e-02 -1.47e-02  2.43e-02 -8.62e-03  1.97e-02 -3.84e-03
## 93218  -8.06e-04  4.44e-04  2.30e-04 -6.19e-03  8.46e-04 -5.40e-03 -1.66e-03
## 127676  1.44e-02 -2.09e-02  1.90e-02 -1.32e-03 -1.43e-02  6.45e-03 -4.97e-03
## 106336  3.87e-03  3.82e-03 -5.25e-03  6.52e-03 -3.92e-03  4.34e-03  1.05e-02
## 111843 -1.24e-02 -1.23e-02  8.74e-03 -4.03e-02  1.28e-02 -3.31e-02  4.76e-03
## 18228   2.13e-03  2.80e-03 -3.67e-03  4.27e-04 -2.13e-03 -7.18e-04  1.25e-02
## 17768   2.16e-03  3.23e-04  1.45e-04  4.00e-03 -2.19e-03  5.10e-03 -2.86e-03
## 47237   9.04e-03 -1.15e-02  1.14e-02  1.53e-02 -9.11e-03  1.86e-02  2.91e-02
## 114002  5.92e-04 -1.52e-04  2.20e-04  8.74e-04 -5.99e-04  1.50e-03 -8.74e-04
## 27579   8.41e-03  2.05e-02 -2.17e-02  8.98e-03 -8.39e-03 -1.22e-02  2.29e-02
## 122547 -4.04e-03 -1.37e-02  1.80e-02 -4.25e-03  4.04e-03  1.08e-03  1.44e-02
## 10705   8.36e-02  4.07e-03 -4.44e-03  3.56e-02 -8.38e-02  4.57e-02  2.19e-02
## 127894  8.77e-03  9.46e-05 -1.92e-04  4.08e-04 -8.75e-03  4.24e-04 -3.22e-03
## 13432  -9.52e-03 -9.78e-04  1.19e-03  1.23e-03  9.48e-03  2.72e-03 -1.30e-03
## 3605   -1.66e-02  4.45e-04 -8.90e-04 -2.07e-03  1.66e-02 -2.05e-03 -3.34e-03
## 45087   2.88e-04 -1.88e-03  1.53e-03 -5.31e-03 -2.41e-04 -4.68e-03  6.19e-03
## 45054   1.14e-02  4.08e-02 -4.31e-02  1.51e-02 -1.14e-02 -1.34e-02  1.63e-02
## 23332   6.31e-03  7.54e-03 -8.10e-03  1.91e-02 -6.46e-03  1.32e-02 -6.56e-03
## 57478   4.19e-03  5.45e-03 -6.03e-03  1.13e-02 -4.27e-03  8.97e-03 -5.05e-03
## 94973   2.10e-03  4.19e-03 -4.47e-03  2.28e-03 -2.11e-03  3.32e-03 -3.18e-03
## 23022   8.82e-05 -5.15e-04  5.05e-04 -1.01e-03 -7.84e-05 -5.90e-04 -6.97e-04
## 72282   2.79e-04 -2.33e-04  1.49e-04  4.64e-04 -2.82e-04  6.16e-04 -4.37e-04
## 105288  7.43e-03 -2.54e-02  2.28e-02  2.90e-03 -7.35e-03  1.51e-03 -1.27e-02
## 2543   -1.39e-02  8.88e-03 -9.86e-03  8.12e-03  1.38e-02  2.35e-03  7.96e-03
## 85233   1.95e-03  3.38e-02 -3.00e-02  3.55e-02 -2.31e-03  3.51e-02  1.40e-02
## 6882   -1.01e-02  6.89e-04  2.85e-04 -5.83e-04  1.01e-02  1.55e-03 -7.85e-05
## 129790  1.27e-02 -4.43e-03  8.04e-03 -6.05e-03 -1.26e-02 -4.27e-03 -7.29e-04
## 17122   1.35e-04 -2.31e-04  2.78e-04 -2.88e-03 -1.09e-04 -2.70e-03 -2.27e-03
## 93532  -9.93e-04  1.10e-04  3.72e-04 -6.24e-03  1.03e-03 -5.18e-03 -1.67e-03
## 70379  -8.48e-04  2.39e-04  3.14e-04 -6.44e-03  8.92e-04 -5.66e-03 -1.77e-03
## 30258   1.31e-03 -1.61e-04  1.78e-05  8.35e-04 -1.31e-03  9.19e-04 -2.82e-03
## 60913  -1.75e-03 -1.79e-03 -2.21e-03  1.19e-02  1.64e-03  7.07e-03  1.09e-02
## 56271  -3.85e-06 -2.01e-03  1.71e-03 -6.05e-03  5.18e-05 -4.98e-03  7.40e-03
## 89884   1.46e-03  2.26e-02 -2.03e-02  2.89e-02 -1.67e-03  1.08e-02  1.33e-02
## 99130  -3.05e-04  6.51e-04 -1.49e-03 -8.65e-03  3.86e-04 -1.06e-02 -5.23e-03
## 43900   8.54e-03  2.96e-02 -2.68e-02  1.58e-02 -8.64e-03  6.85e-03  2.62e-02
## 99738   8.35e-04  1.77e-03 -5.31e-04  3.80e-03 -8.88e-04  6.94e-03  1.03e-04
## 71511  -1.77e-03  1.69e-03 -2.74e-03 -1.32e-02  1.89e-03 -1.47e-02 -5.06e-03
## 104940  2.07e-03 -7.50e-04  1.45e-03  3.39e-03 -2.10e-03  4.88e-03  9.46e-03
## 56855   5.28e-03  1.53e-02 -1.42e-02 -1.20e-02 -5.03e-03 -3.97e-02  2.82e-02
## 79768   2.68e-03  2.40e-03 -2.31e-03 -3.46e-03 -2.63e-03 -7.91e-03  1.42e-02
## 10977  -1.28e-02 -4.57e-03  4.28e-03  4.92e-04  1.27e-02  3.80e-03 -2.63e-03
## 89287   2.73e-03  8.53e-04 -1.27e-03  6.62e-03 -2.78e-03  7.72e-03 -3.39e-03
## 119867  1.67e-03 -1.02e-03  1.80e-03  1.99e-04 -1.67e-03 -2.85e-03 -5.19e-03
## 108813  8.44e-03 -6.53e-03  7.57e-03  2.53e-02 -8.63e-03  2.33e-02 -6.22e-03
## 39453  -1.23e-02 -1.09e-02  8.57e-03 -1.48e-02  1.24e-02 -1.11e-02 -4.50e-02
## 69503   7.80e-04 -9.78e-06  1.84e-04  1.40e-03 -7.93e-04  2.20e-03 -9.24e-04
## 77116   3.22e-03  4.93e-03 -5.03e-03 -2.23e-03 -3.17e-03 -7.90e-03  1.46e-02
## 88979  -8.37e-03 -3.89e-04  4.85e-04 -1.67e-02  8.48e-03 -2.17e-02  6.40e-03
## 99000   9.18e-04  8.97e-05  9.45e-04 -2.09e-03 -9.06e-04 -1.06e-03  9.87e-03
## 38484  -1.12e-03 -3.16e-03  5.70e-03 -1.17e-02  1.19e-03 -9.56e-03  2.33e-02
## 128209  8.13e-03  9.23e-04 -2.45e-04 -2.38e-03 -8.10e-03 -2.02e-03 -2.30e-03
## 20903   1.19e-04 -1.20e-04  1.49e-04 -5.95e-03 -6.05e-05 -7.07e-03 -4.47e-03
## 31398  -3.81e-03  3.28e-03 -2.35e-03  1.47e-02  3.66e-03  1.27e-02  2.02e-02
## 124886  1.34e-02  3.41e-04  6.54e-04 -4.57e-03 -1.34e-02 -5.30e-03 -2.96e-03
## 83400   2.43e-03 -1.10e-02  1.07e-02 -1.24e-02 -2.29e-03 -1.32e-02  2.81e-02
## 55670  -9.57e-04  3.46e-04 -1.20e-03 -9.68e-03  1.03e-03 -1.10e-02 -4.73e-03
## 87028   2.94e-03 -1.64e-02  1.57e-02  2.39e-03 -2.94e-03  1.18e-02 -2.53e-03
## 36067   1.81e-03  5.71e-03 -4.52e-03  1.79e-02 -1.87e-03  8.79e-03  1.16e-02
## 33369   8.82e-04  5.50e-05  2.07e-03  2.04e-03 -9.19e-04  3.92e-03 -3.44e-04
## 33568   7.30e-03  6.83e-03 -6.69e-03  2.23e-02 -7.46e-03  1.61e-02 -6.52e-03
## 103368  1.66e-02 -2.39e-02  2.10e-02  4.33e-02 -1.68e-02  4.24e-02 -1.20e-02
## 97000  -4.17e-03  1.89e-02 -2.24e-02  4.77e-03  4.08e-03  8.57e-03  1.31e-02
## 117364 -1.09e-02  1.83e-02 -1.65e-02 -2.22e-02  1.11e-02 -3.20e-02  9.82e-03
## 21656  -1.80e-03 -5.97e-03  5.75e-03  1.42e-02  1.66e-03  1.04e-02  8.61e-03
## 26064   1.71e-03  1.33e-04 -6.54e-04  2.13e-03 -1.71e-03  1.94e-03 -3.12e-03
## 48099   1.11e-02  1.77e-02 -1.84e-02  3.09e-02 -1.13e-02  1.53e-02 -1.16e-02
## 120516 -2.95e-04 -2.89e-04  2.54e-04 -3.98e-04  3.00e-04 -5.34e-04  6.48e-04
## 91832   2.01e-03 -2.51e-03  2.07e-03  1.92e-02 -2.18e-03  2.42e-02  5.69e-03
## 7109   -1.21e-02  2.54e-04 -4.60e-04 -2.90e-03  1.21e-02 -3.72e-03 -3.64e-03
## 40970  -8.34e-03 -9.99e-03  1.26e-02 -1.37e-02  8.42e-03 -6.64e-03  1.66e-02
## 65649   2.87e-03 -2.07e-03  3.65e-03  7.54e-03 -2.92e-03  8.43e-03 -2.93e-03
## 41223   1.76e-03  1.61e-03 -1.24e-03 -1.89e-04 -1.78e-03  4.36e-03  1.81e-02
## 53578  -2.89e-03  2.23e-03 -2.23e-03 -9.89e-03  2.98e-03 -1.42e-02  1.17e-03
## 100952 -8.86e-05 -1.63e-03  1.06e-03 -5.51e-03  1.39e-04 -4.11e-03 -3.50e-03
## 80480   2.17e-04 -1.93e-03  2.50e-03 -5.44e-03 -1.74e-04 -6.10e-03 -4.19e-03
## 61797   3.85e-05 -1.63e-03  1.68e-03 -2.54e-03 -2.50e-05 -8.55e-04  5.10e-03
## 103907  7.15e-04 -1.62e-03  1.53e-03  1.72e-03 -7.46e-04  5.00e-03 -1.23e-03
## 94021   2.58e-03  1.87e-04 -8.00e-04  3.14e-03 -2.59e-03  3.00e-03 -4.53e-03
## 2812   -5.66e-03 -1.44e-04 -1.00e-04  4.81e-04  5.64e-03  7.35e-04 -1.70e-03
## 41523   6.81e-04 -1.78e-03  1.35e-03 -3.83e-03 -6.49e-04 -2.84e-03  8.01e-03
```

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## 104307  8.83e-04  4.42e-03 -4.37e-03 -1.59e-03 -8.80e-04  3.79e-04 -2.35e-03
## 119396 -1.87e-03 -1.58e-02  1.63e-02  9.34e-03  1.80e-03  1.83e-02 -4.41e-02
## 99430  -3.96e-03 -8.39e-03  8.78e-03 -5.29e-03  3.99e-03  4.07e-03  1.09e-02
## 91328  -3.86e-04  3.92e-04  3.33e-04 -3.82e-03  4.07e-04 -2.88e-03 -1.60e-03
## 31551   3.07e-03  3.68e-04 -9.67e-04  1.81e-03 -3.07e-03  2.59e-03 -5.11e-03
## 10644  -1.86e-02 -6.02e-04  3.99e-04 -1.00e-02  1.86e-02 -9.92e-03 -3.08e-03
## 126336  1.00e-02  3.44e-04 -1.18e-03  3.80e-03 -1.00e-02  3.65e-03 -3.86e-03
## 29062   4.21e-03  1.49e-02 -1.29e-02  8.60e-03 -4.28e-03  1.00e-03 -4.63e-03
## 30080  -7.36e-03 -5.09e-02  4.71e-02 -9.65e-03  7.38e-03  5.78e-03  1.02e-02
## 118194  4.28e-03  1.03e-02 -1.63e-02  3.12e-02 -4.47e-03  2.89e-02  8.91e-03
## 61968   2.27e-03 -4.01e-03  5.86e-03  4.85e-03 -2.31e-03  6.03e-03 -2.45e-03
## 110042  2.93e-03  9.20e-04 -1.43e-03  6.12e-03 -2.97e-03  6.64e-03 -3.94e-03
## 98720   4.71e-04  1.77e-03 -1.14e-03 -4.17e-03 -4.25e-04 -5.30e-03 -3.96e-03
## 2410   -9.52e-03 -1.06e-03  9.75e-04 -3.06e-03  9.52e-03 -1.81e-03 -1.43e-03
## 125618  1.25e-02 -2.84e-04  5.88e-05 -3.10e-03 -1.25e-02 -2.15e-03 -3.49e-03
## 22994  -1.47e-03 -9.20e-04  2.17e-03 -8.51e-03  1.52e-03 -7.97e-03 -1.96e-03
## 39519   4.39e-04 -1.15e-03  6.51e-04 -3.71e-03 -4.00e-04 -2.60e-03 -3.64e-03
## 25762   2.80e-03  4.70e-04 -8.85e-04  6.66e-03 -2.85e-03  7.64e-03 -3.60e-03
## 748    -2.30e-02  2.63e-03 -1.51e-03  1.18e-02  2.29e-02  1.19e-02  1.88e-02
## 21669   5.05e-03 -3.58e-03  3.38e-03  5.23e-03 -5.07e-03  2.10e-03  1.02e-02
## 111761  1.68e-04 -5.05e-03  7.48e-03  2.43e-02 -3.96e-04  2.99e-02  1.85e-02
## 46182   1.12e-05  8.51e-04 -1.21e-03 -1.27e-02  1.18e-04 -1.41e-02  1.49e-02
## 69039  -6.35e-03  3.96e-02 -3.71e-02 -4.46e-03  6.32e-03 -2.06e-02  7.79e-03
## 111733  2.38e-03 -1.61e-04  4.31e-04  3.27e-03 -2.40e-03  3.72e-03  7.18e-03
## 9916    1.19e-02  6.89e-03 -2.14e-03 -1.90e-04 -1.18e-02  3.64e-04  5.78e-04
## 24758  -3.06e-04 -4.69e-02  5.32e-02 -9.25e-03  3.81e-04 -2.58e-03 -1.40e-03
## 112727  5.25e-03  7.96e-03 -1.18e-02  2.92e-02 -5.39e-03  2.63e-02  7.76e-03
## 87922  -9.80e-04 -1.30e-03  1.20e-03 -6.36e-03  1.02e-03 -3.92e-03 -2.10e-03
## 33153  -1.40e-02 -2.43e-02  2.35e-02 -2.72e-02  1.42e-02 -3.14e-02  1.16e-02
## 129719  7.72e-03 -1.46e-03  1.24e-03  4.92e-03 -7.76e-03  7.10e-03  7.59e-03
## 17517   3.89e-03  2.00e-03 -2.28e-03  9.02e-03 -3.95e-03  7.09e-03 -4.99e-03
## 107430  7.08e-03 -1.25e-02  1.14e-02  1.33e-02 -7.14e-03  1.52e-02 -7.18e-03
## 129287  1.44e-02  1.26e-03 -1.61e-03  8.14e-03 -1.44e-02  7.62e-03 -4.88e-03
## 72042  -3.12e-03 -2.76e-03  5.80e-03 -1.43e-02  3.20e-03 -1.28e-02 -6.13e-04
## 99369  -4.61e-03 -2.08e-02  2.58e-02  8.78e-04  4.59e-03  1.79e-02  2.07e-02
## 76227   2.50e-03  1.45e-02 -1.63e-02 -5.45e-04 -2.49e-03 -7.76e-03  2.28e-02
## 26803   2.32e-03 -1.17e-02  1.08e-02 -5.38e-03 -2.24e-03 -9.62e-04 -5.57e-03
## 115589  2.76e-03  1.20e-02 -1.13e-02 -1.95e-03 -2.73e-03 -3.83e-03  1.65e-02
## 34865   2.06e-03  4.58e-03 -5.97e-03  1.99e-03 -2.06e-03 -5.58e-04 -5.89e-03
## 72342   2.25e-03  5.35e-03 -5.40e-03  2.67e-03 -2.28e-03  3.74e-03 -3.01e-03
## 11846  -4.03e-02 -2.10e-02  2.05e-02  1.52e-02  4.01e-02  1.76e-02 -7.59e-03
## 111281  5.78e-03 -2.71e-02  2.41e-02  1.55e-03 -5.70e-03  2.50e-03 -1.12e-02
## 8831   -8.59e-03 -9.44e-04  8.88e-04 -2.89e-03  8.59e-03 -2.01e-03 -1.53e-03
## 85010  -1.37e-03 -1.56e-02  1.47e-02 -1.51e-02  1.50e-03 -8.19e-03 -3.04e-03
## 102458  1.05e-02 -1.70e-02  2.08e-02  2.89e-02 -1.07e-02  3.11e-02  2.98e-02
## 8045   -2.82e-02 -1.92e-02  1.88e-02  2.17e-02  2.80e-02  2.31e-02  2.30e-02
## 60853   5.22e-03  3.45e-03  1.02e-03  8.58e-03 -5.24e-03 -6.62e-04 -5.26e-03
## 30789  -2.91e-03 -2.36e-02  2.83e-02  3.77e-03  2.84e-03  2.00e-02  1.70e-02
## 124070  1.78e-02  4.85e-03 -5.24e-03  9.65e-03 -1.78e-02  7.21e-03  1.57e-02
## 6565    1.15e-03  4.08e-04 -3.75e-04  1.65e-04 -1.15e-03 -1.37e-04 -7.44e-04
## 69282   2.45e-03  1.58e-04 -6.13e-04  3.52e-03 -2.47e-03  3.70e-03  6.23e-03
## 51622  -3.74e-04 -1.08e-03  8.75e-04 -5.76e-03  4.21e-04 -5.22e-03 -2.62e-03
## 117066  6.25e-05 -1.15e-03  1.48e-03 -6.24e-03 -7.38e-06 -7.16e-03 -4.36e-03
## 72189  -2.06e-04 -1.81e-03  1.69e-03 -2.59e-03  2.22e-04 -9.49e-04 -1.02e-03
## 19303  -1.62e-02 -2.37e-02  2.48e-02 -5.44e-02  1.66e-02 -3.61e-02  1.34e-02
## 62986   2.12e-03  6.58e-03 -8.89e-03  1.24e-02 -2.24e-03  1.73e-02  9.13e-04
## 100387  2.66e-04  4.57e-04  2.30e-04 -4.61e-03 -2.21e-04 -4.23e-03 -3.14e-03
## 22366  -1.42e-02 -2.73e-03  1.83e-03 -3.10e-02  1.44e-02 -2.57e-02  1.79e-02
## 30959   1.62e-03 -4.52e-04  2.71e-03  3.40e-03 -1.66e-03  4.75e-03 -8.34e-04
## 26996  -8.46e-04  4.90e-04 -4.46e-04 -7.21e-03  9.01e-04 -7.55e-03 -3.41e-03
## 86255   1.40e-03  2.44e-04  1.94e-04  2.20e-03 -1.41e-03  3.96e-03 -2.39e-03
## 34260  -7.55e-03 -3.15e-02  2.84e-02 -9.77e-03  7.68e-03 -1.06e-02 -5.63e-02
## 49096  -9.68e-04  1.44e-03 -1.86e-03 -1.25e-02  1.10e-03 -1.45e-02 -5.66e-03
## 40305  -3.42e-03 -1.91e-02  2.44e-02 -1.74e-02  3.56e-03 -1.38e-02 -5.05e-04
## 69397   3.24e-03  9.90e-04 -1.75e-03  5.24e-03 -3.26e-03  3.03e-03 -5.72e-03
## 63132  -1.37e-03 -1.02e-03  1.80e-03 -8.98e-03  1.41e-03 -6.28e-03  1.39e-02
## 40605   1.85e-03  5.04e-03 -6.65e-03  1.84e-03 -1.86e-03 -5.37e-04 -5.88e-03
## 95852  -6.07e-04 -1.03e-03  9.51e-04 -6.06e-03  6.58e-04 -5.14e-03 -2.32e-03
## 75194   3.70e-03  3.99e-02 -4.60e-02  2.20e-02 -3.86e-03  1.95e-02  3.05e-03
## 68743   3.50e-05 -8.89e-04  1.91e-03 -6.12e-03  2.28e-05 -6.76e-03 -3.63e-03
## 107054  3.89e-03  3.50e-02 -3.30e-02  1.40e-02 -4.02e-03  7.53e-03 -1.29e-03
## 120477 -4.93e-03  1.39e-02 -1.00e-02  2.97e-02  4.70e-03  2.40e-02 -5.11e-02
## 32614   2.30e-03  1.04e-02 -1.19e-02 -2.34e-03 -2.27e-03 -8.82e-03  1.66e-02
## 34558   7.02e-04  2.74e-03 -3.69e-03 -6.38e-03 -6.26e-04 -9.22e-03 -6.33e-03
## 125883 -5.84e-02  8.35e-03 -5.58e-03 -2.93e-02  5.87e-02 -4.47e-02  1.46e-02
## 13657  -2.84e-02 -1.39e-02  1.39e-02 -5.20e-03  2.84e-02 -1.37e-03  2.01e-02
## 94273   1.27e-04 -7.74e-04  7.34e-04 -1.05e-03 -1.19e-04 -4.81e-04  1.70e-03
## 38468   1.88e-03  1.00e-04 -7.01e-04  2.87e-03 -1.90e-03  2.91e-03 -3.23e-03
## 14952   2.13e-03  1.64e-04 -4.07e-04  4.41e-03 -2.17e-03  5.67e-03 -3.16e-03
## 89172   7.46e-05 -9.54e-04  6.49e-04 -3.51e-03 -4.95e-05 -2.82e-03 -2.66e-03
## 60609   5.28e-03  2.94e-02 -2.82e-02  1.37e-02 -5.39e-03  5.93e-03 -4.56e-03
## 32354   2.00e-03 -2.39e-02  2.23e-02 -5.39e-03 -1.93e-03  2.50e-03 -5.19e-03
## 128788  8.96e-03 -3.16e-03  2.87e-03 -3.46e-03 -8.94e-03  6.61e-04 -1.16e-03
## 96266  -6.01e-03 -3.14e-02  2.99e-02 -3.59e-02  6.33e-03 -2.67e-02 -2.98e-03
## 5814   -1.62e-02 -8.62e-03  1.05e-02 -3.73e-03  1.62e-02 -3.82e-04  1.16e-02
## 34538  -7.45e-03  9.84e-03 -1.09e-02 -1.51e-02  7.50e-03 -9.45e-03  6.92e-03
## 54445   5.37e-04 -1.14e-03  1.24e-03 -2.63e-03 -5.25e-04 -7.53e-04  1.06e-02
## 19652   1.25e-03  2.55e-03 -3.30e-03 -1.73e-03 -1.22e-03 -3.80e-03 -5.07e-03
## 66467   7.72e-04 -3.03e-03  2.64e-03 -6.42e-04 -7.61e-04  1.78e-03 -2.14e-03
## 83623   4.24e-03  3.15e-02 -3.72e-02  2.50e-02 -4.47e-03  2.44e-02  3.41e-03
## 17227   5.93e-04 -9.51e-04  5.54e-04 -3.76e-03 -5.47e-04 -2.88e-03 -3.73e-03
## 55998   3.21e-03  9.40e-04 -1.48e-03  6.05e-03 -3.24e-03  5.96e-03 -4.40e-03
## 85952   7.95e-04  6.25e-05  1.47e-03  1.07e-03 -8.17e-04  2.47e-03 -1.05e-03
## 128684  1.59e-02  1.41e-03 -2.16e-03  9.55e-03 -1.60e-02  1.07e-02 -3.53e-03
## 20207   1.84e-03  4.33e-04 -2.23e-04  1.28e-03 -1.86e-03 -2.34e-03 -5.56e-03
## 34247  -3.10e-02 -4.12e-02  4.49e-02 -8.26e-02  3.16e-02 -5.77e-02 -3.62e-02
## 50137  -2.87e-04 -2.08e-03  1.37e-03 -5.77e-03  3.36e-04 -5.11e-03 -3.05e-03
## 95790   5.86e-04  4.21e-04 -8.86e-05  8.69e-04 -5.97e-04  1.68e-03 -7.53e-04
```

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## 14080   8.79e-02  4.19e-03 -6.13e-03  2.06e-02 -8.79e-02  1.64e-02  2.03e-02
## 17077  -6.90e-03  8.06e-03 -9.20e-03 -6.99e-03  6.98e-03 -5.77e-03  1.63e-02
## 50513   1.86e-03 -3.24e-04  3.52e-04  3.38e-03 -1.89e-03  3.52e-03 -2.75e-03
## 106571 -7.48e-03 -2.62e-04 -4.07e-03 -2.25e-02  7.71e-03 -3.03e-02  4.76e-03
## 67746   8.80e-04  1.77e-03 -6.70e-04  1.70e-03 -9.06e-04  2.90e-03  6.34e-03
## 83979   3.07e-04  4.54e-03 -5.79e-03 -7.81e-04 -3.14e-04 -1.91e-03 -3.89e-03
## 59168   4.69e-03 -2.69e-02  3.17e-02  4.18e-03 -4.70e-03  9.37e-03  2.74e-02
## 82567   4.16e-04 -1.58e-03  1.31e-03 -1.84e-04 -4.18e-04  1.10e-03 -1.23e-03
## 118444  1.22e-02  1.35e-02 -1.41e-02  2.75e-02 -1.24e-02  1.39e-02  2.06e-02
## 93788  -1.92e-05 -1.54e-04 -7.77e-04 -9.11e-03  9.77e-05 -9.98e-03  1.01e-02
## 66647  -3.97e-03 -4.28e-03  4.90e-03 -9.51e-03  4.11e-03 -8.72e-03  9.69e-03
## 111294  2.01e-03 -6.95e-05 -2.05e-04  2.60e-04 -2.00e-03 -1.58e-03 -5.31e-03
## 5438   -1.01e-02 -4.22e-04 -6.80e-05 -4.30e-04  1.01e-02 -1.84e-04 -3.26e-03
## 72152   2.15e-03  5.10e-04  4.07e-05  6.33e-03 -2.21e-03  8.52e-03 -1.96e-03
## 77727   4.41e-04  5.32e-04 -2.34e-04  7.01e-04 -4.50e-04  1.10e-03  2.16e-03
## 118735 -1.79e-02  1.54e-02 -1.51e-02 -5.40e-02  1.83e-02 -5.22e-02  9.11e-03
## 28522   2.91e-03  4.25e-03 -5.42e-03  1.61e-03 -2.88e-03 -1.91e-03 -7.20e-03
## 73734   8.71e-04 -3.82e-04 -7.57e-04 -6.47e-03 -8.08e-04 -8.16e-03  6.09e-03
## 38197  -2.50e-04 -2.91e-04  5.22e-04 -4.40e-03  2.81e-04 -3.60e-03 -2.12e-03
## 95596  -1.05e-02  8.38e-04  1.06e-03 -1.33e-02  1.06e-02 -1.55e-02  1.98e-02
## 18693   1.87e-03  9.18e-05 -7.35e-04  4.70e-03 -1.91e-03  5.60e-03 -2.80e-03
## 75933  -9.06e-03  2.39e-03 -3.03e-03 -7.17e-03  9.01e-03  1.71e-03  1.31e-02
## 119029  6.78e-04 -6.55e-04  3.85e-04  1.54e-03 -6.94e-04  2.14e-03 -1.04e-03
## 91041   1.72e-03  3.59e-05 -4.37e-04  1.94e-03 -1.73e-03  1.79e-03 -3.15e-03
## 111662 -5.11e-04 -1.19e-03  9.58e-04 -5.96e-03  5.62e-04 -5.34e-03 -2.53e-03
## 92963   4.29e-03  2.29e-02 -2.17e-02  8.70e-03 -4.37e-03  5.00e-03  1.71e-02
## 13293   7.20e-02 -1.15e-01  1.05e-01 -2.19e-02 -7.16e-02  1.89e-03 -5.78e-02
## 35786   4.23e-04  3.84e-04 -2.91e-04 -3.18e-03 -3.94e-04 -3.85e-03 -3.91e-03
## 6256   -1.08e-02  2.50e-03 -3.15e-03  4.23e-03  1.07e-02  2.92e-03  6.81e-03
## 9439    9.20e-02  6.73e-05 -6.44e-03  5.05e-03 -9.18e-02 -1.29e-02 -6.57e-02
## 28467  -5.93e-04 -1.80e-02  1.72e-02 -1.78e-02  7.81e-04 -1.15e-02 -4.99e-03
## 114025 -1.60e-04 -2.55e-03  2.98e-03 -7.65e-03  2.00e-04 -6.94e-03  1.37e-02
## 87226   2.91e-03  7.18e-03 -8.61e-03 -4.01e-04 -2.86e-03 -7.45e-03 -9.03e-03
## 23554  -1.57e-04 -6.97e-03  6.46e-03 -1.22e-02  2.77e-04 -9.19e-03 -4.49e-03
## 56172   1.29e-04  6.55e-04 -2.20e-03  2.76e-02 -4.31e-04  3.22e-02 -3.64e-02
## 56065   7.93e-05  8.59e-04 -2.89e-04  7.40e-05 -9.66e-05  1.77e-03 -2.52e-04
## 120817  2.33e-03  8.11e-03 -5.78e-03  2.75e-02 -2.51e-03  2.03e-02  1.37e-02
## 26217   5.35e-04 -5.82e-03  8.60e-03 -5.24e-04 -5.50e-04  1.75e-03 -1.04e-03
## 8422   -1.18e-02 -3.63e-04  4.83e-04  2.32e-03  1.17e-02  3.36e-03  8.56e-03
## 87950   2.50e-03  9.77e-04 -6.89e-04  2.64e-03 -2.50e-03 -1.17e-03 -6.07e-03
## 52221   1.09e-03 -6.95e-04  7.98e-04 -1.87e-03 -1.07e-03 -1.13e-03  7.77e-03
## 106194  3.97e-03  4.02e-03 -4.05e-03  9.04e-03 -4.02e-03  4.42e-03 -6.26e-03
## 12709  -2.26e-02 -6.85e-03  6.71e-03 -1.13e-02  2.27e-02 -8.19e-03 -3.94e-03
## 60818   4.06e-03  4.05e-03 -5.13e-03  8.62e-03 -4.14e-03  7.10e-03  1.35e-02
## 29562   2.47e-03  4.48e-04 -1.02e-03  4.28e-03 -2.50e-03  4.89e-03 -3.87e-03
## 32209   1.54e-03 -1.35e-02  1.66e-02 -4.57e-03 -1.47e-03 -4.66e-03 -4.71e-03
## 23967  -7.83e-03  1.05e-03 -1.04e-03 -8.98e-03  7.87e-03 -2.07e-02  6.95e-03
## 86249   2.12e-03  3.15e-03 -4.50e-03  2.69e-04 -2.10e-03 -2.75e-03 -6.09e-03
## 27148   2.42e-03 -3.41e-04  1.21e-04  3.74e-03 -2.45e-03  4.23e-03  6.98e-03
## 84172  -2.81e-04  6.32e-03 -6.13e-03 -7.91e-03  3.49e-04 -7.22e-03 -3.04e-03
## 79057  -1.75e-03 -3.51e-02  3.87e-02 -5.99e-03  1.80e-03  1.35e-02  1.00e-02
## 120535  1.77e-03  1.33e-03 -2.77e-03 -1.44e-03 -1.77e-03 -2.76e-03  1.06e-02
## 93084  -4.87e-04  8.50e-04 -1.25e-03 -1.17e-02  6.13e-04 -1.39e-02 -6.21e-03
## 118832 -1.30e-02 -2.40e-02  1.82e-02 -4.26e-02  1.33e-02 -3.26e-02  4.30e-03
## 50258   5.15e-04 -1.43e-03  1.74e-03 -6.29e-03 -4.56e-04 -4.40e-03  1.35e-02
## 61987   1.01e-03 -3.17e-03  2.99e-03 -3.05e-04 -1.01e-03  3.59e-03 -1.43e-03
## 14501  -4.91e-04 -7.18e-04  8.61e-04 -4.39e-03  5.12e-04 -2.11e-03 -2.00e-03
## 34469   1.15e-03 -6.28e-04  8.15e-04  2.46e-03 -1.18e-03  4.19e-03  5.59e-03
## 55360  -3.17e-03  5.26e-02 -6.19e-02 -6.85e-03  3.28e-03 -1.89e-02  1.01e-04
## 82026   7.88e-04  6.57e-03 -8.04e-03 -1.45e-03 -7.85e-04 -6.75e-03 -6.45e-03
## 45186  -1.65e-03 -9.93e-03  1.33e-02 -1.60e-02  1.80e-03 -1.67e-02 -3.90e-03
## 125901  1.61e-02 -8.45e-03  7.59e-03 -1.29e-02 -1.60e-02 -6.88e-03 -1.52e-03
## 65830   2.33e-04 -1.01e-03  5.98e-04 -2.80e-03 -2.12e-04 -9.57e-04 -2.92e-03
## 82954   3.42e-03  1.50e-02 -1.76e-02  9.03e-03 -3.50e-03 -2.84e-03 -9.52e-03
## 85922   1.71e-03  1.61e-02 -1.56e-02  1.96e-04 -1.71e-03 -7.88e-04 -2.84e-03
## 117793 -1.49e-02 -1.04e-02  1.20e-02 -2.13e-02  1.50e-02 -1.52e-02 -4.76e-02
## 30291  -9.06e-03  2.01e-02 -1.86e-02 -1.99e-02  9.15e-03 -2.00e-02  7.59e-03
## 6597   -3.77e-03 -8.45e-04  7.83e-04 -3.45e-04  3.76e-03  3.87e-04 -9.42e-04
## 125735  1.20e-02 -3.67e-03  3.13e-03  5.81e-03 -1.20e-02  1.01e-02  1.30e-02
## 25871   5.38e-04 -5.05e-04  4.40e-04  6.08e-04 -5.45e-04  1.31e-03 -9.90e-04
## 19282   6.97e-03  4.43e-02 -4.02e-02  2.02e-02 -7.11e-03  7.76e-03 -3.20e-03
## 13506  -1.25e-02 -1.26e-03  1.85e-03  1.66e-03  1.24e-02  3.19e-03 -2.23e-03
## 70011   3.51e-03 -8.19e-04 -2.77e-04  2.81e-02 -3.80e-03  3.70e-02  6.09e-03
## 51775  -2.82e-03  1.91e-02 -1.74e-02  1.62e-02  2.66e-03  7.28e-03  1.11e-02
## 129115  1.19e-02  3.49e-02 -3.38e-02  8.88e-03 -1.19e-02  1.83e-03 -1.99e-03
## 84767  -6.56e-04  4.36e-04  1.81e-04 -5.88e-03  7.03e-04 -5.31e-03 -1.79e-03
## 58843   3.59e-04 -9.94e-04  8.63e-04 -1.25e-04 -3.62e-04  9.93e-04 -1.06e-03
## 59788   2.22e-03  3.73e-04 -5.54e-04  4.25e-03 -2.25e-03  4.27e-03 -2.98e-03
## 57794   6.03e-04  1.27e-04  1.03e-04 -2.29e-03 -5.85e-04 -2.86e-03 -3.75e-03
## 56766   3.75e-03 -2.28e-02  2.19e-02  3.32e-03 -3.75e-03  1.28e-02 -3.22e-03
## 70003  -1.32e-04  5.26e-02 -4.98e-02 -3.38e-03  1.51e-04 -1.49e-02 -1.88e-03
## 91692   2.56e-04 -4.65e-04  4.97e-04 -1.83e-03 -2.48e-04 -7.31e-04 -2.17e-03
## 14326  -4.43e-03  1.47e-02 -1.34e-02  7.07e-04  4.43e-03 -9.23e-03  7.36e-03
## 46163   8.54e-03 -2.59e-02  2.13e-02  1.80e-02 -8.65e-03  1.92e-02 -1.17e-02
## 3810   -1.59e-02  3.09e-04 -6.21e-04 -2.04e-03  1.58e-02 -1.87e-03  1.03e-02
## 20069   4.55e-04  6.20e-04 -1.31e-03 -5.06e-03 -4.08e-04 -6.81e-03 -5.14e-03
## 19529   2.82e-03 -2.14e-02  2.01e-02 -7.85e-03 -2.73e-03 -1.22e-03  1.64e-02
## 127222  3.59e-02 -1.25e-02  1.25e-02 -6.64e-03 -3.57e-02 -1.72e-02 -1.02e-02
## 103818  1.12e-02 -2.63e-04 -3.60e-03  2.26e-02 -1.13e-02  1.59e-02  6.03e-03
## 12786  -5.73e-03 -1.25e-03  1.11e-03  5.95e-04  5.71e-03  1.78e-03 -1.30e-03
## 86361   2.31e-03  3.11e-05 -8.93e-05  3.16e-03 -2.33e-03  3.50e-03  6.42e-03
## 6249   -1.35e-02 -1.30e-03  1.88e-03 -5.37e-03  1.36e-02 -5.75e-03 -3.18e-03
## 97011   1.69e-03  8.81e-04 -1.44e-05  5.47e-03 -1.75e-03  8.09e-03 -6.95e-04
## 114274 -8.61e-03 -6.87e-03  8.99e-03  7.99e-03  8.51e-03  1.49e-02 -4.69e-02
## 5416   -1.75e-02  1.61e-02 -1.59e-02 -2.91e-03  1.75e-02 -5.52e-03 -3.19e-03
## 65834   2.30e-03  1.64e-02 -1.62e-02  5.45e-03 -2.35e-03  2.60e-03 -2.72e-03
## 75176  -4.44e-04  5.70e-03 -6.16e-03 -1.27e-02  5.78e-04 -2.27e-02 -9.17e-03
## 12202  -2.31e-02 -1.76e-03  2.23e-03  3.91e-04  2.30e-02 -1.66e-03 -5.22e-03
```

```
## 95047   7.28e-03  1.63e-02 -1.55e-02  3.85e-02 -7.64e-03  4.04e-02  4.03e-03
## 110017  1.73e-03 -1.84e-04  1.89e-04  3.07e-03 -1.75e-03  3.28e-03 -2.64e-03
## 58882   6.75e-05 -9.98e-04  9.33e-04 -1.56e-03 -5.46e-05 -7.89e-04 -9.63e-04
## 3460    7.62e-02 -1.04e-02  1.51e-02 -5.51e-03 -7.59e-02 -4.78e-04  2.05e-02
## 121200  7.31e-04 -1.04e-03  1.01e-03 -2.92e-03 -7.05e-04 -1.90e-03  7.81e-03
## 34308   8.68e-04 -3.82e-04  3.18e-04  1.71e-03 -8.81e-04  2.26e-03 -1.04e-03
## 24978   3.46e-03  1.21e-02 -1.12e-02  1.84e-03 -3.45e-03 -2.77e-03 -5.57e-03
## 18204   1.61e-02  6.00e-03 -2.17e-03  3.90e-02 -1.63e-02  3.27e-02  3.23e-02
## 51950   1.75e-04  7.37e-04  4.92e-05 -3.16e-03 -1.50e-04 -3.01e-03 -1.95e-03
## 22510   2.14e-03 -2.09e-03  1.57e-03  5.11e-03 -2.18e-03  7.50e-03 -2.27e-03
## 74145   1.20e-04  7.73e-05  9.34e-05 -1.13e-03 -1.15e-04 -5.53e-04  2.65e-03
## 51394   1.01e-03 -1.71e-03  1.45e-03  1.11e-03 -1.02e-03  2.53e-03  4.17e-03
## 126606  1.29e-02 -6.71e-04 -6.99e-04  1.10e-03 -1.28e-02  5.52e-04 -5.69e-03
## 87141   6.56e-04 -8.32e-04  6.59e-04  8.65e-04 -6.61e-04  1.53e-03 -1.07e-03
## 61663  -1.36e-02 -1.14e-02  1.05e-02 -2.44e-02  1.37e-02 -2.01e-02 -4.82e-02
## 5401   -5.34e-03 -7.99e-04  6.88e-04 -1.80e-03  5.34e-03 -1.34e-03  3.13e-03
## 55294   7.85e-04  2.23e-03 -3.28e-03 -7.89e-04 -7.89e-04 -2.06e-03 -4.42e-03
## 87499   8.85e-04  1.94e-03 -7.52e-04  3.51e-03 -9.35e-04  6.25e-03 -1.54e-04
## 4411   -2.54e-02 -9.03e-03  8.34e-03 -1.29e-02  2.55e-02 -1.25e-02 -7.70e-03
## 53618   2.02e-03  6.68e-03 -4.57e-03  2.15e-02 -2.17e-03  1.41e-02  9.68e-03
## 44815   3.94e-04  6.23e-04 -3.78e-04  6.52e-04 -4.04e-04  1.05e-03 -5.97e-04
## 27670   6.78e-03 -1.16e-02  1.04e-02  1.40e-02 -6.86e-03  1.61e-02 -6.77e-03
## 64447   5.63e-04 -5.73e-04  5.12e-04  4.99e-04 -5.66e-04  1.11e-03 -9.95e-04
## 90832   8.57e-04  3.64e-04 -2.15e-04 -2.00e-04 -8.68e-04 -5.99e-04 -3.40e-03
## 63048  -3.47e-04 -9.48e-04  8.14e-04 -4.33e-03  3.72e-04 -3.03e-03 -2.14e-03
## 75468   4.64e-03 -4.07e-03  4.72e-03  5.51e-03 -4.63e-03  1.99e-03 -5.44e-03
## 114155  2.17e-04  9.99e-04 -5.68e-04 -6.18e-03 -1.61e-04 -1.01e-02 -5.45e-03
## 129080 -4.89e-02 -3.03e-04  3.18e-03 -2.01e-02  4.91e-02 -2.59e-02  1.04e-02
## 21679  -3.86e-03  5.78e-03 -5.93e-03 -3.37e-03  3.84e-03 -8.98e-04  5.77e-03
## 110471  6.99e-03  1.47e-02 -1.63e-02  1.37e-02 -7.04e-03  3.50e-04 -1.21e-02
## 18707   1.52e-03  3.79e-04 -3.38e-06  2.79e-03 -1.55e-03  2.90e-03 -3.67e-03
## 116683  5.87e-04 -8.78e-04  7.81e-04  9.97e-04 -5.99e-04  2.30e-03 -1.01e-03
## 118988  1.15e-03 -1.70e-03  1.48e-03  2.08e-03 -1.17e-03  4.55e-03 -1.85e-03
## 19213   3.20e-03  7.64e-03 -7.68e-03  3.15e-03 -3.21e-03  1.92e-03 -4.95e-03
## 73482  -8.31e-04  6.18e-04  3.92e-04 -4.41e-03  8.43e-04 -2.94e-03 -1.02e-03
## 12692  -1.23e-02 -9.07e-04  1.01e-03 -2.96e-03  1.23e-02 -1.96e-03 -2.57e-03
## 64661   3.23e-04 -7.71e-04  6.94e-04 -5.26e-03 -2.60e-04 -4.57e-03 -3.62e-03
## 23299   1.70e-03 -1.16e-03  2.57e-04  9.51e-04 -1.71e-03  2.05e-03  8.57e-03
## 104394  1.35e-03 -5.98e-04  7.10e-04  3.55e-03 -1.39e-03  6.04e-03 -1.47e-03
## 37864   2.01e-03  4.23e-04  3.16e-04  8.08e-03 -2.10e-03  1.14e-02 -4.76e-04
## 106688  5.48e-03 -1.71e-02  1.53e-02  7.62e-03 -5.51e-03  1.26e-02 -6.63e-03
## 66335   3.19e-04  1.27e-02 -1.25e-02 -4.18e-03 -2.86e-04 -5.93e-03 -2.65e-03
## 10145   8.71e-02  5.14e-03 -5.46e-03  1.90e-02 -8.72e-02  1.45e-02  1.96e-02
## 51889   3.61e-03  1.44e-03 -1.08e-03  2.67e-03 -3.58e-03 -2.42e-03 -7.51e-03
## 73578   3.19e-03  9.01e-04 -1.53e-03  5.96e-03 -3.21e-03  5.85e-03 -4.49e-03
## 42799  -5.13e-03 -2.04e-02  1.94e-02 -6.69e-03  5.19e-03 -8.44e-03  6.45e-03
## 92725  -4.78e-03 -1.49e-02  1.48e-02  1.72e-03  4.76e-03  7.64e-04  9.56e-03
## 51120   1.93e-03 -6.07e-05  3.70e-04  4.36e-03 -1.97e-03  5.16e-03 -2.30e-03
## 14789   3.28e-04  1.20e-03 -1.50e-03 -5.60e-03 -2.73e-04 -7.35e-03 -4.69e-03
## 92297   1.94e-03 -1.56e-03  1.37e-03  3.24e-03 -1.97e-03  5.19e-03  6.44e-03
## 66104  -3.67e-04  2.67e-02 -2.55e-02  3.96e-02 -3.19e-05  3.41e-02 -4.29e-02
## 109185  2.06e-02 -2.61e-02  2.38e-02  5.68e-02 -2.09e-02  5.07e-02 -1.33e-02
## 95874   2.63e-05 -1.86e-03  1.07e-03 -5.19e-03  1.76e-05 -3.91e-03 -3.75e-03
## 66356   5.87e-04  2.45e-03 -4.07e-03 -3.62e-03 -5.55e-04 -5.71e-03 -5.45e-03
## 39712  -3.51e-03 -1.23e-02  1.27e-02 -5.28e-03  3.52e-03  4.15e-03  1.05e-02
## 71301   1.14e-03 -4.70e-05  6.83e-04  1.60e-03 -1.17e-03  2.57e-03 -1.91e-03
## 99765   4.53e-03 -1.54e-02  1.81e-02  3.69e-02 -4.87e-03  5.70e-02  1.79e-02
## 4019   -3.31e-02  3.56e-03 -3.85e-03 -9.85e-03  3.32e-02 -1.29e-02 -5.42e-03
## 82823   2.18e-03  3.90e-02 -3.70e-02  2.75e-02 -2.39e-03  1.48e-03  5.52e-03
## 115431  3.03e-03  5.36e-04 -1.78e-03  7.21e-03 -3.09e-03  7.84e-03 -4.30e-03
## 77642   6.75e-04 -5.02e-04  2.95e-04 -1.50e-03 -6.63e-04 -1.04e-03 -2.72e-03
## 43350   7.78e-04 -1.54e-04  3.87e-04 -2.23e-03 -7.57e-04 -1.41e-03 -3.23e-03
## 101969  2.95e-03 -6.35e-04  1.97e-03  4.98e-03 -2.99e-03  7.26e-03  1.47e-02
## 43187   1.99e-04 -2.86e-02  2.75e-02 -1.89e-02  6.76e-05 -2.95e-02 -1.03e-02
## 43536   1.53e-03 -7.51e-03  7.54e-03 -6.12e-03 -1.47e-03 -1.23e-03  1.37e-02
## 77114  -4.06e-03 -4.80e-03  2.60e-03 -4.62e-04  4.08e-03 -9.41e-03 -5.28e-02
## 88125   6.01e-04  1.03e-03 -9.85e-04 -2.65e-03 -5.72e-04 -3.33e-03 -4.45e-03
## 18624   2.93e-03  2.44e-04 -1.20e-03  4.12e-03 -2.94e-03  3.66e-03 -4.98e-03
## 43661   6.15e-04 -3.69e-04  3.79e-04  9.66e-04 -6.23e-04  1.69e-03 -9.10e-04
## 72593   1.18e-03  8.70e-03 -8.46e-03  2.21e-02 -1.42e-03  2.99e-02  8.88e-03
## 2742    5.22e-04  1.61e-04 -1.33e-04 -1.18e-04 -5.19e-04 -2.62e-04 -3.57e-04
## 32760  -5.47e-03 -8.84e-03  8.74e-03  1.14e-02  5.32e-03  2.33e-02 -4.03e-02
## 61821  -1.59e-03  3.52e-04 -3.11e-03  1.16e-02  1.42e-03  1.95e-02  1.12e-02
## 97057   3.07e-03  6.10e-03 -5.68e-03 -2.91e-03 -3.01e-03 -9.99e-03 -8.15e-03
## 73792   2.11e-03 -3.80e-04  6.13e-04  2.94e-03 -2.13e-03  3.62e-03  6.85e-03
## 31541   8.17e-04 -1.84e-03  1.76e-03  1.35e-03 -8.36e-04  4.40e-03 -1.43e-03
## 113095  2.09e-03  3.33e-04 -4.97e-04  3.81e-03 -2.11e-03  3.85e-03 -2.93e-03
## 11902  -2.31e-02 -1.01e-02  9.55e-03 -4.34e-03  2.31e-02  3.13e-04 -3.83e-03
## 91268   9.55e-04  1.03e-04  6.80e-04  2.69e-03 -9.95e-04  5.36e-03 -1.27e-03
## 104302  4.21e-03 -5.70e-03  7.87e-03  8.55e-03 -4.29e-03  1.05e-02  1.74e-02
## 44103  -4.24e-03 -3.23e-02  2.99e-02 -2.70e-02  4.46e-03 -1.76e-02 -4.04e-03
## 59624  -1.42e-03 -1.33e-02  1.21e-02 -1.98e-02  1.61e-03 -1.75e-02 -6.02e-03
## 100881 -9.74e-03 -1.20e-01  1.15e-01 -2.20e-03  9.79e-03  1.68e-02 -6.03e-02
## 1914   -1.14e-02  4.23e-03 -5.26e-03  1.76e-02  1.12e-02  1.26e-02 -7.92e-03
## 104710  1.01e-02 -4.20e-03  4.95e-03  2.98e-02 -1.03e-02  2.74e-02 -5.79e-03
## 18247   1.32e-02 -4.49e-03  4.05e-03  3.04e-02 -1.34e-02  2.40e-02 -1.21e-02
## 27922   1.13e-02  7.51e-03 -4.88e-03  3.58e-02 -1.16e-02  3.01e-02 -4.82e-03
## 2173    2.92e-03  7.19e-04 -6.23e-04  2.99e-04 -2.92e-03 -1.85e-04  9.20e-04
## 9013   -8.55e-03 -9.89e-04  7.70e-04 -2.87e-03  8.56e-03 -2.11e-03 -1.74e-03
## 60130  -9.11e-03 -1.64e-02  1.71e-02 -2.41e-02  9.27e-03 -1.18e-02  1.21e-02
## 117513  9.78e-04  1.27e-03 -2.32e-03 -6.20e-03 -8.95e-04 -8.89e-03 -7.13e-03
## 80988   3.29e-04 -1.40e-03  1.36e-03 -5.50e-03 -2.78e-04 -4.99e-03  6.64e-03
## 79815   3.70e-03  1.80e-03 -1.02e-03  9.91e-03 -3.77e-03  9.03e-03 -3.67e-03
## 50814   6.48e-04 -5.02e-04  4.18e-04 -2.36e-03 -6.27e-04 -1.21e-03 -3.17e-03
## 28941   1.70e-03  1.40e-03 -1.97e-03 -1.39e-03 -1.68e-03 -3.78e-03 -5.49e-03
## 21040   2.02e-03 -6.20e-05 -3.98e-04  3.71e-03 -2.05e-03  3.59e-03 -3.14e-03
## 69966   7.58e-04 -2.09e-04  2.97e-04  1.45e-03 -7.74e-04  2.37e-03 -9.70e-04
## 89650  -9.48e-04 -1.59e-03  1.33e-03 -7.00e-03  1.00e-03 -5.67e-03 -2.28e-03
```

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## 47965   2.03e-03  3.59e-03 -3.46e-03  5.13e-03 -2.08e-03  7.89e-03 -8.54e-04
## 45989  -1.39e-03  2.16e-03 -2.20e-03 -1.50e-02  1.52e-03 -1.41e-02 -3.69e-03
## 58913   2.34e-03  2.92e-03 -3.48e-03  3.06e-03 -2.35e-03  1.04e-03 -4.94e-03
## 48382  -1.66e-03  6.18e-03 -3.87e-03  2.34e-02  1.40e-03  2.00e-02  1.88e-02
## 21906   1.07e-02 -1.49e-02  1.38e-02  3.15e-02 -1.09e-02  3.18e-02 -6.71e-03
## 39893   3.16e-03  7.86e-04 -5.60e-04  8.27e-03 -3.22e-03  7.69e-03 -3.88e-03
## 117087 -6.16e-04 -4.13e-03  3.35e-03 -1.06e-02  7.04e-04 -8.14e-03  1.22e-02
## 36758   3.31e-03  7.34e-03 -8.48e-03 -2.25e-03 -3.26e-03 -8.98e-03  1.15e-02
## 40987   1.99e-03  7.38e-05  6.43e-04  2.95e-03 -2.01e-03  3.90e-03 -3.04e-03
## 36504   1.59e-03  6.44e-05  1.66e-04  2.65e-03 -1.61e-03  3.28e-03 -2.38e-03
## 39522  -9.20e-03  1.68e-02 -1.59e-02 -1.73e-02  9.23e-03 -1.21e-02  9.56e-03
## 55771   3.13e-04  1.03e-02 -1.19e-02  1.82e-02 -5.31e-04  2.81e-02  7.87e-03
## 32311  -7.72e-03 -4.98e-04 -1.42e-04 -5.81e-03  7.77e-03 -8.94e-03  1.53e-02
## 13882   2.10e-03  6.43e-04 -5.10e-04 -1.52e-04 -2.09e-03 -5.87e-04  6.79e-04
## 76903   5.58e-03 -1.37e-02  1.24e-02  8.93e-03 -5.61e-03  1.17e-02 -6.62e-03
## 30768  -4.28e-04 -1.72e-03  1.21e-03 -6.39e-03  4.77e-04 -4.85e-03 -3.30e-03
## 101918  2.62e-03  1.99e-03 -2.55e-03  6.39e-04 -2.62e-03 -1.03e-03  1.13e-02
## 78399   1.48e-03 -1.03e-02  1.36e-02  3.26e-03 -1.53e-03  6.87e-03 -7.58e-04
## 27891   2.93e-03  1.05e-03 -1.80e-03  7.86e-03 -3.00e-03  8.99e-03 -3.34e-03
## 84302   4.79e-04  4.39e-04 -1.92e-05 -2.53e-03 -4.64e-04 -2.99e-03 -3.77e-03
## 122932  3.60e-03  4.68e-03 -6.17e-03  1.02e-02 -3.69e-03  8.03e-03 -5.33e-03
## 1483   -1.18e-02  8.52e-03 -8.03e-03 -1.95e-03  1.17e-02 -2.33e-03 -1.62e-03
## 121844  7.28e-04  5.51e-03 -5.91e-03 -4.34e-03 -6.82e-04 -9.83e-03 -6.19e-03
## 22820   1.50e-03  7.69e-03 -1.28e-02  3.07e-02 -1.76e-03  3.18e-02  1.45e-02
## 93640  -7.17e-03 -4.75e-02  4.63e-02  2.67e-03  7.10e-03  1.41e-02  1.57e-02
## 67499   4.28e-04  1.72e-03 -9.38e-04  1.04e-03 -4.46e-04  1.94e-03 -2.87e-04
## 104550 -1.21e-02 -1.58e-02  1.68e-02 -2.42e-02  1.21e-02 -8.84e-03  1.86e-02
## 32739   3.69e-03 -4.92e-03  5.94e-03  6.85e-03 -3.74e-03  4.43e-03 -5.68e-03
## 54561  -3.80e-03  2.39e-02 -2.00e-02 -2.77e-02  4.07e-03 -4.28e-02 -6.34e-03
## 4594   -1.02e-02 -3.09e-03  2.26e-03 -1.63e-03  1.02e-02 -2.03e-03 -5.14e-03
## 24323   3.35e-03  1.23e-03 -2.02e-03  7.42e-03 -3.40e-03  7.64e-03 -4.16e-03
## 18984   4.53e-03  2.88e-03 -3.53e-03  9.14e-03 -4.60e-03  7.49e-03  1.21e-02
## 87319   5.52e-03  2.18e-02 -2.04e-02  1.30e-02 -5.61e-03  6.23e-03 -5.09e-03
## 25085  -6.86e-03  1.95e-02 -2.18e-02 -5.50e-03  6.85e-03  4.02e-03  1.46e-02
## 8370   -2.08e-02  7.53e-04 -1.22e-03 -1.17e-02  2.08e-02 -1.26e-02  1.16e-02
## 20103   1.85e-03 -6.77e-05  7.57e-04  4.17e-03 -1.89e-03  5.12e-03 -1.98e-03
## 53537  -5.29e-03  5.94e-02 -5.55e-02  1.44e-02  5.08e-03 -4.75e-03  1.42e-02
## 30911  -2.02e-02 -1.28e-02  1.37e-02 -6.78e-02  2.07e-02 -5.59e-02  1.47e-02
## 73626   3.50e-03  2.37e-04  1.87e-05  8.38e-03 -3.57e-03  5.10e-03 -5.59e-03
## 97518   1.18e-03 -6.38e-04 -6.62e-05  2.33e-03 -1.21e-03  3.53e-03 -2.68e-03
## 123941  1.22e-02  2.08e-03 -3.29e-03 -8.00e-03 -1.21e-02 -1.02e-02 -5.11e-03
## 105526  2.11e-03 -4.68e-03  6.58e-03  2.21e-03 -2.11e-03  2.92e-03 -3.17e-03
## 41547  -4.89e-05 -7.70e-05  4.73e-05 -8.46e-05  5.02e-05 -1.19e-04 -2.12e-04
## 96078   6.16e-03  6.81e-03 -1.45e-02  4.70e-02 -6.52e-03  4.76e-02  1.12e-02
## 114395 -1.41e-02  1.74e-02 -1.64e-02 -4.25e-02  1.43e-02 -3.92e-02  7.15e-03
## 36596  -6.59e-05  4.65e-02 -5.56e-02  1.64e-02 -6.86e-05  9.53e-03  6.42e-03
## 108901  1.47e-02 -1.73e-02  1.90e-02  2.99e-02 -1.48e-02  2.51e-02  3.09e-02
## 123112  2.26e-03  3.32e-02 -4.16e-02  1.23e-02 -2.34e-03  5.08e-03 -1.22e-03
## 79487   1.72e-03  2.58e-02 -2.55e-02  1.17e-03 -1.73e-03 -5.29e-03 -4.67e-03
## 30290   2.22e-03  3.09e-03 -4.36e-03  1.56e-03 -2.21e-03 -1.13e-03 -5.82e-03
## 58788   4.21e-05 -6.25e-04  5.64e-04 -1.25e-03 -3.37e-05 -6.26e-04 -8.53e-04
## 33587  -8.62e-05 -3.01e-03  4.26e-03 -4.40e-03  1.06e-04 -3.83e-03 -2.88e-03
## 77218  -2.74e-03 -3.32e-02  3.95e-02 -2.97e-02  3.01e-03 -2.69e-02  2.85e-02
## 38341   1.81e-03  2.50e-03 -2.93e-03 -6.83e-03 -1.72e-03 -9.25e-03  1.47e-02
## 108541  1.96e-03  1.38e-04 -9.70e-04  5.05e-03 -2.00e-03  5.94e-03 -2.90e-03
## 77431  -5.05e-03 -4.10e-05 -1.56e-03  8.59e-03  5.02e-03  9.06e-03 -5.33e-02
## 30504   2.81e-03 -9.22e-03  8.68e-03 -3.00e-04 -2.80e-03  5.09e-03  1.29e-02
## 83531   1.79e-03  1.10e-04 -5.82e-04  3.27e-03 -1.82e-03  4.71e-03 -3.07e-03
## 78873  -1.38e-03 -1.27e-03  1.33e-03 -9.71e-03  1.46e-03 -8.00e-03 -2.73e-03
## 34936  -9.94e-03 -2.15e-03  2.21e-03 -1.55e-02  1.00e-02 -1.81e-02  1.51e-02
## 60610   3.91e-03 -8.84e-04  1.52e-03  7.35e-03 -3.94e-03  6.24e-03 -5.52e-03
## 49529   1.54e-03 -1.97e-03  1.58e-03  2.19e-03 -1.55e-03  3.92e-03 -2.36e-03
## 7933   -1.40e-02 -6.79e-03  6.69e-03 -4.49e-03  1.40e-02  1.48e-04  9.88e-03
## 120539  7.85e-04 -7.69e-04  6.19e-04  1.11e-03 -7.92e-04  1.71e-03  1.97e-03
## 65763  -1.18e-02 -4.67e-03  8.82e-03 -2.86e-02  1.20e-02 -3.07e-02  1.48e-02
## 69835  -1.64e-03 -3.78e-02  3.41e-02  1.78e-02  1.52e-03  1.86e-02 -5.69e-02
## 104561  1.74e-03 -2.29e-04  2.54e-04  3.97e-03 -1.78e-03  4.85e-03 -2.45e-03
## 57738  -1.81e-03 -3.21e-04  1.65e-03 -1.43e-02  1.94e-03 -1.51e-02 -3.89e-03
## 109887  6.00e-03 -1.34e-02  1.32e-02  5.88e-03 -5.95e-03  3.98e-03 -7.78e-03
## 116048  2.50e-03 -2.19e-04 -4.66e-04  3.94e-03 -2.53e-03  4.46e-03  7.39e-03
## 35809   1.49e-03 -6.63e-03  5.86e-03 -6.87e-03 -1.40e-03 -4.69e-03 -5.70e-03
## 129781 -3.57e-02 -8.70e-03  1.04e-02  2.09e-03  3.56e-02  5.40e-03  7.79e-03
## 75895  -1.62e-04 -1.69e-03  1.78e-03 -2.88e-03  1.78e-04 -8.72e-04  5.56e-03
## 7413   -1.35e-02  2.20e-03 -2.93e-03  1.10e-03  1.35e-02 -2.52e-04 -4.14e-03
## 23345  -8.61e-03  2.82e-03 -6.42e-04 -1.34e-02  8.76e-03 -2.30e-02 -5.57e-02
## 9789   -2.28e-02 -1.81e-03  3.50e-03 -1.40e-02  2.29e-02 -1.37e-02 -3.17e-03
## 48658   1.06e-03  1.61e-03 -2.21e-03 -3.79e-03 -1.01e-03 -6.14e-03 -5.33e-03
## 45430   5.43e-04 -2.38e-03  1.97e-03 -5.54e-03 -4.94e-04 -2.47e-03 -3.41e-03
## 128797  1.19e-02 -4.15e-04 -2.58e-04  4.19e-03 -1.19e-02  5.44e-03  1.19e-02
## 18720  -2.99e-04 -1.93e-03  1.30e-03 -6.48e-03  3.61e-04 -5.03e-03 -3.58e-03
## 23888   2.23e-03 -1.85e-02  1.70e-02 -5.80e-03 -2.15e-03 -2.15e-03 -6.45e-03
## 57400   5.72e-03  1.40e-02 -1.53e-02  1.42e-02 -5.79e-03  5.61e-03 -8.68e-03
## 45338   2.23e-04  3.51e-02 -3.35e-02 -7.02e-03 -1.52e-04 -1.52e-02 -3.99e-03
## 47722  -1.12e-02 -1.20e-03 -1.14e-03 -1.76e-02  1.13e-02 -1.09e-02 -4.67e-02
## 114257 -1.22e-02  1.13e-02 -1.55e-02 -3.35e-02  1.24e-02 -2.86e-02  4.64e-03
## 19335   3.95e-03  4.19e-03 -5.11e-03  8.97e-03 -4.00e-03  6.26e-03 -5.62e-03
## 27128   3.62e-04 -3.33e-03  2.54e-03 -5.28e-03 -3.23e-04 -1.74e-03 -3.13e-03
## 107234 -1.70e-02 -8.37e-04  8.52e-04 -5.31e-02  1.74e-02 -5.25e-02  8.40e-03
## 66699   5.97e-05 -5.27e-04  4.07e-04 -6.13e-04 -5.52e-05 -3.10e-04 -5.76e-04
## 126217  1.63e-02  2.44e-03 -3.89e-03 -1.07e-02 -1.62e-02 -1.21e-02  2.11e-02
## 102207  1.98e-03  1.75e-03 -2.23e-03 -2.07e-03 -1.95e-03 -3.70e-03  9.82e-03
## 51747  -1.18e-02 -1.08e-01  1.04e-01 -3.52e-02  1.22e-02 -1.96e-02  7.54e-03
## 120652 -1.88e-03  1.07e-02 -6.21e-03  2.99e-02  1.57e-03  2.66e-02  2.46e-02
## 9986   -1.43e-02 -9.99e-03  9.90e-03 -5.48e-03  1.44e-02 -7.99e-05  1.01e-02
## 88589  -7.67e-04 -2.62e-03  1.90e-03 -9.16e-03  8.48e-04 -7.88e-03 -3.78e-03
## 19942   1.51e-03 -5.00e-05 -1.38e-04  2.50e-03 -1.53e-03  3.14e-03 -2.64e-03
## 117368 -1.30e-03 -9.82e-04  1.20e-03 -1.02e-02  1.39e-03 -8.84e-03 -2.81e-03
## 17648   1.65e-05 -3.34e-05  1.52e-04 -1.32e-03 -8.42e-06 -7.24e-04 -7.51e-04
```

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## 76851  -1.15e-02  8.68e-03 -1.34e-02 -1.80e-02  1.16e-02 -2.13e-02 -5.51e-02
## 14945   1.61e-03  1.34e-03 -1.62e-03 -2.69e-03 -1.56e-03 -4.96e-03 -6.18e-03
## 57065  -5.47e-03 -1.12e-02  1.09e-02  3.85e-03  5.34e-03  2.32e-02 -2.94e-02
## 58620   2.97e-04  2.24e-02 -2.18e-02 -1.76e-03 -2.95e-04 -5.57e-03 -1.88e-03
## 120488  2.18e-03  5.09e-04 -1.20e-03  3.79e-03 -2.20e-03  3.38e-03 -3.36e-03
## 103711  4.36e-03  3.62e-03 -4.01e-03  1.25e-02 -4.46e-03  1.07e-02 -4.49e-03
## 11634  -1.26e-02  2.31e-04 -6.50e-04 -4.14e-03  1.26e-02 -5.09e-03 -3.83e-03
## 49429   9.00e-05 -2.41e-03  2.26e-03 -2.60e-03 -7.39e-05 -8.45e-04  4.72e-03
## 4990    5.87e-06  9.55e-07 -7.74e-07  1.32e-07 -5.86e-06 -8.44e-07  1.94e-06
## 42022   1.07e-02 -7.84e-03  9.40e-03  1.92e-02 -1.07e-02  9.41e-03 -1.18e-02
## 68343   1.72e-04  1.03e-02 -1.14e-02 -1.09e-02 -6.93e-05 -1.69e-02  2.31e-02
## 114086  3.12e-03  3.98e-03 -4.85e-03  6.06e-03 -3.16e-03  3.61e-03 -5.33e-03
## 109361  2.57e-03 -2.61e-02  2.33e-02 -7.64e-03 -2.45e-03 -2.89e-03 -9.13e-03
## 130416  1.61e-02  1.44e-03 -1.68e-03  9.44e-03 -1.61e-02  1.11e-02 -2.74e-03
## 11738   8.02e-02 -2.68e-01  2.53e-01 -6.04e-02 -7.94e-02 -1.74e-02 -7.56e-02
## 78654   2.95e-03  3.26e-03 -3.67e-03  4.43e-03 -2.97e-03  2.07e-03 -5.59e-03
## 5471   -1.66e-02  5.75e-03 -6.50e-03 -4.28e-03  1.67e-02 -8.88e-03  8.27e-03
## 78487  -1.69e-02 -3.36e-02  4.12e-02 -2.39e-02  1.70e-02  5.19e-03  3.53e-02
## 84084   9.48e-04  1.49e-03 -2.45e-03 -3.62e-03 -9.02e-04 -5.75e-03 -5.49e-03
## 60199   1.66e-03 -1.11e-04 -5.05e-04  2.03e-03 -1.68e-03  2.13e-03 -3.22e-03
## 6323   -1.76e-02 -4.42e-03  5.28e-03  2.34e-03  1.75e-02  4.31e-03 -2.30e-03
## 116605 -1.70e-03 -1.67e-03  1.49e-03 -1.03e-02  1.77e-03 -8.40e-03 -2.80e-03
## 62415  -1.29e-03  2.45e-03 -7.55e-04 -6.74e-03  1.33e-03 -5.94e-03 -6.19e-04
## 68116  -3.42e-04 -3.69e-03  3.31e-03 -4.48e-03  3.76e-04 -1.59e-03 -1.87e-03
## 120127  6.63e-06 -1.69e-04  3.69e-04 -4.97e-03  3.03e-05 -4.44e-03 -3.44e-03
## 20593  -6.94e-03 -1.43e-02  1.63e-02 -7.29e-03  6.92e-03  6.75e-03  1.80e-02
## 125776 -1.55e-02  9.96e-03 -9.32e-03  2.33e-02  1.52e-02  2.72e-02  3.54e-03
## 89850  -6.28e-03  5.33e-03 -3.49e-03 -3.45e-02  6.58e-03 -4.39e-02 -4.85e-03
## 28036  -8.17e-03 -1.44e-02  1.35e-02 -1.40e-02  8.24e-03  1.11e-04 -3.70e-02
## 104272  5.03e-03 -1.84e-02  1.71e-02  8.01e-03 -5.07e-03  1.47e-02 -4.80e-03
## 43817  -7.18e-04  1.67e-03  8.23e-04 -3.53e-03  7.21e-04 -1.05e-03  8.87e-05
## 3094   -4.01e-02  3.60e-03 -2.32e-03 -1.62e-03  4.01e-02 -2.93e-04 -2.03e-03
## 127656  9.92e-03  4.47e-04 -4.06e-04  5.29e-03 -9.94e-03  5.39e-03 -3.18e-03
## 94336   2.12e-03 -1.05e-04 -5.45e-04  2.75e-03 -2.13e-03  3.30e-03 -4.15e-03
## 119133  2.91e-03  4.53e-04 -4.65e-04  5.89e-03 -2.94e-03  6.39e-03 -3.77e-03
## 104737  5.52e-03 -9.76e-03  9.43e-03  9.91e-03 -5.61e-03  1.62e-02  2.33e-02
## 38580   3.06e-03  2.11e-03 -2.60e-03  3.16e-03 -3.08e-03  1.79e-03  1.25e-02
## 115606 -1.77e-02 -6.65e-04  5.79e-03 -3.20e-02  1.79e-02 -3.05e-02  2.82e-02
## 118276  2.56e-03 -1.03e-04 -2.11e-04  4.00e-03 -2.59e-03  4.44e-03  7.33e-03
## 58118   2.28e-03  1.99e-05 -3.48e-04  2.15e-03 -2.28e-03  2.00e-03 -4.37e-03
## 111855 -2.52e-04 -9.56e-04  7.81e-04 -5.48e-03  3.01e-04 -5.20e-03 -2.64e-03
## 104517 -9.72e-04 -2.42e-03  1.70e-03 -7.10e-03  1.03e-03 -5.71e-03 -2.66e-03
## 64256  -1.38e-04 -1.38e-03  9.07e-04 -4.93e-03  1.80e-04 -4.60e-03 -2.88e-03
## 110218  1.00e-03 -1.62e-03  1.46e-03  9.70e-04 -1.02e-03  2.48e-03  4.67e-03
## 105323  8.40e-03  2.21e-02 -1.76e-02  1.14e-02 -8.43e-03  1.01e-03  2.69e-02
## 82713  -7.03e-06 -1.87e-04  2.59e-04 -1.34e-03  1.53e-05 -6.96e-04 -7.60e-04
## 81857   3.93e-04 -2.93e-04  2.59e-04  3.42e-04 -3.95e-04  7.07e-04 -7.33e-04
## 40649  -9.66e-03 -2.90e-02  2.67e-02 -2.70e-02  9.85e-03 -2.61e-02  4.52e-03
## 42439   1.33e-03  9.57e-06  2.01e-05  1.64e-03 -1.34e-03  2.29e-03 -2.48e-03
## 78618  -6.86e-03  9.27e-03 -6.86e-03  1.40e-02  6.75e-03  6.62e-03 -5.43e-02
## 58361  -1.69e-03  1.08e-02 -1.09e-02  3.04e-02  1.44e-03  1.72e-02  2.06e-02
## 89698   1.20e-03 -2.57e-04 -9.24e-05  1.72e-03 -1.22e-03  2.65e-03 -2.59e-03
## 99629   2.53e-04  3.88e-04 -8.81e-04 -7.46e-03 -1.73e-04 -9.63e-03 -5.33e-03
## 6601   -1.80e-02 -8.37e-03  8.40e-03 -5.58e-03  1.80e-02  9.08e-04  1.37e-02
## 76120  -6.58e-04 -4.13e-03  3.76e-03 -5.07e-03  6.92e-04 -1.52e-03 -1.54e-03
## 78464   3.30e-03 -1.94e-02  1.62e-02 -2.81e-03 -3.24e-03  2.35e-03 -9.38e-03
## 90646   1.11e-03 -4.40e-03  5.07e-03 -5.23e-04 -1.12e-03 -2.35e-03 -4.86e-03
## 55990   3.26e-03  5.51e-04 -8.83e-04  6.26e-03 -3.29e-03  6.19e-03 -4.33e-03
## 102529  2.61e-03  2.66e-02 -2.56e-02  5.44e-03 -2.66e-03 -3.57e-05 -3.15e-03
## 77338  -2.40e-03 -2.57e-05  5.18e-04 -1.46e-02  2.52e-03 -1.49e-02 -3.84e-03
## 63754  -6.50e-04 -5.16e-04  1.14e-03 -9.54e-03  7.39e-04 -1.06e-02 -4.10e-03
## 4479   -1.77e-03 -6.52e-05  1.81e-04 -7.79e-04  1.77e-03 -6.93e-04 -4.29e-04
## 129051  6.55e-03  2.11e-03 -1.05e-03 -4.59e-03 -6.51e-03 -4.37e-03 -1.82e-03
## 99350   1.02e-03  1.85e-03 -2.00e-03 -2.47e-03 -9.86e-04 -4.23e-03 -4.47e-03
## 13725   8.71e-02 -2.39e-01  2.28e-01 -2.80e-02 -8.66e-02  2.42e-02  1.79e-02
## 526    -2.22e-02  2.39e-02 -2.17e-02 -1.61e-03  2.22e-02 -7.90e-03  1.56e-02
## 97257   8.73e-04  7.20e-04 -2.72e-04  2.11e-03 -8.93e-04  2.74e-03 -6.77e-04
## 19242   2.04e-03 -1.22e-04 -4.39e-05  1.91e-03 -2.04e-03  2.32e-03  6.71e-03
## 99969  -1.07e-04 -1.21e-04  1.19e-04 -8.21e-05  1.09e-04 -1.47e-04  2.96e-04
## 107276  3.98e-03  5.85e-03 -6.72e-03  8.26e-03 -4.02e-03  5.15e-03 -6.20e-03
## 95772   2.28e-03  4.47e-04 -1.15e-03  4.83e-03 -2.31e-03  4.97e-03 -3.25e-03
## 94798   8.91e-04 -8.26e-04  5.81e-04  1.82e-03 -9.07e-04  2.61e-03 -1.21e-03
## 108505  4.36e-03  1.73e-02 -1.92e-02  6.57e-03 -4.39e-03 -1.52e-03  2.16e-02
## 8007   -1.91e-02 -1.25e-02  1.15e-02  6.00e-04  1.91e-02  4.78e-03 -5.25e-03
## 10876   8.90e-02 -4.60e-03  7.77e-03  2.78e-02 -8.91e-02  3.19e-02  2.09e-02
## 87021   2.56e-03 -1.45e-04 -6.96e-05  4.27e-03 -2.59e-03  5.11e-03  8.80e-03
## 103554 -1.08e-04  3.70e-04  2.36e-05 -6.74e-03  1.67e-04 -7.94e-03 -3.94e-03
## 38625   2.43e-03  3.81e-03 -4.70e-03 -2.11e-03 -2.40e-03 -4.19e-03  1.69e-02
## 22680   5.09e-03 -3.01e-02  2.79e-02  1.60e-03 -5.03e-03  8.07e-03 -7.70e-03
## 30452   5.37e-05  9.95e-05 -5.67e-05 -5.55e-04 -5.03e-05 -3.61e-04 -4.64e-04
## 105958 -1.08e-02  4.31e-02 -3.96e-02 -1.83e-02  1.09e-02 -3.45e-02  1.05e-02
## 102413  1.79e-02 -2.30e-02  2.27e-02  4.95e-02 -1.82e-02  5.29e-02  3.86e-02
## 48295  -1.65e-03 -2.40e-03  2.02e-03 -1.04e-02  1.73e-03 -8.15e-03 -2.75e-03
## 34435  -9.16e-03  5.26e-03 -8.70e-03 -2.15e-02  9.28e-03 -1.40e-02  7.31e-03
## 23432  -1.31e-02 -1.15e-01  1.10e-01 -3.54e-02  1.34e-02 -8.13e-03  1.08e-02
## 103705  9.66e-03  2.04e-02 -2.30e-02  2.58e-02 -9.85e-03  1.56e-02  1.87e-02
## 99195   6.90e-03  1.33e-02 -1.22e-02  4.30e-02 -7.30e-03  4.88e-02  7.75e-03
## 101587 -7.17e-04  2.20e-03 -2.72e-03 -8.38e-03  7.94e-04 -9.66e-03 -4.62e-03
## 70529  -1.56e-03  2.45e-03 -2.08e-03 -1.33e-02  1.69e-03 -1.80e-02 -5.81e-03
## 123443  4.89e-03  3.92e-04 -1.06e-04  9.78e-04 -4.89e-03  1.88e-03 -1.13e-03
## 127630  7.61e-03 -1.40e-03  7.14e-04 -4.76e-03 -7.56e-03 -4.40e-03 -3.50e-03
## 28341  -6.86e-04 -7.69e-04  9.42e-04 -6.75e-03  7.36e-04 -5.08e-03 -2.51e-03
## 6923   -4.10e-02 -2.84e-02  2.82e-02  4.63e-02  4.06e-02  4.43e-02 -1.02e-02
## 22806   3.43e-03 -1.24e-02  1.53e-02  4.72e-03 -3.44e-03  4.52e-03 -4.87e-03
## 72587  -5.68e-04 -1.61e-03  1.84e-03 -4.49e-03  6.00e-04 -1.72e-03 -1.18e-03
## 30395  -2.67e-03 -8.45e-03  9.81e-03  1.99e-02  2.40e-03  2.89e-02  1.89e-02
## 113007  3.39e-03 -3.42e-05  2.15e-04  6.20e-03 -3.45e-03  8.08e-03  1.50e-02
## 96117   1.49e-03 -2.58e-03  4.05e-03  4.11e-02 -1.90e-03  4.92e-02  2.26e-02
```

```
## 101251  3.95e-04  7.59e-04 -4.59e-04  7.41e-04 -4.07e-04  1.24e-03 -5.81e-04
## 47104   1.88e-03  2.07e-03 -2.62e-03 -6.71e-04 -1.85e-03 -3.15e-03 -5.44e-03
## 81205  -6.76e-04  4.37e-02 -4.04e-02  2.27e-02  4.22e-04  6.51e-03  1.02e-02
## 19773   6.85e-04 -7.25e-04  3.03e-04 -1.75e-03 -6.64e-04 -1.71e-03 -2.91e-03
## 59610  -7.34e-04 -3.13e-02  3.00e-02 -1.52e-02  8.91e-04 -3.22e-03 -3.13e-03
## 112356  5.41e-04  5.62e-04 -4.07e-04 -5.74e-03 -4.80e-04 -7.60e-03 -4.71e-03
## 20118   4.20e-03  3.65e-03 -4.66e-03  8.92e-03 -4.25e-03  5.87e-03 -6.04e-03
## 14500   1.46e-03 -3.61e-04 -4.33e-04  1.86e-03 -1.48e-03  3.35e-03 -3.29e-03
## 46414  -4.13e-03 -1.00e-02  1.17e-02  1.58e-02  3.89e-03  2.57e-02  2.00e-02
## 90232   1.05e-03  2.01e-04  9.52e-04  1.41e-03 -1.07e-03  2.54e-03 -1.44e-03
## 93180  -4.46e-05 -8.71e-05  6.64e-04 -1.97e-03  4.22e-05 -5.19e-04 -1.51e-03
## 122171  2.42e-04  2.88e-03 -3.86e-03 -6.99e-03 -1.58e-04 -9.26e-03 -5.98e-03
## 119211 -1.30e-03 -3.87e-03  3.48e-03 -1.19e-02  1.39e-03 -8.63e-03  1.53e-02
## 42394   2.26e-03  5.64e-04 -1.06e-03  4.18e-03 -2.29e-03  3.99e-03 -3.23e-03
## 17577   5.08e-03  2.06e-03 -1.43e-03  9.74e-03 -5.11e-03  4.45e-03 -7.54e-03
## 46835  -3.63e-03  5.42e-03 -8.07e-03  9.49e-03  3.55e-03  1.21e-02  1.56e-02
## 20135  -5.76e-03 -1.52e-03  1.26e-03 -9.35e-03  5.87e-03 -7.36e-03  1.25e-02
## 18602  -4.90e-03 -1.08e-02  1.40e-02 -3.79e-03  4.90e-03  1.97e-03  1.51e-02
## 86048   2.64e-04  9.95e-05 -4.38e-05  8.96e-05 -2.66e-04  3.65e-04 -6.00e-04
## 114017  9.37e-04 -3.10e-04  6.80e-04  1.23e-03 -9.56e-04  2.81e-03  5.90e-03
## 129967  7.91e-03 -2.84e-04 -2.34e-04  1.94e-04 -7.89e-03  3.03e-05 -3.60e-03
## 118876  1.26e-02 -1.13e-02  1.08e-02  2.56e-02 -1.28e-02  2.61e-02  1.94e-02
## 11466  -1.58e-02  6.31e-03 -7.16e-03 -1.56e-03  1.58e-02 -6.13e-03  8.05e-03
## 17676   4.60e-03  3.61e-03 -3.59e-03  1.27e-02 -4.70e-03  1.08e-02 -4.75e-03
## 41723  -3.49e-04 -2.98e-03  4.97e-03 -7.71e-03  4.10e-04 -7.79e-03 -3.05e-03
## 94146  -1.99e-03 -9.76e-03  9.12e-03 -1.57e-02  2.12e-03 -9.31e-03 -2.30e-03
## 80535  -4.06e-04 -3.01e-02  2.81e-02 -1.87e-02  6.45e-04 -1.53e-02 -7.17e-03
## 49399   1.32e-03 -2.51e-03  4.13e-03 -6.19e-03 -1.27e-03 -8.20e-03  2.11e-02
## 98615  -5.37e-03 -4.74e-03  5.30e-03 -1.03e-03  5.37e-03  3.87e-03  1.58e-02
## 102638  1.46e-03 -2.42e-03  1.92e-03  2.27e-03 -1.48e-03  4.52e-03 -2.30e-03
## 49520   1.98e-03 -2.43e-05 -8.57e-05  4.55e-03 -2.02e-03  5.25e-03 -2.62e-03
## 130523  1.28e-02  7.49e-04 -1.46e-03 -9.23e-03 -1.27e-02 -9.90e-03  1.68e-02
## 76588   2.14e-03 -2.74e-02  2.28e-02  2.97e-02 -2.47e-03  4.89e-02  9.65e-03
## 109721  9.80e-04 -1.13e-03  2.12e-03 -1.47e-03 -9.62e-04 -1.70e-03 -3.45e-03
## 83125  -4.10e-03 -2.16e-02  1.86e-02 -5.35e-03  4.13e-03  5.08e-03  5.55e-03
## 126044  4.23e-03 -1.40e-03  1.06e-03  3.87e-04 -4.23e-03  1.20e-03 -1.70e-03
## 117982  2.87e-03  4.82e-04 -4.59e-04  5.83e-03 -2.91e-03  6.39e-03 -3.71e-03
## 23292  -8.89e-03  6.04e-03 -8.52e-03 -1.74e-02  9.00e-03 -1.03e-02  1.26e-02
## 85408   1.69e-03  1.04e-03 -2.35e-03 -3.17e-03 -1.65e-03 -5.05e-03  7.69e-03
## 89459   1.96e-03 -3.17e-02  2.97e-02 -7.77e-03 -1.83e-03  4.81e-04 -6.16e-03
## 90403   2.92e-03  6.87e-03 -7.49e-03  9.63e-04 -2.91e-03 -9.84e-04 -6.01e-03
## 20253   2.67e-03  8.64e-03 -1.01e-02 -1.51e-03 -2.62e-03 -9.32e-03 -8.92e-03
## 31270   5.71e-03  3.74e-03 -3.76e-03  1.69e-02 -5.84e-03  1.26e-02 -6.08e-03
## 37425   3.42e-03  1.56e-03 -1.79e-03  8.56e-03 -3.48e-03  7.34e-03 -4.54e-03
## 89152   9.85e-03 -2.50e-02  2.37e-02  2.51e-03 -9.73e-03 -2.56e-03  2.80e-02
## 127634 -3.54e-02 -1.16e-02  1.09e-02  1.00e-02  3.52e-02  2.31e-02  1.29e-02
## 88764   4.98e-03 -1.67e-03  3.85e-03  3.86e-02 -5.27e-03  4.23e-02  1.55e-02
## 2852   -1.40e-02 -7.95e-04  1.52e-03  4.99e-03  1.40e-02  6.80e-03 -2.03e-03
## 37410   2.82e-03  3.03e-03 -3.23e-03  4.30e-03 -2.84e-03  2.23e-03 -5.28e-03
## 119113  1.77e-03  9.12e-05  8.19e-05  3.94e-03 -1.80e-03  4.82e-03 -2.30e-03
## 45327  -7.69e-04  1.82e-03 -2.45e-03 -1.22e-02  9.01e-04 -1.45e-02 -5.94e-03
## 16884   2.34e-03 -3.40e-04  1.08e-03  4.41e-03 -2.39e-03  6.21e-03  1.20e-02
## 78424   2.67e-03  9.22e-03 -8.71e-03  2.96e-02 -2.96e-03  3.34e-02  8.53e-03
## 76931  -9.36e-03 -1.27e-03  4.01e-03 -1.13e-02  9.37e-03 -1.35e-02  1.74e-02
## 112181  7.59e-03  2.46e-02 -2.85e-02  2.13e-02 -7.73e-03  4.37e-03 -1.36e-02
## 77307   3.05e-04  1.07e-02 -1.04e-02 -1.18e-02 -1.75e-04 -1.64e-02 -6.45e-03
## 114078 -2.06e-03 -5.18e-03  5.22e-03  2.34e-02  1.82e-03  2.65e-02 -4.83e-02
## 73298   1.20e-03 -1.27e-03  2.82e-04 -1.91e-03 -1.17e-03 -1.51e-03 -4.57e-03
## 4781   -2.49e-02 -1.68e-02  1.60e-02 -1.23e-02  2.50e-02 -5.93e-03 -4.00e-03
## 23578   3.95e-03 -1.88e-02  1.79e-02  3.61e-03 -3.92e-03  9.18e-03 -4.59e-03
## 83642   3.70e-04 -1.46e-03  1.26e-03 -1.91e-04 -3.74e-04  1.29e-03 -1.14e-03
## 106915  4.78e-03  3.17e-03 -4.01e-03  1.23e-02 -4.90e-03  1.14e-02  1.45e-02
## 22717  -6.53e-03 -7.64e-04 -2.42e-03 -1.41e-02  6.67e-03 -2.02e-02  7.65e-03
## 112152  1.91e-03  4.51e-04 -2.87e-04 -1.47e-04 -1.89e-03 -1.89e-03 -4.87e-03
## 36463   1.66e-03  1.39e-02 -1.33e-02 -1.54e-03 -1.64e-03 -3.91e-03 -3.54e-03
## 77259   3.57e-03  6.40e-03 -7.61e-03  1.18e-02 -3.67e-03  1.01e-02 -4.61e-03
## 35807   2.98e-03  1.15e-02 -1.12e-02  3.94e-03 -3.00e-03  2.24e-03 -4.26e-03
## 77027  -2.83e-03 -1.03e-02  1.09e-02  2.08e-02  2.61e-03  2.17e-02  1.44e-02
## 61770   7.84e-04 -1.86e-04  3.12e-04  1.53e-03 -8.01e-04  2.53e-03 -9.53e-04
## 97237   3.43e-03  1.81e-02 -1.61e-02 -4.24e-05 -3.39e-03 -1.01e-02 -6.76e-03
## 91309   1.65e-04 -7.88e-04  5.43e-04 -3.98e-03 -1.26e-04 -4.04e-03 -2.74e-03
## 110627 -1.93e-04 -3.30e-03  5.44e-03 -9.53e-03  2.93e-04 -1.28e-02 -4.86e-03
## 113347 -1.29e-03 -4.24e-03  8.02e-03 -1.02e-02  1.36e-03 -9.09e-03 -1.15e-03
## 53637   1.99e-03 -9.58e-04  1.27e-03 -8.35e-03 -1.88e-03 -1.36e-02 -7.45e-03
## 64632   1.54e-03 -4.14e-04 -6.61e-04  2.35e-03 -1.56e-03  2.90e-03 -3.31e-03
## 50672   4.07e-03  5.63e-03 -6.61e-03  8.78e-03 -4.12e-03  5.37e-03 -5.70e-03
## 88216  -1.16e-02 -3.75e-02  3.44e-02 -3.04e-02  1.18e-02 -1.93e-02  8.33e-03
## 89975   2.18e-03  3.92e-04 -4.62e-04  3.16e-03 -2.20e-03  3.87e-03 -3.44e-03
## 72127  -4.41e-03 -7.04e-03  6.58e-03  6.10e-03  4.34e-03  2.00e-02 -3.98e-02
## 61976   1.06e-03  3.16e-03 -3.44e-03 -6.88e-03 -9.85e-04 -7.30e-03 -5.21e-03
## 122146  2.06e-03  2.82e-04 -1.06e-03  3.89e-03 -2.08e-03  3.80e-03 -3.32e-03
## 15715   5.19e-03  2.47e-02 -3.23e-02  2.40e-02 -5.36e-03  1.96e-02 -3.97e-04
## 19143  -4.45e-03  1.44e-02 -1.36e-02 -8.67e-03  4.47e-03 -5.93e-03  5.03e-03
## 48408  -6.45e-04 -1.31e-05  3.55e-04 -5.94e-03  6.87e-04 -5.33e-03 -2.05e-03
## 24939   8.19e-04 -2.84e-03  3.92e-03 -1.78e-03 -8.08e-04 -1.51e-03 -3.43e-03
## 14178  -1.61e-02 -1.84e-03  5.61e-03 -2.98e-02  1.63e-02 -2.99e-02  2.48e-02
## 127215  1.86e-02 -1.46e-02  1.72e-02 -3.69e-03 -1.85e-02 -3.62e-03  1.97e-02
## 4214   -2.88e-02 -2.54e-02  2.32e-02  1.07e-02  2.87e-02  1.31e-02  1.96e-02
## 116341  4.55e-03  4.61e-03 -5.25e-03  9.81e-03 -4.61e-03  4.29e-03 -7.40e-03
## 52229   3.84e-03  5.33e-03 -9.92e-03  4.76e-02 -4.21e-03  4.60e-02 -5.54e-02
## 54258   6.01e-04 -6.40e-04  1.10e-03 -2.40e-03 -5.88e-04 -9.84e-04  9.07e-03
## 109991 -9.61e-03 -1.10e-03  2.48e-03 -2.64e-02  9.85e-03 -3.17e-02  1.12e-02
## 37671  -1.74e-02 -3.63e-02  4.17e-02 -3.64e-02  1.75e-02 -1.05e-02  2.78e-02
## 107065  3.08e-03  6.37e-04 -8.50e-04  6.24e-03 -3.12e-03  6.54e-03 -3.95e-03
## 34212   6.52e-04 -3.86e-04  2.19e-04  1.42e-03 -6.61e-04  1.73e-03 -8.14e-04
## 65299  -9.73e-04 -1.99e-03  1.49e-03 -7.01e-03  1.02e-03 -5.60e-03 -2.44e-03
## 18678   1.86e-03 -1.21e-04 -1.12e-05  3.69e-03 -1.89e-03  4.05e-03 -2.77e-03
## 112878  1.18e-02  1.64e-02 -1.34e-02  3.15e-02 -1.20e-02  2.74e-02  2.50e-02
```

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## 67785   6.36e-04 -1.34e-02  1.33e-02 -5.11e-03 -6.03e-04  3.44e-03  1.34e-02
## 21470  -9.46e-03 -1.07e-02  1.27e-02 -2.64e-03  9.47e-03  3.25e-03 -4.88e-02
## 96118  -3.76e-03  2.74e-02 -2.35e-02 -3.27e-02  4.09e-03 -5.02e-02 -8.35e-03
## 124449  1.54e-02  4.67e-03 -5.86e-03  9.19e-03 -1.55e-02  5.37e-03 -6.68e-03
## 22611  -5.46e-03  3.86e-02 -4.62e-02 -3.39e-03  5.45e-03 -7.49e-03  8.48e-03
## 56814  -1.65e-03 -1.70e-03  1.63e-03 -1.02e-02  1.72e-03 -8.16e-03 -2.50e-03
## 127211  1.52e-02  4.96e-03 -5.42e-03  5.69e-03 -1.53e-02  8.97e-03 -1.59e-03
## 52964   2.16e-04 -1.50e-02  1.74e-02  2.18e-02 -4.25e-04  3.69e-02  1.78e-02
## 103598  2.79e-05  2.53e-03 -2.80e-03 -7.75e-03  5.31e-05 -9.94e-03 -5.16e-03
## 15124   6.81e-04 -1.27e-03  1.10e-03  2.86e-04 -6.83e-04  1.21e-03  2.77e-03
## 117672 -1.14e-02  7.93e-03 -6.48e-03 -5.12e-03  1.15e-02 -1.05e-02 -4.96e-02
## 108834  9.82e-04  2.63e-03 -3.98e-03 -1.29e-03 -9.73e-04 -3.15e-03 -5.08e-03
## 109876  2.34e-03 -1.67e-04 -1.57e-04  3.40e-03 -2.36e-03  3.82e-03  6.57e-03
## 13472  -4.58e-03 -4.87e-04  3.61e-04 -9.82e-04  4.58e-03 -7.77e-04 -1.38e-03
## 57687   1.99e-03  2.59e-03 -2.72e-03 -5.97e-03 -1.91e-03 -8.23e-03  1.42e-02
## 29695   3.99e-03  1.07e-02 -9.98e-03  3.35e-03 -4.01e-03  2.07e-03  1.62e-02
## 125587  1.15e-02 -4.33e-05  3.30e-04  8.05e-03 -1.15e-02  1.06e-02 -1.68e-03
## 15308  -6.26e-03  7.10e-04 -2.70e-03 -1.28e-02  6.38e-03 -1.99e-02  9.95e-03
## 18429   2.81e-03  3.20e-03 -4.26e-03  3.44e-03 -2.82e-03  6.24e-04 -5.87e-03
## 5592   -1.28e-02  9.63e-03 -1.06e-02  1.81e-02  1.26e-02  1.22e-02  8.84e-03
## 1342   -5.03e-03 -3.77e-04  3.06e-04  4.11e-04  5.01e-03  6.57e-04 -1.51e-03
## 34912   3.49e-03  3.31e-03 -4.46e-03  3.68e-03 -3.50e-03  1.20e-03  9.13e-03
## 124936  1.71e-02 -4.87e-05  1.61e-03 -1.77e-03 -1.71e-02 -2.20e-03 -3.19e-03
## 9961   -1.47e-02 -9.68e-04  1.37e-03 -4.25e-03  1.47e-02 -4.23e-03 -3.05e-03
## 87643  -4.61e-04  1.18e-02 -1.10e-02  1.46e-02  3.54e-04  4.82e-03  5.82e-03
## 43206   4.18e-04  6.25e-04 -9.32e-04 -9.15e-03 -3.29e-04 -1.07e-02  1.05e-02
## 121367  4.14e-04 -2.16e-02  2.11e-02 -2.57e-02 -8.46e-05 -3.88e-02 -1.35e-02
## 56961   1.92e-03  4.31e-03 -8.04e-03  2.43e-02 -2.09e-03  2.44e-02  1.11e-02
## 36590   2.00e-03  4.30e-03 -5.27e-03  1.72e-03 -2.00e-03 -6.68e-04 -5.47e-03
## 11143  -3.65e-03 -1.52e-04  3.16e-04 -1.67e-03  3.65e-03 -1.59e-03 -9.17e-04
## 92961   1.55e-03 -1.15e-03  1.09e-03  3.36e-03 -1.58e-03  5.62e-03 -1.82e-03
## 29561   1.96e-03 -9.88e-04 -2.22e-03  2.73e-02 -2.20e-03  2.24e-02  1.02e-02
## 83146  -1.02e-03 -1.44e-03  1.20e-03 -6.98e-03  1.06e-03 -5.66e-03 -2.22e-03
## 55192   1.83e-03  4.33e-03 -8.09e-03  2.34e-02 -1.99e-03  2.37e-02  1.04e-02
## 10113  -1.30e-02 -1.19e-03  1.87e-03  1.87e-03  1.29e-02  3.38e-03 -2.21e-03
## 46081  -7.58e-03 -5.19e-02  5.08e-02  3.00e-04  7.51e-03  1.99e-02  1.86e-02
## 13759   1.26e-03  2.57e-04 -2.51e-04  6.72e-04 -1.26e-03  4.34e-04  2.30e-04
## 48404   3.07e-03  6.16e-04 -8.28e-04  5.85e-03 -3.10e-03  5.98e-03 -4.12e-03
## 61866  -2.41e-03  8.89e-03 -7.82e-03  2.37e-02  2.22e-03  1.59e-02 -5.44e-02
## 6078   -6.87e-03 -4.24e-04  5.51e-04  1.04e-03  6.85e-03  1.72e-03 -1.49e-03
## 103391 -3.93e-03 -2.06e-04  1.28e-04  1.03e-02  3.83e-03  1.55e-02  1.84e-02
## 122954 -8.90e-03  2.23e-03 -8.07e-03 -2.23e-02  9.12e-03 -2.93e-02  7.66e-03
## 65931   1.39e-04  1.81e-04 -1.32e-04  4.56e-05 -1.42e-04  3.94e-04 -4.77e-04
## 92166  -1.90e-03 -6.97e-03  8.07e-03  1.95e-02  1.69e-03  3.40e-02  1.99e-02
## 9016    1.44e-03  2.36e-04 -2.21e-04 -1.59e-04 -1.44e-03 -4.21e-04  3.80e-04
## 5758   -5.13e-03 -8.48e-04  7.15e-04 -2.01e-03  5.14e-03 -1.48e-03  2.95e-03
## 49854   2.54e-04 -1.10e-03  6.60e-04 -3.39e-03 -2.19e-04 -2.89e-03 -2.84e-03
## 9259   -2.82e-02 -1.96e-02  1.82e-02  3.30e-02  2.79e-02  3.35e-02 -9.77e-03
## 77457  -5.73e-04  1.28e-03  1.83e-04 -5.45e-03  6.04e-04 -4.20e-03 -1.78e-03
## 80940  -4.88e-03  8.44e-04  2.06e-03 -1.06e-02  4.99e-03 -1.77e-02  1.01e-02
## 56515  -2.79e-03 -1.00e-03  2.02e-03 -1.31e-02  2.87e-03 -1.24e-02 -1.93e-03
## 84493   1.28e-03  2.19e-03 -2.64e-03 -1.77e-03 -1.25e-03 -3.49e-03 -5.48e-03
## 77553   7.12e-04 -1.32e-03  4.66e-04 -2.18e-03 -6.93e-04 -9.39e-04 -3.76e-03
## 109522  3.59e-03 -3.57e-05 -7.02e-04  5.55e-03 -3.62e-03  6.30e-03  1.10e-02
## 72781   1.46e-04 -1.89e-02  1.84e-02 -1.10e-02 -2.29e-05 -1.72e-03 -3.09e-03
## 29832   1.67e-03 -9.79e-05  5.94e-04 -1.10e-03 -1.67e-03 -1.00e-03  1.46e-02
## 118419  7.55e-04  1.22e-03 -7.31e-04 -5.88e-03 -6.90e-04 -1.03e-02 -6.08e-03
## 54937  -9.80e-03  3.56e-03 -1.22e-04 -1.28e-02  9.92e-03 -1.61e-02  2.14e-02
## 59790   3.32e-04 -2.28e-03  3.87e-03 -3.47e-03 -3.12e-04 -3.22e-03 -2.69e-03
## 59518  -1.30e-03  3.18e-03 -3.43e-03 -9.29e-03  1.36e-03 -6.65e-03 -2.16e-03
## 100728  1.01e-03 -8.54e-04  8.33e-04 -1.76e-03 -9.99e-04 -8.99e-04  7.51e-03
## 88375  -8.04e-04 -1.64e-03  1.41e-03 -8.95e-03  8.87e-04 -7.81e-03 -3.46e-03
## 103387  1.86e-03  2.64e-03 -3.85e-03  1.15e-03 -1.86e-03 -1.01e-03 -5.49e-03
## 92257  -1.33e-02  1.91e-03 -1.88e-03 -2.74e-02  1.35e-02 -3.09e-02  1.89e-02
## 99717   2.68e-04  1.08e-03 -1.70e-03 -7.69e-03 -1.80e-04 -1.01e-02 -5.41e-03
## 30843  -1.24e-03 -1.94e-02  1.86e-02 -1.88e-02  1.42e-03 -1.14e-02 -4.07e-03
## 74345   1.35e-04 -1.13e-03  1.10e-03 -1.55e-03 -1.23e-04 -6.63e-04  2.63e-03
## 114035 -4.55e-03 -9.13e-03  1.05e-02  6.71e-03  4.41e-03  1.42e-02  1.71e-02
## 59632   8.93e-03 -2.95e-03  6.23e-03  3.48e-02 -9.16e-03  3.29e-02  6.49e-03
## 41911   9.40e-03 -9.03e-03  8.32e-03  2.07e-02 -9.52e-03  1.74e-02 -8.96e-03
## 50160   1.27e-03 -4.48e-03  3.98e-03  6.10e-04 -1.27e-03  4.25e-03 -1.90e-03
## 5294   -1.55e-02 -1.67e-03  1.57e-03 -6.27e-03  1.55e-02 -4.73e-03 -2.50e-03
## 8861   -1.58e-02 -6.86e-04  1.57e-03 -5.43e-03  1.58e-02 -3.82e-03 -1.71e-03
## 73513   1.52e-03 -3.88e-04  1.09e-03  4.74e-03 -1.58e-03  6.61e-03 -1.35e-03
## 70969  -1.60e-03 -1.65e-03  3.27e-03 -1.15e-02  1.68e-03 -1.17e-02 -2.84e-03
## 71592   3.09e-03  5.86e-03 -6.16e-03  2.86e-03 -3.10e-03  2.20e-03 -4.97e-03
## 112131  5.21e-04  1.64e-03 -9.63e-04  1.62e-03 -5.44e-04  2.20e-03 -3.27e-04
## 1912   -3.47e-02 -1.27e-02  1.22e-02 -4.93e-03  3.47e-02 -2.40e-03 -6.92e-03
## 37797   5.48e-03  1.10e-02 -1.28e-02  1.08e-02 -5.52e-03  2.71e-03 -9.39e-03
## 73786  -2.33e-03  1.67e-02 -1.59e-02  3.36e-03  2.28e-03 -8.35e-03  4.09e-03
## 96545  -6.91e-03 -7.29e-03  6.72e-03 -1.09e-02  6.97e-03 -1.41e-02  5.97e-03
## 128957  2.05e-02  1.33e-02 -1.54e-02 -1.79e-03 -2.04e-02 -1.22e-02 -1.07e-02
## 44844  -6.50e-04  1.67e-03 -5.49e-04 -5.43e-03  6.85e-04 -5.19e-03 -1.44e-03
## 10621   9.80e-02  1.04e-02 -1.59e-02  5.87e-02 -9.83e-02  5.41e-02  1.11e-02
## 80986   1.12e-03 -2.56e-03  2.08e-03  1.00e-03 -1.13e-03  3.19e-03 -2.26e-03
## 809    -1.46e-02  7.91e-03 -9.00e-03  1.21e-02  1.45e-02  8.12e-03 -6.47e-03
## 119819 -1.46e-02 -1.50e-02  1.73e-02 -1.45e-02  1.46e-02 -4.83e-03 -4.60e-02
## 63962   4.19e-03  1.32e-03 -2.93e-04  9.73e-03 -4.23e-03  5.70e-03 -5.75e-03
## 126221 -2.28e-02 -5.81e-02  5.40e-02  2.59e-02  2.25e-02  4.76e-02  5.01e-03
## 53508  -3.62e-04 -2.76e-03  1.74e-03 -8.01e-03  4.35e-04 -7.19e-03 -4.40e-03
## 89670   3.93e-03  4.29e-03 -5.47e-03  7.81e-03 -3.99e-03  6.12e-03  1.17e-02
## 40664   1.46e-03  2.74e-03 -6.78e-03  9.14e-03 -1.50e-03  6.35e-03  2.87e-03
## 49044   1.64e-03 -2.23e-04 -6.07e-04  2.18e-03 -1.66e-03  2.41e-03 -3.31e-03
## 49407   1.66e-03 -7.27e-04  1.09e-03  3.17e-03 -1.69e-03  3.66e-03 -2.41e-03
## 124577 -1.83e-02  1.45e-02 -1.37e-02  3.11e-02  1.80e-02  3.14e-02  3.71e-03
## 109437  4.00e-03  7.39e-03 -7.84e-03  3.42e-03 -3.97e-03 -4.14e-03 -9.09e-03
## 118322  3.52e-03  1.58e-02 -1.42e-02  4.87e-04 -3.50e-03 -5.66e-04  2.42e-02
## 33908  -6.04e-05 -3.08e-04  5.80e-04 -6.46e-03  1.10e-04 -9.85e-03 -5.42e-03
```

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## 65131  -1.99e-04  5.56e-04 -6.12e-04 -8.90e-03  2.86e-04 -1.09e-02 -4.82e-03
## 6161   -1.88e-02 -1.27e-02  1.48e-02  1.28e-02  1.87e-02  1.33e-02 -5.21e-03
## 67950   4.97e-04 -9.61e-04  4.06e-04 -1.69e-03 -4.86e-04 -8.15e-04 -2.77e-03
## 8375   -2.02e-02  2.44e-03 -2.92e-03 -6.22e-03  2.02e-02 -8.17e-03 -5.28e-03
## 109514 -2.37e-04 -2.37e-03  3.73e-03 -7.28e-03  2.95e-04 -7.67e-03 -3.56e-03
## 13073   6.57e-02  6.12e-02 -6.88e-02 -2.61e-02 -6.53e-02 -3.74e-02  1.12e-02
## 1474   -2.54e-03 -2.06e-04  7.50e-05  2.58e-04  2.53e-03  3.11e-04  1.46e-03
## 33127   6.07e-04  3.85e-04  2.80e-04 -3.70e-03 -5.63e-04 -3.15e-03 -3.05e-03
## 38731  -3.47e-03  2.37e-02 -2.17e-02  2.14e-02  3.31e-03  8.74e-03 -5.00e-02
## 96623   2.43e-03 -1.64e-03  2.08e-03  2.91e-03 -2.44e-03  2.15e-03 -4.56e-03
## 117184  2.14e-03  2.51e-04 -4.97e-04  6.77e-03 -2.20e-03  9.02e-03 -2.48e-03
## 71492   1.72e-03 -1.10e-03  3.83e-04  1.85e-03 -1.75e-03  3.29e-03  9.42e-03
## 97244  -6.18e-03 -3.11e-02  2.99e-02 -1.74e-02  6.38e-03 -1.73e-02  4.29e-03
## 118289  4.64e-03 -2.71e-03  3.59e-03  1.19e-02 -4.72e-03  1.18e-02 -4.86e-03
## 80071  -9.35e-04 -1.78e-03  1.25e-03 -6.50e-03  9.75e-04 -5.21e-03 -2.49e-03
## 38767  -8.49e-03 -2.01e-02  1.86e-02 -1.83e-02  8.61e-03 -1.27e-02  8.21e-03
## 40439   1.64e-03  4.94e-05 -5.26e-04  2.43e-03 -1.66e-03  2.71e-03 -3.00e-03
## 121927  2.25e-03 -4.60e-05 -2.06e-04  4.16e-03 -2.28e-03  5.07e-03 -3.58e-03
## 77122   5.07e-03 -9.94e-03  1.04e-02  6.69e-03 -5.07e-03  4.72e-04 -8.65e-03
## 40220   2.77e-04 -7.89e-04  5.53e-04 -2.93e-03 -2.50e-04 -1.20e-03 -2.91e-03
## 118071  1.75e-03 -2.83e-03  4.11e-03  4.37e-03 -1.80e-03  5.44e-03 -2.28e-03
## 61948   1.34e-03 -7.99e-04  1.03e-03  7.85e-04 -1.35e-03  1.54e-03  5.92e-03
## 58962   1.96e-03  3.03e-04 -8.31e-04  3.34e-03 -1.98e-03  3.10e-03 -3.12e-03
## 25333   4.34e-03  7.43e-03 -9.43e-03  1.39e-02 -4.45e-03  1.14e-02 -5.94e-03
## 56762   2.35e-03  2.77e-03 -2.92e-03  1.98e-03 -2.37e-03  3.46e-03 -3.36e-03
## 60895   1.70e-03 -5.49e-04  6.43e-04  3.89e-03 -1.73e-03  5.72e-03 -1.82e-03
## 8559    7.83e-02  9.32e-03 -1.50e-02  7.58e-03 -7.82e-02  1.97e-03  7.23e-03
## 100407  9.13e-04  1.72e-02 -1.62e-02  1.13e-02 -1.00e-03 -1.99e-03  2.17e-03
## 31141   2.59e-03  4.00e-05 -4.70e-04  3.88e-03 -2.62e-03  4.03e-03  6.50e-03
## 72755   9.23e-04  1.79e-03 -8.75e-04  1.50e-03 -9.38e-04  2.86e-03 -1.06e-03
## 85116   6.98e-04 -1.78e-04  2.57e-04 -1.38e-03 -6.85e-04 -1.16e-03 -2.55e-03
## 54468  -9.31e-03 -1.41e-02  1.62e-02 -2.81e-02  9.54e-03 -2.31e-02  1.11e-02
## 49473   8.57e-04  1.45e-03 -4.76e-04  1.71e-03 -8.84e-04  3.05e-03  6.39e-03
## 74873   7.95e-04  1.80e-04  4.04e-05  2.03e-03 -8.16e-04  2.93e-03 -7.85e-04
## 119852 -2.17e-02 -4.79e-02  5.15e-02 -7.03e-02  2.21e-02 -4.19e-02  1.94e-02
## 27129   2.26e-03  3.82e-04 -8.37e-04  4.51e-03 -2.29e-03  4.55e-03 -3.15e-03
## 17372   3.67e-03  5.34e-03 -6.05e-03  1.24e-03 -3.64e-03 -1.73e-03  1.48e-02
## 50146  -1.10e-02  1.07e-03  1.98e-03 -1.16e-02  1.10e-02 -1.34e-02  2.28e-02
## 23373   2.07e-03  2.13e-02 -2.83e-02  2.43e-02 -2.31e-03  2.46e-02  6.53e-03
## 96720  -7.67e-04  9.83e-04  3.78e-05 -7.99e-03  8.37e-04 -7.34e-03 -2.55e-03
## 104557  7.82e-05  3.11e-03 -3.56e-03 -5.16e-03 -4.10e-05 -9.47e-03 -5.75e-03
## 16381   2.03e-03 -3.16e-04  1.70e-04  8.86e-06 -2.02e-03  2.35e-03 -3.09e-03
## 72561  -3.15e-04 -1.10e-03  8.74e-04 -5.63e-03  3.62e-04 -5.15e-03 -2.67e-03
## 11043  -2.89e-02 -2.40e-02  2.32e-02 -1.51e-02  2.90e-02 -9.30e-03  1.79e-02
## 109461 -3.13e-03 -2.51e-03  1.02e-03  1.52e-03  3.17e-03 -7.27e-04 -5.30e-02
## 66275   7.91e-04  2.60e-03 -3.20e-03 -5.65e-03 -7.16e-04 -8.12e-03 -6.06e-03
## 88213   9.36e-04  3.08e-03 -3.11e-03 -3.21e-03 -9.03e-04 -7.85e-03 -5.87e-03
## 41180   2.29e-03  2.92e-04 -6.62e-04  4.27e-03 -2.32e-03  5.21e-03 -3.52e-03
## 125104  1.77e-02  8.45e-03 -1.05e-02  3.79e-03 -1.76e-02 -5.05e-03 -1.05e-02
## 82278   1.94e-03  2.33e-04 -8.70e-04  3.38e-03 -1.97e-03  4.62e-03 -3.28e-03
## 10870  -5.22e-03 -2.74e-04  5.20e-04 -1.37e-03  5.22e-03 -1.03e-03 -1.14e-03
## 42272  -1.74e-02 -4.47e-02  4.92e-02 -2.88e-02  1.76e-02  3.05e-03 -3.06e-02
## 89808  -5.24e-04 -1.45e-02  1.76e-02 -1.00e-02  6.04e-04 -9.23e-03 -3.66e-03
## 1532   -2.23e-02 -6.75e-03  9.92e-03 -4.48e-03  2.23e-02 -1.53e-03  1.71e-02
## 2534   -1.49e-02 -1.41e-03  1.07e-03  3.49e-03  1.48e-02  4.83e-03  1.03e-02
## 83697   1.65e-03  4.71e-05 -2.44e-04  1.74e-03 -1.65e-03  1.65e-03 -2.98e-03
## 6873   -1.39e-02 -5.02e-04  1.13e-03 -1.72e-03  1.39e-02 -5.64e-04 -2.22e-03
## 37790  -8.42e-04 -5.43e-03  1.10e-02  1.98e-02  6.83e-04  2.66e-02  2.11e-02
## 18769   1.33e-03  4.98e-04 -1.46e-04 -1.85e-04 -1.33e-03 -1.18e-03 -3.86e-03
## 66580   4.38e-04  4.63e-05  8.58e-05  4.86e-04 -4.42e-04  8.07e-04  1.57e-03
## 5837   -2.04e-02 -2.32e-03  3.23e-03  3.84e-03  2.03e-02  4.51e-03 -3.85e-03
## 73300   2.49e-03  1.20e-04 -4.45e-04  3.71e-03 -2.52e-03  4.10e-03  7.11e-03
## 101729 -7.86e-03  6.26e-02 -5.85e-02 -8.04e-04  7.85e-03 -2.94e-02  1.08e-02
## 51884  -7.38e-03  4.88e-03 -4.69e-03 -2.54e-05  7.31e-03 -5.07e-03  1.20e-02
## 77747  -6.98e-04 -2.93e-03  2.11e-03 -9.22e-03  7.89e-04 -7.90e-03 -3.94e-03
## 23573  -4.07e-03  1.15e-02 -1.07e-02  5.68e-03  3.97e-03  4.02e-03  9.69e-03
## 64891   2.12e-03  7.24e-03 -1.07e-02  1.17e-02 -2.13e-03  7.20e-03  5.47e-03
## 36244   7.23e-03 -1.84e-02  1.74e-02  1.51e-02 -7.29e-03  1.99e-02 -5.73e-03
## 59116  -5.08e-03 -1.58e-02  1.76e-02 -1.24e-02  5.17e-03 -1.37e-03  1.12e-02
## 57944   6.12e-04  1.64e-02 -1.40e-02 -1.50e-02 -4.48e-04 -3.00e-02 -9.82e-03
## 21260  -1.55e-02  2.93e-02 -2.72e-02 -3.94e-02  1.57e-02 -4.57e-02  1.00e-02
## 96392   2.05e-03  1.89e-02 -1.88e-02  2.94e-02 -2.27e-03  1.55e-02 -5.08e-02
## 57163   8.97e-04 -3.84e-03  3.56e-03 -1.80e-04 -9.03e-04  4.67e-03 -1.10e-03
## 7961    6.97e-02 -2.41e-02  2.66e-02 -5.27e-04 -6.96e-02  1.55e-02  2.04e-02
## 31758   6.43e-03  9.83e-03 -1.03e-02  1.16e-02 -6.46e-03 -1.72e-03 -1.14e-02
## 25254   2.09e-03  1.35e-02 -1.55e-02 -2.16e-03 -2.03e-03 -1.12e-02 -9.42e-03
## 101119  7.64e-04 -4.27e-04  4.53e-04  1.72e-03 -7.85e-04  2.94e-03 -9.76e-04
## 25431   1.92e-03  1.50e-04 -1.61e-05  3.91e-03 -1.95e-03  4.42e-03 -2.53e-03
## 46252  -6.54e-03  5.90e-03 -1.13e-02 -2.78e-03  6.52e-03 -1.73e-03  1.25e-02
## 127584  2.44e-02 -2.53e-02  2.36e-02 -1.46e-02 -2.42e-02 -9.10e-03 -6.36e-03
## 82055   1.11e-03  1.42e-04  1.58e-05  2.18e-03 -1.13e-03  3.49e-03 -1.68e-03
## 127262  8.72e-03 -3.04e-03  2.15e-03 -5.99e-03 -8.66e-03 -4.43e-03  1.04e-02
## 36330  -1.62e-02 -2.28e-02  2.75e-02 -3.93e-02  1.64e-02 -2.75e-02  2.28e-02
## 69641  -2.18e-03 -1.35e-02  1.58e-02 -2.04e-02  2.37e-03 -2.45e-02 -6.93e-03
## 127268  1.61e-02  1.27e-03 -1.66e-03  9.75e-03 -1.61e-02  1.03e-02 -3.76e-03
## 66703   4.17e-04 -8.78e-04  4.90e-04 -2.79e-03 -3.86e-04 -2.61e-03 -2.83e-03
## 116103 -7.64e-04 -1.46e-03  1.10e-03 -6.33e-03  8.12e-04 -5.38e-03 -2.49e-03
## 69186   2.48e-03  5.20e-04 -1.39e-03  7.07e-03 -2.54e-03  8.71e-03 -3.27e-03
## 74862  -1.19e-03 -6.64e-03  5.38e-03  8.61e-03  1.06e-03  1.51e-02  6.15e-03
## 45431   1.03e-03  3.88e-04  8.15e-05  2.04e-03 -1.06e-03  3.02e-03  4.42e-03
## 25597   5.00e-03  1.13e-02 -1.09e-02  1.19e-02 -5.09e-03  1.03e-02 -4.08e-03
## 70876   1.36e-03 -4.36e-03  6.02e-03 -6.92e-03 -1.29e-03 -8.47e-03  1.87e-02
## 102708  5.96e-05 -1.44e-03  1.26e-03 -1.66e-03 -4.63e-05 -7.66e-04 -1.07e-03
## 104459 -3.07e-04 -1.10e-03  2.70e-03 -5.36e-03  3.49e-04 -4.89e-03 -2.71e-03
## 59786  -2.40e-03  5.13e-04 -4.24e-04 -1.45e-02  2.53e-03 -1.50e-02 -3.94e-03
## 9440   -3.44e-02 -2.93e-02  2.91e-02 -2.28e-02  3.46e-02 -1.09e-02  2.38e-02
## 104896  1.89e-03  4.03e-03 -4.78e-03  1.02e-03 -1.88e-03 -1.15e-03 -5.47e-03
## 35559   2.47e-03  3.13e-04  6.67e-04  6.14e-03 -2.52e-03  7.76e-03 -2.25e-03
```

```
## 113481 -3.43e-04 -1.09e-03  7.45e-04 -5.19e-03  3.83e-04 -4.81e-03 -2.68e-03
## 113789  6.48e-03  3.40e-02 -3.24e-02  2.24e-02 -6.67e-03  1.63e-02 -3.06e-03
## 89416  -1.23e-04 -1.82e-03  1.59e-03 -2.21e-03  1.37e-04 -8.14e-04 -1.11e-03
## 118420  1.30e-03 -9.69e-04  2.27e-03  4.24e-03 -1.36e-03  6.39e-03 -9.42e-04
## 129111  1.90e-02  1.06e-02 -1.32e-02  1.91e-03 -1.90e-02 -5.35e-03  1.67e-02
## 105737  3.26e-03 -4.74e-03  6.60e-03  1.26e-02 -3.39e-03  1.54e-02 -1.55e-03
## 115100 -1.30e-02  2.19e-03  3.72e-03 -7.66e-03  1.30e-02 -6.01e-03  2.94e-02
## 108273  2.92e-04  4.96e-04  1.79e-03 -6.33e-07 -3.15e-04  1.72e-03 -2.47e-04
## 48352   2.15e-03 -7.13e-04  3.12e-03  5.12e-03 -2.20e-03  7.13e-03 -1.38e-03
## 65175  -4.88e-04  2.17e-05  6.18e-04 -5.79e-03  5.23e-04 -4.66e-03  7.91e-03
## 47621   3.39e-03 -1.02e-02  1.20e-02  3.84e-03 -3.40e-03  2.92e-03 -5.75e-03
## 49445   1.52e-03  5.42e-03 -5.26e-03  3.90e-03 -1.56e-03  6.39e-03 -6.07e-04
## 128267  1.12e-02 -2.66e-03  1.40e-03 -6.81e-03 -1.11e-02 -6.34e-03 -5.04e-03
## 105115 -9.12e-03 -1.54e-02  1.59e-02 -2.37e-02  9.27e-03 -1.15e-02  1.19e-02
## 25104   1.02e-03  5.36e-03 -5.73e-03 -7.77e-03 -9.35e-04 -1.05e-02 -6.59e-03
## 49337   4.60e-03  7.67e-03 -9.30e-03  1.24e-02 -4.69e-03  8.95e-03 -6.20e-03
## 18090   1.06e-03  2.46e-03 -3.15e-03 -2.48e-03 -1.04e-03 -1.71e-03 -3.70e-03
## 94640   9.17e-04 -7.07e-03  6.60e-03 -7.88e-03 -8.33e-04 -4.74e-03 -4.38e-03
## 16227   1.98e-03  8.63e-06  7.39e-04  4.03e-03 -2.02e-03  4.64e-03 -2.14e-03
## 6677   -1.41e-02 -3.20e-04  1.25e-04 -7.80e-03  1.41e-02 -8.53e-03 -3.59e-03
## 83055  -1.13e-02 -4.58e-02  4.86e-02 -2.54e-02  1.14e-02 -1.14e-03 -3.42e-02
## 23464   1.38e-03 -6.15e-04  4.66e-04  3.86e-03 -1.42e-03  5.06e-03 -1.23e-03
## 126328  1.75e-02  4.27e-03 -5.62e-03 -3.82e-04 -1.75e-02 -3.22e-03 -5.84e-03
## 104672  1.39e-04  6.92e-04 -1.21e-03 -5.79e-03 -8.23e-05 -7.21e-03 -4.80e-03
## 40083   1.29e-02 -2.51e-02  2.46e-02  1.67e-02 -1.29e-02  1.20e-02  3.60e-02
## 32669   2.09e-04  8.72e-03 -7.85e-03  2.63e-02 -3.86e-04  2.92e-02  2.12e-02
## 5892   -4.75e-03  1.32e-02 -1.26e-02  4.39e-03  4.70e-03  1.63e-03 -1.15e-03
## 19445   1.27e-03 -3.63e-04 -1.12e-04  7.90e-04 -1.27e-03  8.52e-04 -2.99e-03
## 48549   1.54e-03 -4.10e-04  1.23e-03  2.01e-03 -1.55e-03  2.20e-03 -3.62e-03
## 99048   2.72e-03 -3.63e-04 -3.80e-05  2.39e-03 -2.73e-03  3.77e-03  1.28e-02
## 79122   4.40e-03  2.70e-03 -2.54e-03  7.31e-03 -4.44e-03  7.90e-03 -4.32e-03
## 23958   1.63e-03  2.74e-03 -3.57e-03 -1.33e-03 -1.60e-03 -3.88e-03 -5.50e-03
## 122808  1.90e-04  7.54e-03 -5.07e-03  2.69e-02 -4.68e-04  2.21e-02  1.63e-02
## 19432  -1.21e-03  1.17e-02 -1.30e-02  3.29e-02  1.04e-03  1.32e-02 -6.55e-02
## 71707   3.66e-03  1.94e-02 -2.05e-02  1.41e-03 -3.60e-03 -1.41e-02 -1.15e-02
## 29539   1.18e-03  2.00e-03 -3.20e-03 -3.82e-03 -1.13e-03 -6.58e-03 -5.93e-03
## 96672  -1.55e-03 -3.74e-03  1.19e-03  7.89e-03  1.44e-03  1.80e-02  6.35e-03
## 51694   3.17e-04 -3.45e-04  3.65e-04 -2.91e-05 -3.21e-04  8.44e-04 -8.85e-04
## 73345   4.03e-03  6.20e-03 -7.83e-03  5.26e-03 -4.03e-03  7.73e-04 -7.90e-03
## 120501  8.24e-04 -4.08e-03  5.72e-03  7.18e-04 -8.53e-04  2.21e-03 -2.02e-03
## 103246  2.83e-03  6.02e-04 -7.49e-04  5.78e-03 -2.86e-03  6.38e-03 -3.71e-03
## 69545  -6.13e-04  9.62e-04 -1.17e-04 -5.60e-03  6.57e-04 -5.19e-03 -1.63e-03
## 113627  1.47e-03 -3.44e-04  1.51e-03  3.62e-03 -1.51e-03  5.13e-03 -1.37e-03
## 90483   2.56e-03  2.13e-03 -2.62e-03  5.53e-03 -2.61e-03  4.12e-03 -4.43e-03
## 50161   3.38e-05 -6.50e-04  5.38e-04 -4.69e-03 -3.98e-07 -5.27e-04 -1.70e-03
## 53067   2.55e-03 -3.29e-04  1.43e-03  1.99e-03 -2.54e-03  8.63e-04 -4.81e-03
## 101265  1.84e-03 -8.68e-04  1.35e-04  1.49e-03 -1.86e-03  2.60e-03  9.04e-03
## 5430   -2.95e-02 -2.42e-02  2.25e-02 -8.01e-04  2.95e-02  8.70e-03 -4.93e-03
## 77335  -6.76e-03 -1.02e-02  9.08e-03 -1.42e-02  6.83e-03 -1.19e-02  5.80e-03
## 3619    4.39e-02  2.92e-02 -2.77e-02 -5.07e-02 -4.34e-02 -5.14e-02  1.51e-02
## 63604   3.65e-04 -2.59e-03  2.26e-03 -5.75e-04 -3.68e-04  2.46e-03 -1.66e-03
## 14210   3.26e-03  1.18e-02 -1.07e-02  3.00e-04 -3.25e-03 -1.15e-03  1.68e-02
## 84495  -4.59e-05 -1.28e-03  8.24e-04 -3.91e-03  7.86e-05 -2.96e-03 -2.65e-03
## 119749  3.87e-04 -1.01e-03  5.36e-04 -2.94e-03 -3.59e-04 -2.86e-03 -2.94e-03
## 4636   -8.45e-03 -1.86e-03  3.30e-03  5.59e-04  8.42e-03  2.18e-03 -5.23e-04
## 111563  2.74e-03  5.35e-04 -4.32e-04  6.06e-03 -2.78e-03  6.99e-03 -3.27e-03
## 100313  1.94e-03  2.24e-04 -3.20e-04  3.04e-03 -1.96e-03  4.13e-03 -3.20e-03
## 93762  -2.71e-03  1.51e-02 -2.19e-02 -6.30e-03  2.81e-03 -1.27e-02  1.95e-03
## 81760  -8.59e-04 -3.28e-03  2.12e-03 -8.73e-03  9.35e-04 -7.19e-03 -4.12e-03
## 59566   1.72e-04 -6.51e-04  6.21e-04 -9.57e-04 -1.65e-04 -4.66e-04  1.72e-03
## 121997  2.20e-03  4.04e-03 -5.42e-03  1.88e-03 -2.21e-03 -9.62e-04 -5.70e-03
## 29701  -4.67e-03 -5.93e-02  5.57e-02 -1.06e-02  4.78e-03 -1.17e-03  3.17e-03
## 85855   1.38e-03 -7.71e-04  7.92e-04  1.54e-03 -1.41e-03  8.03e-03 -5.44e-04
## 88894   2.19e-03  1.36e-02 -1.47e-02 -1.03e-03 -2.18e-03 -7.76e-03  2.54e-02
## 109483 -8.66e-03 -7.55e-04 -1.03e-03 -2.29e-02  8.85e-03 -2.97e-02  9.30e-03
## 52086   2.17e-03 -8.90e-04  1.38e-03  3.71e-03 -2.21e-03  5.13e-03  9.47e-03
## 93336   7.50e-04 -2.31e-03  1.92e-03 -5.71e-03 -7.02e-04 -3.93e-03  1.30e-02
## 101231 -2.85e-03  5.71e-02 -5.43e-02  2.12e-02  2.60e-03  2.52e-03  1.07e-02
## 27056   7.59e-04 -3.56e-03  5.83e-03 -2.45e-03 -7.41e-04 -1.89e-03 -2.40e-03
## 44560   1.26e-04 -4.50e-04  4.35e-04 -6.99e-04 -1.20e-04 -3.59e-04  1.19e-03
## 64895  -5.86e-03 -2.02e-02  1.97e-02 -7.60e-03  5.93e-03 -8.52e-03  7.73e-03
## 106325  4.79e-03 -2.05e-03  3.43e-03  1.19e-02 -4.87e-03  1.16e-02 -4.49e-03
## 77117   1.85e-03 -8.84e-04  1.08e-03  2.60e-03 -1.87e-03  3.36e-03  6.00e-03
## 72714  -1.12e-03  1.19e-03 -2.29e-03 -1.23e-02  1.24e-03 -1.42e-02 -5.87e-03
## 79388   8.85e-04  1.86e-04  2.09e-05  2.25e-03 -9.09e-04  3.13e-03 -8.57e-04
## 61485   2.66e-03 -8.24e-03  1.08e-02  2.18e-02 -2.85e-03  3.15e-02  1.37e-02
## 76483  -7.03e-03  3.17e-02 -3.06e-02 -8.26e-03  7.07e-03 -2.94e-02  4.58e-03
## 112234  4.67e-03  5.37e-03 -7.29e-03  3.77e-03 -4.67e-03 -2.52e-03  7.78e-03
## 14098  -1.64e-02  1.38e-04 -2.70e-04 -5.51e-03  1.64e-02 -5.96e-03 -3.40e-03
## 4489   -9.73e-03 -1.13e-03  6.20e-04 -3.00e-03  9.75e-03 -2.67e-03 -3.14e-03
## 77447  -4.87e-03  5.70e-03 -6.61e-03  1.45e-02  4.78e-03  5.78e-03 -5.92e-02
## 14464   5.51e-03 -2.00e-02  1.80e-02  3.07e-03 -5.48e-03  5.64e-03 -8.73e-03
## 96295   3.96e-03  7.49e-03 -9.00e-03  8.98e-03 -4.02e-03  5.35e-03 -6.24e-03
## 23749  -9.26e-03 -1.08e-03 -2.87e-03  2.35e-03  9.17e-03  6.27e-03 -4.85e-02
## 59784   4.78e-03  1.02e-02 -1.13e-02  6.38e-03 -4.81e-03 -3.62e-04  1.54e-02
## 91877   1.79e-03  9.24e-06  1.91e-04  3.95e-03 -1.82e-03  4.79e-03 -2.33e-03
## 17716   2.95e-03  1.08e-03 -1.81e-03  7.85e-03 -3.01e-03  8.95e-03 -3.34e-03
## 35336   7.02e-04 -1.39e-03  1.18e-03  3.68e-04 -7.07e-04  1.47e-03  3.21e-03
## 30181   4.75e-03  6.66e-03 -6.51e-03  2.63e-03 -4.73e-03 -3.64e-03  1.96e-02
## 48062   2.52e-03 -2.09e-03  2.83e-03  5.59e-03 -2.57e-03  5.85e-03 -3.58e-03
## 60337  -5.52e-03  2.64e-02 -2.45e-02 -6.11e-03  5.54e-03 -1.34e-02  6.74e-03
## 30259   2.06e-03  5.39e-05  3.30e-04  3.91e-03 -2.08e-03  4.19e-03 -2.53e-03
## 98167  -1.92e-04 -4.74e-04  7.15e-04 -5.57e-03  2.37e-04 -4.28e-03 -2.76e-03
## 65568   8.53e-04 -3.42e-03  3.82e-03  2.24e-03 -9.04e-04  3.80e-03 -3.17e-03
## 18494   5.03e-03  1.37e-02 -1.52e-02  1.20e-02 -5.11e-03 -2.19e-04 -9.74e-03
## 118302 -1.53e-02 -4.05e-02  3.58e-02 -5.75e-02  1.58e-02 -4.86e-02  2.14e-03
## 20550  -8.64e-03  3.48e-04 -1.05e-04 -6.75e-03  8.66e-03 -8.35e-03  1.74e-02
## 78413  -2.31e-03 -1.52e-02  1.76e-02 -1.84e-02  2.47e-03 -1.79e-02 -5.88e-03
```

```
## 87893   1.37e-03 -1.17e-04 -1.50e-04  2.48e-03 -1.39e-03  4.37e-03 -2.79e-03
## 80866  -1.39e-04 -5.28e-03  7.49e-03  1.75e-02  8.57e-06  2.21e-02  1.54e-02
## 104921  2.18e-03  2.69e-04 -5.15e-04  4.53e-03 -2.21e-03  4.80e-03 -2.92e-03
## 36474   6.39e-04 -4.61e-04  2.75e-04 -2.09e-03 -6.12e-04 -1.99e-03 -2.74e-03
## 44606  -2.04e-03  6.07e-03 -4.23e-03  2.60e-02  1.78e-03  2.29e-02  2.22e-02
## 61878  -1.29e-03 -1.49e-03  1.46e-03 -9.74e-03  1.37e-03 -8.08e-03 -2.86e-03
## 2563    2.75e-03  3.59e-04 -3.55e-04 -1.72e-04 -2.74e-03 -6.87e-04  7.17e-04
## 7206    5.35e-02  7.93e-03 -1.09e-02 -1.47e-02 -5.33e-02 -1.97e-02 -4.64e-02
## 43241   3.46e-03 -2.87e-03  4.85e-03  5.44e-03 -3.51e-03  6.51e-03  1.75e-02
## 80114   5.96e-03 -1.76e-02  1.63e-02  7.58e-03 -5.96e-03  1.08e-02 -7.31e-03
## 48454  -8.24e-03 -2.50e-02  2.80e-02 -2.64e-02  8.43e-03 -1.33e-02  1.25e-02
## 36375  -2.63e-03  4.03e-02 -3.82e-02  1.59e-02  2.42e-03  1.38e-03  8.54e-03
## 87444  -2.82e-03 -8.65e-03  1.01e-02  7.32e-03  2.81e-03  1.50e-02 -4.65e-02
## 3622    2.90e-03  1.08e-03 -1.04e-03  1.80e-03 -2.90e-03  1.16e-03 -1.63e-03
## 106619 -8.06e-04 -4.37e-04  6.25e-04 -6.71e-03  8.54e-04 -5.97e-03 -2.13e-03
## 31108   1.01e-02 -5.66e-03  5.58e-03  2.91e-02 -1.03e-02  3.05e-02 -5.48e-03
## 5681   -7.55e-03 -5.07e-04  1.08e-03 -1.06e-03  7.54e-03 -3.35e-04 -1.15e-03
## 89197   9.68e-04 -5.49e-03  7.57e-03 -6.03e-04 -9.70e-04  8.54e-04 -2.47e-03
## 12234  -1.24e-02  3.64e-04 -1.26e-03 -3.73e-03  1.25e-02 -4.70e-03 -4.10e-03
## 1864   -7.77e-03 -1.48e-03  1.52e-03 -1.87e-03  7.76e-03 -1.64e-04 -1.04e-03
## 51951   1.94e-03  6.49e-03 -6.07e-03 -2.50e-03 -1.90e-03 -3.17e-03 -3.99e-03
## 12333  -2.38e-02  1.18e-02 -1.30e-02 -1.14e-03  2.38e-02 -8.67e-03 -8.66e-03
## 22141   1.02e-03 -6.21e-03  5.81e-03 -7.58e-03 -9.32e-04 -4.75e-03 -4.72e-03
## 88655   1.01e-03 -9.36e-04  1.09e-03  1.62e-03 -1.03e-03  1.92e-03 -1.91e-03
## 47255   3.17e-03 -5.64e-02  6.21e-02  6.06e-03 -3.23e-03  1.57e-02 -1.57e-03
## 11547  -5.24e-03 -2.82e-04  2.03e-04  1.12e-03  5.22e-03  1.36e-03 -1.61e-03
## 25737   2.87e-03  5.12e-04 -1.50e-03  7.61e-03 -2.94e-03  8.72e-03 -3.73e-03
## 42453   1.03e-03 -1.56e-03  1.36e-03  1.22e-03 -1.05e-03  2.65e-03  4.41e-03
## 11433   9.60e-02  1.97e-02 -3.46e-02  6.59e-02 -9.63e-02  5.54e-02 -6.74e-02
## 63066   1.82e-03 -1.01e-03  4.11e-03  3.04e-03 -1.87e-03  5.71e-03  1.43e-02
## 124264  1.00e-02  5.00e-03 -2.94e-03  4.64e-03 -1.00e-02  6.77e-03  2.41e-04
## 91432  -1.00e-03 -2.88e-03  5.45e-03 -1.01e-02  1.09e-03 -9.62e-03 -2.89e-03
## 106237  1.97e-03  2.89e-03 -3.09e-03  3.96e-04 -1.95e-03 -1.65e-03 -5.44e-03
## 94756   2.71e-03  6.97e-04 -5.97e-04  4.62e-03 -2.75e-03  3.25e-03 -4.49e-03
## 111750  1.52e-03 -3.33e-03  2.44e-03  2.07e-03 -1.54e-03  4.23e-03 -2.72e-03
## 55494  -1.21e-03  2.63e-02 -2.91e-02 -1.53e-02  1.36e-03 -3.68e-02 -1.31e-02
## 57324   1.35e-03 -2.53e-04 -1.27e-04  1.48e-03 -1.36e-03  1.79e-03 -2.89e-03
## 40377   3.21e-03 -2.39e-04 -5.62e-04  3.10e-03 -3.22e-03  3.17e-03  8.18e-03
## 104329  9.33e-04 -2.33e-04  1.21e-03  5.64e-04 -9.46e-04  2.20e-03 -2.38e-03
## 10104  -2.71e-02 -1.46e-02  1.79e-02 -8.62e-03  2.71e-02 -6.56e-03 -2.83e-03
## 115172 -2.52e-03 -4.78e-03  6.30e-03  2.38e-02  2.26e-03  3.26e-02  2.21e-02
## 27449   1.29e-03 -1.45e-03  2.98e-03 -7.88e-03 -1.18e-03 -1.29e-02 -7.11e-03
## 71190   2.30e-03  4.55e-04 -5.87e-04  6.54e-03 -2.36e-03  8.42e-03 -2.67e-03
## 84077   2.11e-03  7.62e-03 -7.68e-03  1.73e-02 -2.29e-03  1.81e-02  3.74e-03
## 30825   2.23e-04 -4.30e-04  1.47e-03 -3.77e-03 -1.98e-04 -4.07e-03 -2.92e-03
## 117914 -3.80e-03 -5.82e-02  5.53e-02 -9.88e-03  3.91e-03 -1.75e-03  3.23e-03
## 50776  -4.59e-04 -1.65e-03  1.06e-03 -4.36e-03  4.81e-04 -2.78e-03 -2.36e-03
## 25428  -4.91e-04 -5.14e-04  6.58e-04 -4.67e-03  5.17e-04 -3.54e-03 -2.00e-03
## 85673   1.68e-03 -4.59e-03  7.09e-03 -1.30e-02 -1.52e-03 -1.99e-02  2.74e-02
## 44378   2.20e-03  2.89e-03 -2.62e-03  4.41e-03 -2.25e-03  7.87e-03  1.09e-02
## 110982 -8.88e-04 -2.75e-03  1.84e-03 -6.93e-03  9.41e-04 -5.57e-03 -2.85e-03
## 125084  5.06e-03 -5.10e-04  3.03e-04  3.39e-03 -5.08e-03  4.21e-03 -1.60e-03
## 22345   6.54e-05 -3.92e-03  5.66e-03 -4.91e-03 -2.97e-05 -4.27e-03 -2.98e-03
## 18875   2.42e-04  1.40e-03 -1.95e-03 -3.02e-03 -2.27e-04 -3.81e-03 -4.40e-03
## 21780   1.76e-03 -1.47e-03  1.29e-03  3.38e-03 -1.79e-03  5.36e-03 -2.11e-03
## 35015  -1.31e-02 -1.64e-02  1.86e-02 -3.38e-02  1.33e-02 -2.59e-02  1.62e-02
## 82195   1.56e-03 -2.38e-04 -7.03e-04  2.23e-03 -1.57e-03  2.72e-03 -3.23e-03
## 28777  -1.10e-04 -1.65e-02  2.25e-02 -1.64e-02  2.73e-04 -1.45e-02  2.82e-02
## 80349   3.97e-04  6.18e-05  2.77e-04 -5.19e-03 -3.49e-04 -6.51e-03 -4.26e-03
## 98007  -4.64e-04 -1.13e-03  2.26e-03 -1.12e-02  5.45e-04 -1.29e-02  2.15e-02
## 110171  1.25e-03 -5.39e-04 -3.06e-04  9.51e-04 -1.25e-03  1.38e-03 -3.20e-03
## 56972  -1.10e-02 -5.97e-02  5.97e-02 -2.34e-02  1.12e-02 -1.93e-02  1.26e-02
## 55345  -7.31e-03 -2.58e-02  2.92e-02  3.17e-03  7.24e-03  1.96e-02 -4.16e-02
## 34529   2.15e-03  1.03e-02 -1.02e-02  3.03e-03 -2.18e-03  2.26e-03 -2.92e-03
## 20090  -5.41e-03  1.73e-04 -1.48e-03 -1.61e-02  5.52e-03 -1.17e-02  7.80e-03
## 5281   -1.69e-02  1.58e-02 -1.78e-02  1.33e-02  1.68e-02  1.12e-03 -1.19e-02
## 46986  -1.50e-04  6.51e-02 -7.31e-02  1.29e-02  3.92e-05  4.47e-03  3.98e-03
## 98065   7.17e-04  8.33e-03 -8.91e-03 -2.34e-03 -6.89e-04 -8.55e-03 -5.94e-03
## 40368   1.55e-03  6.56e-06 -7.18e-05  2.22e-03 -1.57e-03  2.58e-03 -2.69e-03
## 26008  -1.61e-05 -9.53e-04  7.00e-04 -4.03e-03  5.11e-05 -3.39e-03 -2.62e-03
## 25243  -4.55e-03 -8.39e-03  9.91e-03  7.27e-03  4.41e-03  1.46e-02  1.78e-02
## 81668   1.64e-04  2.11e-04 -1.30e-04  5.25e-05 -1.65e-04  1.79e-04 -3.52e-04
## 8561    5.15e-02  1.29e-02 -1.44e-02 -2.39e-02 -5.13e-02 -2.28e-02  9.08e-03
## 69698   2.52e-03 -5.48e-04  8.89e-04  1.70e-03 -2.54e-03  1.54e-03  1.37e-02
## 59075   7.42e-04  1.96e-02 -1.75e-02  1.87e-02 -9.63e-04  2.55e-02  8.94e-03
## 75569   3.80e-03  1.38e-03 -1.12e-03  9.39e-03 -3.86e-03  8.26e-03 -4.70e-03
## 35514   1.28e-03 -1.37e-03  8.31e-04  3.76e-03 -1.31e-03  5.28e-03 -1.42e-03
## 126972  1.65e-02 -1.57e-03  4.09e-03 -5.02e-03 -1.64e-02 -3.80e-03 -1.05e-03
## 405    -1.80e-03 -2.71e-04  1.77e-04 -5.41e-04  1.81e-03 -4.82e-04 -6.68e-04
## 38698   2.84e-03  6.16e-03 -7.45e-03  2.52e-03 -2.84e-03 -1.27e-03 -6.55e-03
## 47632  -1.89e-03 -1.73e-03  4.14e-03 -1.41e-02  1.98e-03 -1.27e-02  1.86e-02
## 67821  -1.37e-04 -4.64e-04  5.00e-04 -1.77e-03  1.46e-04 -7.54e-04 -8.19e-04
## 87924  -5.27e-03  9.63e-03 -6.79e-03  1.31e-02  5.21e-03  4.16e-03 -5.64e-02
## 22414   2.20e-03  2.13e-03 -2.78e-03  2.36e-04 -2.20e-03 -9.11e-04  1.19e-02
## 5883    2.35e-03  7.65e-04 -6.46e-04  5.73e-04 -2.35e-03  1.23e-04  6.91e-04
## 5680    6.52e-02 -1.28e-02  1.54e-02 -3.73e-02 -6.48e-02 -2.00e-02  2.85e-02
## 19039   7.53e-03 -3.25e-04 -2.55e-04  1.64e-02 -7.63e-03  1.47e-02 -7.41e-03
## 111161 -1.28e-02 -2.47e-03  1.41e-03 -3.78e-02  1.31e-02 -3.57e-02  1.18e-02
## 101179 -5.39e-03  3.71e-03 -3.21e-03 -3.93e-02  5.75e-03 -5.10e-02 -9.40e-03
## 121217 -1.15e-03  3.90e-02 -3.67e-02  7.76e-03  1.08e-03 -9.82e-03  3.24e-03
## 70471  -1.38e-03 -1.14e-03  3.38e-03 -1.17e-02  1.48e-03 -1.20e-02 -2.59e-03
## 112001  2.09e-03  2.95e-03 -3.97e-03 -1.53e-03 -2.06e-03 -3.50e-03  1.01e-02
## 130277  1.64e-02  7.65e-04 -5.25e-05 -3.70e-03 -1.64e-02 -3.21e-03 -2.37e-03
## 71100   3.06e-03  1.65e-04  4.78e-04  1.73e-03 -3.06e-03  6.37e-04  1.21e-02
## 127744  1.14e-02 -1.61e-03  1.18e-03 -8.33e-03 -1.13e-02 -6.64e-03 -3.14e-03
## 24222  -1.14e-02  2.99e-02 -2.86e-02 -1.73e-02  1.15e-02 -2.57e-02 -3.95e-02
## 122114  1.99e-03 -3.32e-04  1.42e-04  2.13e-03 -2.01e-03  3.00e-03  8.11e-03
## 58762  -3.85e-04  1.40e-03 -5.31e-04 -4.36e-03  4.16e-04 -4.34e-03 -1.60e-03
```

```
## 39961  -1.79e-02 -7.01e-03  1.08e-03 -2.16e-02  1.81e-02 -3.33e-02 -6.25e-02
## 54886   2.79e-03  7.95e-03 -7.14e-03  3.24e-03 -2.81e-03  4.31e-03 -2.39e-03
## 127271  1.27e-02  7.25e-05 -5.34e-04 -4.66e-03 -1.26e-02 -9.98e-04 -2.22e-03
## 79839   9.06e-04 -4.45e-04  6.27e-04  1.37e-03 -9.26e-04  2.75e-03  4.90e-03
## 114462 -1.03e-03 -6.55e-03  9.25e-03  2.27e-02  8.78e-04  2.51e-02 -5.16e-02
## 113840 -2.45e-03 -4.22e-04  1.01e-03 -1.13e-02  2.52e-03 -8.79e-03 -1.55e-03
## 125072  4.53e-03 -1.33e-03  1.07e-03  6.54e-04 -4.52e-03  1.69e-03 -1.60e-03
## 25698   1.38e-03  4.45e-03 -5.42e-03 -1.73e-03 -1.35e-03 -4.43e-03 -5.62e-03
## 75293  -1.42e-03 -2.12e-02  2.70e-02 -1.44e-02  1.55e-03 -1.18e-02 -1.74e-03
## 116582  8.01e-03  7.93e-03 -7.90e-03  1.81e-02 -8.12e-03  1.37e-02 -7.62e-03
## 98362   7.95e-04  6.19e-03 -7.66e-03 -9.23e-03 -6.83e-04 -1.63e-02 -8.85e-03
## 65367  -1.00e-04 -7.12e-04  7.47e-04 -1.94e-03  1.11e-04 -8.50e-04 -8.89e-04
## 56520   9.14e-04  8.53e-03 -7.53e-03 -1.36e-02 -7.88e-04 -1.66e-02  2.32e-02
## 59936   8.51e-04 -5.42e-04  1.02e-03 -2.17e-03 -8.41e-04 -9.64e-04  9.62e-03
## 47646   3.12e-03  6.77e-03 -7.63e-03  5.33e-03 -3.18e-03  1.34e-03  2.12e-02
## 72303   1.57e-03  7.56e-05 -1.53e-03 -2.98e-03 -1.54e-03 -4.57e-03  6.85e-03
## 19534   5.22e-03  1.38e-02 -1.58e-02  6.46e-03 -5.20e-03 -3.85e-03 -1.11e-02
## 128351  8.30e-03 -8.09e-04  2.01e-04 -2.07e-03 -8.26e-03 -1.90e-03 -3.55e-03
## 56     -1.64e-02 -6.89e-04  1.65e-03  8.44e-03  1.63e-02  8.37e-03  1.26e-02
## 79018   2.53e-03  6.22e-04 -8.50e-04  6.58e-03 -2.58e-03  8.06e-03 -3.02e-03
## 42768   7.85e-04 -1.55e-02  1.45e-02 -9.09e-03 -6.82e-04 -3.45e-03 -4.68e-03
## 1449   -1.50e-02 -5.59e-03  6.99e-03  2.03e-03  1.49e-02  4.03e-03  1.14e-02
## 6113    2.68e-03  9.11e-04 -7.48e-04  2.62e-04 -2.68e-03 -2.51e-04  8.92e-04
## 22418   4.30e-04 -2.15e-04  1.21e-04  8.71e-04 -4.36e-04  1.02e-03 -5.40e-04
## 97080  -3.84e-03 -2.87e-03  9.36e-04  7.43e-04  3.81e-03  3.55e-03  1.05e-02
## 71393   2.98e-03  1.79e-03 -1.77e-03  2.66e-03 -3.00e-03  1.51e-03  1.36e-02
## 122421 -1.09e-03  4.84e-03 -3.67e-03  1.87e-02  9.41e-04  1.28e-02  1.65e-02
## 90578   3.89e-03  2.22e-02 -1.99e-02  4.02e-02 -4.28e-03  4.21e-02  1.19e-02
## 7292    2.29e-03  4.18e-04 -4.41e-04  2.08e-04 -2.28e-03 -3.07e-04 -1.50e-03
## 37362   1.09e-02 -3.15e-02  2.74e-02  2.72e-02 -1.11e-02  3.01e-02 -9.85e-03
## 61702   2.06e-04  1.32e-02 -1.30e-02 -9.14e-03 -1.18e-04 -1.25e-02 -4.81e-03
## 65645   5.98e-04  5.07e-04 -2.38e-04  1.13e-03 -6.10e-04  1.57e-03 -6.90e-04
## 3351   -4.12e-03 -5.15e-04  3.91e-04 -1.29e-03  4.12e-03 -1.04e-03 -1.21e-03
## 17560  -1.16e-02 -1.34e-03 -2.67e-04 -2.45e-02  1.18e-02 -2.82e-02  1.41e-02
## 14909   1.87e-03  1.43e-03 -1.96e-03  3.28e-04 -1.85e-03 -1.60e-03 -5.24e-03
## 103402 -7.42e-04 -7.67e-03  6.78e-03 -1.28e-02  8.58e-04 -9.09e-03 -4.39e-03
## 116563  1.51e-03 -6.41e-03  8.69e-03  2.01e-03 -1.53e-03  3.98e-03 -2.16e-03
## 91141   1.25e-03 -1.22e-04  2.40e-04  1.43e-03 -1.26e-03  2.01e-03 -2.45e-03
## 4066   -1.87e-02 -6.56e-03  9.40e-03 -5.90e-03  1.87e-02 -3.53e-03 -1.07e-03
## 108126  6.73e-04 -1.28e-03  1.03e-03  6.18e-04 -6.78e-04  1.59e-03 -1.26e-03
## 9872    3.57e-04  3.27e-05 -4.33e-05  1.86e-04 -3.58e-04  1.24e-04  4.91e-05
## 56358   1.96e-03  1.23e-02 -1.97e-02  1.49e-02 -2.01e-03  9.50e-03  3.76e-03
## 75135  -2.28e-05  9.42e-04 -6.00e-04 -1.16e-03  2.77e-05 -7.28e-04 -5.36e-04
## 106953  2.86e-03  8.61e-04 -1.45e-03  6.68e-03 -2.90e-03  7.53e-03 -3.71e-03
## 70984  -3.33e-03 -3.37e-03  3.02e-03  9.14e-03  3.29e-03  8.18e-03 -5.44e-02
## 100732  6.38e-04 -1.06e-03  9.31e-04  6.81e-04 -6.45e-04  1.84e-03 -1.15e-03
## 102541  7.73e-04  3.06e-03 -3.96e-03 -2.28e-03 -7.52e-04 -4.01e-03 -5.03e-03
## 55943   3.65e-05 -2.41e-04  2.59e-04 -8.72e-04 -2.91e-05 -4.99e-04 -5.77e-04
## 74925  -1.11e-03 -3.50e-02  3.80e-02  2.28e-02  8.02e-04  5.59e-02  2.27e-02
## 52547  -6.42e-04 -2.49e-03  2.60e-03 -1.03e-02  7.27e-04 -7.97e-03  1.39e-02
## 17441  -3.02e-04 -1.85e-02  1.68e-02 -1.46e-02  4.43e-04 -8.96e-03 -5.91e-03
## 83510   1.83e-04  3.17e-03 -4.27e-03 -5.79e-03 -1.20e-04 -7.77e-03 -5.54e-03
## 29100   1.22e-03 -1.04e-05  9.46e-04  1.75e-03 -1.24e-03  2.66e-03 -1.76e-03
## 32807   4.36e-03 -1.63e-02  1.53e-02 -5.27e-03 -4.22e-03 -1.23e-02 -1.18e-02
## 58844   1.46e-03  1.81e-03 -7.72e-04  4.24e-03 -1.50e-03  5.90e-03 -9.14e-04
## 73433   3.15e-04 -8.44e-04  1.20e-03 -3.38e-03 -2.91e-04 -1.53e-03  7.27e-03
## 84307  -1.90e-03  8.80e-04 -2.48e-04 -1.43e-02  2.03e-03 -1.53e-02 -4.05e-03
## 36006   1.33e-03 -1.72e-02  1.54e-02 -1.33e-02 -1.17e-03 -1.15e-02 -8.63e-03
## 77511   8.32e-04  6.68e-04 -2.61e-04  1.95e-03 -8.51e-04  2.51e-03 -6.85e-04
## 18328  -9.04e-03 -2.17e-02  1.85e-02 -1.22e-02  9.06e-03  2.20e-03  1.11e-02
## 2520   -1.78e-02 -4.46e-03  5.07e-03 -8.75e-04  1.78e-02 -3.10e-03 -6.29e-03
## 78215   1.52e-03 -3.10e-02  2.85e-02 -6.28e-03 -1.44e-03  2.30e-03 -5.09e-03
## 106959 -5.97e-04 -1.48e-04  1.19e-03 -1.05e-02  6.67e-04 -9.65e-03  2.24e-02
## 123480 -2.23e-02 -8.15e-03  7.96e-03  2.98e-02  2.20e-02  3.68e-02  4.92e-03
## 21637   6.04e-04  5.49e-03 -5.29e-03 -6.24e-03 -5.18e-04 -1.21e-02 -6.66e-03
## 33327   4.70e-03  6.69e-03 -7.65e-03  3.56e-03 -4.70e-03 -2.91e-03  1.20e-02
## 121621  2.01e-03 -9.75e-05  1.03e-04  4.13e-03 -2.04e-03  4.52e-03 -2.72e-03
## 79817  -2.99e-04  2.13e-02 -1.72e-02 -2.66e-02  5.73e-04 -4.16e-02  2.99e-02
## 17126   2.66e-03  5.69e-05 -7.69e-04  4.48e-03 -2.70e-03  5.04e-03  7.96e-03
## 38185   1.18e-03 -2.75e-03  1.61e-03 -3.54e-03 -1.15e-03 -2.04e-03  1.01e-02
## 67994   5.35e-03  3.60e-02 -3.44e-02  1.45e-02 -5.48e-03  7.70e-03  1.34e-02
## 121511  2.86e-03  8.38e-04 -1.95e-03  7.24e-03 -2.91e-03  8.23e-03 -3.88e-03
## 62020  -2.37e-03 -2.68e-02  2.52e-02 -3.18e-02  2.74e-03 -3.09e-02 -9.19e-03
## 25898   5.05e-04 -1.31e-03  9.51e-04  3.82e-04 -5.07e-04  1.11e-03 -1.15e-03
## 73609   4.52e-03  8.72e-03 -4.33e-03  2.17e-03 -4.45e-03 -1.04e-02 -7.17e-03
## 119314  8.19e-03  1.38e-02 -1.33e-02  1.05e-02 -8.19e-03 -2.92e-03  2.22e-02
## 14327  -6.21e-03 -1.21e-02  1.52e-02 -2.76e-03  6.19e-03  4.49e-03  1.88e-02
## 74850  -6.07e-03  1.24e-02 -1.66e-02  5.79e-04  6.06e-03  2.26e-03 -4.90e-02
## 38525  -8.60e-03 -2.63e-04 -2.97e-03 -5.11e-03  8.64e-03 -7.42e-03  1.72e-02
## 62654   9.31e-04  2.60e-02 -2.41e-02  2.41e-02 -1.20e-03  2.31e-02  9.48e-03
## 19385   3.42e-03  3.60e-03 -4.34e-03  3.07e-03 -3.43e-03  5.56e-04  8.70e-03
## 15192  -1.75e-02  7.55e-03 -5.32e-03 -4.74e-02  1.79e-02 -6.08e-02  1.54e-02
## 112359  1.99e-03  3.15e-03 -3.59e-03  6.07e-04 -1.97e-03 -1.51e-03 -5.60e-03
## 84246  -3.78e-04 -1.40e-03  1.07e-03 -5.73e-03  4.29e-04 -5.08e-03 -2.67e-03
## 37507   1.94e-03 -1.68e-05  3.51e-04  2.44e-03 -1.96e-03  1.63e-03 -3.95e-03
## 115657  1.40e-03  1.07e-03 -1.62e-03 -2.46e-03 -1.39e-03 -3.12e-03  1.37e-02
## 126451  1.40e-02 -1.74e-02  1.64e-02 -6.15e-03 -1.39e-02  2.15e-03 -2.81e-03
## 2989    8.64e-02  2.91e-03 -3.05e-03  1.49e-02 -8.64e-02  1.80e-02  2.41e-02
## 45956  -1.30e-02 -1.65e-02  1.51e-02 -3.44e-02  1.32e-02 -2.87e-02  8.81e-03
## 64771   3.75e-03  2.06e-02 -2.21e-02 -8.69e-03 -3.59e-03 -2.47e-02  1.71e-02
## 72353   1.50e-03 -1.78e-04 -2.54e-04  1.87e-03 -1.51e-03  2.20e-03 -2.97e-03
## 82999   6.57e-05 -7.56e-04  6.39e-04 -2.75e-03 -5.37e-05 -7.02e-04 -2.40e-03
## 12647  -1.62e-02 -7.46e-04  1.00e-03 -9.15e-03  1.62e-02 -9.43e-03 -3.13e-03
## 10501   7.34e-02 -2.50e-02  3.10e-02 -3.27e-02 -7.30e-02 -1.87e-02  2.99e-02
## 108957 -1.05e-03 -1.20e-03  1.17e-03 -9.38e-03  1.13e-03 -8.25e-03 -3.26e-03
## 84895   2.21e-03 -1.76e-04 -5.28e-04  2.53e-03 -2.22e-03  2.77e-03 -4.42e-03
## 41355   8.21e-04 -3.68e-04  2.04e-04 -1.35e-03 -8.06e-04 -1.17e-03 -2.81e-03
## 13738  -1.83e-02 -8.40e-03  8.09e-03  1.10e-03  1.82e-02  4.17e-03 -4.84e-03
```

```
## 90692  -7.99e-03 -7.07e-03  9.13e-03 -3.16e-03  7.94e-03  5.32e-03  2.05e-02
## 12415   6.17e-02 -1.26e-02  1.16e-02 -2.10e-02 -6.14e-02 -1.43e-02 -4.64e-02
## 19080  -7.75e-03 -3.52e-03  2.55e-03 -2.89e-03  7.69e-03  1.00e-02  1.90e-02
## 40841   1.57e-03  3.47e-04  3.59e-04  3.68e-03 -1.61e-03  5.76e-03 -1.90e-03
## 17035  -1.27e-02 -1.46e-02  1.78e-02 -1.47e-02  1.28e-02 -7.02e-03 -4.74e-02
## 79711  -1.41e-03  8.46e-04  5.81e-05 -1.38e-02  1.55e-03 -1.52e-02 -4.47e-03
## 83690   7.83e-04 -4.99e-04  2.14e-04 -1.18e-03 -7.67e-04 -1.11e-03 -2.80e-03
## 15676  -2.85e-03  4.59e-03 -6.16e-03  1.82e-02  2.63e-03  2.91e-02  1.93e-02
## 26420   2.73e-03 -7.56e-03  6.70e-03 -4.14e-04 -2.71e-03  2.77e-03 -4.96e-03
## 15357   1.00e-03 -9.01e-04  1.38e-03 -4.51e-03 -9.56e-04 -2.86e-03  1.34e-02
## 112932 -7.00e-03 -1.40e-03  1.11e-03 -1.14e-02  7.03e-03 -4.89e-03  8.71e-03
## 123306  1.10e-02  4.45e-03 -1.95e-03 -6.87e-03 -1.09e-02 -6.27e-03 -9.88e-04
## 71928  -2.64e-04  4.52e-04  3.56e-04 -5.08e-03  2.96e-04 -4.05e-03 -2.56e-03
## 94682  -1.94e-03 -7.27e-04  1.46e-03 -1.91e-02  2.14e-03 -2.30e-02 -4.50e-03
## 87626   2.38e-03  1.12e-03 -8.29e-04  2.05e-03 -2.37e-03  3.27e-04 -4.65e-03
## 106705  3.79e-03  6.41e-03 -7.57e-03  3.24e-03 -3.80e-03 -1.94e-03  2.05e-02
## 88468   6.36e-04 -9.32e-04  3.49e-04 -1.50e-03 -6.25e-04 -8.69e-04 -2.93e-03
## 23662  -1.11e-02  2.64e-02 -2.29e-02 -9.28e-03  1.11e-02 -1.08e-02  1.75e-02
## 84432  -3.72e-03  8.80e-03 -8.68e-03 -2.92e-03  3.68e-03 -1.52e-03  5.82e-03
## 77522   8.53e-04 -1.75e-03  1.69e-03  1.27e-03 -8.69e-04  4.17e-03 -1.49e-03
## 46059   5.84e-04  3.35e-02 -4.18e-02  2.65e-02 -7.83e-04  2.09e-02 -5.28e-02
## 94614  -1.35e-02  1.23e-03 -4.79e-03 -8.09e-03  1.35e-02 -1.29e-02 -5.70e-02
## 126950  1.52e-02 -7.76e-03  1.17e-02 -2.04e-02 -1.50e-02 -2.14e-02  2.46e-02
## 148    -9.16e-03 -8.12e-04  1.08e-03 -1.52e-03  9.14e-03 -4.28e-04 -1.31e-03
## 52368  -1.15e-03 -2.35e-03  1.81e-03 -9.44e-03  1.23e-03 -7.75e-03 -3.38e-03
## 15034  -1.77e-02 -8.73e-03  2.70e-03 -5.15e-02  1.82e-02 -6.44e-02  1.57e-02
## 111506  5.25e-03  5.21e-03 -6.17e-03  8.45e-03 -5.27e-03  1.87e-03 -9.13e-03
## 43129  -8.83e-03  4.80e-02 -5.63e-02 -1.82e-02  8.97e-03 -2.51e-02  6.22e-03
## 22631  -1.07e-03  2.99e-04  8.59e-04 -5.24e-03  1.10e-03 -2.44e-03 -8.01e-04
## 83481  -9.39e-03 -1.13e-02  8.68e-03 -2.11e-02  9.56e-03 -2.08e-02 -4.45e-02
## 32691  -2.79e-03  1.44e-02 -1.71e-02  4.15e-03  2.68e-03  1.18e-02  6.09e-03
## 3715   -3.64e-02 -2.61e-02  2.47e-02  1.43e-02  3.63e-02  1.31e-02  2.60e-02
## 9761    8.50e-02  4.57e-03 -1.80e-03  8.37e-03 -8.50e-02  5.66e-03  2.64e-02
## 37332   8.55e-03 -1.86e-03  1.48e-03  2.28e-02 -8.72e-03  1.88e-02 -7.72e-03
## 68730  -1.04e-03 -9.20e-03  9.20e-03 -2.23e-02  1.25e-03 -1.73e-02  2.30e-02
## 69054   4.57e-03  2.69e-03 -3.71e-03 -5.17e-03 -4.50e-03 -1.17e-02  1.98e-02
## 47723   3.74e-03  3.07e-02 -2.90e-02  1.15e-02 -3.85e-03  6.70e-03  1.28e-02
## 75750   3.18e-04 -2.81e-04  4.46e-04 -1.90e-03 -3.09e-04 -9.46e-04 -2.14e-03
## 110849 -2.56e-03  1.72e-02 -2.49e-02  1.08e-02  2.47e-03  7.61e-03  1.10e-02
## 8647   -5.05e-03 -7.04e-04  5.63e-04 -2.39e-03  5.06e-03 -2.06e-03 -1.34e-03
## 75318   1.93e-03  5.77e-05 -8.62e-04  4.33e-03 -1.97e-03  4.83e-03 -3.13e-03
## 62057  -1.56e-02  3.21e-02 -2.83e-02 -1.16e-02  1.56e-02 -2.24e-02 -4.38e-02
## 22983   2.25e-03 -2.29e-04 -9.75e-05  2.64e-03 -2.27e-03  3.40e-03  8.74e-03
## 73566  -6.36e-04  2.26e-03 -2.76e-03 -6.86e-03  6.94e-04 -7.78e-03 -4.22e-03
## 68894   4.15e-03  1.53e-02 -1.30e-02  3.11e-03 -4.12e-03 -5.64e-03 -6.41e-03
## 119099  2.57e-03  6.66e-04 -1.05e-03  6.91e-03 -2.63e-03  8.41e-03 -3.06e-03
## 26799  -1.19e-02 -6.93e-03  1.24e-02  7.99e-03  1.17e-02  1.84e-02 -4.00e-02
## 114209  2.12e-03  2.90e-04 -1.87e-05  4.01e-03 -2.15e-03  4.23e-03 -2.61e-03
## 26849   5.93e-04  3.17e-03 -4.01e-03 -2.80e-03 -5.59e-04 -4.28e-03 -5.01e-03
## 76370   5.75e-04 -9.74e-04  8.06e-04  4.13e-04 -5.76e-04  1.14e-03 -1.09e-03
## 64940  -5.04e-03 -1.79e-02  1.93e-02 -1.15e-02  5.10e-03 -2.30e-04  1.15e-02
## 22200   4.47e-03  2.18e-03 -2.36e-03  8.10e-03 -4.52e-03  6.50e-03  1.13e-02
## 65035  -1.46e-02 -6.17e-03  8.08e-03 -2.83e-02  1.48e-02 -2.03e-02  2.34e-02
## 99073   1.68e-03  3.80e-03 -4.34e-03 -2.25e-03 -1.64e-03 -5.23e-03 -5.92e-03
## 109804 -3.35e-04 -3.31e-03  2.90e-03 -4.17e-03  3.66e-04 -1.49e-03 -1.90e-03
## 32538   6.51e-04 -4.82e-03  7.17e-03 -2.75e-03 -6.35e-04 -1.82e-03 -2.43e-03
## 85310  -6.96e-04  2.81e-04  5.73e-04 -8.04e-03  7.69e-04 -8.39e-03 -3.67e-03
## 46980   8.36e-03  3.65e-03 -1.25e-02  4.16e-02 -8.66e-03  3.91e-02  1.41e-03
## 5432   -1.45e-02 -2.11e-03  1.53e-03 -6.07e-03  1.46e-02 -4.62e-03 -2.93e-03
## 35450  -2.18e-03 -1.46e-03  3.40e-03  1.08e-02  2.09e-03  1.41e-02  1.80e-02
## 61237  -5.91e-05 -1.18e-03  1.01e-03 -1.56e-03  7.03e-05 -6.49e-04 -9.05e-04
## 59531   4.47e-03  8.73e-03 -9.16e-03  8.24e-03 -4.52e-03  6.20e-03 -5.83e-03
## 111695  3.39e-03  1.26e-03 -2.02e-03  6.31e-03 -3.42e-03  5.96e-03 -4.66e-03
## 64065  -1.20e-02  1.98e-02 -1.90e-02 -7.22e-03  1.19e-02 -1.07e-02 -4.18e-02
## 41241   6.31e-04  1.74e-04 -8.69e-05 -5.32e-03 -5.73e-04 -7.08e-03 -4.82e-03
## 81661   1.92e-04 -1.53e-02  1.44e-02 -8.26e-03 -1.14e-04 -1.10e-03 -3.05e-03
## 71561   2.05e-03  1.52e-02 -1.47e-02  5.44e-03 -2.11e-03  5.11e-03 -1.34e-03
## 13489   8.04e-02  3.36e-02 -4.24e-02  4.68e-02 -8.06e-02  4.16e-02  6.95e-03
## 38377   3.01e-04  1.26e-03 -1.58e-03 -5.64e-03 -2.40e-04 -7.29e-03 -4.72e-03
## 68166  -1.06e-02  1.87e-03 -5.14e-03 -2.04e-02  1.08e-02 -3.02e-02 -5.89e-02
## 44335   2.52e-03  7.74e-04 -1.61e-03  7.55e-03 -2.59e-03  9.29e-03 -2.99e-03
## 21483   9.33e-03 -7.10e-03  8.84e-03  2.40e-02 -9.51e-03  2.29e-02  1.97e-02
## 2162    1.39e-03  8.64e-06 -9.56e-05  1.52e-04 -1.39e-03 -8.14e-05  2.31e-04
## 57151  -7.99e-03 -2.49e-02  2.93e-02 -1.74e-02  8.12e-03 -7.29e-04  1.80e-02
## 129674  1.74e-02  4.25e-03 -5.61e-03 -6.41e-03 -1.73e-02 -7.46e-03  2.27e-02
## 128958 -5.71e-02  4.50e-03 -3.80e-03 -3.98e-02  5.73e-02 -5.34e-02  9.91e-03
## 68087   3.33e-04 -4.26e-04  4.01e-04 -7.48e-05 -3.32e-04  4.02e-04 -7.98e-04
## 67709   7.63e-04  1.40e-03 -5.49e-04  2.53e-03 -7.92e-04  3.71e-03 -2.22e-04
## 42624  -1.94e-02 -1.63e-01  1.61e-01 -5.45e-02  1.99e-02 -1.99e-02  2.11e-02
## 17559   1.62e-03  3.18e-03 -3.43e-03 -4.03e-03 -1.57e-03 -4.09e-03 -4.77e-03
## 117621 -2.80e-04 -2.43e-03  2.05e-03 -6.90e-03  3.36e-04 -5.53e-03  7.64e-03
## 16043   7.87e-04 -1.52e-03  2.80e-03 -1.33e-03 -7.84e-04 -1.23e-03 -2.78e-03
## 61632  -8.03e-04  3.93e-02 -3.72e-02  9.22e-03  7.12e-04 -8.86e-03  3.33e-03
## 95853   1.71e-03  1.46e-03 -2.13e-03 -2.40e-03 -1.68e-03 -3.69e-03  1.06e-02
## 50579   1.46e-03  6.15e-03 -6.84e-03 -8.19e-03 -1.37e-03 -1.40e-02  1.48e-02
## 40896   1.91e-03 -3.97e-05  7.29e-05  3.58e-03 -1.94e-03  3.81e-03 -2.71e-03
## 74049   2.27e-03  2.72e-02 -2.60e-02  3.55e-03 -2.31e-03 -2.26e-03 -3.13e-03
## 14542  -1.25e-02  1.68e-05  4.91e-03 -1.87e-02  1.26e-02 -1.99e-02  2.32e-02
## 60940   9.82e-04 -2.39e-02  2.28e-02 -5.67e-03 -9.14e-04  4.91e-03 -2.52e-03
## 111613  4.85e-03  1.21e-02 -1.37e-02  1.21e-02 -4.93e-03  4.64e-03 -7.82e-03
## 30131  -1.23e-02  1.02e-02 -1.59e-02 -2.39e-02  1.24e-02 -2.36e-02  1.34e-02
## 26883   5.19e-03  5.99e-03 -5.83e-03  1.04e-02 -5.25e-03  9.68e-03 -4.67e-03
## 83595   3.67e-03 -2.23e-02  2.00e-02  1.98e-03 -3.65e-03  7.49e-03 -6.70e-03
## 67729   3.19e-04 -6.62e-04  4.15e-04 -2.63e-03 -2.95e-04 -2.43e-03 -2.64e-03
## 59086  -4.03e-03  1.97e-02 -2.79e-02 -1.07e-02  4.14e-03 -1.91e-02  1.69e-03
## 17813   8.45e-03 -3.70e-03  3.61e-03  2.37e-02 -8.62e-03  2.03e-02 -8.07e-03
## 32204  -1.05e-02  5.85e-03 -1.17e-02 -2.09e-02  1.07e-02 -2.48e-02 -5.39e-02
## 25373   1.62e-03 -3.08e-04 -7.28e-04  3.32e-03 -1.66e-03  4.09e-03 -3.14e-03
```

```
## 35161   7.30e-04 -9.51e-04  9.28e-04 -2.55e-03 -7.10e-04 -1.72e-03  6.87e-03
## 20405  -6.49e-03 -7.47e-02  7.09e-02 -1.35e-02  6.58e-03  7.95e-04  7.10e-03
## 38139   1.51e-04 -5.62e-03  4.93e-03 -6.39e-03 -1.02e-04 -1.87e-03 -2.80e-03
## 87254  -3.26e-03 -1.50e-02  1.88e-02 -2.41e-02  3.44e-03 -2.51e-02  3.12e-02
## 49003  -4.83e-04 -4.41e-03  3.43e-03 -1.00e-02  5.68e-04 -7.45e-03  1.22e-02
## 85672  -1.56e-03 -1.65e-03  3.62e-03 -1.17e-02  1.65e-03 -1.18e-02 -2.66e-03
## 102554  6.22e-03  1.18e-02 -1.30e-02  1.08e-02 -6.28e-03  3.37e-03  1.25e-02
## 107197 -9.07e-04 -4.15e-04  6.07e-04 -6.60e-03  9.56e-04 -5.72e-03 -2.02e-03
## 118512  7.39e-03 -4.13e-03  4.46e-03  9.26e-03 -7.38e-03  3.55e-03 -9.03e-03
## 46227  -1.25e-02  1.75e-02 -1.58e-02 -3.68e-02  1.28e-02 -3.67e-02  8.25e-03
## 54256   1.06e-03 -5.83e-05  5.80e-04  2.69e-03 -1.09e-03  4.83e-03  7.10e-03
## 53387   6.43e-05 -1.10e-03  9.64e-04 -1.27e-03 -5.21e-05 -6.35e-04 -8.54e-04
## 104362  3.82e-03  2.85e-03 -3.46e-03  5.98e-03 -3.87e-03  4.26e-03  1.20e-02
## 77949   1.56e-03 -1.37e-03  1.12e-03 -2.70e-03 -1.53e-03 -1.49e-03  1.11e-02
## 53917   2.94e-03 -6.19e-04  2.59e-03  4.73e-03 -2.98e-03  7.08e-03  1.54e-02
## 123292  7.33e-03 -1.08e-03  6.98e-04  5.20e-03 -7.37e-03  6.90e-03 -1.68e-03
## 75710   1.10e-03 -1.04e-03  6.28e-04 -1.44e-03 -1.08e-03 -1.04e-03  5.16e-03
## 81888   1.59e-03 -1.08e-02  1.06e-02 -8.89e-03 -1.46e-03 -4.54e-03 -5.10e-03
## 19323  -8.84e-03  5.20e-02 -6.20e-02 -1.30e-02  8.85e-03 -2.07e-02  6.30e-03
## 45418  -6.71e-03  1.12e-02 -8.80e-03 -3.53e-03  6.67e-03  1.22e-03  1.48e-02
## 76667   6.11e-03  7.66e-03 -8.49e-03  1.47e-02 -6.20e-03  7.76e-03 -8.07e-03
## 116293  1.37e-03 -1.78e-04 -1.69e-04  1.08e-03 -1.38e-03  1.36e-03 -2.94e-03
## 16577   1.17e-03 -1.27e-04  3.84e-04  6.98e-04 -1.18e-03  8.74e-04 -2.48e-03
## 30580  -1.99e-03  2.43e-02 -3.11e-02  7.83e-03  1.89e-03  7.59e-03  5.99e-03
## 1584   -1.30e-04 -4.10e-05  3.74e-05  3.22e-06  1.30e-04  3.74e-05  8.95e-05
## 87688   1.92e-04 -3.93e-04  5.73e-04 -5.15e-03 -1.43e-04 -4.40e-03 -3.26e-03
## 77825   3.66e-03 -1.44e-02  1.62e-02  3.11e-03 -3.66e-03  2.69e-03 -6.48e-03
## 26099   7.33e-04  2.35e-03 -3.74e-03 -4.39e-03 -6.86e-04 -6.84e-03 -5.65e-03
## 46575   1.94e-03  2.20e-03 -3.22e-03 -1.03e-03 -1.93e-03 -2.42e-03  1.07e-02
## 108799 -1.33e-02  1.51e-02 -1.43e-02 -3.87e-02  1.35e-02 -3.82e-02  7.68e-03
## 23778   9.10e-03  1.69e-02 -1.78e-02  2.32e-02 -9.25e-03  1.46e-02  2.05e-02
## 10782  -8.11e-03 -1.10e-03  1.03e-03 -2.04e-03  8.11e-03 -9.66e-04  5.26e-03
## 29569  -1.47e-02 -2.98e-03  3.71e-03 -3.22e-02  1.49e-02 -2.63e-02  2.07e-02
## 64901  -3.33e-04  5.55e-04 -9.39e-04 -8.95e-03  4.18e-04 -1.08e-02 -4.93e-03
## 95630   7.56e-03  1.75e-02 -1.62e-02  4.37e-02 -7.95e-03  4.74e-02  6.66e-03
## 29686   7.55e-04  2.47e-03 -2.76e-03 -3.18e-03 -7.13e-04 -4.68e-03 -4.95e-03
## 56139  -7.16e-03 -2.13e-04 -5.44e-03 -8.91e-03  7.28e-03 -1.42e-02  1.12e-02
## 69734  -3.82e-04 -5.78e-03  8.51e-03 -5.45e-03  4.15e-04 -3.60e-03 -1.78e-03
## 21336   7.68e-04 -4.28e-04  4.02e-04 -2.93e-03 -7.39e-04 -2.57e-03 -3.80e-03
## 11231   1.52e-03 -3.69e-04  1.51e-04  2.68e-05 -1.51e-03 -1.45e-04  1.64e-04
## 21201   8.44e-04 -6.20e-03  8.33e-03  2.08e-02 -1.06e-03  2.51e-02  1.44e-02
## 29475   3.67e-05  6.14e-04  4.60e-04 -3.85e-03 -6.52e-06 -2.79e-03 -2.45e-03
## 30951  -1.69e-03  2.01e-02 -1.85e-02  6.36e-03  1.55e-03  8.34e-03  6.62e-03
## 121689  5.20e-03 -1.75e-02  2.10e-02  8.61e-03 -5.23e-03  9.39e-03 -5.05e-03
## 93671   1.69e-04 -2.21e-04  5.14e-04 -1.99e-03 -1.59e-04 -8.05e-04 -1.91e-03
## 27412   1.32e-03  8.67e-05  9.50e-04  2.03e-03 -1.34e-03  2.93e-03 -1.71e-03
## 52411   2.42e-03  9.09e-03 -9.40e-03 -3.77e-03 -2.35e-03 -8.33e-03 -7.75e-03
## 31560   4.04e-03 -1.05e-02  9.53e-03  5.97e-03 -4.07e-03  1.07e-02 -4.65e-03
## 17337   7.29e-04  7.69e-03 -8.83e-03  1.34e-02 -8.99e-04  2.70e-02  8.39e-03
## 66608  -1.07e-02 -6.55e-04 -4.87e-04 -7.56e-03  1.07e-02 -4.67e-04  2.24e-02
## 29030   1.82e-03  7.56e-05  7.32e-04  3.20e-03 -1.84e-03  3.65e-03 -2.11e-03
## 84534  -1.60e-03 -2.54e-03  2.93e-03 -1.18e-02  1.67e-03 -8.20e-03  1.79e-02
## 86365   1.47e-03 -1.40e-03  1.15e-03  2.14e-03 -1.48e-03  3.60e-03 -2.24e-03
## 99622   8.17e-04 -4.18e-04  4.76e-04  9.73e-04 -8.26e-04  1.60e-03  2.68e-03
## 3500   -1.08e-02 -8.75e-04  6.91e-04 -9.72e-04  1.08e-02  3.81e-07  6.96e-03
## 80410   1.89e-03  1.99e-03 -1.41e-03  2.99e-03 -1.91e-03  2.31e-03 -3.70e-03
## 21724   2.10e-03 -1.39e-04  7.38e-04 -1.04e-03 -2.08e-03 -1.61e-03  1.22e-02
## 61085   2.82e-03  2.59e-03 -3.21e-03  3.33e-03 -2.83e-03  6.90e-04 -5.55e-03
## 94252   4.19e-03  1.98e-02 -2.11e-02  4.59e-02 -4.57e-03  2.46e-02 -5.88e-02
## 12287   6.99e-02 -4.80e-02  4.40e-02 -2.62e-02 -6.96e-02 -1.95e-02  1.18e-02
## 40726   1.52e-02 -2.25e-02  2.05e-02  3.02e-02 -1.54e-02  2.96e-02  2.35e-02
## 113059 -1.40e-02 -1.82e-02  2.00e-02 -2.83e-02  1.42e-02 -1.00e-02  2.16e-02
## 94255   1.83e-04  5.41e-02 -5.05e-02  2.06e-02 -4.01e-04 -3.10e-05  7.26e-03
## 113334  5.56e-03  1.65e-03 -1.02e-03  1.23e-02 -5.62e-03  1.00e-02 -5.99e-03
## 125122 -5.43e-02 -1.34e-02  1.95e-02 -5.78e-03  5.42e-02  6.08e-03 -4.11e-02
## 20278  -4.32e-03 -6.20e-03  1.22e-02  2.13e-02  4.06e-03  3.24e-02  2.93e-02
## 44067   1.03e-03 -1.72e-03  1.47e-03  1.28e-03 -1.04e-03  2.88e-03  4.73e-03
## 77566   1.85e-03 -2.81e-05 -3.40e-04  4.94e-03 -1.90e-03  6.06e-03 -2.49e-03
## 91513   1.49e-04 -6.19e-04  5.74e-04 -8.28e-04 -1.43e-04 -4.04e-04  1.42e-03
## 70927   1.18e-04  8.43e-04  4.66e-04 -2.15e-03 -1.06e-04 -1.37e-03 -1.30e-03
## 61035   6.08e-04 -1.06e-03  2.53e-03 -3.43e-03 -5.78e-04 -3.70e-03 -3.45e-03
## 55497  -4.70e-04 -2.14e-03  2.01e-03 -7.37e-03  5.20e-04 -5.61e-03  9.98e-03
## 117969  3.06e-03 -1.26e-02  1.16e-02 -4.19e-03 -2.98e-03 -2.86e-03 -7.04e-03
## 80145  -2.42e-04 -3.74e-03  3.41e-03 -4.50e-03  2.81e-04 -1.74e-03 -1.91e-03
## 30635   2.45e-03  3.19e-03 -3.82e-03 -2.54e-03 -2.41e-03 -4.55e-03  1.57e-02
## 104081  1.80e-03 -1.91e-04 -3.30e-04  4.47e-03 -1.84e-03  5.39e-03 -2.76e-03
## 54048   4.29e-03  6.05e-03 -7.06e-03  5.13e-03 -4.33e-03 -2.05e-04  1.56e-02
## 121786  7.16e-03 -1.26e-02  1.50e-02  2.26e-02 -7.31e-03  1.83e-02 -5.36e-03
## 112578  1.87e-03  1.46e-04 -2.51e-04  3.09e-03 -1.88e-03  2.99e-03 -2.79e-03
## 84249   1.04e-03  7.40e-05  2.01e-04  2.78e-03 -1.07e-03  4.04e-03 -8.33e-04
## 26450   5.08e-03  4.75e-03 -5.00e-03  8.92e-03 -5.11e-03  2.76e-03 -8.04e-03
## 67031   4.19e-04 -2.42e-03  1.59e-03 -3.79e-03 -3.97e-04 -2.39e-03  7.92e-03
## 94595  -1.01e-02 -1.70e-02  2.21e-02 -2.40e-02  1.03e-02 -1.57e-02  1.82e-02
## 21448  -1.70e-04 -2.78e-05  2.06e-04 -2.99e-03  1.85e-04 -1.36e-03 -1.52e-03
## 48373  -1.86e-03  6.20e-03 -7.34e-03 -1.16e-02  1.95e-03 -1.70e-02 -6.06e-03
## 38886   8.71e-04 -1.30e-03  9.22e-04  1.41e-03 -8.81e-04  2.25e-03 -1.36e-03
## 87516   7.98e-04 -1.83e-03  3.19e-04  2.05e-02 -9.52e-04  2.32e-02  1.18e-02
## 105540  5.15e-03 -2.99e-03  3.87e-03  1.52e-02 -5.27e-03  1.30e-02 -5.03e-03
## 102508  1.72e-02 -2.66e-02  2.48e-02  4.39e-02 -1.75e-02  4.65e-02  3.13e-02
## 123094  4.17e-03  3.19e-03 -2.85e-03  3.68e-03 -4.18e-03  1.62e-03  1.68e-02
## 52266  -3.67e-04 -4.07e-04  6.22e-04 -4.17e-03  3.90e-04 -3.00e-03 -1.92e-03
## 22048  -2.12e-02  8.84e-03 -9.01e-03 -5.12e-02  2.15e-02 -5.25e-02 -4.25e-02
## 35605  -4.23e-03 -1.27e-02  1.36e-02  1.06e-02  4.07e-03  2.68e-02  1.94e-02
## 71211  -7.70e-03 -1.01e-03  1.35e-03 -1.15e-02  7.78e-03 -1.52e-02  1.26e-02
## 20157   4.34e-03  4.88e-03 -5.81e-03  4.23e-03 -4.34e-03  1.31e-03  1.33e-02
## 112608  5.85e-03  1.55e-03 -8.52e-04  9.23e-03 -5.89e-03  3.79e-03 -7.01e-03
## 101919  2.95e-03  5.09e-04 -1.62e-03  6.75e-03 -3.00e-03  7.34e-03 -4.34e-03
## 50173   1.87e-03 -7.53e-04  5.41e-05  2.01e-03 -1.89e-03  3.50e-03  1.05e-02
```

```
## 123315 -5.79e-02  7.91e-04  1.92e-03 -2.29e-02  5.80e-02 -2.69e-02 -5.37e-02
## 117924  3.99e-03 -1.42e-03  2.58e-03  9.01e-03 -4.05e-03  8.40e-03 -3.96e-03
## 33774  -2.79e-04  1.51e-02 -1.53e-02  1.10e-02  1.44e-04  1.77e-02  6.55e-03
## 2385   -1.74e-02  9.00e-03 -1.04e-02  4.04e-03  1.74e-02 -2.00e-03 -7.35e-03
## 27955   1.68e-03 -8.07e-04  5.40e-04  2.51e-03 -1.72e-03  4.51e-03  1.12e-02
## 103541 -9.85e-05 -1.94e-03  3.29e-03 -7.16e-03  1.59e-04 -7.78e-03 -3.63e-03
## 25236   1.05e-03  1.29e-03 -1.50e-03 -5.09e-03 -9.99e-04 -3.90e-03 -3.96e-03
## 101516 -2.03e-02 -2.32e-02  2.47e-02 -6.67e-02  2.08e-02 -5.17e-02  1.55e-02
## 70706   7.88e-04  6.38e-03 -6.55e-03 -3.29e-03 -7.60e-04 -3.21e-03 -3.09e-03
## 21789  -1.11e-02 -3.23e-03  2.98e-03 -1.60e-02  1.12e-02 -1.71e-02  1.63e-02
## 32070   1.40e-03 -1.65e-04  6.65e-04  1.61e-03 -1.41e-03  1.70e-03 -2.28e-03
## 115269 -9.58e-05 -1.31e-02  1.21e-02 -1.06e-02  1.96e-04 -4.14e-03 -3.60e-03
## 26325   1.04e-03 -1.78e-02  1.69e-02 -1.05e-02 -9.18e-04 -5.03e-03 -5.17e-03
## 48602  -5.07e-03 -4.76e-03  7.51e-03  5.69e-03  4.98e-03  1.20e-02  2.15e-02
## 130498  1.09e-02  5.73e-04 -8.32e-04 -8.16e-03 -1.08e-02 -9.87e-03 -4.99e-03
## 112117  3.01e-04  1.85e-03 -2.64e-03 -5.52e-03 -2.47e-04 -7.48e-03 -4.96e-03
## 130215  2.16e-02  1.87e-02 -1.77e-02 -1.82e-03 -2.15e-02 -5.52e-03 -1.13e-03
## 52532  -5.18e-03  7.82e-04 -1.86e-03  1.05e-02  5.08e-03  8.66e-03  1.85e-02
## 24857   9.30e-03 -2.03e-02  1.89e-02  2.16e-02 -9.40e-03  2.21e-02 -7.61e-03
## 12981  -1.11e-02 -1.80e-03  1.67e-03 -5.46e-03  1.11e-02 -4.45e-03  6.36e-03
## 61155   3.40e-03  1.92e-02 -1.74e-02 -8.50e-04 -3.37e-03 -3.40e-03  2.32e-02
## 128453  8.98e-03 -1.29e-03  4.28e-04 -2.20e-03 -8.95e-03 -1.26e-03 -3.24e-03
## 56639   7.37e-04 -5.34e-04  3.92e-04  1.42e-03 -7.48e-04  2.00e-03 -1.01e-03
## 109580 -2.15e-02  1.67e-02 -2.03e-02 -5.86e-02  2.18e-02 -5.21e-02  1.59e-02
## 69579  -5.08e-05 -7.26e-03  6.72e-03 -1.11e-02  1.56e-04 -7.73e-03 -4.15e-03
## 96159   7.79e-04  1.87e-03 -2.55e-03  1.84e-04 -7.89e-04 -4.34e-04 -3.89e-03
## 40282  -9.54e-03  2.54e-02 -2.32e-02 -1.60e-02  9.64e-03 -2.79e-02  9.26e-03
## 109541 -1.85e-02 -1.99e-02  2.21e-02 -4.65e-02  1.88e-02 -2.81e-02  2.30e-02
## 8277   -2.42e-02 -1.61e-03  2.51e-03 -9.66e-03  2.42e-02 -1.07e-02  1.51e-02
## 70278   3.12e-03  4.54e-04 -4.79e-03  4.48e-02 -3.55e-03  5.03e-02  1.70e-02
## 61212  -1.59e-03 -5.82e-04 -3.41e-04 -1.19e-02  1.66e-03 -1.12e-02  1.58e-02
## 72142  -1.05e-02 -6.65e-03  6.38e-03 -1.80e-02  1.06e-02 -2.00e-02  1.02e-02
## 116091  3.94e-03  2.15e-03 -2.34e-03  1.10e-02 -4.03e-03  9.77e-03 -4.42e-03
## 8892   -4.41e-02 -1.34e-02  1.43e-02  1.88e-02  4.38e-02  2.09e-02 -3.86e-03
## 108782  2.09e-03  2.55e-04 -4.83e-04  3.90e-03 -2.11e-03  3.92e-03 -2.97e-03
## 55599  -3.94e-03  3.79e-03 -2.62e-03  1.09e-02  3.77e-03  1.91e-02  1.42e-02
## 49269  -6.56e-03  5.00e-03 -4.53e-03 -8.57e-03  6.72e-03 -1.93e-02 -5.75e-02
## 69490  -1.42e-03  1.44e-03 -2.21e-03 -1.29e-02  1.54e-03 -1.46e-02 -5.39e-03
## 77826  -5.80e-04 -2.43e-04  3.14e-04 -5.15e-03  6.12e-04 -4.59e-03 -2.22e-03
## 89309  -8.99e-04 -3.31e-04  8.48e-04 -6.19e-03  9.40e-04 -4.12e-03 -2.03e-03
## 100671  7.08e-03  8.00e-03 -1.10e-02  3.62e-02 -7.36e-03  3.93e-02  6.34e-03
## 104371  7.64e-03 -3.31e-02  3.83e-02  1.62e-02 -7.76e-03  2.34e-02  2.47e-02
## 113250  7.69e-04  2.70e-04  2.76e-04 -3.07e-03 -7.38e-04 -4.13e-03 -3.88e-03
## 22309   4.82e-03  4.45e-03 -5.49e-03  9.14e-03 -4.88e-03  6.43e-03  9.72e-03
## 6392   -1.43e-02  2.37e-02 -2.24e-02  1.47e-03  1.43e-02 -3.97e-03 -2.77e-03
## 67245   3.29e-04 -6.90e-04  1.12e-03 -3.36e-03 -3.01e-04 -1.63e-03  6.94e-03
## 68046   2.93e-04 -1.32e-04  1.66e-04 -5.78e-06 -2.94e-04  4.62e-04 -7.25e-04
## 113208 -7.57e-04 -1.52e-03  1.73e-03 -7.86e-03  8.10e-04 -6.07e-03  9.96e-03
## 27821   2.08e-03 -1.89e-04  2.85e-04  2.11e-03 -2.09e-03  2.79e-03  8.03e-03
## 32759   3.88e-03  8.50e-04 -4.15e-04  7.29e-03 -3.91e-03  5.40e-03 -4.91e-03
## 25821   1.04e-03 -3.76e-04 -4.06e-06  6.91e-04 -1.04e-03  1.44e-03 -2.70e-03
## 64563   2.78e-03  3.14e-03 -3.80e-03  4.22e-02 -3.14e-03  4.78e-02  2.05e-02
## 99992   3.57e-03  2.23e-03 -2.54e-03  4.15e-03 -3.59e-03  4.60e-03 -4.93e-03
## 78986   2.78e-03  3.44e-04  8.11e-04  6.07e-03 -2.83e-03  7.11e-03 -2.59e-03
## 62390  -1.44e-03  4.34e-04 -1.21e-03 -1.05e-02  1.51e-03 -1.14e-02 -4.22e-03
## 120064  3.85e-04  1.63e-03 -1.02e-03  9.64e-04 -4.02e-04  1.49e-03 -3.69e-04
## 130513  1.29e-02 -8.79e-03  7.65e-03 -3.80e-03 -1.29e-02  2.30e-03 -2.93e-03
## 128229  2.30e-02 -1.45e-02  1.36e-02 -1.68e-02 -2.28e-02 -1.37e-02 -5.21e-03
## 88195   2.50e-03  1.95e-02 -1.88e-02  6.55e-03 -2.57e-03  4.13e-03 -1.88e-03
## 126333  1.48e-02 -1.24e-02  1.11e-02 -1.68e-02 -1.46e-02 -1.24e-02 -4.90e-03
## 38213  -1.60e-02 -1.63e-03  5.72e-03 -3.15e-02  1.62e-02 -3.13e-02  2.36e-02
## 57183  -1.45e-04  2.01e-02 -1.96e-02 -3.15e-03  1.53e-04 -5.82e-03 -1.75e-03
## 130705  1.05e-02  1.45e-04 -4.27e-05  7.58e-03 -1.05e-02  9.77e-03 -1.99e-03
## 45560   5.09e-03  1.16e-02 -1.31e-02  6.95e-03 -5.13e-03 -5.03e-04  1.39e-02
## 22485   9.58e-04 -2.75e-03  3.91e-03 -9.97e-04 -9.47e-04 -2.83e-03 -4.31e-03
## 96114   2.65e-04  1.11e-03 -1.62e-03 -5.21e-03 -2.12e-04 -6.68e-03 -4.75e-03
## 20546   1.33e-03 -8.63e-04  1.90e-03  9.97e-04 -1.35e-03  1.94e-03  6.52e-03
## 53727  -6.15e-04 -1.87e-02  1.74e-02 -1.46e-02  7.60e-04 -8.03e-03 -4.93e-03
## 77943   3.52e-03 -2.49e-03  4.82e-03  3.65e-02 -3.82e-03  3.65e-02 -4.95e-02
## 64883   2.67e-03  2.12e-02 -2.05e-02  8.44e-03 -2.75e-03  6.58e-03 -1.17e-03
## 53353   1.55e-04 -3.73e-04  5.72e-04 -1.62e-03 -1.45e-04 -7.66e-04  3.40e-03
## 17370   5.26e-03  1.40e-02 -1.32e-02  1.24e-02 -5.35e-03  9.86e-03 -3.92e-03
## 32278   1.17e-03  3.48e-03 -4.75e-03 -1.14e-03 -1.16e-03 -3.38e-03 -5.09e-03
## 24494   1.96e-03  2.03e-03 -3.54e-03 -1.24e-03 -1.94e-03 -2.98e-03  8.84e-03
## 17447   4.64e-03  6.28e-03 -7.13e-03  4.82e-03 -4.65e-03  1.37e-03  1.41e-02
## 24100   2.03e-03 -2.06e-03  1.60e-03  3.12e-03 -2.05e-03  4.82e-03  5.44e-03
## 120179  2.81e-03 -9.75e-03  8.71e-03 -1.24e-03 -2.77e-03  2.15e-03 -5.60e-03
## 89145   5.82e-04 -2.18e-03  4.06e-03 -7.06e-03 -5.23e-04 -6.84e-03  1.38e-02
## 42737   6.59e-05 -2.18e-03  1.33e-03 -5.35e-03 -3.02e-05 -4.45e-03  5.51e-03
## 10076  -1.30e-02 -1.36e-02  1.32e-02 -6.30e-03  1.30e-02 -4.54e-04  8.46e-03
## 42392   8.40e-04 -1.51e-03  9.91e-04 -2.81e-03 -8.09e-04 -2.42e-03  5.01e-03
## 1480   -2.81e-02 -2.07e-02  1.97e-02  7.01e-03  2.80e-02  1.56e-02 -4.44e-03
## 49216  -4.06e-04 -3.20e-03  5.11e-03 -7.12e-03  4.58e-04 -6.84e-03 -2.85e-03
## 21697  -5.26e-03  1.36e-02 -1.36e-02 -8.11e-03  5.24e-03 -4.38e-03  6.08e-03
## 96667   8.05e-05 -5.18e-04  4.98e-04 -1.16e-03 -7.15e-05 -6.40e-04 -8.13e-04
## 32238  -1.49e-03 -2.32e-03  1.74e-03 -7.73e-03  1.54e-03 -4.73e-03 -2.22e-03
## 7529   -3.10e-02 -9.43e-03  9.29e-03 -1.19e-02  3.10e-02 -6.64e-03 -3.70e-03
## 44459   2.06e-03  1.56e-02 -1.50e-02  3.39e-04 -2.06e-03 -2.62e-03 -3.78e-03
## 86128   6.54e-04 -1.85e-02  1.73e-02 -9.84e-03 -5.46e-04 -3.35e-03 -4.83e-03
## 11904  -6.48e-03  6.61e-05  3.53e-04 -1.28e-03  6.47e-03 -2.07e-04 -7.30e-04
## 18722   3.35e-03 -1.84e-02  1.66e-02  5.56e-03 -3.40e-03  1.36e-02 -3.65e-03
## 61756  -2.04e-02  1.79e-04  2.18e-03 -2.91e-02  2.06e-02 -3.00e-02 -5.02e-02
## 7800   -1.70e-02  5.74e-03 -5.48e-03  4.51e-03  1.69e-02  4.41e-03 -3.84e-03
## 48502   5.65e-04  3.70e-04 -8.78e-05  7.74e-04 -5.75e-04  1.46e-03 -7.73e-04
## 116455  2.03e-03  1.92e-03 -2.52e-03  5.33e-04 -2.02e-03 -1.69e-03 -5.40e-03
## 123460  1.13e-02 -1.31e-03  1.16e-03 -8.73e-03 -1.12e-02 -5.72e-03 -1.71e-03
## 49946  -2.35e-03  1.12e-03 -2.18e-03 -1.39e-02  2.47e-03 -1.46e-02 -4.61e-03
## 48802   1.47e-03  7.62e-03 -7.50e-03  3.78e-03 -1.51e-03  2.98e-03  3.49e-03
```

```
## 79468   4.95e-04 -4.42e-03  5.72e-03  1.90e-02 -6.28e-04  1.77e-02 -5.10e-02
## 18763   1.35e-03 -2.75e-04  3.15e-04  2.38e-03 -1.37e-03  3.28e-03 -2.39e-03
## 124018 -4.30e-02  4.09e-03 -2.98e-03  2.84e-02  4.26e-02  2.44e-02  1.57e-02
## 80889   7.17e-04 -7.94e-04  7.23e-04  1.21e-03 -7.28e-04  2.33e-03 -1.06e-03
## 86002   4.06e-04 -4.52e-04  3.38e-04 -2.64e-03 -3.78e-04 -2.58e-03 -2.60e-03
## 4017   -1.30e-02  2.96e-03 -3.45e-03  8.04e-03  1.29e-02  3.95e-03  7.51e-03
## 62352  -6.90e-03  2.47e-02 -2.87e-02 -9.56e-04  6.94e-03 -3.14e-03  1.85e-02
## 52940  -2.24e-03 -7.47e-04  4.03e-04  1.85e-02  1.98e-03  2.74e-02  1.33e-02
## 5276   -2.49e-03 -3.15e-04  3.57e-04 -2.39e-04  2.49e-03 -9.51e-05  1.48e-03
## 92485   1.83e-04  5.32e-04 -2.90e-05 -1.86e-03 -1.73e-04 -1.90e-03 -1.73e-03
## 38052  -1.03e-02  3.47e-03 -1.15e-02 -2.00e-02  1.06e-02 -3.18e-02 -6.67e-02
## 31797  -5.35e-04 -3.76e-03  3.52e-03 -4.96e-03  5.73e-04 -1.71e-03 -1.58e-03
## 93659   2.64e-05 -6.65e-04  5.74e-04 -1.05e-03 -1.82e-05 -5.16e-04 -7.27e-04
## 65453   9.74e-04 -9.31e-04  8.24e-04  2.70e-03 -1.00e-03  4.41e-03 -1.02e-03
## 21689   3.92e-03  1.61e-03 -1.71e-03  8.69e-03 -3.98e-03  6.75e-03 -5.00e-03
## 79048   6.76e-04  9.44e-04 -4.13e-04  1.66e-03 -6.91e-04  2.18e-03 -4.73e-04
## 59119   5.80e-03  9.57e-03 -1.02e-02  1.86e-02 -5.94e-03  1.23e-02 -6.52e-03
## 21487   2.19e-03 -4.68e-03  3.71e-03 -3.10e-03 -2.13e-03 -1.38e-03 -5.93e-03
## 125662  1.60e-02  1.25e-03 -6.05e-04  1.03e-02 -1.61e-02  1.18e-02 -2.56e-03
## 94335   1.31e-03  1.29e-03 -1.53e-03 -3.24e-03 -1.26e-03 -5.24e-03 -5.94e-03
## 5201   -2.44e-02 -2.13e-02  2.10e-02 -1.95e-02  2.45e-02 -1.17e-02  1.50e-02
## 23703   2.12e-03  5.20e-04 -1.22e-03  4.03e-03 -2.14e-03  3.97e-03 -3.26e-03
## 52904   7.36e-04 -8.39e-04  7.58e-04  1.42e-03 -7.51e-04  2.72e-03 -1.06e-03
## 56733   3.69e-03  9.05e-03 -1.06e-02  1.06e-04 -3.67e-03 -6.99e-03  1.19e-02
## 64184   9.54e-04  8.61e-03 -1.03e-02 -7.49e-04 -9.56e-04 -6.68e-03 -6.61e-03
## 56207   9.05e-04 -2.09e-02  2.56e-02 -5.76e-03 -8.70e-04 -8.14e-04  3.12e-02
## 87968   1.56e-03  2.07e-03 -6.62e-04  5.59e-03 -1.62e-03  8.22e-03 -1.25e-04
## 9965   -4.77e-03 -6.45e-04  5.85e-04 -1.21e-03  4.77e-03 -8.16e-04  2.84e-03
## 6293    4.24e-02  2.04e-02 -2.10e-02 -2.14e-02 -4.22e-02 -1.40e-02  1.67e-02
## 100611 -1.89e-03  3.81e-04 -6.58e-04 -1.14e-02  1.97e-03 -1.18e-02 -3.53e-03
## 56477   1.08e-03 -7.52e-04  6.77e-04 -1.52e-03 -1.07e-03 -1.08e-03  5.91e-03
## 123208  9.22e-03 -7.93e-04  2.17e-04 -2.11e-03 -9.19e-03 -1.59e-03 -3.26e-03
## 49295   7.12e-04 -6.80e-04  5.36e-04  1.04e-03 -7.20e-04  1.66e-03 -1.09e-03
## 115026 -1.37e-02 -2.46e-04  2.31e-03 -2.38e-02  1.38e-02 -2.94e-02 -5.29e-02
## 38835  -1.04e-03 -1.76e-03  1.84e-03 -1.30e-02  1.16e-03 -1.20e-02 -3.16e-03
## 1435   -1.86e-02  1.62e-02 -1.49e-02 -4.02e-03  1.86e-02 -7.28e-03 -2.93e-03
## 39794  -1.48e-02 -2.45e-02  2.67e-02 -3.03e-02  1.49e-02 -9.94e-03  2.22e-02
## 128564  1.21e-02  9.55e-05 -5.52e-04  4.90e-03 -1.21e-02  6.70e-03 -2.00e-03
## 9982   -3.38e-02 -1.78e-02  2.01e-02  1.50e-02  3.37e-02  1.07e-02  2.58e-02
## 77379  -5.28e-03  2.75e-02 -2.44e-02 -2.61e-04  5.21e-03 -1.13e-03  1.15e-02
## 49006   3.14e-04  4.90e-02 -5.51e-02  8.79e-03 -3.85e-04  3.26e-03  3.96e-03
## 37446   3.94e-04 -1.43e-03  1.37e-03 -4.60e-03 -3.59e-04 -3.47e-03  8.71e-03
## 10287  -2.10e-02  9.94e-03 -7.27e-03  2.11e-02  2.08e-02  1.86e-02  2.00e-02
## 48902   1.35e-03 -1.27e-03  1.18e-03  2.36e-03 -1.37e-03  4.41e-03 -1.91e-03
## 30280   8.33e-03 -4.13e-03  6.33e-03  1.29e-02 -8.35e-03  3.29e-03 -1.03e-02
## 114664  1.53e-03 -7.75e-04 -8.06e-05  3.20e-03 -1.56e-03  3.51e-03 -3.09e-03
## 91769  -7.32e-04 -4.41e-03  3.65e-03 -1.63e-02  8.88e-04 -1.99e-02 -7.25e-03
## 6566   -1.40e-02 -1.06e-03  1.92e-03  1.65e-03  1.40e-02  3.91e-03  1.10e-02
## 71895   1.08e-03 -1.34e-03  9.34e-04 -1.85e-03 -1.07e-03 -8.17e-04  8.34e-03
## 97436   3.95e-04  2.00e-03 -3.09e-03 -4.70e-03 -3.45e-04 -6.51e-03 -5.16e-03
## 36918   1.09e-02  1.48e-03 -1.50e-03  2.76e-02 -1.11e-02  2.13e-02 -9.88e-03
## 57447   3.61e-03  1.83e-03 -2.91e-03  6.29e-03 -3.65e-03  3.54e-03 -6.16e-03
## 28453   2.06e-03  9.56e-05 -1.12e-04  3.65e-03 -2.08e-03  3.59e-03 -2.87e-03
## 107384  3.01e-03  2.63e-04  1.09e-04  6.16e-03 -3.05e-03  6.66e-03 -3.55e-03
## 7994   -4.23e-03 -1.71e-04  7.66e-05  9.58e-04  4.21e-03  1.04e-03 -1.48e-03
## 130638  2.13e-02  1.41e-02 -1.22e-02 -2.39e-02 -2.10e-02 -2.49e-02  4.01e-02
## 32901  -7.89e-03  6.24e-05  1.10e-03 -1.47e-02  7.99e-03 -2.00e-02  1.36e-02
## 50823   1.20e-03  1.21e-03 -1.38e-03 -4.99e-03 -1.15e-03 -6.21e-03  1.27e-02
## 116190 -2.18e-02 -5.98e-03  1.59e-03 -6.25e-02  2.22e-02 -5.27e-02  1.06e-02
## 47295   3.22e-03  1.70e-03 -2.61e-03  2.59e-03 -3.23e-03  2.79e-04  6.23e-03
## 15682   5.16e-04  9.08e-04 -1.00e-03 -5.45e-03 -4.52e-04 -7.20e-03 -4.78e-03
## 128998  2.22e-02 -3.82e-02  3.64e-02 -5.12e-02 -2.16e-02 -4.58e-02  3.78e-02
## 96137   7.08e-03  7.86e-03 -7.98e-03  3.66e-02 -7.42e-03  4.07e-02  3.58e-03
## 129223  1.09e-02  2.48e-04 -7.22e-04  4.14e-03 -1.09e-02  4.90e-03 -2.99e-03
## 20959   2.25e-03 -2.47e-03  1.92e-03  4.12e-03 -2.29e-03  6.51e-03  7.38e-03
## 21954   6.01e-04 -1.00e-03  8.41e-04  4.55e-04 -6.03e-04  1.23e-03 -1.12e-03
## 26232   5.08e-03  1.10e-02 -1.07e-02  1.17e-02 -5.17e-03  9.98e-03 -4.37e-03
## 51474   5.88e-04 -1.18e-03  7.42e-04 -4.90e-03 -5.25e-04 -4.47e-03 -4.13e-03
## 66961   6.47e-04 -6.14e-04  5.87e-04  6.22e-04 -6.52e-04  1.39e-03 -1.07e-03
## 73892   7.11e-05 -1.04e-03  8.77e-04 -1.01e-03 -6.12e-05 -5.00e-04 -7.66e-04
## 113586  1.70e-03 -2.38e-03  1.06e-03  2.27e-02 -1.90e-03  2.55e-02  1.04e-02
## 114386  2.06e-03 -5.26e-05 -4.06e-04  4.16e-03 -2.10e-03  4.32e-03 -3.11e-03
## 84524   2.92e-03  3.50e-03 -3.76e-03  4.43e-03 -2.94e-03  2.09e-03 -5.35e-03
## 50651   2.66e-03  1.85e-04 -6.19e-04  6.48e-03 -2.71e-03  7.63e-03 -3.56e-03
## 108492  1.53e-03 -3.74e-03  3.32e-03  1.03e-03 -1.54e-03  4.44e-03  9.75e-03
## 91976   4.36e-04  3.56e-04 -1.67e-04  9.25e-04 -4.47e-04  1.38e-03 -5.72e-04
## 78115  -1.73e-02 -8.41e-03  6.02e-03 -4.02e-02  1.78e-02 -4.91e-02  2.41e-02
## 79006  -1.25e-02 -2.75e-03  3.35e-03 -2.55e-02  1.26e-02 -2.79e-02  1.64e-02
## 80555   9.84e-04 -5.72e-06  3.74e-04  2.77e-03 -1.02e-03  5.34e-03 -1.13e-03
## 116312  1.47e-03  2.61e-03 -3.61e-03  1.15e-03 -1.48e-03 -4.87e-04 -4.72e-03
## 114401  1.40e-03  2.46e-03 -3.24e-03 -1.52e-03 -1.37e-03 -3.76e-03 -5.24e-03
## 20769  -9.09e-05 -2.11e-02  2.55e-02 -7.25e-03  1.43e-04 -4.02e-03 -2.12e-03
## 77439   2.36e-04  6.48e-04  6.05e-04 -2.85e-03 -2.16e-04 -1.60e-03 -2.20e-03
## 23123   1.32e-03  2.84e-03 -3.53e-03 -2.44e-03 -1.28e-03 -4.69e-03 -5.86e-03
## 130583  1.14e-02 -2.06e-04  1.19e-03 -7.30e-04 -1.14e-02  2.39e-03  1.73e-02
## 108256  2.56e-03 -3.71e-04 -1.58e-04  6.40e-03 -2.61e-03  7.66e-03 -3.69e-03
## 93057   2.17e-03  2.51e-04 -3.98e-04  3.13e-03 -2.19e-03  3.82e-03 -3.56e-03
## 58539   1.97e-03  2.33e-02 -2.25e-02  7.68e-03 -2.06e-03  5.67e-03 -7.56e-04
## 122901  1.26e-03 -1.87e-04  1.09e-03  2.31e-03 -1.29e-03  3.43e-03 -1.70e-03
## 8560   -1.41e-02  1.15e-02 -1.27e-02  1.94e-02  1.39e-02  1.35e-02  1.00e-02
## 104729  1.14e-02  6.15e-03 -5.47e-03  3.09e-02 -1.16e-02  2.71e-02 -7.12e-03
## 17719   1.33e-03  5.61e-03 -7.16e-03 -2.95e-03 -1.29e-03 -8.91e-03 -7.87e-03
## 61414  -1.41e-02 -2.16e-02  2.44e-02 -3.21e-02  1.43e-02 -2.04e-02  1.79e-02
## 68033   4.48e-03 -4.31e-03 -2.97e-03  4.20e-02 -4.77e-03  3.34e-02 -6.25e-02
## 71488  -4.70e-03 -9.70e-03  1.00e-02  2.79e-02  4.37e-03  4.32e-02 -4.06e-02
## 36925   3.85e-03 -9.24e-03  8.94e-03  4.28e-03 -3.86e-03  2.34e-03 -8.48e-03
## 28046   1.26e-03  9.31e-03 -1.06e-02 -3.56e-03 -1.21e-03 -1.11e-02 -7.98e-03
## 118602  5.81e-04  1.14e-02 -1.31e-02 -3.69e-03 -5.29e-04 -1.09e-02 -7.44e-03
```

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## 127559  1.07e-02  5.98e-04 -4.35e-04  5.96e-03 -1.07e-02  5.85e-03 -3.22e-03
## 5199   -1.74e-02  3.21e-03 -3.66e-03 -1.75e-03  1.74e-02 -3.31e-03  1.06e-02
## 55783   1.66e-03  2.14e-03 -2.68e-03 -6.84e-04 -1.64e-03 -2.93e-03 -5.14e-03
## 127394  5.51e-03 -6.92e-05  2.72e-04  3.43e-03 -5.53e-03  4.58e-03  5.09e-03
## 25140   1.02e-02 -8.37e-03  7.84e-03  3.10e-02 -1.04e-02  3.33e-02 -4.81e-03
## 67827   1.02e-03  6.76e-03 -6.49e-03  2.75e-03 -1.04e-03  1.65e-03  2.14e-03
## 46283  -3.37e-03 -2.58e-02  2.47e-02 -2.77e-02  3.64e-03 -2.10e-02 -4.11e-03
## 20006  -1.59e-02 -1.17e-01  1.15e-01 -3.79e-02  1.62e-02 -7.51e-03  2.05e-02
## 119154 -1.03e-02  2.39e-02 -3.04e-02 -8.06e-03  1.03e-02 -7.90e-03 -4.84e-02
## 93047  -2.77e-04 -1.32e-03  8.47e-04 -4.65e-03  3.13e-04 -4.09e-03 -2.69e-03
## 63669   1.20e-03  9.32e-03 -9.00e-03  3.85e-03 -1.24e-03  2.26e-03 -7.00e-04
## 128345  4.81e-03  1.65e-04 -7.16e-05  3.22e-03 -4.83e-03  3.86e-03 -1.34e-03
## 86469  -1.48e-03  1.02e-03 -2.23e-03 -1.05e-02  1.56e-03 -1.16e-02 -4.36e-03
## 127854  8.27e-03 -3.78e-03  3.41e-03 -3.46e-03 -8.22e-03 -2.75e-04 -2.09e-03
## 50108   2.98e-03  9.78e-03 -9.40e-03  3.62e-03 -3.01e-03  3.34e-03  1.10e-02
## 32589  -9.47e-03  2.19e-02 -2.06e-02 -1.52e-02  9.53e-03 -2.52e-02  8.22e-03
## 86854  -1.82e-03  1.02e-03 -2.69e-03 -1.35e-02  1.91e-03 -2.13e-02 -9.02e-03
## 100666 -1.15e-03  1.70e-03 -2.01e-03 -7.89e-03  1.20e-03 -8.42e-03 -3.59e-03
## 23532   1.44e-03 -6.59e-04  6.09e-04  2.86e-03 -1.47e-03  3.75e-03  3.56e-03
## 54711   1.52e-04 -1.17e-03  6.84e-04 -2.88e-03 -1.30e-04 -9.53e-04 -3.02e-03
## 39269  -4.37e-04  1.52e-02 -1.50e-02  1.70e-02  2.36e-04  2.25e-02 -2.30e-02
## 20605   2.98e-03  4.54e-03 -5.88e-03  1.91e-03 -2.96e-03 -1.77e-03 -7.32e-03
## 24962   3.30e-03  4.96e-03  7.94e-04  9.27e-03 -3.35e-03  1.11e-03 -4.31e-04
## 26923  -9.05e-03 -1.21e-02  1.69e-02 -6.15e-03  9.06e-03  4.60e-03  2.39e-02
## 23644   3.15e-03  1.58e-02 -1.45e-02  2.45e-03 -3.14e-03 -2.13e-03 -4.61e-03
## 27283   1.47e-03 -3.19e-04 -3.97e-04  1.94e-03 -1.48e-03  1.85e-03 -3.07e-03
## 91469   3.60e-03  2.30e-03 -2.95e-03  4.45e-03 -3.62e-03  2.52e-03  9.41e-03
## 87997   9.78e-04  2.39e-03 -3.16e-03 -1.13e-03 -9.65e-04 -2.61e-03 -4.58e-03
## 77151   9.00e-04 -1.41e-03  1.38e-03  1.16e-03 -9.15e-04  3.05e-03  5.47e-03
## 128784  3.15e-02  7.33e-03 -4.93e-03 -1.94e-03 -3.14e-02 -1.51e-02 -7.56e-03
## 46210   1.56e-03 -1.42e-04 -4.75e-04  2.02e-03 -1.57e-03  2.37e-03 -3.09e-03
## 65806  -2.80e-04 -1.40e-03  1.28e-03 -2.31e-03  2.93e-04 -8.12e-04 -9.00e-04
## 95578   1.04e-03 -4.34e-04  4.53e-04  2.64e-03 -1.07e-03  3.88e-03 -1.05e-03
## 126010  1.25e-02 -4.63e-05 -1.39e-04 -2.66e-03 -1.24e-02 -2.38e-03 -4.00e-03
## 117877  1.21e-03  1.64e-02 -1.81e-02  3.33e-02 -1.35e-03  1.03e-02 -6.95e-02
## 19661   2.14e-03  2.01e-02 -1.94e-02  5.26e-03 -2.19e-03  2.14e-03 -2.10e-03
## 7824   -4.80e-03 -6.38e-04  5.36e-04 -1.21e-03  4.80e-03 -8.44e-04  2.84e-03
## 118171 -4.41e-03 -1.23e-02  1.53e-02 -4.92e-03  4.44e-03  7.00e-04  1.28e-02
## 38673   1.21e-02 -1.79e-02  1.63e-02  3.36e-02 -1.23e-02  3.74e-02 -6.89e-03
## 30546   4.23e-05  4.54e-03 -4.44e-03 -4.22e-03 -2.18e-05 -1.57e-03 -1.45e-03
## 105945 -5.76e-04 -2.04e-03  1.47e-03 -6.69e-03  6.31e-04 -5.86e-03 -2.85e-03
## 101582  1.07e-02  6.28e-03 -5.45e-03  3.30e-02 -1.09e-02  3.09e-02 -4.90e-03
## 63286   4.98e-03 -1.83e-02  1.78e-02 -5.92e-03 -4.86e-03 -5.60e-03  2.77e-02
## 72016  -4.02e-04 -3.01e-03  2.91e-03 -1.04e-02  4.90e-04 -8.21e-03  1.44e-02
## 101014  5.03e-04  2.32e-05 -1.49e-04 -5.06e-03 -4.55e-04 -6.60e-03 -4.79e-03
## 35378   2.17e-03 -8.48e-04  1.59e-03  3.94e-03 -2.22e-03  5.67e-03  1.07e-02
## 38979   2.25e-03  7.74e-03 -8.06e-03 -5.07e-03 -2.19e-03 -1.12e-02  2.21e-02
## 102161  6.70e-03  1.14e-02 -2.19e-02  3.33e-02 -6.94e-03  2.72e-02  8.10e-04
## 122328  1.01e-02  1.44e-02 -1.62e-02  3.03e-02 -1.04e-02  2.30e-02  1.53e-02
## 73717   2.54e-03  3.13e-03 -3.24e-03  3.83e-03 -2.55e-03  2.05e-03 -4.96e-03
## 123484  1.42e-02 -1.95e-04  6.40e-04 -5.75e-06 -1.42e-02  1.71e-03  1.67e-02
## 25040   8.13e-05 -6.44e-03  6.14e-03 -4.92e-03 -5.06e-05  1.52e-03 -1.19e-03
## 20350   1.21e-02 -1.96e-02  1.84e-02  3.42e-02 -1.23e-02  3.51e-02 -7.43e-03
## 63020   5.37e-04 -3.87e-04  3.44e-04  1.11e-03 -5.51e-04  2.05e-03 -9.00e-04
## 60556   1.58e-03 -1.72e-03  2.60e-03 -2.99e-03 -1.55e-03 -3.15e-03  1.16e-02
## 15810   3.96e-03 -5.90e-03  4.57e-03 -1.59e-03 -3.90e-03 -3.04e-03 -8.93e-03
## 116357 -1.21e-02  3.16e-02 -3.50e-02 -8.82e-03  1.21e-02 -7.76e-03 -4.00e-02
## 57058   5.16e-03  1.13e-02 -1.29e-02  6.87e-03 -5.19e-03 -6.22e-04  1.32e-02
## 70770   4.30e-03  1.23e-02 -1.16e-02  9.99e-03 -4.38e-03  8.67e-03 -3.26e-03
## 57822   5.29e-04  2.27e-04 -4.49e-05  8.65e-04 -5.36e-04  1.28e-03 -6.75e-04
## 105124  1.11e-03 -2.88e-04  1.41e-04 -4.43e-04 -1.10e-03 -1.06e-03 -4.30e-03
## 130462  1.31e-02 -3.44e-04  2.03e-04 -3.39e-03 -1.30e-02 -1.56e-03 -2.44e-03
## 53159   6.47e-04 -8.61e-03  8.57e-03  2.76e-02 -8.79e-04  3.61e-02 -4.68e-02
## 49903   1.35e-04 -1.10e-03  6.46e-04 -2.64e-03 -1.23e-04 -6.18e-04 -2.72e-03
## 26509  -5.72e-03 -1.24e-02  1.26e-02 -6.93e-03  5.76e-03 -8.85e-03  7.55e-03
## 15264  -2.81e-04  2.38e-06  4.02e-04 -4.32e-03  3.08e-04 -3.57e-03 -1.99e-03
## 4339   -4.46e-03 -4.61e-04  2.67e-04 -2.76e-04  4.46e-03 -7.68e-06  2.66e-03
## 73689   2.23e-03 -4.85e-04  4.02e-04  2.30e-03 -2.25e-03  4.82e-03  1.62e-02
## 128455  1.52e-02  2.75e-03 -4.25e-03 -9.93e-03 -1.50e-02 -1.24e-02 -5.74e-03
## 60535   1.18e-03  3.35e-03 -4.11e-03 -1.48e-03 -1.15e-03 -3.31e-03 -5.37e-03
## 100949  9.68e-04 -4.38e-04  1.24e-04 -1.03e-03 -9.52e-04 -1.04e-03 -2.98e-03
## 14989   2.40e-03 -5.15e-05 -3.98e-04  3.47e-03 -2.42e-03  3.62e-03  5.79e-03
## 21074   2.06e-03  2.97e-04  1.76e-04  3.41e-03 -2.08e-03  4.48e-03 -3.00e-03
## 128818  1.41e-02  8.09e-03 -8.05e-03 -9.93e-03 -1.39e-02 -1.18e-02 -5.16e-03
## 43064   1.94e-03  4.77e-02 -4.46e-02  5.42e-03 -2.01e-03 -7.02e-03 -2.32e-03
## 100425  3.04e-03  2.11e-04 -1.03e-03  6.78e-03 -3.09e-03  7.25e-03 -4.30e-03
## 1922   -1.87e-02 -9.65e-03  8.85e-03  6.42e-03  1.86e-02  1.02e-02 -4.95e-03
## 4535   -1.13e-02  1.72e-04 -8.72e-04 -5.37e-03  1.13e-02 -5.91e-03  5.60e-03
## 88788   7.56e-04  8.89e-04 -3.35e-04  1.56e-03 -7.75e-04  2.11e-03  3.22e-03
## 47734   2.09e-04  4.44e-04 -1.53e-03 -6.95e-03 -1.32e-04 -8.97e-03 -5.57e-03
## 97900   4.15e-03  1.33e-02 -1.24e-02  3.52e-02 -4.50e-03  4.20e-02  9.25e-03
## 10424  -4.78e-03 -3.60e-04  7.34e-05 -4.11e-04  4.78e-03 -2.44e-04 -1.58e-03
## 22929   1.49e-03 -2.03e-02  1.92e-02 -3.34e-03 -1.45e-03  5.60e-03 -3.06e-03
## 65535   6.56e-04  8.02e-04 -3.00e-04  9.79e-04 -6.68e-04  1.53e-03  3.20e-03
## 125020 -3.28e-02 -3.13e-03  3.32e-03  2.70e-02  3.25e-02  2.65e-02 -5.05e-02
## 105101 -1.15e-02 -2.17e-03  5.98e-03 -2.76e-02  1.17e-02 -3.05e-02  1.56e-02
## 79458  -1.65e-03 -9.40e-03  1.17e-02 -1.49e-02  1.77e-03 -1.58e-02 -4.49e-03
## 50345  -8.51e-04  1.48e-03 -2.18e-03 -1.22e-02  9.70e-04 -1.45e-02 -5.85e-03
## 82461  -7.25e-04  2.79e-02 -2.45e-02 -1.70e-02  9.31e-04 -2.95e-02 -5.60e-03
## 56982   2.82e-03 -3.53e-03  4.05e-03  3.56e-02 -3.17e-03  4.15e-02  1.52e-02
## 51271   7.63e-04 -1.64e-03  1.56e-03  3.15e-04 -7.70e-04  2.02e-03  4.93e-03
## 18898  -9.82e-03 -1.41e-03 -1.34e-03 -1.44e-02  9.88e-03 -1.73e-02  1.42e-02
## 92311  -6.80e-03  5.21e-03 -1.40e-02 -2.05e-02  7.09e-03 -3.14e-02  4.16e-03
## 119456  1.18e-03 -3.49e-04  8.31e-04 -5.92e-04 -1.17e-03 -1.24e-03 -3.78e-03
## 80479   3.57e-04 -4.70e-04  3.35e-04 -2.54e-03 -3.35e-04 -2.43e-03 -2.62e-03
## 3031   -1.46e-02  3.20e-03 -4.19e-03  1.17e-03  1.46e-02 -7.97e-04  8.22e-03
## 89329  -1.00e-02 -1.05e-02  1.19e-02 -2.72e-02  1.02e-02 -2.22e-02  1.24e-02
## 126664  7.89e-03 -1.82e-04 -2.93e-04  2.80e-04 -7.87e-03 -5.71e-05 -3.65e-03
```

```
## 26542   1.51e-04  1.48e-02 -1.09e-02  2.95e-02 -3.75e-04  1.83e-02 -5.35e-02
## 66022   5.10e-04 -1.72e-04  3.36e-04 -1.57e-03 -4.95e-04 -1.17e-03 -2.34e-03
## 44851   4.82e-04 -5.06e-05  1.95e-04  5.11e-04 -4.87e-04  1.22e-03 -7.95e-04
## 115398 -1.66e-02  2.03e-02 -1.87e-02 -3.98e-02  1.68e-02 -3.60e-02 -2.49e-02
## 96323   3.08e-04  1.09e-04  1.09e-04 -4.05e-05 -3.12e-04  8.55e-04 -7.43e-04
## 31473   1.35e-03  4.54e-04  4.85e-04  8.06e-04 -1.35e-03  1.98e-03 -2.51e-03
## 126688  1.55e-02  2.34e-03 -2.85e-03 -7.30e-03 -1.54e-02 -7.79e-03 -3.52e-03
## 29049   1.99e-03 -2.46e-04 -1.91e-04  1.87e-03 -1.99e-03  2.05e-03  5.45e-03
## 115607 -6.82e-04 -1.20e-03  1.05e-03 -6.78e-03  7.35e-04 -6.01e-03 -2.47e-03
## 47939   3.36e-03 -2.39e-04  7.94e-04  6.50e-03 -3.40e-03  5.27e-03 -4.40e-03
## 83431  -2.59e-03  1.62e-03 -2.42e-03 -1.44e-02  2.71e-03 -1.50e-02 -3.94e-03
## 106256  1.87e-04 -2.85e-04  1.77e-04  1.97e-04 -1.89e-04  3.79e-04 -4.40e-04
## 5302   -1.62e-02 -3.19e-03  4.40e-03 -3.60e-03  1.62e-02 -2.87e-03 -2.57e-03
## 86113   1.35e-03  8.25e-03 -7.37e-03 -1.05e-02 -1.20e-03 -1.81e-02 -8.04e-03
## 566    -3.52e-02 -2.76e-02  2.52e-02  4.40e-02  3.48e-02  4.85e-02 -8.68e-03
## 990    -1.86e-02  1.45e-02 -1.24e-02  2.50e-02  1.83e-02  2.00e-02 -5.74e-03
## 111778 -7.24e-04 -4.04e-04  6.22e-04 -6.48e-03  7.77e-04 -5.79e-03 -2.12e-03
## 30919  -1.23e-02  2.10e-03 -7.47e-03 -2.44e-02  1.26e-02 -2.91e-02  1.45e-02
## 15901  -1.07e-02  2.73e-04  1.53e-03 -1.80e-02  1.09e-02 -2.08e-02  1.81e-02
## 106331 -1.82e-02 -2.45e-02  2.60e-02 -4.45e-02  1.84e-02 -2.52e-02  2.12e-02
## 118084  4.46e-03  1.93e-02 -1.95e-02  5.57e-03 -4.49e-03 -2.26e-03 -8.29e-03
## 101097  1.66e-03  1.55e-04 -5.57e-04  1.78e-03 -1.67e-03  1.74e-03 -3.08e-03
## 94705   5.24e-03  1.37e-02 -1.92e-02  4.46e-02 -5.65e-03  5.08e-02 -4.11e-02
## 63329   4.27e-03  5.91e-03 -6.48e-03  1.04e-02 -4.33e-03  7.67e-03 -5.61e-03
## 33618  -1.06e-04 -1.45e-03  1.07e-03 -6.25e-03  1.64e-04 -5.13e-03 -3.50e-03
## 12319   1.03e-01 -9.40e-03 -6.65e-03  5.00e-02 -1.03e-01  4.62e-02  1.26e-02
## 87229   5.15e-04  7.06e-04  1.01e-03 -2.62e-03 -5.00e-04 -1.43e-03  9.77e-03
## 106063 -1.55e-04 -2.38e-03  2.08e-03 -2.50e-03  1.72e-04 -8.98e-04 -1.16e-03
## 86630  -5.04e-04  1.15e-03 -2.22e-03 -9.07e-03  5.87e-04 -1.10e-02 -5.18e-03
## 67671   9.54e-04  1.28e-03 -4.74e-04  2.98e-03 -9.89e-04  4.20e-03 -3.48e-04
## 2120    2.16e-03  5.89e-04 -5.36e-04 -4.58e-04 -2.15e-03 -9.61e-04 -1.45e-03
## 103826 -1.46e-02 -1.60e-02  1.77e-02 -4.08e-02  1.48e-02 -3.32e-02  1.53e-02
## 86206   2.73e-04 -3.93e-04  4.05e-04 -3.20e-03 -2.41e-04 -2.90e-03 -2.53e-03
## 68972   7.68e-03  4.92e-02 -4.58e-02  5.37e-02 -8.12e-03  3.49e-02  8.12e-03
## 44715  -9.27e-03 -1.45e-02  1.33e-02 -1.99e-02  9.40e-03 -2.94e-02  5.40e-03
## 70001   7.21e-04 -5.46e-04  4.60e-04  1.11e-03 -7.30e-04  1.75e-03 -1.06e-03
## 78826   2.34e-04 -3.62e-04  1.68e-04 -1.06e-03 -2.25e-04 -1.09e-03 -1.59e-03
## 106799 -3.62e-03 -1.61e-02  2.11e-02 -1.62e-02  3.74e-03 -1.32e-02  2.42e-04
## 114249 -6.99e-03 -7.29e-03  6.40e-03 -1.24e-02  7.06e-03 -1.61e-02  5.25e-03
## 74176   3.17e-03  8.15e-04 -1.70e-03  7.21e-03 -3.22e-03  7.64e-03 -4.17e-03
## 77802   2.04e-03  6.46e-03 -8.85e-03  1.51e-02 -2.21e-03  2.11e-02  2.33e-03
## 111899  1.96e-03  2.37e-04 -4.31e-04  3.73e-03 -1.98e-03  3.95e-03 -2.84e-03
## 110056  1.60e-04  4.35e-04 -1.19e-03 -5.55e-03 -1.12e-04 -7.00e-03 -4.99e-03
## 59015  -7.86e-03 -1.48e-03 -8.14e-04 -4.87e-03  7.84e-03 -1.79e-04 -4.01e-02
## 107729  6.85e-03 -1.42e-02  1.28e-02  1.43e-02 -6.94e-03  1.71e-02 -6.35e-03
## 130432  1.11e-02 -1.19e-03  3.48e-03 -1.07e-02 -1.10e-02 -1.10e-02 -2.40e-03
## 67510   1.87e-03 -6.94e-04  2.64e-04  1.53e-03 -1.88e-03  2.04e-03  6.62e-03
## 57365  -3.98e-03 -2.12e-02  1.77e-02  1.32e-02  3.83e-03  2.49e-02 -4.07e-02
## 9701   -2.03e-02  1.62e-03 -1.84e-03 -1.34e-03  2.03e-02 -4.96e-03 -6.30e-03
## 88921   4.34e-03  5.63e-03 -6.73e-03  5.04e-03 -4.34e-03 -1.84e-03 -9.05e-03
## 128346  1.10e-02 -1.19e-03  3.39e-03 -1.04e-02 -1.09e-02 -1.09e-02 -2.65e-03
## 90114   6.47e-04 -1.06e-03  8.53e-04  5.50e-04 -6.50e-04  1.30e-03 -1.19e-03
## 31068   4.18e-03  1.20e-02 -1.38e-02  6.00e-03 -4.19e-03 -2.88e-03 -9.58e-03
## 49681  -2.03e-03 -1.39e-04  3.22e-04 -1.18e-02  2.11e-03 -1.19e-02 -3.16e-03
## 59861   2.53e-03  1.22e-02 -1.43e-02  1.11e-03 -2.52e-03 -7.10e-03 -8.44e-03
## 70847   3.77e-04 -1.73e-03  1.42e-03 -2.69e-04 -3.78e-04  1.09e-03 -1.23e-03
## 103706  9.45e-04  1.24e-03 -3.79e-04  2.51e-03 -9.81e-04  3.73e-03  5.48e-03
## 119914  1.09e-03 -6.11e-04  4.10e-04  2.73e-03 -1.11e-03  3.56e-03 -1.17e-03
## 8644   -1.16e-02 -7.35e-04  5.28e-04 -1.24e-03  1.16e-02 -4.82e-04 -2.91e-03
## 76419   2.54e-03 -2.43e-04  3.94e-04  1.94e-03 -2.55e-03  3.50e-03  1.34e-02
## 38737   1.46e-03  8.26e-03 -8.90e-03 -4.54e-03 -1.38e-03 -1.18e-02 -8.09e-03
## 6891   -3.64e-02 -1.14e-03  2.03e-03  1.04e-03  3.64e-02  2.83e-03 -3.93e-03
## 22119   1.85e-03  4.14e-02 -3.92e-02  4.29e-03 -1.89e-03 -3.72e-03 -1.97e-03
## 51452  -9.13e-03  1.37e-02 -1.94e-02 -1.82e-02  9.29e-03 -2.02e-02  1.03e-02
## 63280  -9.63e-04 -7.01e-03  5.71e-03 -3.07e-02  1.30e-03 -4.18e-02 -1.44e-02
## 12354  -2.44e-02 -2.03e-03  2.39e-03 -1.11e-02  2.44e-02 -1.23e-02  1.45e-02
## 99334   8.26e-04 -7.47e-04  2.31e-04 -1.17e-03 -8.14e-04 -8.41e-04 -3.03e-03
## 106612 -6.59e-04 -6.03e-05  3.61e-04 -4.34e-03  6.74e-04 -3.77e-03 -2.88e-03
## 47404  -1.10e-03  1.92e-03 -2.14e-03 -1.29e-02  1.23e-03 -1.51e-02 -5.17e-03
## 22802   8.73e-04 -3.90e-03  3.50e-03 -2.21e-03 -8.62e-04 -2.58e-03 -4.93e-03
## 86200  -4.34e-03 -1.19e-02  1.78e-02 -2.82e-02  4.65e-03 -3.96e-02 -3.61e-03
## 28445  -4.37e-04  1.54e-03 -2.23e-04 -3.85e-03  4.53e-04 -3.33e-03 -1.24e-03
## 47593   2.20e-04 -5.14e-03  8.19e-03 -4.95e-03 -1.83e-04 -3.94e-03 -1.99e-03
## 80183   3.20e-04 -5.61e-04  4.93e-04 -8.95e-05 -3.20e-04  5.55e-04 -8.74e-04
## 104628  3.67e-03  4.28e-04 -7.37e-04  6.34e-03 -3.72e-03  7.68e-03  1.43e-02
## 129787 -4.01e-02  4.34e-02 -3.97e-02  1.41e-02  3.99e-02 -6.07e-05  1.24e-02
## 19442   5.09e-05 -5.44e-04  1.10e-03 -6.67e-03  5.54e-06 -1.01e-02 -5.35e-03
## 130517 -4.28e-02 -9.02e-03  8.98e-03 -1.66e-02  4.29e-02 -1.60e-02 -4.99e-02
## 67283   3.05e-04  2.78e-02 -2.70e-02  1.93e-02 -5.12e-04  5.56e-03  4.82e-03
## 54983  -2.97e-03  1.50e-02 -1.67e-02  1.46e-02  2.77e-03  2.31e-02 -2.68e-02
## 63073   1.34e-03  1.37e-02 -1.31e-02  8.51e-03 -1.44e-03  1.12e-02  2.66e-03
## 92366   2.75e-03  6.53e-04 -1.30e-03  6.74e-03 -2.80e-03  7.80e-03 -3.62e-03
## 78608  -5.73e-03  2.41e-02 -3.33e-02 -1.19e-02  5.87e-03 -1.99e-02  3.90e-03
## 10242  -1.18e-02  2.56e-03 -3.06e-03  4.14e-03  1.18e-02  2.73e-03 -4.05e-03
## 82365   1.58e-03 -7.15e-04  1.00e-03  1.09e-03 -1.59e-03  1.79e-03  6.70e-03
## 14737   2.09e-03 -6.91e-04 -2.49e-04  2.93e-03 -2.12e-03  4.16e-03  9.32e-03
## 66718  -1.15e-02  7.61e-03 -7.45e-03 -2.84e-02  1.17e-02 -4.46e-02  1.12e-02
## 12353  -1.14e-02 -1.61e-03  1.17e-03 -5.26e-03  1.14e-02 -4.68e-03 -3.12e-03
## 94023   2.17e-03  9.54e-05 -1.21e-03  4.41e-03 -2.20e-03  4.32e-03 -3.62e-03
## 107091 -9.25e-04 -6.41e-04  1.65e-03 -1.09e-02  1.00e-03 -8.83e-03  1.51e-02
## 89960   1.06e-03 -1.76e-04  3.98e-04  2.03e-03 -1.09e-03  3.09e-03  4.19e-03
## 27394  -6.62e-03  4.90e-03 -6.59e-03 -7.43e-03  6.61e-03  1.87e-03  9.22e-03
## 116294 -6.76e-04 -2.60e-04  5.46e-04 -6.40e-03  7.29e-04 -5.79e-03 -2.10e-03
## 57136  -9.18e-03 -6.64e-03  7.72e-03 -1.17e-02  9.25e-03 -4.64e-03  1.85e-02
## 84913   4.92e-04 -1.79e-04  1.89e-04 -2.05e-03 -4.87e-04 -2.46e-03 -3.73e-03
## 92117  -5.28e-04 -1.53e-03  1.14e-03 -5.85e-03  5.76e-04 -4.93e-03 -2.60e-03
## 103226 -3.77e-03 -9.02e-03  9.58e-03  1.23e-02  3.63e-03  1.13e-02  1.24e-02
## 115950  2.94e-04  1.37e-04 -5.16e-05  3.60e-04 -2.98e-04  6.91e-04 -5.41e-04
```

```
## 21823  -3.70e-03  4.64e-02 -4.39e-02 -6.01e-03  3.75e-03 -2.66e-02  1.25e-03
## 79592   1.06e-03 -1.86e-04  3.73e-04  2.91e-03 -1.09e-03  4.35e-03 -8.73e-04
## 1147    2.14e-03  6.41e-04 -4.51e-04 -5.68e-04 -2.13e-03 -9.88e-04  7.89e-04
## 42865  -5.31e-03 -1.12e-01  1.08e-01 -1.56e-02  5.54e-03 -5.73e-04  4.86e-03
## 124357 -3.40e-02 -1.69e-02  1.49e-02 -4.54e-03  3.39e-02  6.99e-03  8.12e-03
## 109406  6.25e-05  9.96e-04 -1.48e-03 -5.96e-03 -4.67e-06 -7.39e-03 -4.68e-03
## 82609  -5.79e-04 -3.66e-03  3.83e-03  4.91e-03  5.65e-04  5.91e-03  8.32e-03
## 82541  -7.78e-03  8.02e-04 -4.19e-03 -2.06e-02  7.94e-03 -2.06e-02  6.81e-03
## 67797  -3.31e-03  2.23e-02 -2.04e-02  1.14e-02  3.21e-03 -1.60e-02  7.95e-03
## 58345   3.50e-04 -8.18e-04  5.02e-04 -3.00e-03 -3.24e-04 -2.72e-03 -2.83e-03
## 23255   4.84e-04  1.86e-03 -1.42e-03 -3.71e-03 -4.44e-04 -4.78e-03 -3.99e-03
## 43058  -3.23e-05  2.43e-04 -8.20e-04 -9.79e-03  1.14e-04 -1.08e-02  1.19e-02
## 82493   3.05e-03  9.44e-03 -9.28e-03 -7.14e-03 -2.93e-03 -1.85e-02  2.35e-02
## 81547   3.39e-04 -8.70e-03  8.86e-03 -1.24e-02 -2.01e-04 -1.96e-02 -7.54e-03
## 113005 -1.53e-02 -7.97e-03  9.00e-03 -3.98e-02  1.56e-02 -3.31e-02  1.69e-02
## 48076   1.17e-03  6.10e-04 -1.54e-03 -2.97e-03 -1.12e-03 -5.03e-03 -5.54e-03
## 53892   2.65e-03 -1.13e-04  2.66e-04  5.18e-03 -2.68e-03  5.85e-03 -3.70e-03
## 20394  -7.15e-04 -7.64e-03  1.12e-02  2.00e-02  4.81e-04  2.65e-02  1.82e-02
## 54438   1.36e-03 -1.89e-04 -1.10e-04  1.47e-03 -1.37e-03  1.79e-03 -2.83e-03
## 53607   3.01e-04 -1.87e-04  3.01e-04 -2.92e-03 -2.73e-04 -2.75e-03 -2.43e-03
## 78395   2.25e-03  8.37e-03 -7.89e-03  5.36e-03 -2.31e-03  6.56e-03  9.08e-03
## 89215  -5.20e-03 -1.75e-02  1.45e-02 -4.69e-03  5.17e-03  5.94e-03  6.38e-03
## 17515   2.29e-03 -2.44e-04  1.22e-04  3.39e-03 -2.32e-03  3.91e-03  6.75e-03
## 66058   1.36e-03 -2.75e-04 -7.72e-05  1.44e-03 -1.37e-03  1.64e-03 -2.88e-03
## 32227  -1.40e-02  5.54e-04 -3.96e-03 -2.67e-02  1.42e-02 -2.92e-02  1.71e-02
## 36891  -1.20e-02 -9.22e-03  1.46e-02  5.76e-03  1.19e-02  1.70e-02 -4.08e-02
## 101747  1.97e-03 -6.50e-04  7.94e-04  5.40e-03 -2.02e-03  7.86e-03 -1.55e-03
## 48438   4.19e-03  9.88e-03 -7.11e-03  3.78e-02 -4.49e-03  3.17e-02  1.49e-02
## 124781  1.39e-02  3.42e-03 -4.82e-03 -2.45e-03 -1.39e-02 -4.39e-03 -4.60e-03
## 71365  -1.93e-04 -3.88e-03  5.86e-03 -6.89e-03  2.50e-04 -6.60e-03 -3.13e-03
## 56926  -3.57e-04 -8.21e-05  7.82e-04 -6.14e-03  4.01e-04 -5.08e-03  8.22e-03
## 38898   6.80e-04  5.64e-04 -6.52e-04 -5.20e-03 -6.23e-04 -7.14e-03 -4.94e-03
## 22849   4.89e-04 -1.03e-03  9.95e-04 -3.66e-03 -4.60e-04 -2.99e-03  6.51e-03
## 80436  -1.16e-02 -2.78e-02  3.34e-02 -1.90e-02  1.16e-02  2.30e-03  2.48e-02
## 67892  -1.25e-02 -3.45e-03  5.54e-03 -2.78e-02  1.26e-02 -2.96e-02  1.54e-02
## 24468  -1.28e-02  4.63e-03 -1.08e-02 -2.41e-02  1.30e-02 -2.90e-02  1.59e-02
## 12348   2.42e-03  6.74e-04 -5.31e-04 -2.17e-04 -2.41e-03 -6.98e-04  7.89e-04
## 123782  1.13e-02  1.20e-03 -7.35e-05 -8.35e-03 -1.13e-02 -6.18e-03 -1.08e-03
## 112780  1.14e-03 -6.73e-03  9.34e-03  2.38e-03 -1.18e-03  5.06e-03 -1.10e-03
## 47550   1.69e-03  3.85e-03 -4.87e-03 -4.52e-03 -1.61e-03 -8.18e-03 -7.18e-03
## 50080   6.45e-04 -7.97e-04  7.42e-04  7.12e-04 -6.53e-04  1.77e-03 -1.10e-03
## 30331   3.58e-04 -9.87e-04  1.22e-03 -3.25e-03 -3.42e-04 -1.68e-03  9.31e-03
## 72720   6.14e-03  1.19e-02 -8.71e-03  3.76e-02 -6.41e-03  2.88e-02  1.07e-02
## 92871   2.33e-03 -2.39e-02  2.32e-02 -9.89e-03 -2.22e-03 -2.22e-04  2.65e-02
## 63361  -8.30e-04  1.20e-02 -1.66e-02 -1.44e-02  1.06e-03 -2.41e-02 -3.24e-03
## 122946  4.15e-03  8.11e-03 -9.44e-03  3.83e-03 -4.16e-03 -2.29e-03  1.38e-02
## 101616 -4.74e-03 -5.56e-03  1.11e-02  2.42e-02  4.50e-03  3.06e-02 -4.45e-02
## 103196  1.72e-02 -2.03e-02  1.91e-02  4.97e-02 -1.75e-02  4.94e-02 -9.54e-03
## 73906   7.58e-04 -1.35e-03  9.23e-04 -2.65e-03 -7.34e-04 -2.25e-03  4.97e-03
## 29797  -5.72e-03 -2.59e-03  2.97e-03  9.11e-03  5.60e-03  1.68e-02  2.10e-02
## 52078   4.56e-03  2.82e-04  2.70e-04  8.51e-03 -4.60e-03  6.41e-03 -5.92e-03
## 76367   5.46e-03  4.10e-02 -3.94e-02  3.35e-02 -5.75e-03  1.42e-02  2.18e-03
## 33668   2.56e-03 -1.04e-04 -3.23e-04  4.01e-03 -2.59e-03  4.39e-03  7.08e-03
## 41915  -9.71e-03 -1.77e-02  2.19e-02 -1.68e-02  9.82e-03 -6.95e-03  1.92e-02
## 130327  2.16e-02  1.28e-02 -1.44e-02 -4.16e-03 -2.15e-02 -1.10e-02  2.60e-02
## 76595   2.04e-03  2.62e-03 -2.92e-03  3.33e-03 -2.07e-03  1.85e-03 -4.14e-03
## 65694   1.58e-03  3.10e-03 -6.04e-03  2.36e-02 -1.75e-03  2.43e-02  1.19e-02
## 79930   5.90e-04 -5.47e-04  3.37e-04  5.74e-04 -5.96e-04  5.51e-04 -1.55e-03
## 106027  4.91e-03 -6.96e-03  8.93e-03  1.72e-02 -5.04e-03  1.70e-02 -3.35e-03
## 126193  7.45e-03 -9.31e-04  4.83e-04 -4.44e-03 -7.39e-03 -4.51e-03 -3.53e-03
## 92054   2.29e-03  4.72e-03 -5.57e-03  1.34e-03 -2.28e-03 -1.46e-03 -5.99e-03
## 115717 -1.06e-02 -2.73e-03  6.88e-03 -2.77e-02  1.08e-02 -3.17e-02  1.41e-02
## 59935   5.63e-04  1.66e-03 -1.80e-03 -6.02e-03 -4.97e-04 -8.13e-03 -5.47e-03
## 19908  -5.13e-03  6.23e-03 -6.33e-03 -4.26e-03  5.10e-03 -3.81e-04  7.19e-03
## 22306   2.21e-03 -4.53e-04 -2.39e-04  2.62e-03 -2.24e-03  3.21e-03  7.55e-03
## 11175   3.84e-03  8.90e-04 -7.54e-04  3.21e-04 -3.84e-03 -3.90e-04  1.20e-03
## 52277  -2.43e-03  3.78e-02 -3.38e-02  8.22e-03  2.34e-03 -2.07e-03  9.89e-03
## 56579   1.47e-04 -4.76e-04  4.76e-04 -3.41e-03 -1.15e-04 -2.93e-03 -2.47e-03
## 64360   3.89e-03  1.38e-02 -1.30e-02  2.18e-02 -4.11e-03  2.55e-02  3.56e-03
## 46859   2.92e-03  1.13e-03 -3.68e-04  1.01e-02 -3.02e-03  1.05e-02 -2.45e-03
## 28988   1.91e-03 -1.10e-05 -2.63e-04  1.23e-03 -1.91e-03  1.55e-03 -4.03e-03
## 129431 -5.97e-02 -1.68e-02  9.77e-03 -3.24e-02  5.99e-02 -4.11e-02  8.15e-03
## 91879   1.31e-04 -5.69e-04  4.78e-04 -4.14e-03 -8.89e-05 -4.18e-03 -2.61e-03
## 89647   7.66e-04 -1.25e-02  1.19e-02 -1.17e-02 -6.25e-04 -9.46e-03 -5.92e-03
## 56483   3.22e-03  3.42e-02 -3.22e-02  3.54e-02 -3.58e-03  2.78e-02  8.11e-03
## 70762   2.71e-03  2.65e-03 -2.86e-03  1.87e-03 -2.71e-03  2.73e-03 -4.18e-03
## 88155   1.17e-03  2.08e-03 -7.81e-04  1.54e-03 -1.20e-03  3.59e-03  9.85e-03
## 21281   4.35e-03  5.47e-03 -6.78e-03  9.97e-03 -4.41e-03  6.50e-03 -6.10e-03
## 106338 -9.55e-03  3.84e-02 -3.40e-02 -5.58e-03  9.51e-03 -1.14e-02  1.63e-02
## 87288  -3.11e-03 -3.12e-02  2.95e-02 -2.87e-02  3.38e-03 -1.86e-02 -5.10e-03
## 4946   -8.79e-04 -8.92e-05  1.13e-04 -3.22e-05  8.76e-04  1.44e-04 -1.36e-04
## 105824 -4.05e-03  2.88e-02 -2.49e-02  2.10e-02  3.82e-03  1.22e-02  1.75e-02
## 23697  -9.38e-03  2.25e-02 -2.11e-02 -7.59e-03  9.33e-03 -1.03e-02  1.29e-02
## 28490   2.76e-03  3.24e-04 -1.19e-03  4.40e-03 -2.78e-03  4.48e-03 -4.51e-03
## 69815   1.89e-03 -2.86e-02  3.39e-02 -3.96e-04 -1.87e-03  4.70e-03 -2.25e-03
## 105652  7.16e-03  9.19e-03 -1.00e-02  1.60e-02 -7.24e-03  8.11e-03 -9.11e-03
## 117532  2.29e-03 -5.28e-03  6.80e-03  1.98e-03 -2.30e-03  2.34e-03 -3.90e-03
## 52190  -1.48e-02 -8.26e-03  8.40e-03 -2.50e-02  1.49e-02 -8.10e-03  2.27e-02
## 103954  9.11e-04 -6.12e-04  3.28e-04  1.55e-03 -9.41e-04  3.76e-03 -2.48e-03
## 97626   4.04e-04 -1.92e-03  1.87e-03 -5.73e-04 -4.04e-04  2.29e-03 -1.48e-03
## 7195   -1.05e-02  1.87e-03 -2.48e-03  8.62e-04  1.04e-02 -4.41e-04  6.02e-03
## 121038  2.75e-03  5.58e-04 -8.72e-04  6.26e-03 -2.79e-03  7.19e-03 -3.60e-03
## 130315 -4.46e-02 -7.27e-03  1.27e-02  1.50e-02  4.44e-02  2.04e-02 -4.61e-02
## 103679  5.55e-03  1.59e-02 -1.46e-02  1.18e-02 -5.63e-03  6.49e-03 -4.89e-03
## 115867  1.70e-03 -2.31e-02  2.75e-02 -7.61e-03 -1.64e-03 -3.97e-03  2.66e-02
## 40171  -9.94e-04 -1.95e-02  2.38e-02 -7.37e-03  1.04e-03 -3.44e-03 -9.99e-04
## 75108   1.52e-03 -4.86e-03  7.12e-03 -7.10e-03 -1.45e-03 -8.78e-03  2.03e-02
## 113622  2.17e-03 -1.03e-03  1.38e-03  4.14e-03 -2.21e-03  6.78e-03  9.19e-03
```

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## 125738  2.23e-02  4.33e-02 -4.08e-02  1.04e-02 -2.23e-02 -6.71e-04 -2.54e-03
## 55156  -1.20e-03  5.08e-03 -3.91e-03 -1.93e-02  1.37e-03 -1.72e-02  2.52e-02
## 73835   1.59e-03 -5.13e-04  7.35e-04  9.57e-04 -1.60e-03  1.48e-03  6.12e-03
## 94729   1.46e-03 -1.03e-02  1.37e-02  5.46e-04 -1.47e-03  3.63e-03 -2.47e-03
## 32352   1.95e-03 -1.18e-03  5.10e-04  1.29e-03 -1.98e-03  3.94e-03  1.64e-02
## 75     -2.12e-04 -6.09e-05  5.22e-05  6.25e-05  2.10e-04  1.24e-04  1.53e-04
## 52326   5.08e-03 -4.25e-03  7.45e-03  3.40e-02 -5.36e-03  3.72e-02  1.25e-02
## 62898   4.09e-03  1.22e-02 -1.42e-02  7.19e-03 -4.12e-03 -8.60e-04 -8.69e-03
## 103358  2.06e-03  1.07e-04 -6.22e-04  4.28e-03 -2.10e-03  4.59e-03 -3.07e-03
## 23674  -7.89e-03  1.44e-02 -1.39e-02 -1.61e-03  7.85e-03  2.57e-05 -3.72e-02
## 118202 -4.95e-04  2.40e-03 -3.39e-03 -7.72e-03  5.62e-04 -9.36e-03 -5.05e-03
## 78728   3.29e-04 -9.81e-04  8.81e-04 -1.94e-04 -3.31e-04  9.81e-04 -1.02e-03
## 105325  1.69e-03 -6.83e-04  3.26e-03  4.08e-03 -1.73e-03  6.49e-03 -1.02e-03
## 69572   5.73e-04  1.47e-04  4.21e-05  1.33e-03 -5.90e-04  2.31e-03 -7.55e-04
## 35027  -3.30e-03  1.79e-02 -1.58e-02  4.56e-03  3.18e-03  9.37e-03  1.04e-02
## 33907   4.01e-03  3.81e-02 -3.56e-02  7.02e-03 -4.08e-03  1.84e-04  2.36e-02
## 129912  6.02e-03 -9.21e-04  5.59e-04  4.06e-03 -6.04e-03  5.02e-03 -1.87e-03
## 108858  2.66e-03  6.62e-04 -6.60e-04  6.33e-03 -2.70e-03  7.52e-03 -3.10e-03
## 16481   8.88e-03  5.39e-04 -1.19e-03  2.70e-02 -9.08e-03  2.24e-02 -8.01e-03
## 17752   2.28e-03 -5.31e-04  1.07e-03  3.58e-03 -2.32e-03  4.65e-03  8.80e-03
## 66940  -4.71e-03 -2.50e-02  3.03e-02  1.81e-02  4.45e-03  4.17e-02  2.78e-02
## 19577   2.08e-03 -5.13e-04 -8.12e-04  2.05e-03 -2.08e-03  2.50e-03 -4.60e-03
## 70798  -1.61e-03 -1.02e-03  9.65e-04 -1.92e-02  1.80e-03 -1.74e-02 -4.42e-03
## 122379  4.56e-03  4.92e-03 -5.57e-03  4.39e-03 -4.56e-03  1.26e-03  1.38e-02
## 58661  -1.70e-02 -1.45e-02  1.57e-02 -2.51e-02  1.71e-02 -9.16e-03 -3.93e-02
## 95979   2.94e-04  7.13e-04 -3.48e-03  3.75e-02 -6.79e-04  4.65e-02 -4.24e-02
## 69488  -8.21e-03  4.18e-02 -3.71e-02  7.52e-03  8.02e-03  2.66e-03  1.97e-02
## 56475  -8.57e-05  1.75e-03 -1.83e-03 -6.57e-03  1.46e-04 -8.02e-03 -4.58e-03
## 30035  -8.09e-03 -2.84e-03  4.63e-03  3.34e-03  8.05e-03 -1.53e-04 -4.49e-02
## 66388   5.53e-03  8.49e-03 -6.72e-03  8.77e-03 -5.60e-03  7.78e-03  2.84e-02
## 43814  -1.12e-02 -2.21e-03  4.14e-03 -2.58e-02  1.14e-02 -2.95e-02  1.50e-02
## 29186   4.93e-03  6.26e-03 -5.86e-03  1.34e-02 -5.04e-03  1.55e-02 -2.32e-03
## 113368 -6.28e-05 -1.32e-03  1.19e-03 -1.86e-03  7.64e-05 -7.91e-04 -9.78e-04
## 10794  -2.51e-02  1.14e-02 -1.28e-02  4.95e-03  2.50e-02 -1.69e-03 -8.07e-03
## 37245   1.66e-03  9.75e-04 -1.31e-03  2.42e-04 -1.66e-03 -1.31e-03 -4.85e-03
## 56694   1.52e-03 -1.03e-02  9.78e-03 -4.18e-04 -1.51e-03  5.26e-03 -1.95e-03
## 83658   1.69e-03  1.05e-04 -3.15e-04  4.64e-03 -1.74e-03  5.97e-03 -2.24e-03
## 44863   3.59e-03 -2.46e-03  3.05e-03 -3.09e-04 -3.58e-03  2.72e-03  2.08e-02
## 32054   1.68e-03  3.17e-05 -6.49e-04  2.78e-03 -1.70e-03  3.20e-03 -3.03e-03
## 75497   1.09e-03  6.16e-04 -1.53e-05  2.07e-03 -1.11e-03  2.98e-03  4.56e-03
## 50891   1.15e-03  4.64e-02 -5.32e-02  8.47e-03 -1.21e-03  1.74e-03 -5.99e-04
## 112711 -1.25e-05 -2.95e-03  2.57e-03 -3.63e-03  4.29e-05 -1.53e-03 -2.12e-03
## 69352  -5.25e-04  1.93e-02 -1.75e-02  3.04e-02  3.08e-04  1.43e-02  1.87e-02
## 3594   -6.39e-03 -1.28e-04  5.86e-04 -2.73e-03  6.40e-03 -2.34e-03 -1.05e-03
## 110338  2.52e-03  5.47e-04 -9.67e-04  6.35e-03 -2.57e-03  7.71e-03 -3.22e-03
## 1301    7.49e-02 -1.67e-02  2.00e-02 -2.95e-02 -7.44e-02 -2.39e-02  1.87e-02
## 69817   3.91e-03  6.07e-03 -5.33e-03  4.39e-02 -4.27e-03  3.90e-02  1.98e-02
## 5765   -2.40e-02  1.20e-02 -1.14e-02 -1.16e-02  2.41e-02 -1.21e-02 -2.05e-03
## 17733  -1.49e-02  3.13e-02 -2.86e-02 -3.92e-02  1.51e-02 -4.60e-02  9.00e-03
## 114442  1.60e-02  2.69e-02 -2.80e-02  4.77e-02 -1.63e-02  2.34e-02 -1.58e-02
## 65139   5.73e-04  4.65e-02 -4.49e-02  9.47e-03 -6.09e-04 -1.90e-02 -1.67e-03
## 15121  -5.77e-03  1.64e-02 -1.56e-02 -1.47e-02  5.83e-03 -1.32e-02  4.66e-03
## 99344   2.02e-03  1.69e-04 -4.37e-04  3.97e-03 -2.05e-03  4.19e-03 -2.92e-03
## 110742 -1.22e-02 -7.95e-04  2.04e-03 -2.49e-02  1.24e-02 -2.86e-02  1.80e-02
## 70855   4.72e-03 -2.01e-02  1.88e-02  6.16e-03 -4.74e-03  2.34e-03 -7.62e-03
## 127344  6.10e-03 -1.06e-03  6.80e-04  4.05e-03 -6.12e-03  5.44e-03 -1.70e-03
## 97978   2.60e-03  3.08e-02 -3.39e-02 -1.60e-03 -2.54e-03 -2.48e-02 -1.42e-02
## 99749  -6.21e-04 -2.27e-04  5.15e-04 -5.75e-03  6.66e-04 -5.00e-03 -2.03e-03
## 7932    6.34e-02  3.00e-02 -2.99e-02  2.18e-02 -6.36e-02  1.50e-02 -4.11e-02
## 45416   7.60e-04 -3.00e-04  2.42e-04  1.48e-03 -7.72e-04  1.94e-03 -9.60e-04
## 82720   1.67e-03  3.16e-03 -4.43e-03 -9.20e-04 -1.64e-03 -3.32e-03 -6.47e-03
## 78478  -4.66e-03 -1.00e-02  1.30e-02 -1.11e-02  4.75e-03 -8.12e-03  1.20e-02
## 108918  4.15e-03  3.67e-04  2.75e-04  1.09e-02 -4.23e-03  1.00e-02 -3.89e-03
## 126973  1.40e-02 -1.22e-02  1.52e-02 -3.60e-02 -1.36e-02 -4.01e-02 -4.57e-03
## 40547  -3.11e-03 -2.94e-02  3.42e-02  3.25e-03  3.02e-03  2.09e-02  1.72e-02
## 32703   4.19e-03 -2.89e-02  3.40e-02  5.26e-03 -4.23e-03  1.20e-02  2.58e-02
## 44187  -3.66e-04 -3.05e-04  9.66e-04 -6.56e-03  4.12e-04 -5.40e-03  9.14e-03
## 57715  -1.76e-02 -1.33e-02  1.61e-02 -2.68e-02  1.77e-02 -9.73e-03 -3.39e-02
## 36556  -3.15e-04 -2.11e-02  2.55e-02 -7.57e-03  3.71e-04 -4.04e-03 -2.09e-03
## 113490  2.79e-03  4.23e-04 -8.36e-04  5.97e-03 -2.83e-03  6.67e-03 -3.83e-03
## 25344   1.28e-04  3.70e-03 -5.16e-03 -6.74e-03 -5.06e-05 -9.12e-03 -5.97e-03
## 113945  2.87e-03 -1.11e-03  7.47e-05 -1.21e-03 -2.83e-03 -2.36e-03 -7.39e-03
## 116374  2.14e-03  1.64e-03 -1.06e-03 -2.52e-04 -2.11e-03 -2.22e-03 -5.27e-03
## 115588  4.78e-04  2.00e-04 -5.81e-05  6.15e-04 -4.85e-04  1.05e-03 -7.45e-04
## 25395  -1.44e-03 -4.12e-03  5.82e-03  2.35e-02  1.20e-03  3.06e-02  2.06e-02
## 332    -1.95e-02  1.83e-02 -2.00e-02  1.14e-02  1.94e-02 -1.50e-03 -1.14e-02
## 20514  -3.59e-04 -6.80e-04  8.45e-04 -6.63e-03  4.12e-04 -7.18e-03 -4.01e-03
## 6482   -1.65e-02  8.35e-03 -9.73e-03  6.05e-03  1.65e-02  9.24e-04  9.54e-03
## 44551   1.23e-03 -5.90e-04  1.61e-04 -2.11e-03 -1.19e-03 -1.77e-03 -4.11e-03
## 101484  1.91e-02 -2.75e-02  2.50e-02  5.62e-02 -1.95e-02  5.21e-02 -1.20e-02
## 58809   3.04e-03  8.63e-03 -8.30e-03  6.41e-03 -3.09e-03  6.70e-03 -2.56e-03
## 77865   2.79e-03  4.43e-03 -5.58e-03  4.23e-03 -2.81e-03  1.33e-03 -5.58e-03
## 78336   1.47e-04 -7.39e-04  1.60e-03  2.23e-03 -2.03e-04  6.03e-03 -5.25e-04
## 77648   2.72e-03  5.93e-04 -1.15e-03  6.50e-03 -2.76e-03  7.54e-03 -3.62e-03
## 98559  -3.67e-03  2.67e-03 -2.68e-03 -2.42e-02  3.88e-03 -2.48e-02 -3.87e-03
## 84634  -7.97e-04  1.20e-03  3.26e-04 -6.07e-03  8.38e-04 -4.46e-03 -1.44e-03
## 51801  -4.39e-04 -1.83e-03  1.81e-03 -7.09e-03  4.88e-04 -5.47e-03  9.50e-03
## 10318  -2.08e-02 -7.01e-04  7.25e-04 -1.35e-02  2.09e-02 -1.16e-02  1.27e-02
## 49215  -8.33e-04  1.76e-02 -1.65e-02  3.03e-02  6.07e-04  1.49e-02  1.85e-02
## 28880   3.24e-03 -4.35e-03  5.63e-03  6.48e-03 -3.29e-03  6.71e-03 -3.82e-03
## 45623   6.63e-03 -1.35e-02  1.49e-02  1.76e-02 -6.75e-03  1.32e-02 -4.57e-03
## 25262   3.35e-03  7.66e-03 -8.74e-03  4.14e-03 -3.36e-03 -2.64e-03 -7.82e-03
## 92162  -5.08e-03 -2.24e-02  2.07e-02 -3.69e-02  5.43e-03 -3.62e-02 -7.01e-03
## 6608   -2.62e-02 -4.33e-04  4.44e-04 -1.42e-02  2.62e-02 -1.38e-02 -3.50e-03
## 96468  -7.11e-04  9.66e-04 -5.38e-05 -5.71e-03  7.54e-04 -5.12e-03 -1.51e-03
## 80451  -3.62e-04 -2.14e-05  4.89e-04 -4.11e-03  3.83e-04 -3.04e-03 -1.76e-03
## 108732  5.25e-03  1.47e-02 -1.39e-02  3.14e-03 -5.26e-03 -2.50e-03  1.84e-02
## 113813 -2.05e-03 -2.23e-03  2.85e-03 -1.28e-02  2.12e-03 -9.02e-03  1.85e-02
```

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## 13108  -1.48e-02 -3.46e-03  5.35e-03 -5.39e-03  1.48e-02 -4.96e-03 -2.36e-03
## 41332  -1.18e-02 -8.85e-04 -2.09e-04 -2.56e-02  1.20e-02 -2.90e-02  1.42e-02
## 76628   1.80e-03  1.44e-04  3.51e-04  3.71e-03 -1.83e-03  4.49e-03 -2.16e-03
## 52506  -4.31e-04 -1.64e-03  1.25e-03 -8.20e-03  5.07e-04 -7.52e-03 -3.88e-03
## 106445  8.98e-04 -1.42e-03  1.18e-03  2.03e-03 -9.22e-04  3.81e-03 -1.17e-03
## 100109  1.57e-03 -2.28e-03  1.85e-03 -2.97e-03 -1.54e-03 -5.80e-04 -4.12e-03
## 26162  -2.10e-04 -1.97e-03  1.28e-03 -6.33e-03  2.72e-04 -4.99e-03 -3.73e-03
## 41842   6.62e-04 -1.72e-03  8.51e-04 -4.50e-03 -6.05e-04 -4.11e-03 -4.51e-03
## 93985  -6.29e-03 -9.91e-03  1.31e-02 -4.69e-02  6.80e-03 -6.20e-02 -8.85e-03
## 114791  4.60e-03 -1.74e-02  1.75e-02  3.87e-02 -4.92e-03  3.08e-02  7.83e-03
## 46187  -1.12e-03  1.30e-03 -1.13e-03 -1.13e-02  1.22e-03 -1.50e-02 -5.65e-03
## 63897   1.48e-03  4.72e-03 -2.36e-03  5.23e-03 -1.54e-03  6.76e-03  2.77e-04
## 105995  2.45e-03 -1.19e-04  4.51e-04  6.56e-03 -2.51e-03  8.24e-03 -2.69e-03
## 93835   1.07e-03  3.57e-03 -4.59e-03 -5.69e-03 -9.84e-04 -8.82e-03 -6.69e-03
## 85371  -6.45e-03 -1.52e-02  1.65e-02 -1.09e-02  6.50e-03  1.55e-03  1.53e-02
## 29447   2.21e-03  3.43e-04 -9.02e-04  3.95e-03 -2.23e-03  4.92e-03 -3.66e-03
## 9703   -6.79e-03 -1.06e-03  9.48e-04 -1.72e-03  6.79e-03 -8.40e-04  4.23e-03
## 51876   2.34e-03  6.87e-03 -7.92e-03 -6.53e-03 -2.25e-03 -1.31e-02  1.09e-02
## 39531   1.06e-02  1.51e-02 -1.58e-02  2.33e-02 -1.06e-02  2.08e-03 -1.58e-02
## 33207   1.45e-03  2.74e-03 -3.68e-03  1.13e-03 -1.46e-03 -4.97e-04 -4.60e-03
## 84304   5.53e-04 -4.46e-03 -3.76e-03  1.47e-02 -5.96e-04  7.42e-03  7.22e-03
## 45817  -4.17e-03 -5.87e-03  4.76e-03  1.22e-02  3.97e-03  2.34e-02  1.29e-02
## 126640  1.84e-02  8.56e-03 -9.91e-03  1.05e-03 -1.83e-02 -7.01e-03 -8.60e-03
## 34191   5.90e-04 -1.97e-02  2.35e-02 -6.75e-03 -5.27e-04 -4.48e-03 -3.70e-03
## 108462  8.91e-04 -1.52e-03  1.16e-03  1.76e-03 -9.10e-04  3.20e-03 -1.34e-03
## 107826 -8.43e-03  2.56e-02 -2.40e-02  9.17e-03  8.28e-03  5.29e-03 -4.09e-02
## 27928   6.26e-04 -1.84e-05 -3.44e-04 -6.17e-03 -5.82e-04 -6.80e-03  1.25e-02
## 62903   5.78e-04 -1.98e-03  1.88e-03 -2.13e-04 -5.85e-04  2.56e-03 -1.58e-03
## 128542  2.91e-02  6.75e-03 -3.30e-03 -1.83e-02 -2.88e-02 -2.85e-02  4.12e-02
## 80683  -4.19e-04 -1.06e-03  8.93e-04 -5.92e-03  4.67e-04 -5.34e-03 -2.58e-03
## 17698  -1.97e-03 -3.70e-03  5.83e-03  2.40e-02  1.71e-03  3.16e-02  2.26e-02
## 81464   5.56e-03 -3.86e-03  3.79e-03  4.06e-03 -5.53e-03 -7.40e-04 -9.07e-03
## 118643 -8.97e-03  1.17e-02 -1.41e-02 -2.67e-02  9.14e-03 -2.03e-02  7.90e-03
## 93411   7.70e-04  8.61e-04 -9.05e-04 -3.69e-03 -7.53e-04 -3.55e-03  1.58e-02
## 99867   1.39e-03 -2.12e-04 -8.37e-05  1.99e-03 -1.41e-03  2.65e-03 -2.72e-03
## 44925   7.29e-04 -6.17e-03  6.15e-03 -6.44e-03 -6.82e-04 -5.49e-04  1.59e-02
## 128142  1.26e-02 -5.90e-04  1.32e-04 -3.03e-03 -1.25e-02 -2.16e-03 -3.77e-03
## 83712  -7.65e-03 -2.53e-03  1.05e-04 -5.99e-03  7.64e-03 -7.03e-04 -3.62e-02
## 14739   2.97e-04 -1.67e-03  9.54e-04 -5.19e-03 -2.41e-04 -4.61e-03 -4.27e-03
## 90599  -1.37e-03 -6.07e-03  9.16e-03 -1.88e-02  1.54e-03 -1.98e-02  1.97e-02
## 116481 -1.89e-02 -2.52e-02  3.40e-02 -3.56e-02  1.91e-02 -1.01e-02  3.73e-02
## 76811  -1.02e-04 -1.89e-03  1.89e-03 -6.62e-04  8.98e-05  3.16e-03 -8.18e-04
## 12077  -3.10e-02 -1.93e-02  2.42e-02 -7.78e-03  3.10e-02 -3.79e-03  2.38e-02
## 176    -1.31e-02  2.91e-04 -6.27e-04  6.98e-03  1.30e-02  8.00e-03 -3.01e-03
## 6980   -2.06e-02  4.48e-03 -5.40e-03  5.18e-03  2.05e-02  1.13e-03 -6.46e-03
## 117138 -6.96e-04 -1.45e-03  1.38e-03 -9.45e-03  7.89e-04 -8.65e-03 -3.54e-03
## 60074   6.49e-03  3.34e-02 -4.41e-02  4.44e-02 -6.88e-03  4.12e-02  5.47e-03
## 114618 -1.17e-02 -3.23e-02  2.97e-02 -3.61e-02  1.20e-02 -2.73e-02  5.82e-03
## 118359 -2.06e-02 -2.72e-02  3.20e-02 -4.80e-02  2.10e-02 -3.72e-02 -4.56e-02
## 76596   4.44e-03 -2.45e-02  2.28e-02  2.33e-03 -4.39e-03  8.39e-03 -6.53e-03
## 49912  -1.06e-02 -3.16e-03  6.20e-03 -2.74e-02  1.08e-02 -3.11e-02  1.29e-02
## 48415   4.71e-03  4.52e-03 -4.91e-03  9.73e-03 -4.76e-03  4.06e-03 -7.36e-03
## 34280  -5.94e-03 -1.51e-02  1.53e-02  9.90e-04  5.92e-03  1.36e-03  1.15e-02
## 99941   7.82e-04  5.45e-04 -2.09e-04  2.00e-03 -8.03e-04  2.67e-03 -6.95e-04
## 109625 -7.03e-04  3.13e-02 -2.81e-02  1.33e-02  6.22e-04 -1.85e-03  7.43e-03
## 79744   2.40e-03  7.96e-04 -1.10e-03 -1.08e-03 -2.38e-03 -2.85e-03  9.14e-03
## 80501   1.33e-03 -2.31e-04 -1.20e-04  1.54e-03 -1.34e-03  2.00e-03 -2.82e-03
## 1954   -2.67e-02  1.91e-02 -2.05e-02  1.23e-02  2.66e-02 -1.58e-03 -1.24e-02
## 86304  -2.10e-05 -2.36e-03  2.26e-03 -2.77e-03  3.99e-05 -8.98e-04  4.77e-03
## 25030   7.78e-04 -4.22e-04  3.71e-04  1.27e-03 -7.87e-04  1.81e-03 -1.03e-03
## 5591    7.23e-02 -4.13e-03  2.90e-03 -7.10e-03 -7.21e-02 -7.41e-03 -5.12e-02
## 29288   3.22e-04 -6.91e-04  4.54e-04 -3.08e-03 -2.91e-04 -2.98e-03 -2.70e-03
## 45347   5.59e-04 -1.42e-03  1.22e-03 -2.46e-04 -5.57e-04  5.73e-04  2.43e-03
## 128870  7.34e-03  6.63e-05 -2.57e-05 -4.45e-03 -7.29e-03 -4.53e-03 -3.04e-03
## 128006  1.08e-02  2.68e-04 -9.71e-04  5.60e-03 -1.08e-02  5.92e-03  8.59e-03
## 23062  -1.57e-02  2.59e-03 -5.08e-03 -3.37e-02  1.59e-02 -2.89e-02 -3.86e-02
## 86712  -4.69e-03  1.27e-02 -2.04e-02 -3.19e-04  4.66e-03 -2.34e-03  7.31e-03
## 113314 -1.52e-02 -6.09e-03  5.43e-03 -4.95e-02  1.56e-02 -4.80e-02  6.14e-03
## 34036   1.45e-03 -3.14e-05  8.54e-04  2.18e-03 -1.47e-03  2.83e-03 -2.01e-03
## 93097  -2.01e-03 -4.03e-02  3.99e-02  3.37e-02  1.74e-03  4.09e-02 -4.96e-02
## 129508  5.08e-03  1.57e-03 -9.59e-04  2.68e-03 -5.10e-03  3.49e-03 -8.03e-04
## 94719   1.41e-03  1.24e-03 -3.30e-04  4.88e-03 -1.46e-03  7.35e-03 -6.91e-04
## 119958  2.60e-04 -1.59e-03  1.89e-03 -7.12e-03 -1.97e-04 -5.14e-03  1.36e-02
## 35914  -1.96e-04 -1.79e-03  1.07e-03 -4.44e-03  2.26e-04 -3.38e-03 -2.83e-03
## 89085  -6.05e-04  2.66e-03 -3.62e-03 -6.61e-03  6.63e-04 -7.62e-03 -4.60e-03
## 74798   6.32e-03  2.10e-02 -1.96e-02  1.81e-02 -6.47e-03  1.21e-02 -4.35e-03
## 44114   1.73e-03  1.42e-02 -9.70e-03  4.17e-02 -2.11e-03  3.74e-02  2.15e-02
## 94071  -1.08e-02  2.11e-02 -3.18e-02 -3.16e-03  1.08e-02 -7.77e-03 -5.67e-02
## 86245  -2.10e-03 -2.31e-02  2.64e-02 -1.81e-02  2.31e-03 -2.72e-02 -3.69e-03
## 97174  -6.15e-04 -1.87e-03  3.46e-03 -7.52e-03  6.68e-04 -7.50e-03 -2.76e-03
## 70565  -7.79e-03  1.17e-02 -1.21e-02 -7.18e-03  7.74e-03  1.66e-03  1.13e-02
## 15670   4.69e-03  4.50e-03 -4.63e-03  1.16e-02 -4.76e-03  9.22e-03 -5.51e-03
## 78249   4.24e-03  1.22e-02 -1.17e-02  4.05e-02 -4.53e-03  2.88e-02 -5.81e-02
## 113311  4.30e-03  5.70e-04 -5.43e-04  1.05e-02 -4.37e-03  8.96e-03 -4.89e-03
## 65179  -4.86e-03  3.44e-02 -4.85e-02  1.02e-02  4.82e-03 -1.55e-03 -6.18e-02
## 58540  -6.95e-05 -3.51e-03  3.22e-03 -4.23e-03  1.09e-04 -1.79e-03 -2.03e-03
## 31852   1.06e-03 -6.51e-04  6.22e-04  1.93e-03 -1.08e-03  2.92e-03  3.53e-03
## 101845 -6.56e-05 -1.00e-03  1.20e-03 -6.10e-03  1.17e-04 -5.33e-03  7.06e-03
## 61139  -9.23e-03 -2.58e-02  2.94e-02 -1.74e-02  9.33e-03  7.94e-04  1.92e-02
## 59620   8.30e-04  3.39e-03 -4.28e-03 -1.44e-03 -8.11e-04 -2.89e-03 -4.91e-03
## 101751  1.32e-02  1.65e-02 -1.78e-02  3.56e-02 -1.35e-02  2.55e-02  1.67e-02
## 37373   1.02e-03 -1.92e-02  1.82e-02 -8.45e-03 -9.13e-04 -5.78e-04 -4.22e-03
## 53809   4.28e-04  2.87e-04 -3.40e-04 -1.93e-03 -4.26e-04 -2.36e-03 -3.57e-03
## 66051   4.15e-04  5.89e-03 -5.52e-03 -1.34e-02 -2.67e-04 -1.72e-02 -6.40e-03
## 115489  1.84e-03  2.40e-03 -3.06e-03  6.22e-04 -1.83e-03 -1.43e-03 -5.15e-03
## 57972  -2.85e-04  5.06e-04 -1.13e-03 -8.57e-03  3.69e-04 -1.03e-02 -5.09e-03
## 97718   2.23e-04 -3.80e-05  2.10e-05  4.78e-04 -2.27e-04  6.36e-04 -3.40e-04
## 38729  -4.84e-03  1.10e-04 -6.52e-04 -6.09e-03  4.87e-03 -1.20e-03  6.87e-03
```

```
## 82935   2.49e-03  4.59e-03 -5.14e-03 -2.50e-03 -2.46e-03 -7.32e-03  1.58e-02
## 524    -1.24e-02  5.53e-03 -5.97e-03  1.89e-02  1.22e-02  1.34e-02 -7.68e-03
## 129381 -5.20e-02 -1.27e-02  1.64e-02 -2.36e-02  5.20e-02 -1.18e-02  2.29e-02
## 120363  1.35e-03 -1.71e-03  1.63e-03  3.64e-03 -1.38e-03  6.87e-03 -1.35e-03
## 107168  2.88e-03  8.21e-04 -1.68e-03  7.41e-03 -2.94e-03  8.46e-03 -3.63e-03
## 41876   1.44e-03  7.42e-05 -3.98e-05  1.71e-03 -1.45e-03  2.15e-03 -2.59e-03
## 69679   1.96e-04 -1.19e-02  1.25e-02  2.10e-02 -4.33e-04  3.43e-02  1.45e-02
## 45146   3.43e-04 -1.94e-04  3.03e-04 -8.28e-05 -3.43e-04  6.75e-04 -8.22e-04
## 123089  5.57e-04  1.21e-03 -1.51e-03 -5.31e-03 -5.01e-04 -7.28e-03 -4.90e-03
## 107372 -1.83e-03 -1.61e-03  1.69e-03 -1.11e-02  1.92e-03 -9.04e-03 -2.42e-03
## 120407  5.70e-03  1.58e-02 -1.76e-02  6.39e-03 -5.70e-03 -3.00e-03  1.66e-02
## 69274   2.25e-03  1.47e-03 -1.57e-03  2.25e-03 -2.25e-03  5.99e-04 -4.78e-03
## 111976  2.11e-03  2.19e-04 -8.87e-04  3.70e-03 -2.13e-03  3.37e-03 -3.34e-03
## 120824  2.06e-03  6.90e-04  2.52e-04  8.13e-03 -2.14e-03  1.15e-02 -2.90e-04
## 120379 -1.38e-02 -2.23e-03  2.78e-03 -3.89e-02  1.41e-02 -2.94e-02  1.61e-02
## 20876   6.43e-03  1.87e-02 -2.04e-02  1.33e-02 -6.49e-03 -1.38e-03 -1.14e-02
## 69542  -1.12e-03 -7.49e-03  1.18e-02 -7.08e-03  1.15e-03 -3.96e-03 -1.89e-04
## 71884   3.62e-04  1.60e-03 -1.09e-03 -1.42e-02 -2.19e-04 -1.36e-02  1.55e-02
## 42772   8.70e-03  2.73e-02 -2.41e-02  2.26e-02 -8.89e-03  1.59e-02  2.65e-02
## 15578  -3.46e-03 -1.96e-03  6.44e-04  2.79e-04  3.45e-03  2.56e-03  1.03e-02
## 3385   -6.90e-03 -8.01e-04  5.13e-04 -3.51e-04  6.88e-03  3.04e-04 -1.72e-03
## 89335  -7.58e-04 -1.42e-03  1.26e-03 -8.87e-03  8.35e-04 -7.87e-03 -3.42e-03
## 67272  -3.16e-04 -4.14e-03  3.75e-03 -4.72e-03  3.51e-04 -1.64e-03 -1.86e-03
## 69627   2.87e-03 -1.49e-02  1.18e-02  3.11e-02 -3.19e-03  4.63e-02  8.83e-03
## 67879   3.16e-03  1.04e-03 -1.50e-03  6.11e-03 -3.19e-03  6.17e-03 -4.23e-03
## 107731  2.09e-03 -2.32e-02  2.13e-02 -1.43e-03 -2.06e-03  7.50e-03 -4.29e-03
## 73418   3.88e-03  9.16e-03 -8.05e-03  3.21e-02 -4.22e-03  3.90e-02  9.52e-03
## 116728  9.00e-04 -6.16e-03  5.62e-03 -1.72e-03 -8.98e-04  4.16e-03 -1.80e-03
## 29210   2.11e-03  1.01e-04 -6.91e-04  1.31e-03 -2.10e-03  1.38e-03 -4.37e-03
## 99361   1.42e-03 -1.58e-04  4.58e-05  1.98e-03 -1.44e-03  2.55e-03 -2.64e-03
## 20516  -8.49e-04  5.67e-03 -8.99e-03  1.90e-02  6.45e-04  2.70e-02  1.35e-02
## 93510   9.83e-05 -2.63e-04  1.63e-04 -1.85e-03 -8.51e-05 -1.03e-03 -1.64e-03
## 53528   2.71e-03 -8.12e-03  6.89e-03 -1.27e-02 -2.53e-03 -1.82e-02 -1.17e-02
## 102440  3.97e-03  7.39e-03 -8.82e-03  9.07e-03 -4.02e-03  5.68e-03 -6.33e-03
## 52761  -4.84e-03 -3.15e-02  3.52e-02 -1.16e-03  4.80e-03  2.38e-02  1.94e-02
## 98556  -1.29e-02  3.44e-03 -5.39e-03 -2.40e-02  1.32e-02 -3.30e-02 -6.02e-02
## 125302 -4.85e-02 -1.25e-02  1.78e-02  6.20e-03  4.83e-02  1.93e-02  2.50e-02
## 69063   1.74e-03 -1.41e-04  6.59e-04  4.69e-03 -1.79e-03  6.09e-03 -1.77e-03
## 106885  1.55e-03  2.25e-02 -2.21e-02 -1.29e-03 -1.53e-03 -7.13e-03 -4.79e-03
## 111797  2.75e-03  4.19e-04 -9.67e-04  6.06e-03 -2.79e-03  6.84e-03 -3.88e-03
## 84297   1.74e-03  1.28e-02 -1.34e-02  3.24e-04 -1.75e-03 -1.95e-03 -4.83e-03
## 122740  1.24e-03 -1.01e-03  2.95e-03  2.50e-03 -1.27e-03  3.97e-03 -1.01e-03
## 129021  1.54e-02  8.17e-03 -9.99e-03 -8.72e-03 -1.52e-02 -1.68e-02  1.12e-02
## 27582   3.32e-03  4.37e-03 -4.81e-03  4.33e-03 -3.32e-03  1.32e-03 -6.19e-03
## 12148  -3.48e-02 -6.92e-03  7.24e-03  2.12e-02  3.45e-02  2.50e-02 -3.50e-03
## 5726   -1.90e-02  3.70e-03 -4.39e-03 -3.34e-04  1.89e-02 -4.70e-03 -6.77e-03
## 43123  -1.86e-03  1.36e-03 -1.75e-03 -1.37e-02  1.99e-03 -1.49e-02 -4.71e-03
## 48158   2.47e-04 -1.87e-03  1.50e-03 -2.97e-03 -2.39e-04 -3.47e-04  1.21e-02
## 5838   -6.95e-03 -7.68e-04  5.08e-04 -7.79e-04  6.94e-03 -6.71e-05  4.42e-03
## 126070  8.89e-03 -2.51e-03  2.02e-03 -6.50e-03 -8.83e-03 -4.73e-03  1.15e-02
## 37670  -2.76e-04 -2.23e-04  5.86e-04 -5.98e-03  3.30e-04 -4.99e-03 -3.03e-03
## 112431  1.50e-03  3.69e-03 -5.06e-03  1.18e-03 -1.50e-03 -5.10e-04 -5.56e-03
## 22330  -4.45e-04 -1.01e-03  1.99e-03 -7.30e-03  5.05e-04 -7.70e-03 -3.40e-03
## 1465   -1.37e-02  2.88e-02 -2.70e-02  4.24e-03  1.37e-02 -2.46e-03 -2.36e-03
## 109904  2.76e-03  4.58e-03 -5.98e-03  6.71e-03 -2.81e-03  4.67e-03 -5.14e-03
## 94666   1.11e-03  1.68e-03 -2.27e-03  6.06e-04 -1.13e-03 -3.92e-04 -4.08e-03
## 42041   1.50e-03  2.30e-03 -3.35e-03 -1.30e-03 -1.47e-03 -3.61e-03 -5.57e-03
## 101474 -4.75e-04  6.20e-04 -1.25e-03 -6.43e-03  5.19e-04 -7.35e-03 -4.22e-03
## 118808  1.73e-02 -2.33e-02  2.09e-02  4.34e-02 -1.75e-02  3.68e-02 -1.45e-02
## 41667  -1.89e-04 -1.31e-03  7.91e-04 -2.08e-03  1.83e-04 -1.91e-04 -2.09e-03
## 114848  2.56e-03 -9.50e-04 -4.15e-04  6.65e-04 -2.54e-03 -1.58e-03 -7.79e-03
## 53803  -9.31e-05  1.69e-03 -3.13e-03  2.61e-02 -1.06e-04  2.18e-02  1.81e-02
## 79169  -2.28e-03  2.11e-02 -1.98e-02  2.22e-02  1.99e-03  2.62e-02  1.35e-02
## 25096   2.14e-03 -6.33e-04 -6.39e-04  3.67e-04 -2.15e-03 -6.66e-04  7.03e-03
## 36259   4.50e-03  3.12e-02 -3.02e-02  1.01e-02 -4.57e-03  2.85e-03 -5.12e-03
## 67874   3.07e-03  7.75e-04 -1.23e-03  5.81e-03 -3.10e-03  5.88e-03 -4.28e-03
## 74641   2.07e-03 -9.06e-04  1.21e-03  4.53e-03 -2.13e-03  6.85e-03  1.23e-02
## 58106   1.36e-03 -3.30e-04 -9.59e-05  1.75e-03 -1.37e-03  2.28e-03 -2.87e-03
## 69983  -2.39e-03  1.13e-02 -1.61e-02  2.61e-02  2.16e-03  2.49e-02 -4.97e-02
## 28623  -1.37e-03 -4.12e-03  7.56e-03 -7.24e-03  1.41e-03 -4.94e-03 -2.52e-04
## 39798   4.83e-03 -9.34e-03  8.89e-03  9.11e-03 -4.88e-03  1.47e-02 -3.51e-03
## 60494   1.46e-03  1.80e-05  1.47e-04  1.71e-03 -1.47e-03  2.07e-03 -2.55e-03
## 122449  1.15e-03  4.54e-03 -5.22e-03 -4.29e-03 -1.09e-03 -9.65e-03 -7.29e-03
## 105979  3.11e-03  3.31e-03 -4.09e-03  6.49e-03 -3.16e-03  4.29e-03 -5.10e-03
## 101382  4.92e-04  1.82e-02 -1.47e-02  4.44e-02 -8.44e-04  3.54e-02 -5.50e-02
## 91115   2.47e-04 -2.67e-04  4.99e-04 -1.78e-03 -2.43e-04 -6.58e-04 -1.98e-03
## 54206   1.13e-03 -4.28e-03  4.13e-03 -4.76e-03 -1.07e-03 -1.54e-03 -3.20e-03
## 16348   9.12e-03 -1.15e-02  1.33e-02  2.13e-02 -9.22e-03  1.55e-02 -9.13e-03
## 56760  -1.30e-03 -5.16e-03  5.64e-03 -1.28e-02  1.44e-03 -1.39e-02 -3.26e-03
## 76190  -5.65e-03 -6.90e-03  7.14e-03 -5.09e-03  5.66e-03 -8.08e-03  7.39e-03
## 98374   1.11e-03  2.99e-03 -3.78e-03 -6.93e-03 -1.04e-03 -8.46e-03  1.73e-02
## 40809   8.70e-04 -1.20e-03  8.25e-04 -1.87e-03 -8.56e-04 -1.39e-03  5.30e-03
## 19230   1.55e-03 -7.71e-05 -3.27e-04  2.37e-03 -1.57e-03  2.80e-03 -2.89e-03
## 68267   4.36e-03  4.01e-02 -3.82e-02  5.38e-02 -4.85e-03  3.24e-02  1.16e-02
## 46236  -1.35e-03  3.19e-03 -4.17e-03 -6.95e-03  1.40e-03 -7.33e-03 -3.37e-03
## 91426   8.32e-04 -5.84e-04  1.61e-04 -1.29e-03 -8.11e-04 -1.10e-03 -2.94e-03
## 60983   3.42e-04  1.87e-05  2.29e-04  7.06e-06 -3.49e-04  1.16e-03 -7.67e-04
## 38315  -1.87e-03  2.04e-02 -1.91e-02  8.23e-03  1.74e-03  2.44e-03  6.46e-03
## 84892   7.24e-04 -5.37e-04  4.89e-04  1.31e-03 -7.37e-04  2.25e-03 -1.05e-03
## 26598  -3.49e-03  5.99e-03 -9.20e-03 -4.32e-03  3.57e-03 -6.65e-03  8.68e-03
## 23361   8.55e-04 -1.28e-03  8.46e-04 -2.14e-03 -8.33e-04 -1.58e-03  5.31e-03
## 27231  -6.34e-03 -8.81e-03  9.36e-03 -1.15e-02  6.42e-03 -7.04e-03  1.15e-02
## 11120   9.65e-02  1.70e-02 -1.72e-02  6.71e-03 -9.63e-02 -1.02e-02  2.30e-02
## 77638   3.86e-04 -8.33e-04  1.10e-03 -4.05e-03 -3.54e-04 -2.95e-03  8.27e-03
## 60967   5.85e-04 -1.04e-03  8.48e-04  2.89e-04 -5.88e-04  9.49e-04  2.04e-03
## 118699  8.35e-04 -1.06e-03  7.98e-04  1.21e-03 -8.43e-04  1.92e-03 -1.27e-03
## 58321  -1.02e-02  1.72e-02 -1.41e-02 -1.68e-02  1.04e-02 -3.35e-02  1.51e-02
## 45287   4.21e-04 -1.59e-03  1.24e-03 -1.52e-04 -4.21e-04  8.74e-04 -1.26e-03
```

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## 51312  -3.26e-04 -1.18e-03  8.08e-04 -5.04e-03  3.66e-04 -4.53e-03 -2.67e-03
## 105368  2.04e-03  2.10e-03 -2.65e-03 -1.94e-03 -2.01e-03 -3.69e-03  1.02e-02
## 78335   1.94e-03 -7.77e-05 -7.15e-04  2.87e-03 -1.96e-03  3.88e-03 -3.81e-03
## 46290   2.64e-03 -2.06e-03  2.48e-03 -1.09e-03 -2.64e-03  1.65e-03  2.88e-02
## 94551  -3.46e-04 -9.04e-04  9.05e-04 -5.81e-03  3.93e-04 -4.23e-03 -2.78e-03
## 73359  -3.10e-03 -1.74e-02  1.67e-02 -2.55e-02  3.36e-03 -2.07e-02 -4.58e-03
## 38257  -4.10e-03 -2.89e-03  2.87e-03 -2.65e-03  4.11e-03  5.86e-03  1.36e-02
## 30543   1.22e-03 -9.27e-03  8.48e-03 -5.14e-03 -1.16e-03 -7.44e-04 -4.31e-03
## 102039  2.49e-03  2.12e-02 -2.18e-02  4.15e-03 -2.53e-03 -2.07e-03 -5.59e-03
## 66143   2.37e-03 -2.33e-04 -3.18e-04  4.01e-03 -2.41e-03  4.91e-03  8.07e-03
## 83233   3.51e-04 -2.79e-04  2.52e-04  2.67e-04 -3.51e-04  5.79e-04 -6.57e-04
## 123757  1.23e-02  3.32e-04 -8.19e-04 -1.03e-02 -1.23e-02 -9.97e-03  1.83e-02
## 114460  1.43e-03 -2.64e-04 -2.18e-05  1.24e-03 -1.44e-03  2.48e-03 -3.35e-03
## 103981 -1.98e-03 -1.77e-03  1.77e-03 -1.14e-02  2.06e-03 -9.12e-03 -2.21e-03
## 9092    6.11e-02 -3.72e-02  3.08e-02 -2.19e-02 -6.08e-02 -1.12e-02 -4.81e-02
## 77966  -1.94e-03 -7.71e-04  1.67e-03 -1.19e-02  2.02e-03 -1.20e-02 -2.85e-03
## 55937   1.39e-03  4.52e-04 -8.17e-04 -7.25e-03 -1.30e-03 -8.67e-03 -6.41e-03
## 24185   4.34e-03 -3.52e-04  4.12e-04  7.14e-03 -4.39e-03  5.99e-03  1.04e-02
## 125223  9.23e-03 -6.79e-04  2.48e-04 -2.42e-03 -9.19e-03 -1.66e-03 -2.98e-03
## 53785  -1.37e-02 -2.89e-02  3.19e-02 -4.50e-02  1.41e-02 -2.92e-02  1.39e-02
## 117988 -7.03e-03  3.27e-02 -2.96e-02 -3.99e-03  7.04e-03 -1.74e-02  1.05e-02
## 116965 -3.15e-03 -1.48e-02  1.37e-02  2.13e-03  3.11e-03  7.98e-05  5.20e-03
## 81767   2.69e-03  2.20e-03 -2.30e-03  2.72e-03 -2.69e-03  3.66e-04 -5.11e-03
## 1262   -2.31e-02 -2.09e-02  1.89e-02  6.88e-03  2.30e-02  1.08e-02 -8.87e-03
## 71062   1.62e-03  7.50e-03 -4.83e-03  2.24e-02 -1.80e-03  1.52e-02  1.19e-02
## 21742   1.35e-03 -1.86e-04  6.87e-05  2.46e-03 -1.37e-03  3.41e-03 -2.44e-03
## 104481 -1.73e-02  2.36e-02 -2.32e-02 -5.07e-02  1.76e-02 -4.70e-02  1.08e-02
## 80837   1.74e-04 -1.02e-04  4.88e-04 -2.10e-03 -1.65e-04 -9.61e-04 -1.84e-03
## 103788 -2.00e-02  1.37e-02 -1.28e-02 -3.32e-02  2.03e-02 -4.96e-02 -6.08e-02
## 71885  -8.11e-03  1.39e-02 -1.22e-02 -1.62e-02  8.25e-03 -3.43e-02  1.09e-02
## 46300   3.12e-03  1.63e-03 -2.53e-03  3.70e-03 -3.12e-03  1.25e-03 -6.90e-03
## 63462  -3.12e-05 -4.60e-04  3.61e-04  2.24e-04  3.03e-05  2.17e-04  2.26e-04
## 125862  3.79e-03 -1.24e-03  9.94e-04 -1.28e-03 -3.77e-03 -2.17e-04 -1.44e-03
## 60098   1.72e-03 -8.33e-03  7.68e-03 -1.09e-03 -1.71e-03  3.87e-03 -3.06e-03
## 60961   6.90e-03  1.51e-02 -1.68e-02  1.61e-02 -7.01e-03  8.34e-03  1.45e-02
## 25314   3.88e-04 -6.52e-04  1.18e-03 -5.90e-03 -3.31e-04 -7.25e-03 -4.41e-03
## 86101  -1.67e-03  2.06e-03 -2.77e-03  1.54e-03  1.61e-03  3.71e-03  3.86e-03
## 16236  -3.29e-03 -1.88e-03 -9.10e-04  1.27e-03  3.23e-03  1.09e-02  6.25e-03
## 67256  -5.04e-05  7.01e-04  2.69e-04 -5.24e-03  9.74e-05 -4.47e-03 -2.62e-03
## 93344  -3.94e-03  1.26e-02 -1.12e-02 -3.20e-02  4.26e-03 -4.13e-02 -6.65e-03
## 73954  -1.10e-03 -1.84e-03  1.46e-03 -7.34e-03  1.15e-03 -5.83e-03 -2.24e-03
## 35444   4.84e-04  2.25e-04  5.94e-06  9.62e-04 -5.01e-04  2.09e-03 -7.47e-04
## 12797  -5.79e-03 -7.60e-04  5.17e-04 -1.92e-03  5.80e-03 -1.57e-03 -1.60e-03
## 11486  -1.76e-02  4.78e-03 -5.52e-03  7.05e-03  1.76e-02  4.50e-03 -5.71e-03
## 90445   9.93e-04 -5.09e-04  4.46e-04  2.34e-03 -1.02e-03  3.36e-03 -1.12e-03
## 28891   9.11e-04 -1.25e-03  8.69e-04 -2.28e-03 -8.87e-04 -1.69e-03  5.89e-03
## 31731   5.84e-04 -1.30e-03  1.24e-03 -3.08e-03 -5.69e-04 -1.63e-03  9.60e-03
## 94660  -5.59e-04 -2.04e-02  2.54e-02  3.06e-02  2.87e-04  4.62e-02 -4.10e-02
## 97621   6.04e-04 -6.39e-04  4.25e-04  1.17e-03 -6.13e-04  1.70e-03 -9.31e-04
## 79866  -7.98e-03 -1.13e-02  1.06e-02 -3.91e-02  8.30e-03 -4.37e-02 -4.77e-03
## 23817   2.65e-03  3.08e-04 -2.05e-05  6.04e-03 -2.69e-03  7.17e-03 -3.13e-03
## 74617   4.97e-03  2.71e-03 -2.66e-03  7.43e-03 -5.00e-03  7.00e-03 -5.30e-03
## 122281  2.18e-03  2.04e-04 -7.44e-04  4.08e-03 -2.20e-03  3.92e-03 -3.26e-03
## 53731   6.13e-04  1.54e-04 -2.02e-05  1.18e-03 -6.26e-04  1.76e-03 -8.14e-04
## 39801  -8.07e-03 -8.49e-03  1.04e-02 -2.57e-03  8.03e-03  6.11e-03  2.13e-02
## 42278   1.07e-02 -3.61e-03  3.59e-03  2.60e-02 -1.08e-02  2.14e-02 -9.29e-03
## 82856   1.99e-03  2.84e-03 -4.07e-03 -5.57e-04 -1.99e-03 -2.03e-03  1.27e-02
## 68598   3.84e-03  1.94e-02 -1.88e-02  6.83e-03 -3.89e-03  6.72e-04 -5.55e-03
## 112815 -1.96e-03 -4.16e-03  2.96e-03 -1.14e-02  2.05e-03 -8.63e-03 -3.16e-03
## 97952   6.56e-04 -4.60e-04  2.96e-04 -1.42e-03 -6.44e-04 -9.01e-04 -2.65e-03
## 72571   4.68e-04 -4.53e-04  3.33e-04 -2.70e-03 -4.41e-04 -2.68e-03 -2.72e-03
## 28767   2.39e-04  1.04e-03 -1.13e-03 -2.81e-03 -2.27e-04 -3.46e-03 -3.50e-03
## 68497   5.70e-03 -2.62e-02  2.37e-02 -1.34e-03 -5.59e-03 -1.36e-03 -1.15e-02
## 21019  -6.81e-03  1.53e-02 -1.47e-02 -4.31e-03  6.72e-03  2.51e-03  1.06e-02
## 52670   1.49e-03 -1.28e-03  1.14e-03 -2.97e-03 -1.45e-03 -1.58e-03  1.19e-02
## 69288  -8.58e-05 -2.06e-03  2.06e-03 -3.88e-03  1.17e-04 -1.71e-03 -1.76e-03
## 68427   4.49e-04 -8.19e-04  7.73e-04 -8.78e-05 -4.50e-04  8.59e-04 -1.06e-03
## 94691  -1.82e-03 -5.38e-03  7.45e-03  1.84e-02  1.67e-03  2.08e-02 -4.80e-02
## 107134  1.12e-03 -9.86e-03  9.15e-03 -2.66e-03 -1.10e-03  3.60e-03 -2.48e-03
## 17025  -7.54e-03 -2.58e-03  5.07e-03  9.41e-03  7.37e-03  1.92e-02  2.77e-02
## 58225   4.92e-05 -1.61e-02  1.49e-02 -8.16e-03  1.77e-05 -6.17e-04 -3.12e-03
## 60674   2.19e-03  2.80e-02 -2.54e-02 -7.73e-03 -2.10e-03 -1.63e-02  2.20e-02
## 96126   1.04e-04 -1.19e-03  1.04e-03 -1.37e-03 -9.19e-05 -6.93e-04 -9.72e-04
## 22344  -1.32e-02 -5.10e-02  4.90e-02 -2.30e-02  1.33e-02 -1.89e-02  1.29e-02
## 35068   1.31e-03  4.51e-04  6.66e-04  9.64e-04 -1.31e-03  2.24e-03 -2.28e-03
## 86517   2.06e-03 -7.23e-04  1.03e-03  2.97e-03 -2.09e-03  3.75e-03  6.90e-03
## 81539   9.06e-04 -1.41e-03  3.92e-04 -2.03e-03 -8.84e-04 -1.04e-03 -4.10e-03
## 87400  -2.04e-03 -1.24e-03  2.84e-03 -1.23e-02  2.12e-03 -1.22e-02 -2.38e-03
## 109978 -6.70e-03 -8.08e-03  1.12e-02  7.26e-03  6.64e-03  1.23e-02 -4.85e-02
## 94667   3.12e-04 -5.96e-04  6.38e-04 -2.26e-04 -3.11e-04  8.23e-04 -8.86e-04
## 30211  -2.38e-04 -1.86e-02  1.66e-02 -1.42e-02  3.71e-04 -8.65e-03 -6.25e-03
## 52642  -2.52e-03 -2.51e-04  6.28e-04 -3.18e-02  2.86e-03 -4.27e-02 -1.13e-02
## 83584   6.51e-04  7.54e-04 -7.26e-04 -2.08e-03 -6.33e-04 -2.82e-03 -3.87e-03
## 99603  -7.98e-03 -2.43e-02  2.74e-02  1.90e-03  7.84e-03  2.35e-02  2.50e-02
## 72996   2.30e-03 -1.72e-02  9.17e-03  2.27e-02 -2.42e-03  1.23e-02  3.63e-03
## 18489  -6.32e-05 -6.59e-03  8.77e-03  1.89e-02 -1.23e-04  2.44e-02  1.46e-02
## 14533  -4.93e-03  2.33e-03 -4.17e-03  2.84e-02  4.65e-03  3.30e-02 -4.84e-02
## 122006  3.74e-03  6.37e-06 -9.31e-04  6.76e-03 -3.79e-03  7.87e-03  1.25e-02
## 26327   8.31e-04  1.71e-03 -2.61e-03 -4.48e-03 -7.74e-04 -6.76e-03 -5.49e-03
## 3514    8.69e-02 -6.20e-04  1.18e-04  4.03e-02 -8.71e-02  4.06e-02  1.38e-02
## 59480   3.59e-03  4.86e-03 -6.16e-03  9.11e-03 -3.67e-03  6.55e-03 -5.35e-03
## 118501  2.92e-03 -1.09e-02  1.27e-02  3.47e-03 -2.91e-03 -1.50e-03 -6.98e-03
## 57670   1.31e-03 -2.08e-03  1.66e-03  2.50e-03 -1.33e-03  4.93e-03 -2.06e-03
## 127520 -3.95e-02 -1.07e-02  1.26e-02 -5.94e-03  3.94e-02 -1.26e-03  1.04e-02
## 130179  8.36e-03 -2.23e-03  2.34e-03 -3.47e-03 -8.31e-03 -3.12e-04 -1.50e-03
## 9252   -3.13e-03 -4.96e-04  3.34e-04 -1.42e-03  3.14e-03 -1.37e-03 -1.10e-03
## 88933  -2.11e-03  4.69e-04  1.82e-04 -8.57e-03  2.15e-03 -7.58e-03 -1.62e-03
## 8833    5.78e-02 -3.84e-02  4.12e-02 -3.95e-02 -5.74e-02 -2.09e-02 -3.97e-02
```

```
## 103180  2.08e-03 -2.67e-05 -8.75e-04  4.44e-03 -2.11e-03  4.66e-03 -3.37e-03
## 118741  3.14e-03  1.31e-02 -1.22e-02  2.22e-03 -3.14e-03 -2.20e-03 -4.95e-03
## 52580  -8.09e-03 -2.34e-04  3.02e-03 -1.09e-02  8.13e-03 -1.46e-02  1.58e-02
## 83836   6.07e-04 -2.72e-03  1.83e-03 -3.09e-04 -6.10e-04 -5.08e-04 -3.13e-03
## 88432  -3.97e-07  1.14e-03 -1.57e-03 -8.46e-03  9.18e-05 -1.07e-02 -5.14e-03
## 74440   1.36e-03 -2.17e-04  2.78e-04  1.66e-03 -1.38e-03  2.09e-03 -2.60e-03
## 6102   -2.28e-02  1.11e-02 -1.24e-02  1.03e-03  2.28e-02 -5.46e-03  1.29e-02
## 72007   5.89e-04 -1.87e-03  1.28e-03 -2.29e-03 -5.82e-04 -4.50e-04  9.39e-03
## 130365  9.39e-03  1.70e-03 -3.91e-05 -5.86e-04 -9.38e-03  4.47e-04 -1.11e-03
## 33344   1.01e-02 -2.72e-02  2.15e-02  3.11e-03 -1.00e-02 -2.51e-03  1.49e-02
## 48500   3.56e-03 -2.03e-03  9.13e-04  4.27e-02 -3.96e-03  4.80e-02  1.74e-02
## 15205   1.86e-03  2.01e-03 -7.43e-04  5.55e-03 -1.91e-03  6.77e-03 -9.30e-04
## 84907  -1.57e-05  1.25e-03  5.34e-04 -2.19e-03  1.95e-05 -1.27e-03 -8.73e-04
## 60121  -7.68e-04 -1.20e-03  2.82e-03 -8.59e-03  8.42e-04 -8.57e-03 -3.25e-03
## 28342  -3.50e-03  5.23e-02 -6.11e-02  5.03e-04  3.51e-03 -8.61e-03  5.28e-03
## 129396  1.77e-02 -1.92e-02  1.80e-02 -9.90e-03 -1.75e-02 -4.05e-03 -5.19e-03
## 67246   2.32e-04  3.06e-03 -3.54e-03 -7.53e-03 -1.71e-04 -6.86e-03 -4.19e-03
## 52309   2.55e-03  3.66e-02 -3.39e-02  2.26e-02 -2.72e-03  1.13e-02  4.95e-03
## 118183  6.74e-03  4.27e-02 -3.84e-02  1.64e-02 -6.87e-03  5.61e-03  2.43e-02
## 112428 -7.83e-04 -5.21e-05  4.31e-04 -6.47e-03  8.34e-04 -5.79e-03 -1.96e-03
## 122904 -1.12e-02 -3.38e-03  1.05e-03 -3.15e-02  1.14e-02 -2.59e-02  5.29e-03
## 13356  -4.56e-03 -4.93e-04  3.37e-04 -9.92e-04  4.56e-03 -7.78e-04 -1.39e-03
## 66226  -5.88e-03 -3.11e-03  3.40e-03 -2.29e-03  5.85e-03  6.30e-03  1.21e-02
## 71747   2.56e-03  5.17e-04 -1.47e-03 -3.04e-03 -2.53e-03 -2.31e-03  1.29e-02
## 129404  1.15e-02 -2.84e-03  2.25e-03 -7.79e-03 -1.14e-02 -6.41e-03  1.31e-02
## 87443  -1.78e-03 -1.23e-03  2.78e-03 -9.10e-03  1.84e-03 -8.06e-03 -1.81e-03
## 10942  -1.43e-02  1.27e-02 -1.25e-02 -8.14e-04  1.43e-02 -3.80e-03 -3.99e-03
## 49790   1.17e-03 -2.81e-04  7.84e-04  3.50e-03 -1.21e-03  6.64e-03 -7.34e-04
## 90714   8.68e-04 -2.06e-03  1.73e-03  4.16e-04 -8.73e-04  1.83e-03  3.95e-03
## 110735  2.09e-03  1.27e-04 -4.58e-04  3.70e-03 -2.11e-03  3.54e-03 -3.11e-03
## 46152  -3.66e-03 -1.99e-02  2.07e-02  3.75e-03  3.53e-03  2.35e-02  1.53e-02
## 92747   2.11e-03 -5.22e-03  4.79e-03 -6.09e-03 -2.03e-03 -9.72e-03 -7.34e-03
## 125772  2.00e-02  9.09e-03 -1.03e-02  6.69e-03 -1.99e-02 -7.95e-04  1.43e-02
## 61022   2.09e-04  7.78e-04 -4.21e-04  5.87e-05 -2.16e-04  8.12e-04 -5.35e-04
## 55127  -4.89e-03 -3.79e-02  3.65e-02  2.18e-03  4.86e-03  7.78e-03  1.05e-02
## 115490  2.03e-03  2.76e-04  5.93e-04 -3.04e-04 -2.01e-03 -1.89e-03 -4.92e-03
## 73415   8.27e-04 -1.18e-03  1.23e-03  5.65e-04 -8.38e-04  2.17e-03  5.23e-03
## 98305   1.51e-03 -2.04e-03  2.10e-03  1.19e-03 -1.52e-03  4.00e-03  9.35e-03
## 110069  8.30e-04 -9.70e-04  7.43e-04  1.28e-03 -8.39e-04  2.04e-03 -1.24e-03
## 41933  -1.47e-04 -1.51e-03  1.03e-03 -5.55e-03  1.93e-04 -4.11e-03 -3.30e-03
## 124473 -5.17e-02  1.99e-02 -1.78e-02 -1.09e-02  5.17e-02 -2.46e-02  1.28e-02
## 16193   2.30e-03  6.88e-03 -7.94e-03 -2.42e-03 -2.24e-03 -9.52e-03 -8.43e-03
## 23765   3.56e-03  4.72e-03 -4.97e-03  2.91e-03 -3.56e-03  1.92e-03 -5.45e-03
## 434    -4.30e-03  3.15e-04 -5.41e-04  2.64e-03  4.27e-03  2.71e-03  2.97e-03
## 102628  1.62e-03  8.63e-04 -6.42e-04  1.04e-03 -1.62e-03 -2.59e-03 -5.94e-03
## 74514   1.91e-03  1.61e-04 -7.11e-04  3.39e-03 -1.93e-03  3.30e-03 -3.11e-03
## 53839   1.71e-03 -6.14e-04  8.70e-04  4.97e-03 -1.76e-03  7.77e-03 -1.24e-03
## 73274  -1.45e-03 -8.33e-04  1.01e-03 -9.34e-03  1.52e-03 -7.66e-03 -2.65e-03
## 23586   7.66e-04 -6.36e-05  3.21e-04 -2.84e-03 -7.33e-04 -2.69e-03 -3.65e-03
## 101926  1.79e-03 -8.72e-04  8.81e-04  4.82e-03 -1.83e-03  7.24e-03 -1.68e-03
## 39184   1.78e-03 -1.87e-04 -5.78e-04  2.70e-03 -1.80e-03  2.72e-03 -3.34e-03
## 102967  2.54e-03  3.53e-03 -5.19e-03 -1.53e-03 -2.52e-03 -3.78e-03  1.51e-02
## 100778  4.06e-03 -4.94e-03  5.05e-03  3.43e-03 -4.05e-03  6.79e-03 -4.08e-03
## 110256 -1.63e-02 -4.77e-02  5.28e-02 -3.49e-02  1.65e-02 -1.52e-03  2.72e-02
## 115324 -9.78e-03 -1.47e-03  1.86e-03 -5.92e-03  9.72e-03 -6.20e-03  1.88e-02
## 6399    6.45e-02 -1.49e-02  1.53e-02 -1.56e-02 -6.42e-02 -1.82e-03  1.84e-02
## 47507   6.88e-04  7.92e-03 -9.28e-03 -7.11e-03 -6.06e-04 -1.41e-02 -7.87e-03
## 17383   1.69e-04 -1.38e-02  1.27e-02 -6.24e-03 -1.29e-04  7.85e-04 -2.61e-03
## 66844  -9.13e-03 -8.56e-03  9.49e-03  5.17e-03  8.99e-03  1.21e-02 -4.43e-02
## 47366   1.63e-03  2.27e-03 -2.82e-03 -6.83e-04 -1.61e-03 -2.92e-03 -5.09e-03
## 67565   1.91e-03  1.52e-04 -2.62e-04  2.33e-03 -1.91e-03  3.19e-03 -3.53e-03
## 64997  -1.56e-03  1.12e-03 -2.46e-03 -1.06e-02  1.63e-03 -1.16e-02 -4.35e-03
## 125746  1.59e-02  1.25e-03 -1.48e-03 -1.34e-02 -1.58e-02 -1.21e-02  2.76e-02
## 111070  1.63e-02 -1.54e-02  1.52e-02  5.48e-02 -1.67e-02  5.52e-02 -5.33e-03
## 103780 -1.16e-02  7.20e-03 -4.05e-04 -8.14e-03  1.16e-02 -8.27e-03  3.08e-02
## 42697   3.83e-03 -1.83e-02  1.62e-02  4.04e-03 -3.84e-03  1.05e-02 -5.98e-03
## 9737    1.62e-03  4.85e-04 -4.67e-04  1.83e-04 -1.62e-03 -1.80e-04 -1.05e-03
## 86402  -2.99e-04 -1.59e-02  1.48e-02 -1.08e-02  4.00e-04 -4.08e-03 -3.64e-03
## 72972  -2.71e-04 -1.31e-03  9.75e-04 -5.61e-03  3.19e-04 -5.14e-03 -2.77e-03
## 89660   7.92e-04  1.73e-03 -2.60e-03 -3.95e-03 -7.44e-04 -5.98e-03 -5.28e-03
## 100826  5.53e-03 -6.83e-03  6.06e-03  1.50e-03 -5.52e-03  1.77e-03  2.01e-02
## 17755   6.78e-03  1.60e-02 -1.77e-02  1.58e-02 -6.86e-03  5.40e-03 -9.80e-03
## 43822   6.16e-04 -1.14e-03  1.27e-03 -3.30e-04 -6.14e-04  1.90e-03 -1.59e-03
## 113970  4.33e-03  2.42e-03 -2.54e-03  1.18e-02 -4.42e-03  1.02e-02 -4.50e-03
## 99701  -8.38e-04 -2.69e-03  4.55e-03 -5.82e-03  8.71e-04 -4.46e-03 -1.71e-03
## 120233  2.00e-03  4.39e-03 -5.65e-03 -1.21e-03 -1.96e-03 -4.61e-03 -6.68e-03
## 112447  4.49e-04  1.17e-03 -7.03e-04  9.40e-04 -4.61e-04  1.20e-03 -4.24e-04
## 121275  1.34e-02 -2.00e-02  1.78e-02  3.31e-02 -1.36e-02  3.17e-02 -1.10e-02
## 55679   1.79e-03  2.09e-02 -1.97e-02  3.97e-04 -1.79e-03 -2.48e-03 -2.74e-03
## 70401   9.32e-05 -1.49e-03  1.22e-03 -4.73e-03 -5.32e-05 -4.03e-03  5.24e-03
## 19244   2.29e-03  3.98e-04 -2.62e-04  3.71e-03 -2.31e-03  4.45e-03 -3.41e-03
## 105189  3.25e-03 -1.18e-02  1.56e-02  5.55e-03 -3.30e-03  1.01e-02  1.95e-02
## 98877  -3.04e-04 -1.88e-03  1.06e-03 -3.99e-03  3.24e-04 -2.59e-03 -2.69e-03
## 50517  -5.94e-03 -1.62e-03 -4.56e-03 -8.38e-03  6.06e-03 -1.47e-02  7.69e-03
## 39835   7.94e-03 -2.56e-02  2.38e-02  8.99e-03 -7.96e-03  1.49e-02  2.16e-02
## 6153   -1.29e-02  3.11e-04 -3.46e-04 -4.62e-03  1.29e-02 -5.50e-03 -3.55e-03
## 97297  -9.30e-04  1.90e-03 -5.08e-04 -5.97e-03  9.64e-04 -5.37e-03 -1.06e-03
## 18303   1.86e-03 -2.47e-03  1.93e-03  5.08e-03 -1.90e-03  8.24e-03 -1.88e-03
## 15222   5.81e-05 -9.02e-05  1.52e-04 -1.03e-03 -5.11e-05 -6.03e-04 -7.03e-04
## 91300   9.50e-04 -1.52e-03  1.06e-03 -1.82e-03 -9.43e-04 -4.42e-04  9.17e-03
## 124346  8.51e-03 -3.54e-03  3.50e-03 -3.67e-03 -8.47e-03 -9.85e-05  1.12e-02
## 19630  -6.83e-03 -9.83e-03  1.07e-02 -3.49e-03  6.79e-03  4.26e-03  1.60e-02
## 70799   3.71e-03 -4.34e-04 -2.56e-03  3.90e-02 -4.06e-03  3.54e-02  1.16e-02
## 27865   2.57e-04 -3.50e-03  4.60e-03 -1.78e-03 -2.66e-04 -6.91e-04 -2.62e-03
## 58563   2.74e-03 -8.18e-03  6.46e-03 -2.47e-04 -2.73e-03  2.57e-03 -6.21e-03
## 53207  -1.08e-02 -1.68e-02  1.93e-02 -1.38e-02  1.08e-02  4.08e-03  2.25e-02
## 51368  -4.69e-05  7.57e-04 -7.35e-04  2.93e-02 -2.25e-04  1.68e-02  1.04e-02
## 89916   3.79e-04 -2.82e-02  2.74e-02  3.18e-02 -7.03e-04  4.45e-02  1.46e-02
```

```
## 54121   6.08e-03 -1.20e-03 -2.76e-03  3.78e-02 -6.39e-03  3.91e-02  6.69e-03
## 39785   1.33e-04  1.67e-03 -2.07e-03 -7.28e-03 -5.91e-05 -9.29e-03 -5.47e-03
## 74883  -1.03e-03  1.54e-03 -1.99e-03 -1.26e-02  1.16e-03 -1.46e-02 -5.61e-03
## 11857   4.65e-02  3.84e-02 -3.48e-02 -3.70e-02 -4.63e-02 -3.65e-02  2.05e-02
## 24555   6.09e-03  8.98e-03 -9.92e-03  1.35e-02 -6.16e-03  5.38e-03 -9.04e-03
## 77257   1.28e-03  1.78e-03 -2.10e-03  1.69e-02 -1.43e-03  2.07e-02  5.54e-03
## 34889   4.74e-05  1.81e-04 -1.20e-04 -2.14e-04 -4.66e-05 -1.44e-04  5.65e-04
## 46019   3.71e-03  1.57e-02 -1.58e-02  4.95e-02 -4.12e-03  3.78e-02 -5.29e-02
## 77370   2.80e-03  2.81e-03 -3.53e-03  2.80e-03 -2.79e-03  8.55e-06 -5.72e-03
## 64850   9.04e-04  1.63e-03 -2.19e-03 -1.18e-03 -8.98e-04 -2.45e-03 -4.35e-03
## 64476   1.23e-03 -9.40e-04  3.09e-03  3.68e-03 -1.29e-03  5.86e-03 -3.93e-04
## 11993   7.17e-02  2.81e-03 -4.27e-03 -1.78e-02 -7.13e-02 -1.86e-02  1.32e-02
## 4669    7.20e-02 -2.73e-02  2.98e-02  6.17e-04 -7.19e-02  2.33e-02 -3.67e-02
## 20158   2.90e-03 -6.08e-03  8.17e-03 -1.42e-03 -2.84e-03 -4.90e-03 -6.92e-03
## 120640 -1.30e-04 -3.71e-03  5.57e-03 -7.17e-03  1.87e-04 -7.25e-03 -3.40e-03
## 65400  -9.04e-03 -1.29e-03 -5.51e-04 -9.54e-03  9.05e-03 -1.21e-02  1.56e-02
## 102135  1.56e-03  4.46e-03 -5.67e-03 -1.88e-03 -1.52e-03 -4.72e-03 -6.32e-03
## 27308  -8.78e-04  9.27e-04 -1.24e-03 -7.01e-03  9.29e-04 -7.43e-03 -3.55e-03
## 125863  4.24e-03  1.42e-03 -9.14e-04 -9.91e-04 -4.24e-03 -4.86e-05  5.63e-03
## 66737   6.35e-03  1.41e-02 -1.57e-02  1.45e-02 -6.42e-03  4.99e-03 -9.75e-03
## 68467   3.54e-03  3.58e-03 -2.96e-03  9.00e-03 -3.60e-03  1.27e-02 -1.48e-03
## 28646   1.85e-03  3.96e-03 -4.88e-03  1.45e-03 -1.85e-03 -6.90e-04 -5.38e-03
## 59877   9.14e-03  1.54e-02 -1.64e-02  1.90e-02 -9.24e-03  9.34e-03  1.78e-02
## 123815  9.14e-03  2.58e-05 -3.37e-05 -2.15e-03 -9.10e-03 -1.78e-03 -2.85e-03
## 116210  2.38e-03  1.98e-02 -1.87e-02  3.17e-03 -2.40e-03 -2.93e-04 -2.84e-03
## 2281   -1.63e-02  2.07e-03 -2.37e-03  3.81e-04  1.63e-02 -9.40e-04  1.01e-02
## 54016   1.13e-03 -1.58e-03  9.11e-04 -1.71e-03 -1.12e-03 -7.53e-04  7.77e-03
## 57757   2.78e-03  3.19e-03 -4.23e-03  3.52e-03 -2.79e-03  7.63e-04 -5.80e-03
## 88429  -2.16e-03 -3.06e-04  1.78e-03 -1.49e-02  2.29e-03 -1.53e-02 -3.51e-03
## 3045   -1.72e-02 -1.38e-03  1.26e-03 -6.58e-03  1.73e-02 -7.22e-03 -5.03e-03
## 9254   -1.68e-02  2.61e-04 -4.35e-04  1.82e-04  1.68e-02 -1.05e-03 -5.33e-03
## 116796 -4.26e-05  8.70e-04 -1.70e-03 -5.83e-03  9.55e-05 -7.12e-03 -4.83e-03
## 102908 -7.83e-04 -4.26e-04  6.15e-04 -6.67e-03  8.31e-04 -5.95e-03 -2.15e-03
## 87594  -1.17e-02 -3.80e-02  4.37e-02 -2.11e-02  1.17e-02  2.51e-03  2.46e-02
## 112410  1.89e-03 -7.30e-04  8.17e-05  9.17e-04 -1.89e-03  1.60e-03  8.03e-03
## 37749  -1.34e-03  8.76e-03 -9.00e-03  3.19e-03  1.27e-03  7.30e-03  4.34e-03
## 101687  6.88e-03 -3.35e-02  3.21e-02  1.11e-02 -6.94e-03  2.31e-02  3.66e-02
## 111024  2.05e-04 -1.16e-03  1.03e-03 -1.07e-03 -1.96e-04 -4.91e-04  1.64e-03
## 60759  -3.78e-05 -4.31e-04  3.97e-04 -1.35e-03  4.43e-05 -6.16e-04 -8.31e-04
## 52628   3.49e-05 -1.72e-04  1.46e-04 -2.74e-04 -3.22e-05 -1.66e-04 -2.44e-04
## 119948  1.20e-03 -6.28e-04  4.34e-04  3.14e-03 -1.23e-03  4.09e-03 -1.22e-03
## 69956   1.10e-03 -1.19e-03  9.59e-04  2.98e-03 -1.13e-03  4.74e-03 -1.17e-03
## 94769  -9.76e-04 -2.52e-04  1.19e-03 -1.47e-02  1.11e-03 -1.48e-02  1.82e-02
## 75412  -9.93e-05 -9.13e-04  6.76e-04 -2.88e-03  1.10e-04 -5.30e-04 -2.18e-03
## 15747   2.46e-03  4.23e-04 -8.00e-04  3.76e-03 -2.47e-03  4.18e-03 -3.98e-03
## 112253 -9.43e-03 -2.52e-02  2.85e-02 -2.82e-02  9.64e-03 -1.35e-02  1.37e-02
## 82839   1.66e-03 -2.77e-02  2.64e-02 -1.63e-02 -1.48e-03 -9.57e-03  2.31e-02
## 78885   1.08e-03 -5.80e-03  5.50e-03 -5.64e-03 -1.03e-03 -8.03e-04  1.32e-02
## 52419   4.11e-03  3.49e-03 -3.82e-03  9.40e-03 -4.16e-03  7.28e-03 -5.70e-03
## 119806  2.40e-03 -7.57e-05 -4.12e-04  3.38e-03 -2.42e-03  3.30e-03  5.06e-03
## 30435  -1.39e-03 -3.29e-03  6.35e-03 -1.10e-02  1.47e-03 -1.03e-02 -2.19e-03
## 54551  -4.33e-03  2.39e-02 -2.36e-02  2.60e-03  4.29e-03 -1.64e-02  3.92e-03
## 92877   4.67e-03  4.57e-02 -4.31e-02  1.61e-02 -4.81e-03  6.87e-03 -2.10e-03
## 117607 -5.74e-03  1.55e-02 -1.39e-02 -6.76e-03  5.69e-03  1.15e-04  8.65e-03
## 52898  -1.88e-03  8.42e-03 -4.78e-03  2.34e-02  1.67e-03  1.98e-02  2.00e-02
## 59685   1.35e-03  1.37e-03 -1.21e-03 -6.76e-03 -1.27e-03 -8.02e-03  1.67e-02
## 30322  -1.49e-02  2.98e-02 -2.61e-02 -3.58e-02  1.51e-02 -3.61e-02  1.32e-02
## 92209   1.57e-03  5.31e-04  5.76e-04  2.73e-03 -1.59e-03  4.38e-03 -1.89e-03
## 48437  -2.25e-03  2.79e-04 -8.86e-04 -1.17e-02  2.32e-03 -1.19e-02 -3.31e-03
## 67243  -8.57e-04  3.15e-03 -4.37e-03  2.20e-02  5.59e-04  4.16e-02  1.74e-02
## 100887  5.81e-04 -6.18e-04  4.31e-04  8.82e-04 -5.88e-04  1.32e-03 -9.56e-04
## 96342  -2.37e-04  3.38e-04  7.29e-04 -2.19e-03  2.33e-04 -5.55e-04 -9.74e-04
## 42002  -2.19e-02 -5.05e-02  5.54e-02 -7.23e-02  2.24e-02 -4.21e-02  2.12e-02
## 36818   4.02e-03 -3.64e-03  3.83e-03  8.16e-03 -4.07e-03  7.74e-03 -6.14e-03
## 27181   8.16e-03 -1.41e-02  1.02e-02  1.75e-02 -8.29e-03  1.23e-02 -1.56e-02
## 40527   8.29e-03  2.75e-02 -2.96e-02  1.55e-02 -8.37e-03 -1.00e-03  1.60e-02
## 102387  1.33e-03  3.28e-03 -8.69e-03  2.76e-02 -1.60e-03  2.97e-02  1.10e-02
## 51067   3.02e-03  2.87e-03 -3.74e-03  3.76e-03 -3.02e-03  1.26e-03 -6.59e-03
## 124510 -4.18e-02 -1.38e-03  1.99e-03 -1.35e-02  4.18e-02 -1.02e-02  1.13e-02
## 87256   3.81e-03  1.49e-02 -1.40e-02  2.09e-02 -4.01e-03  2.20e-02  3.34e-03
## 33169   2.07e-03 -6.46e-04  9.65e-04  3.06e-03 -2.10e-03  3.97e-03  7.32e-03
## 121870 -1.27e-02  3.40e-03 -8.95e-03 -2.09e-02  1.29e-02 -3.08e-02 -6.24e-02
## 101172  1.70e-03 -1.03e-04  1.07e-03  3.24e-03 -1.72e-03  4.02e-03 -1.88e-03
## 20662   4.47e-03 -6.57e-03  6.80e-03  3.05e-03 -4.42e-03  1.14e-04 -6.83e-03
## 84879   3.53e-04  8.60e-04  3.66e-04 -1.85e-03 -3.45e-04 -1.32e-03 -1.53e-03
## 123759  9.46e-03  6.02e-05  3.04e-04  2.03e-03 -9.46e-03  4.48e-03 -1.51e-03
## 95313   2.12e-04  2.35e-05 -1.99e-06  2.45e-04 -2.15e-04  4.60e-04 -4.24e-04
## 124742  1.16e-02  2.71e-03 -1.42e-03  7.67e-03 -1.17e-02  1.10e-02  1.94e-04
## 118455 -2.04e-03 -8.27e-03  4.30e-03 -1.53e-04  2.01e-03  8.59e-03  2.35e-03
## 23818   5.32e-03 -2.34e-02  2.08e-02  3.04e-03 -5.28e-03  7.41e-03 -9.13e-03
## 68141  -5.38e-03 -8.21e-04  1.94e-03 -2.13e-02  5.55e-03 -2.71e-02 -3.78e-03
## 64756   3.56e-04 -3.73e-03  6.52e-03 -5.35e-03 -2.98e-04 -4.69e-03 -2.99e-03
## 10541   6.33e-02 -3.56e-02  3.93e-02 -1.57e-02 -6.31e-02  2.55e-03 -4.00e-02
## 75766  -2.67e-03 -8.10e-04  1.93e-03 -1.31e-02  2.76e-03 -1.25e-02 -1.94e-03
## 42012   1.22e-02  2.28e-02 -2.51e-02  3.97e-02 -1.25e-02  2.76e-02 -1.04e-02
## 121054  7.55e-04  2.50e-03 -3.68e-03 -1.76e-03 -7.39e-04 -3.30e-03 -4.81e-03
## 75103   4.36e-03  7.05e-03 -6.48e-03  4.05e-02 -4.73e-03  3.44e-02  1.37e-02
## 11686  -3.45e-02  2.17e-03 -1.96e-03  1.24e-02  3.44e-02  4.72e-03 -8.62e-03
## 30846   4.81e-04 -8.24e-04  4.51e-04 -2.83e-03 -4.51e-04 -2.91e-03 -2.90e-03
## 92663   6.91e-04 -8.04e-04  3.42e-04 -1.13e-03 -6.84e-04 -7.03e-04 -2.91e-03
## 24827   3.57e-03 -2.48e-02  2.87e-02  1.16e-02 -3.67e-03  1.68e-02 -1.74e-03
## 14312   1.43e-03  3.52e-03 -4.91e-03  1.53e-03 -1.45e-03 -2.48e-04 -4.81e-03
## 44598   7.72e-04 -4.42e-04  1.90e-04 -1.26e-03 -7.53e-04 -1.19e-03 -2.74e-03
## 68359   5.70e-03 -9.87e-03  9.04e-03  5.90e-03 -5.68e-03  6.92e-03 -7.76e-03
## 55374   5.57e-03  1.67e-03 -7.78e-03  4.22e-02 -5.96e-03  4.36e-02  9.30e-03
## 103841 -1.05e-02  1.47e-03 -2.63e-03 -3.26e-02  1.07e-02 -2.71e-02  9.62e-03
## 10244  -1.62e-02 -1.44e-03  2.02e-03 -6.25e-03  1.62e-02 -6.16e-03 -2.93e-03
## 94748   1.92e-03 -7.23e-04  2.30e-04  1.77e-03 -1.93e-03  2.55e-03  7.73e-03
```

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## 115130  2.56e-03 -1.46e-03  2.45e-03  4.36e-03 -2.59e-03  3.95e-03 -3.65e-03
## 99247  -2.03e-05 -5.06e-04  5.14e-04 -1.39e-03  3.04e-05 -6.89e-04 -7.73e-04
## 17313   9.47e-04  7.14e-04 -8.41e-04 -2.47e-03 -9.20e-04 -3.84e-03 -4.54e-03
## 91667   2.17e-03 -1.92e-04 -4.79e-04  3.23e-03 -2.19e-03  3.89e-03 -4.04e-03
## 102621  2.88e-04  2.12e-02 -2.07e-02 -1.24e-03 -2.86e-04 -5.17e-03 -2.03e-03
## 64348  -6.10e-04 -2.02e-03  1.36e-03 -6.26e-03  6.63e-04 -4.11e-03 -3.02e-03
## 117514 -1.15e-02 -1.93e-03  1.12e-03 -1.83e-02  1.16e-02 -1.30e-02  1.92e-02
## 75503   6.44e-04 -6.40e-04  4.08e-04 -2.68e-03 -6.10e-04 -1.53e-03 -3.39e-03
## 118986  7.26e-03 -5.35e-02  6.09e-02  6.87e-03 -7.25e-03  1.43e-02  3.56e-02
## 14891  -9.16e-03 -1.95e-03  4.80e-03 -2.55e-02  9.37e-03 -3.14e-02  1.21e-02
## 129700  8.68e-03 -1.34e-03  4.31e-04 -2.23e-03 -8.65e-03 -1.48e-03 -3.45e-03
## 25169   1.70e-03 -1.88e-04 -2.23e-04  2.48e-03 -1.71e-03  2.54e-03 -3.07e-03
## 49385  -7.02e-03  1.56e-02 -1.38e-02  1.58e-03  7.04e-03 -1.40e-02  1.76e-02
## 83590   4.83e-03 -2.38e-02  2.02e-02  2.76e-02 -5.06e-03  4.20e-02  4.66e-03
## 108218 -1.71e-02 -2.61e-02  2.77e-02 -4.46e-02  1.73e-02 -2.61e-02  1.89e-02
## 125497  1.48e-02  5.39e-03 -5.79e-03 -1.15e-02 -1.46e-02 -1.16e-02 -4.09e-03
## 36072  -6.04e-03  8.22e-03 -7.85e-03 -3.70e-03  6.00e-03  6.81e-04  1.04e-02
## 38415   8.16e-03  1.80e-02 -1.93e-02  1.49e-02 -8.22e-03  4.54e-03  1.67e-02
## 7032   -2.50e-02  9.28e-03 -1.03e-02  9.93e-06  2.50e-02 -5.33e-03  1.50e-02
## 70461   3.25e-04 -3.98e-04  4.54e-04 -9.11e-06 -3.32e-04  1.15e-03 -9.01e-04
## 84282   2.78e-03  3.07e-02 -2.90e-02  8.52e-03 -2.86e-03  3.06e-03 -1.90e-03
## 100709 -2.12e-03 -1.30e-02  1.19e-02 -1.80e-02  2.27e-03 -1.43e-02 -4.25e-03
## 42777   1.70e-03  1.93e-03 -2.22e-03  3.24e-03 -1.74e-03  2.33e-03 -3.74e-03
## 81438   2.59e-03  2.28e-02 -2.19e-02 -5.89e-04 -2.58e-03 -6.00e-03  1.32e-02
## 77799  -2.40e-03  1.05e-02 -1.09e-02 -4.26e-03  2.40e-03 -1.97e-03  2.60e-03
## 87948  -6.98e-04 -1.94e-03  1.50e-03 -8.80e-03  7.75e-04 -7.76e-03 -3.67e-03
## 112517  4.13e-03  5.93e-04  3.15e-04  5.58e-03 -4.16e-03  5.19e-03  1.82e-02
## 78027   4.96e-04  4.46e-04 -1.80e-04  1.18e-03 -5.12e-04  1.97e-03 -6.35e-04
## 88079  -6.84e-04 -1.13e-03  1.08e-03 -6.24e-03  7.34e-04 -4.21e-03 -2.59e-03
## 36770   1.97e-03 -6.83e-03  6.37e-03 -4.20e-03 -1.91e-03 -1.32e-03 -4.84e-03
## 105166 -9.53e-03 -2.04e-03 -1.52e-03 -2.19e-02  9.70e-03 -2.68e-02  8.93e-03
## 61288   3.25e-03  1.20e-02 -1.13e-02  3.59e-03 -3.26e-03 -6.20e-05 -5.04e-03
## 83122   8.25e-04  9.57e-04 -4.04e-04  2.47e-03 -8.54e-04  3.41e-03 -5.37e-04
## 118121  1.65e-03 -9.59e-04  3.85e-04  8.46e-04 -1.67e-03  2.11e-03  9.51e-03
## 24960   1.10e-02 -1.62e-02  1.45e-02  2.48e-02 -1.12e-02  2.28e-02 -1.02e-02
## 4021    5.78e-03  6.12e-04 -4.84e-04  8.77e-04 -5.77e-03  7.29e-05  1.86e-03
## 97350   2.76e-03 -3.98e-04  1.74e-03 -6.05e-03 -2.67e-03 -1.02e-02  1.99e-02
## 22844  -1.20e-02  7.97e-04  7.76e-04 -1.56e-02  1.21e-02 -2.10e-02 -5.33e-02
## 105276  5.71e-03  6.92e-03 -8.79e-03  1.48e-02 -5.81e-03  1.09e-02 -7.65e-03
## 59286   2.84e-03  9.87e-03 -1.07e-02 -3.59e-03 -2.76e-03 -1.59e-02 -1.11e-02
## 92187  -7.29e-04 -1.09e-02  7.43e-03  6.26e-03  6.30e-04  1.62e-02  4.37e-03
## 122654  3.46e-03 -1.42e-02  1.60e-02 -2.79e-03 -3.36e-03 -1.32e-02 -1.09e-02
## 96273   5.97e-04 -8.99e-04  8.03e-04  6.66e-04 -6.05e-04  1.78e-03 -1.09e-03
## 101106 -8.02e-03 -1.85e-03 -3.09e-03 -1.01e-02  8.12e-03 -1.44e-02  1.14e-02
## 98206   1.99e-03  1.79e-03 -2.73e-03  5.71e-03 -2.05e-03  5.11e-03 -4.08e-03
## 127537  1.59e-02  8.33e-05  6.64e-04  5.23e-03 -1.59e-02  7.62e-03  1.87e-02
## 62004   3.79e-03  5.57e-03 -6.33e-03  1.11e-02 -3.89e-03  6.30e-03 -5.89e-03
## 2609    1.66e-04  3.67e-05 -3.83e-05 -4.41e-06 -1.66e-04 -4.62e-05 -1.18e-04
## 24042  -1.26e-02 -1.41e-02  1.58e-02 -1.22e-02  1.26e-02 -4.50e-03 -4.43e-02
## 61337   2.12e-03  1.01e-04 -6.30e-04  3.99e-03 -2.15e-03  3.90e-03 -3.23e-03
## 75448   1.14e-03 -1.06e-03  6.38e-04 -1.44e-03 -1.12e-03 -1.03e-03  5.37e-03
## 97542  -8.85e-05  1.30e-03 -2.09e-03 -5.35e-03  1.28e-04 -6.63e-03 -4.46e-03
## 107078  3.07e-03  9.80e-04 -1.42e-03  5.56e-03 -3.09e-03  5.57e-03 -4.26e-03
## 60744   2.67e-03 -6.66e-04  1.92e-05  2.18e-03 -2.68e-03  3.40e-03  1.16e-02
## 66923   6.02e-03  1.05e-02 -1.17e-02  1.09e-02 -6.09e-03  4.04e-03  1.36e-02
## 80703  -6.70e-04  5.69e-03 -5.42e-03 -4.40e-03  7.11e-04 -1.31e-02 -5.56e-03
## 1314   -1.42e-04 -3.83e-05  3.52e-05 -3.85e-05  1.42e-04 -5.39e-06 -2.66e-05
## 61011   1.24e-03  6.05e-03 -6.83e-03 -8.38e-03 -1.15e-03 -1.38e-02  1.46e-02
## 97380   3.68e-04 -7.91e-04  4.80e-04 -2.90e-03 -3.42e-04 -2.65e-03 -2.83e-03
## 107438  1.40e-03 -1.15e-03  2.34e-03 -1.05e-03 -1.38e-03 -1.78e-03 -3.62e-03
## 35497  -1.25e-03  4.66e-02 -4.39e-02  2.80e-02  9.40e-04  1.21e-02  1.23e-02
## 30467  -5.04e-03  2.69e-02 -2.41e-02  1.19e-02  4.89e-03  2.18e-03  1.39e-02
## 108097 -9.03e-04 -3.24e-03  2.30e-03 -9.84e-03  9.93e-04 -8.45e-03 -3.99e-03
## 99562  -1.13e-04 -2.70e-02  2.49e-02  2.33e-02 -1.38e-04  3.94e-02  1.17e-02
## 117234  3.28e-03 -5.37e-03  4.72e-03  3.73e-03 -3.30e-03  7.07e-03 -4.09e-03
## 32327   1.08e-03 -4.61e-04  3.54e-04  2.83e-03 -1.11e-03  3.72e-03 -1.09e-03
## 90090  -1.20e-03 -1.70e-02  1.56e-02 -1.50e-02  1.33e-03 -8.34e-03 -4.26e-03
## 118711  6.41e-03  1.15e-02 -1.25e-02  1.42e-02 -6.48e-03  5.21e-03 -9.25e-03
## 83795   5.38e-04  2.62e-04 -3.83e-04 -2.42e-03 -5.21e-04 -2.92e-03 -4.49e-03
## 37151   2.04e-03  3.60e-04 -7.64e-04  4.34e-03 -2.07e-03  4.75e-03 -2.90e-03
## 85884   3.49e-04 -2.07e-03  2.14e-03 -3.54e-03 -3.19e-04 -1.55e-03  6.54e-03
## 23177   1.67e-03  4.35e-03 -5.29e-03  1.02e-03 -1.66e-03 -9.48e-04 -5.32e-03
## 78979  -9.49e-03  3.74e-04 -2.78e-03 -2.37e-02  9.71e-03 -2.96e-02  1.01e-02
## 47481  -9.56e-04 -6.61e-03  7.61e-03  1.86e-02  7.92e-04  1.94e-02 -5.00e-02
## 17625   3.97e-04 -3.04e-02  2.88e-02 -1.17e-02 -2.63e-04 -4.58e-04 -4.11e-03
## 73794   2.01e-04 -3.62e-03  5.73e-03 -4.32e-03 -1.68e-04 -3.61e-03 -2.53e-03
## 10783  -7.24e-03 -5.56e-04  2.04e-03 -1.76e-03  7.23e-03 -5.73e-04  5.73e-03
## 84617   8.73e-04 -6.89e-03  1.00e-02 -1.64e-03 -8.61e-04  2.81e-04 -1.75e-03
## 39789  -1.25e-02  2.31e-02 -2.10e-02 -2.42e-02  1.27e-02 -2.76e-02  1.20e-02
## 81876  -7.42e-04  2.88e-04 -4.66e-05 -9.96e-03  8.30e-04 -1.14e-02 -4.23e-03
## 13570  -5.75e-03 -5.88e-04  4.87e-04 -1.94e-03  5.75e-03 -1.66e-03 -1.52e-03
## 39972  -1.69e-02 -1.87e-02  2.32e-02 -3.82e-02  1.72e-02 -3.08e-02 -4.73e-02
## 74780   8.51e-05 -1.21e-03  8.55e-04 -5.18e-03 -3.27e-05 -4.16e-03 -3.66e-03
## 36608   3.56e-03  5.60e-03 -6.50e-03  5.43e-03 -3.57e-03  1.90e-03 -6.40e-03
## 30385  -6.10e-03 -1.94e-02  2.09e-02 -8.12e-03  6.09e-03  5.89e-03  1.50e-02
## 83926  -1.34e-02 -1.02e-03 -9.43e-04 -2.69e-02  1.36e-02 -2.95e-02  1.62e-02
## 47193  -8.89e-03 -2.73e-02  2.99e-02 -5.26e-05  8.80e-03  1.84e-02 -3.77e-02
## 100024  1.59e-03 -2.75e-06 -9.40e-05  1.82e-03 -1.60e-03  1.90e-03 -2.85e-03
## 39267   1.26e-03  3.69e-04  5.53e-04  1.11e-03 -1.27e-03  2.55e-03 -2.24e-03
## 89411   4.07e-03  1.08e-02 -1.21e-02  7.47e-03 -4.09e-03 -4.41e-04 -8.45e-03
## 10563  -2.25e-02  5.87e-04 -1.17e-03 -1.22e-02  2.26e-02 -1.29e-02 -4.70e-03
## 113673  2.80e-03  5.78e-04 -1.33e-03  7.25e-03 -2.86e-03  8.40e-03 -3.57e-03
## 25219   1.60e-03  3.98e-04 -1.02e-03 -1.46e-03 -1.57e-03 -3.53e-03 -5.53e-03
## 47719   1.65e-03  1.59e-03 -8.98e-04 -3.21e-03 -1.61e-03 -3.41e-03  1.98e-02
## 24266   1.72e-03 -7.30e-04  4.64e-03  5.07e-03 -1.78e-03  8.09e-03  4.83e-04
## 53050   4.14e-04 -1.16e-04 -1.05e-03 -8.20e-03 -3.43e-04 -9.57e-03  9.03e-03
## 95576   1.26e-03 -1.98e-04 -4.38e-05  1.61e-03 -1.28e-03  2.30e-03 -2.64e-03
## 87163   2.49e-03  1.60e-05 -5.31e-05  4.27e-03 -2.52e-03  5.41e-03  9.83e-03
```

```
## 30046   1.31e-02  2.33e-02 -2.46e-02  3.09e-02 -1.33e-02  1.41e-02  1.96e-02
## 92272   3.86e-04  1.56e-02 -1.47e-02  6.39e-03 -4.30e-04 -5.07e-04  1.29e-03
## 14575  -1.74e-02 -2.51e-02  2.82e-02 -3.21e-02  1.75e-02 -8.61e-03  2.73e-02
## 4626   -1.77e-02  6.29e-03 -6.29e-03  2.08e-02  1.76e-02  1.55e-02  1.32e-02
## 80407  -1.07e-02 -2.06e-03  3.61e-03 -2.76e-02  1.10e-02 -3.25e-02  1.30e-02
## 129796  5.12e-03 -3.23e-04  1.99e-04  3.43e-03 -5.14e-03  4.26e-03 -1.53e-03
## 79438   7.20e-04 -9.25e-04  7.15e-04  1.00e-03 -7.27e-04  1.72e-03 -1.16e-03
## 26901   1.43e-03  1.47e-04  4.98e-04  7.61e-04 -1.43e-03  1.70e-03 -3.00e-03
## 119325 -3.07e-04 -1.72e-03  1.11e-03 -5.94e-03  3.52e-04 -4.60e-03 -3.60e-03
## 116493  5.23e-05  3.78e-05  7.47e-05 -6.29e-03  2.43e-06 -7.57e-03 -4.35e-03
## 89443   3.40e-03  1.18e-02 -1.21e-02 -1.24e-03 -3.31e-03 -1.48e-02 -1.13e-02
## 40374   3.39e-03 -1.43e-02  1.34e-02  8.79e-03 -3.47e-03  1.79e-02 -1.13e-03
## 14037   3.04e-03  1.13e-03 -9.47e-04 -2.58e-04 -3.04e-03 -8.88e-04 -1.84e-03
## 81604  -6.10e-03  3.48e-02 -3.22e-02 -6.91e-03  6.13e-03 -2.18e-02  6.36e-03
## 88650  -4.98e-03  1.57e-02 -1.52e-02  2.26e-03  5.04e-03 -2.06e-02 -6.19e-02
## 36620   1.02e-03  2.75e-03 -4.32e-03 -6.86e-03 -9.59e-04 -8.47e-03  1.69e-02
## 3980    4.14e-03  7.59e-04 -6.48e-04 -5.75e-04 -4.12e-03 -1.25e-03  1.46e-03
## 26643  -1.52e-02 -5.40e-04 -2.11e-04 -2.42e-02  1.54e-02 -2.90e-02 -5.33e-02
## 62512  -1.36e-03  4.51e-02 -4.27e-02  2.34e-02  1.12e-03  7.32e-03  9.92e-03
## 41337  -3.82e-03  2.49e-03 -2.47e-03  1.05e-02  3.76e-03  6.84e-03  1.72e-02
## 16951  -2.35e-04  9.40e-04 -8.85e-04 -6.48e-03  2.87e-04 -7.64e-03 -3.88e-03
## 105484  2.73e-03  1.50e-04 -8.83e-04  4.88e-03 -2.77e-03  5.66e-03  9.06e-03
## 97882  -2.01e-03  5.96e-02 -5.60e-02  2.32e-02  1.74e-03  2.83e-03  1.18e-02
## 37109   1.49e-03 -1.16e-04  7.47e-04  1.99e-03 -1.51e-03  2.30e-03 -2.26e-03
## 111979  2.13e-03  4.31e-04 -1.02e-03  4.22e-03 -2.16e-03  4.34e-03 -3.16e-03
## 5022   -2.71e-02 -2.07e-02  1.93e-02  3.22e-02  2.68e-02  3.23e-02 -1.06e-02
## 45161  -5.04e-03 -6.65e-03  7.18e-03  1.30e-02  4.83e-03  1.97e-02  1.66e-02
## 104369  7.28e-04 -1.37e-03  2.45e-03 -6.94e-03 -6.63e-04 -7.43e-03  1.11e-02
## 74401   3.03e-03  6.92e-04 -1.56e-03  7.32e-03 -3.08e-03  8.07e-03 -3.92e-03
## 56626   6.66e-05 -1.12e-03  9.79e-04 -1.28e-03 -5.46e-05 -6.34e-04 -8.71e-04
## 61244  -3.44e-03 -3.54e-02  3.34e-02  2.24e-03  3.39e-03  6.27e-03  6.69e-03
## 88483   4.77e-05 -5.90e-04  6.67e-04 -5.22e-03 -2.11e-06 -4.26e-03 -3.20e-03
## 63772  -2.24e-03 -3.53e-03  2.66e-03 -1.12e-02  2.31e-03 -8.07e-03 -2.33e-03
## 26393   1.37e-03 -1.49e-04 -1.10e-04  1.65e-03 -1.38e-03  3.18e-03 -2.91e-03
## 122081 -3.75e-03  1.98e-02 -2.58e-02  1.13e-03  3.74e-03 -3.68e-03  1.01e-02
## 105144 -6.37e-04 -2.05e-03  1.61e-03 -9.19e-03  7.26e-04 -8.34e-03 -3.87e-03
## 43718   1.20e-04  3.06e-04 -1.92e-04  2.45e-04 -1.23e-04  2.85e-04 -1.36e-04
## 64050   2.07e-04  2.58e-04 -9.50e-04 -8.95e-03 -1.22e-04 -1.01e-02  9.80e-03
## 69413   1.51e-03 -1.17e-02  1.26e-02 -1.15e-02 -1.40e-03 -1.59e-02  2.02e-02
## 5849   -2.73e-02 -1.24e-02  1.22e-02 -1.26e-02  2.73e-02 -4.98e-03  1.95e-02
## 71719   2.29e-04 -2.01e-03  1.85e-03 -1.96e-03 -2.14e-04 -7.86e-04  3.25e-03
## 59354   2.27e-04 -3.27e-03  3.98e-03 -3.08e-03 -2.20e-04 -2.56e-03 -3.44e-03
## 55483   2.34e-03 -6.67e-06  1.10e-04  3.43e-03 -2.36e-03  4.14e-03  7.82e-03
## 76380   1.58e-03  3.42e-03 -3.85e-03 -2.26e-03 -1.55e-03 -2.75e-03  1.98e-02
## 22440   9.50e-04 -7.51e-02  8.04e-02 -1.29e-02 -8.01e-04 -5.26e-03 -7.15e-03
## 11704  -1.02e-02  3.92e-04 -5.02e-04 -2.50e-03  1.02e-02 -3.54e-03 -3.55e-03
## 129428  1.20e-02  2.24e-03 -5.40e-04 -3.81e-03 -1.20e-02 -2.47e-03 -1.48e-03
## 50574   1.94e-04 -1.89e-04  4.81e-04 -2.14e-03 -1.80e-04 -1.09e-03 -1.99e-03
## 22666   2.10e-03  1.16e-04 -6.15e-06  3.91e-03 -2.13e-03  4.01e-03 -2.77e-03
## 15843   8.02e-04 -1.64e-03  1.18e-03 -2.79e-03 -7.84e-04 -1.62e-03  8.44e-03
## 37241   4.41e-03  4.81e-03 -5.49e-03  9.20e-03 -4.48e-03  7.38e-03  1.25e-02
## 62287  -1.36e-02 -1.67e-02  1.59e-02 -1.69e-02  1.36e-02  3.80e-03 -3.26e-02
## 45214  -3.93e-04 -8.27e-04  7.39e-04 -4.02e-03  4.11e-04 -2.76e-03 -2.14e-03
## 4932   -2.52e-02 -2.90e-03  2.32e-03 -5.32e-03  2.52e-02 -5.51e-03 -6.93e-03
## 58901  -9.64e-04 -4.43e-03  4.06e-03 -5.46e-03  9.93e-04 -1.31e-03 -1.17e-03
## 20133   9.11e-04 -7.66e-03  1.04e-02 -9.63e-04 -9.18e-04  1.07e-03 -2.05e-03
## 112813 -9.38e-04 -2.79e-03  2.16e-03 -1.02e-02  1.03e-03 -8.90e-03 -3.67e-03
## 75322  -1.24e-02 -3.47e-02  3.82e-02 -3.03e-02  1.27e-02 -1.41e-02 -4.00e-02
## 6466    2.37e-03  5.89e-04 -5.27e-04  9.01e-04 -2.38e-03  4.61e-04  5.79e-04
## 27976   2.88e-03  3.32e-03 -3.88e-03  4.48e-03 -2.90e-03  2.23e-03 -5.68e-03
## 121339  1.95e-03  8.09e-05 -6.57e-04  4.18e-03 -1.98e-03  4.61e-03 -3.02e-03
## 82770   7.85e-04 -3.30e-04  3.68e-04  1.22e-03 -7.95e-04  1.90e-03 -1.03e-03
## 123597  1.71e-02 -8.12e-03  1.01e-02 -2.57e-02 -1.68e-02 -3.17e-02 -5.42e-03
## 32732   1.48e-03  1.04e-02 -1.16e-02 -3.78e-03 -1.40e-03 -1.15e-02 -8.37e-03
## 7659    8.76e-02 -4.51e-03  7.10e-03  4.65e-02 -8.78e-02  5.21e-02  2.07e-02
## 79536   4.16e-05 -1.18e-03  1.54e-03 -3.98e-03 -2.14e-05 -1.38e-03  9.17e-03
## 70492   5.38e-03  4.47e-03 -1.14e-02  4.37e-02 -5.77e-03  4.50e-02  1.08e-02
## 33078  -1.41e-02 -8.84e-02  8.65e-02 -3.61e-02  1.44e-02 -2.40e-02  1.27e-02
## 40663   2.35e-03  1.42e-04 -8.46e-04  3.71e-03 -2.37e-03  4.24e-03 -4.17e-03
## 6217    1.10e-03  1.79e-04 -1.69e-04 -1.19e-04 -1.10e-03 -3.25e-04  2.77e-04
## 102116 -4.05e-03 -1.44e-02  1.47e-02  1.02e-02  3.85e-03  2.57e-02  1.78e-02
## 34017   2.11e-03  1.00e-02 -1.11e-02  4.21e-03 -2.13e-03 -1.95e-03 -6.47e-03
## 68133  -1.00e-03 -2.04e-03  1.50e-03 -7.07e-03  1.05e-03 -5.63e-03 -2.44e-03
## 64342  -3.49e-03 -3.22e-02  2.93e-02 -2.97e-02  3.83e-03 -3.78e-02 -1.02e-02
## 55596  -6.27e-04  2.79e-04 -3.60e-04 -5.94e-03  6.62e-04 -6.25e-03 -3.41e-03
## 125650  3.01e-02  6.36e-03 -4.31e-03  1.22e-03 -3.00e-02 -5.91e-03  3.19e-02
## 45626   1.77e-03  1.82e-03 -3.34e-03 -6.07e-04 -1.78e-03 -1.69e-03  1.21e-02
## 81023  -1.50e-03  2.32e-03 -1.71e-03 -5.89e-03  1.54e-03 -8.40e-03 -3.00e-03
## 12460  -1.26e-02 -4.20e-05 -4.04e-04  2.56e-03  1.26e-02  3.54e-03 -3.02e-03
## 63948  -4.22e-04  5.89e-04 -1.43e-03 -8.66e-03  5.07e-04 -1.03e-02 -5.12e-03
## 84187  -7.18e-03  1.06e-02 -1.60e-02  3.90e-04  7.11e-03  3.80e-03 -4.52e-02
## 70214   2.60e-03  1.84e-02 -2.07e-02  2.35e-03 -2.59e-03 -1.10e-02 -1.02e-02
## 89079  -1.06e-02  2.29e-02 -2.14e-02 -1.54e-02  1.07e-02 -1.92e-02  1.22e-02
## 11662   8.65e-02 -3.27e-03  6.76e-03  1.74e-02 -8.65e-02  2.37e-02  2.60e-02
## 27266  -8.36e-04  2.73e-04  5.87e-04 -6.83e-03  8.90e-04 -5.23e-03 -2.10e-03
## 12272   8.47e-02 -1.76e-02  1.85e-02  2.87e-02 -8.47e-02  2.57e-02  1.27e-02
## 44681   2.48e-03 -6.50e-05  4.55e-04  3.37e-03 -2.50e-03  3.67e-03  7.11e-03
## 49397   3.60e-04  4.35e-04  2.15e-04 -4.57e-03 -3.10e-04 -4.32e-03 -3.25e-03
## 62917   1.00e-04 -1.83e-04  4.96e-04 -4.95e-03 -5.15e-05 -4.22e-03 -3.26e-03
## 60671   1.34e-03  3.85e-04  8.55e-04  1.94e-03 -1.35e-03  3.68e-03 -1.91e-03
## 70539  -1.62e-03  1.83e-02 -1.68e-02  4.32e-03  1.57e-03  3.15e-03  5.64e-03
## 14719  -1.05e-02 -1.51e-02  1.90e-02 -1.53e-02  1.05e-02 -4.98e-03  2.09e-02
## 82086   1.34e-03 -1.13e-02  1.04e-02 -2.40e-03 -1.32e-03  3.59e-03 -3.32e-03
## 126463  1.17e-02  5.56e-04 -4.51e-04 -9.37e-03 -1.16e-02 -1.04e-02 -3.74e-03
## 35315  -1.80e-02 -3.37e-02  3.60e-02 -5.94e-02  1.84e-02 -3.69e-02  1.61e-02
## 14986   1.16e-02 -1.57e-02  1.61e-02  1.96e-02 -1.16e-02  1.08e-02 -1.30e-02
## 96007   3.62e-04  5.19e-04 -2.89e-04  7.91e-04 -3.70e-04  1.11e-03 -4.42e-04
## 26978   1.11e-04 -1.10e-05  2.97e-04 -3.64e-03 -7.62e-05 -3.39e-03 -2.27e-03
```

```
## 1504    1.30e-03 -2.11e-04  4.25e-05 -9.26e-05 -1.30e-03 -2.96e-04  1.42e-04
## 118362  3.32e-03  2.54e-04 -5.52e-04  7.39e-03 -3.40e-03  9.95e-03  1.73e-02
## 24697   3.27e-03 -4.04e-03  5.48e-03  6.66e-03 -3.32e-03  6.88e-03 -3.61e-03
## 32363  -1.02e-02 -5.91e-03  5.86e-03 -2.90e-02  1.04e-02 -2.64e-02  1.14e-02
## 26282   1.56e-03 -9.10e-03  8.37e-03 -2.66e-03 -1.52e-03  2.10e-03 -3.60e-03
## 89862  -1.99e-03 -2.63e-02  2.48e-02  6.65e-03  1.93e-03  1.43e-02  7.33e-03
## 95734   1.50e-03  7.31e-03 -8.65e-03 -1.25e-02 -1.34e-03 -1.99e-02  1.44e-02
## 37347  -5.63e-03 -1.66e-02  1.55e-02  1.79e-03  5.58e-03  2.06e-03  9.66e-03
## 56228   8.28e-04 -8.79e-04  4.14e-04 -2.10e-03 -8.08e-04 -1.18e-03 -3.72e-03
## 96218  -1.01e-04 -1.64e-03  1.33e-03 -1.80e-03  1.10e-04 -6.26e-04 -1.10e-03
## 122382  2.57e-03 -2.34e-02  2.18e-02 -4.67e-03 -2.50e-03  2.33e-03 -5.80e-03
## 104709 -8.53e-03 -1.84e-02  1.97e-02 -2.36e-02  8.68e-03 -1.17e-02  1.26e-02
## 4274   -1.89e-02  1.67e-02 -1.32e-02  2.07e-02  1.87e-02  1.62e-02  1.84e-02
## 127593  1.20e-02  4.21e-04 -1.82e-04  4.63e-03 -1.20e-02  6.44e-03 -1.51e-03
## 46185  -8.20e-03  4.52e-02 -4.17e-02 -4.68e-03  8.17e-03 -2.15e-02  1.22e-02
## 82932   1.97e-03 -1.10e-04  2.97e-04  2.30e-03 -1.99e-03  1.39e-03 -4.19e-03
## 74649   7.00e-03  1.84e-05 -1.59e-03  4.04e-02 -7.28e-03  4.11e-02  9.47e-03
## 19635  -4.18e-03  1.70e-02 -1.54e-02 -7.72e-03  4.23e-03 -1.37e-02  4.30e-03
## 90371   1.08e-03  1.50e-04  1.29e-03  1.29e-03 -1.10e-03  2.22e-03 -1.40e-03
## 30434  -6.13e-03  2.84e-02 -3.89e-02 -1.39e-02  6.27e-03 -2.41e-02  3.06e-03
## 59812   7.84e-05 -1.00e-03  9.20e-04 -1.45e-03 -6.58e-05 -7.46e-04 -9.40e-04
## 53498   4.08e-04  2.73e-05  5.46e-05  4.59e-04 -4.12e-04  8.97e-04 -7.10e-04
## 54205   2.45e-04 -1.71e-03  1.59e-03 -1.73e-03 -2.30e-04 -7.45e-04  2.86e-03
## 111207 -1.29e-02  1.83e-02 -1.73e-02 -3.46e-02  1.30e-02 -3.06e-02  9.45e-03
## 26700   1.08e-03 -8.96e-04  6.60e-04  2.27e-03 -1.10e-03  3.18e-03 -1.31e-03
## 28435   1.79e-03 -1.82e-04  8.63e-04  4.48e-03 -1.84e-03  5.70e-03 -1.82e-03
## 34219   1.88e-03 -4.74e-03  7.37e-03 -9.97e-04 -1.87e-03  7.00e-04  1.61e-02
## 71398   6.31e-05 -1.08e-03  9.99e-04 -1.62e-03 -5.01e-05 -8.02e-04 -9.97e-04
## 73397   2.37e-04 -1.26e-03  5.97e-04 -1.73e-03 -2.35e-04 -4.79e-04 -2.65e-03
## 71979   1.02e-03  8.90e-05  1.78e-04  2.75e-03 -1.05e-03  4.01e-03 -8.28e-04
## 74452   8.91e-05 -1.42e-03  9.18e-04 -5.15e-03 -4.40e-05 -4.06e-03 -3.65e-03
## 119547  3.33e-03 -3.87e-03  5.31e-03  7.46e-03 -3.42e-03  9.55e-03  1.87e-02
## 48976   8.50e-04  7.18e-03 -8.94e-03 -6.59e-03 -7.75e-04 -1.35e-02 -8.43e-03
## 18069   2.77e-04  2.42e-03 -3.08e-03 -6.34e-03 -2.08e-04 -1.11e-02 -7.43e-03
## 30459  -2.92e-03  2.53e-02 -2.27e-02  2.44e-02  2.62e-03  2.31e-02  1.61e-02
## 56512   3.22e-03  3.06e-02 -3.67e-02  3.96e-02 -3.55e-03  4.17e-02  1.44e-02
## 126818  1.34e-02  4.09e-02 -3.97e-02  6.53e-04 -1.34e-02 -9.46e-03 -3.77e-03
## 16375   1.13e-02  2.69e-02 -2.08e-02  3.60e-02 -1.15e-02  2.54e-02 -3.23e-03
## 16388   1.50e-03 -8.66e-04  1.39e-03  1.73e-03 -1.52e-03  2.18e-03  4.26e-03
## 115595  4.90e-03 -3.46e-05 -1.32e-04  8.11e-03 -4.94e-03  7.21e-03 -5.56e-03
## 11215  -2.52e-02  1.64e-02 -1.74e-02  1.50e-02  2.51e-02  1.63e-03 -1.26e-02
## 101796  2.66e-03  2.48e-04 -6.72e-04  7.32e-03 -2.73e-03  8.78e-03 -3.16e-03
## 129639 -2.78e-02 -2.78e-02  2.59e-02  1.21e-02  2.76e-02  2.51e-02  5.79e-03
## 3341   -1.41e-02  4.53e-03 -5.32e-03  6.80e-03  1.40e-02  4.23e-03  8.92e-03
## 8532   -2.39e-02  7.46e-03 -8.52e-03  1.18e-02  2.38e-02  2.66e-03 -1.01e-02
## 70632   8.79e-04 -1.81e-02  1.68e-02 -9.48e-03 -7.71e-04 -3.47e-03 -5.32e-03
## 36980   3.90e-03  6.94e-03 -7.79e-03  3.36e-03 -3.88e-03 -3.67e-03 -8.67e-03
## 36508   5.68e-03  7.30e-03 -8.24e-03  1.33e-02 -5.75e-03  9.02e-03 -6.86e-03
## 608    -1.90e-02  9.09e-03 -1.01e-02  3.46e-03  1.90e-02 -3.02e-03  1.01e-02
## 1938   -2.91e-03 -4.28e-04  4.32e-04  1.24e-03  2.90e-03  1.48e-03  1.93e-03
## 42194   1.21e-04 -4.42e-04  1.91e-03 -4.80e-03 -7.95e-05 -4.98e-03 -3.14e-03
## 14525  -1.07e-03 -7.96e-04  4.88e-04 -8.53e-03  1.12e-03 -4.13e-03 -1.43e-03
## 99797   5.94e-04 -3.30e-03  2.79e-03 -4.60e-04 -5.96e-04  2.53e-03 -1.95e-03
## 127269  5.60e-03  2.55e-04 -6.11e-05  2.73e-03 -5.61e-03  3.89e-03 -1.18e-03
## 112162  3.72e-03 -2.74e-02  2.69e-02 -1.09e-03 -3.69e-03  1.20e-02  2.32e-02
## 95018  -3.44e-04 -2.32e-03  4.46e-03 -7.67e-03  4.15e-04 -7.69e-03 -2.83e-03
## 78651  -1.39e-05  8.02e-04 -7.60e-04 -1.30e-02  1.45e-04 -1.43e-02  1.55e-02
## 69708  -1.48e-03  7.97e-04 -1.13e-03 -2.00e-02  1.67e-03 -2.53e-02 -7.46e-03
## 78865  -1.33e-03  2.71e-04  4.18e-04 -7.33e-03  1.38e-03 -6.02e-03 -1.30e-03
## 98563  -7.97e-03 -1.72e-04  1.93e-03 -1.20e-02  8.05e-03 -1.58e-02  1.45e-02
## 113205  1.51e-03 -5.16e-04  4.29e-04  4.11e-03 -1.56e-03  5.50e-03 -2.26e-03
## 38685   1.40e-03  3.59e-03 -4.31e-03  1.07e-03 -1.40e-03 -4.38e-04 -4.67e-03
## 104063 -1.56e-02 -1.91e-02  2.16e-02 -4.23e-02  1.58e-02 -3.31e-02  1.73e-02
## 75366   6.92e-03 -3.15e-03  4.06e-03  3.58e-02 -7.21e-03  3.64e-02  8.33e-03
## 543    -1.41e-02  5.50e-03 -6.42e-03 -1.67e-03  1.41e-02 -6.14e-03  6.55e-03
## 64153   9.57e-04 -9.31e-04  9.45e-04 -1.82e-03 -9.48e-04 -8.63e-04  8.08e-03
## 117083 -2.44e-02 -8.52e-03  6.92e-03 -5.34e-02  2.47e-02 -3.28e-02 -3.41e-02
## 94834   7.65e-04 -4.27e-04  2.36e-04 -1.29e-03 -7.52e-04 -9.74e-04 -2.76e-03
## 27446   4.74e-04  4.05e-04  8.39e-04 -3.21e-03 -4.52e-04 -2.17e-03  9.17e-03
## 55893   1.44e-03 -5.78e-03  5.47e-03 -2.48e-04 -1.45e-03  5.39e-03 -1.78e-03
## 117611  1.66e-04 -1.29e-03  1.20e-03 -5.10e-03 -1.18e-04 -4.61e-03  5.24e-03
## 31870   7.60e-04  2.92e-02 -2.75e-02  2.46e-02 -1.04e-03  1.79e-02  8.15e-03
## 81039   1.09e-03 -2.11e-03  1.90e-03  1.54e-03 -1.12e-03  3.81e-03  6.47e-03
## 41474  -2.26e-04  1.09e-03  3.05e-04 -2.55e-03  2.33e-04 -1.80e-03 -1.10e-03
## 39222   2.27e-03 -1.67e-02  1.51e-02 -3.07e-03 -2.22e-03  2.62e-03 -5.60e-03
## 35350   1.07e-02 -5.59e-03  8.55e-03  2.33e-02 -1.09e-02  1.39e-02 -9.76e-03
## 48318   5.09e-04 -1.78e-03  1.75e-03 -5.26e-04 -5.06e-04  2.07e-03 -1.59e-03
## 39268   8.06e-04 -7.56e-03  6.71e-03 -7.49e-03 -7.31e-04 -4.08e-03 -4.64e-03
## 112741  2.87e-03  6.89e-04 -1.51e-04  6.32e-03 -2.92e-03  7.19e-03 -2.99e-03
## 59289   1.42e-03  2.68e-02 -3.32e-02  2.25e-02 -1.61e-03  2.18e-02  9.16e-03
## 122007  2.16e-03 -9.96e-03  1.26e-02  4.07e-03 -2.20e-03  6.94e-03 -2.20e-03
## 96372  -1.02e-03  5.82e-03 -3.99e-03 -2.41e-02  1.26e-03 -2.56e-02  3.05e-02
## 14598   3.19e-04  1.17e-02 -1.62e-02  2.20e-02 -5.42e-04  2.72e-02  1.21e-02
## 65819  -2.79e-04  1.75e-02 -1.65e-02  1.40e-02  9.37e-05  2.11e-02  8.58e-03
## 79695   2.13e-03 -6.96e-03  1.05e-02 -1.69e-03 -2.11e-03  8.84e-05  1.61e-02
## 106250 -1.18e-03 -1.48e-02  1.74e-02  8.74e-03  1.07e-03  2.09e-02  1.48e-02
## 38570   3.57e-03  2.84e-02 -2.75e-02  1.06e-02 -3.67e-03  6.45e-03 -2.58e-03
## 33607  -1.39e-02  2.59e-02 -2.26e-02 -1.77e-02  1.39e-02 -1.13e-02 -2.62e-02
## 48304  -2.00e-06 -1.61e-03  1.34e-03 -1.70e-03  1.34e-05 -6.86e-04 -1.11e-03
## 20104   2.04e-03 -6.91e-04 -2.91e-04  3.35e-03 -2.07e-03  3.88e-03  5.21e-03
## 19227  -9.93e-03  1.66e-04 -1.43e-04 -1.61e-02  1.01e-02 -2.00e-02  1.65e-02
## 126984 -2.33e-02  1.40e-02 -1.36e-02  3.34e-02  2.29e-02  3.53e-02 -3.33e-02
## 3777   -1.49e-02 -8.81e-04  9.90e-04 -2.74e-03  1.49e-02 -1.45e-03 -2.51e-03
## 94613   1.84e-03 -3.15e-03  2.34e-03  4.90e-03 -1.88e-03  8.22e-03 -2.06e-03
## 75702   2.30e-04 -5.88e-04  4.41e-04 -6.08e-05 -2.32e-04  5.69e-04 -8.15e-04
## 42903   1.03e-02  4.72e-03 -5.75e-03  3.65e-02 -1.05e-02  3.12e-02 -7.49e-03
## 12617  -3.74e-03 -2.59e-04  3.99e-04 -1.38e-03  3.74e-03 -1.16e-03 -8.97e-04
## 16800  -9.02e-03  1.73e-02 -1.61e-02 -2.01e-02  9.09e-03 -1.99e-02  8.09e-03
```

```
## 80273   3.24e-05 -1.48e-03  1.40e-03 -4.25e-03 -8.65e-06 -2.58e-03  8.73e-03
## 27860   1.30e-03 -3.95e-04  9.11e-05  1.04e-03 -1.30e-03  2.43e-03 -3.32e-03
## 37859   4.24e-03 -1.60e-02  1.50e-02  6.65e-03 -4.26e-03  1.43e-02 -4.05e-03
## 65144  -3.37e-03 -7.88e-03  8.99e-03  3.02e-03  3.31e-03  8.08e-03  1.29e-02
## 107608  2.00e-03 -1.57e-02  1.53e-02 -4.74e-03 -1.95e-03  3.02e-03  1.53e-02
## 1680    7.88e-02  1.39e-02 -2.44e-02 -2.09e-02 -7.84e-02 -3.76e-02  1.46e-04
## 127935  8.32e-03 -7.82e-05  4.63e-04 -2.42e-03 -8.29e-03 -2.25e-04 -1.55e-03
## 7231   -6.65e-03 -3.03e-04  4.04e-04  1.18e-03  6.62e-03  1.67e-03 -1.59e-03
## 65966   2.21e-03  2.54e-03 -2.96e-03  3.41e-03 -2.23e-03  1.70e-03 -4.48e-03
## 55764  -1.82e-03  2.71e-02 -3.16e-02 -3.96e-04  1.81e-03  3.32e-04  3.67e-03
## 22023   9.25e-04  9.37e-04 -8.61e-04 -5.42e-03 -8.66e-04 -9.97e-03 -6.64e-03
## 43214  -1.48e-02  4.86e-03 -5.51e-03 -3.67e-02  1.50e-02 -2.77e-02  1.79e-02
## 11924  -2.66e-02 -1.60e-03  1.32e-03  1.38e-03  2.66e-02 -1.65e-03 -7.41e-03
## 56750  -1.16e-03  3.40e-03 -3.90e-03 -1.35e-02  1.27e-03 -1.32e-02 -4.39e-03
## 83171   4.23e-03  3.61e-03 -3.84e-03  3.63e-03 -4.23e-03  1.17e-03  1.48e-02
## 109524  3.00e-04  3.03e-03 -4.09e-03 -7.14e-03 -2.12e-04 -9.58e-03 -6.15e-03
## 110468  2.94e-03 -2.54e-02  2.40e-02 -9.04e-04 -2.89e-03  8.92e-03 -4.19e-03
## 45121  -9.88e-03 -7.63e-03  6.46e-03 -1.72e-02  9.93e-03 -1.96e-02  8.24e-03
## 38475   4.17e-03 -9.99e-03  9.56e-03  9.53e-03 -4.24e-03  1.65e-02 -1.99e-03
## 64374   1.10e-03 -1.01e-03  8.56e-04  2.75e-03 -1.12e-03  4.29e-03 -1.16e-03
## 26248   5.31e-03  1.09e-02 -1.06e-02  1.14e-02 -5.39e-03  9.25e-03 -4.76e-03
## 36206   3.32e-04 -1.48e-03  1.40e-03 -3.57e-03 -3.12e-04 -1.68e-03  1.03e-02
## 113193  8.83e-04  7.14e-03 -1.00e-02  1.84e-02 -1.08e-03  2.33e-02  1.03e-02
## 100500  9.60e-04  2.80e-03 -3.44e-03 -7.28e-03 -8.82e-04 -8.56e-03  1.72e-02
## 46515  -2.18e-03 -2.05e-03  2.77e-03 -1.30e-02  2.27e-03 -1.53e-02 -4.19e-03
## 113380 -2.60e-05  8.31e-04 -1.35e-03 -6.01e-03  7.55e-05 -7.41e-03 -4.58e-03
## 85531   1.69e-03  2.94e-02 -2.72e-02 -4.33e-03 -1.63e-03 -1.67e-02 -7.02e-03
## 72383   1.99e-03  2.14e-04 -6.31e-04  4.29e-03 -2.02e-03  4.78e-03 -2.89e-03
## 64685   3.78e-03  2.01e-02 -2.01e-02  7.13e-03 -3.83e-03  1.73e-03 -5.43e-03
## 14905   1.75e-03  1.15e-02 -1.11e-02  5.92e-03 -1.80e-03  4.00e-03 -8.89e-04
## 17582   1.72e-03  8.77e-03 -8.61e-03  2.27e-03 -1.74e-03  3.04e-03 -2.15e-03
## 13149  -2.21e-02 -8.39e-03  7.98e-03 -1.17e-02  2.21e-02 -7.33e-03  1.41e-02
## 26864  -5.68e-04 -2.28e-02  2.11e-02 -1.65e-02  7.30e-04 -1.14e-02 -5.90e-03
## 92468   3.82e-03  1.49e-02 -1.40e-02  3.37e-02 -4.15e-03  3.53e-02  8.57e-03
## 82919   6.74e-03 -2.58e-03 -1.45e-03  4.10e-02 -6.98e-03  3.48e-02  9.27e-03
## 9317    8.75e-02 -3.27e-04  3.73e-03  2.09e-02 -8.76e-02  3.08e-02  3.58e-02
## 26441  -1.18e-04 -1.69e-03  1.01e-03 -4.34e-03  1.50e-04 -3.39e-03 -2.86e-03
## 101258  5.18e-04  3.45e-04 -7.42e-05  6.72e-04 -5.26e-04  1.31e-03 -7.29e-04
## 119520  1.08e-03  5.37e-03 -6.72e-03 -3.60e-03 -1.03e-03 -9.09e-03 -7.63e-03
## 128292  1.74e-02  2.43e-03 -1.73e-03 -2.57e-03 -1.74e-02 -3.51e-03 -2.94e-03
## 98917   1.39e-03 -5.49e-04 -1.66e-05  1.98e-03 -1.41e-03  2.44e-03 -3.02e-03
## 89878   2.63e-03  6.76e-04 -7.67e-04  7.21e-03 -2.69e-03  8.76e-03 -2.74e-03
## 99519   1.78e-04 -5.97e-04  5.37e-04 -1.93e-03 -1.69e-04 -6.88e-04 -2.17e-03
## 79193   3.22e-03  1.96e-03 -2.09e-03  6.76e-03 -3.26e-03  5.17e-03 -4.71e-03
## 36179  -2.84e-03 -7.00e-03  7.64e-03 -1.97e-03  2.86e-03  7.08e-04  9.46e-03
## 34869   7.70e-03  4.36e-03 -3.36e-03  2.06e-02 -7.86e-03  1.69e-02  2.69e-02
## 120880  2.59e-03 -1.16e-03  5.62e-04  1.39e-03 -2.59e-03 -2.64e-03 -7.62e-03
## 3945    8.42e-02  3.45e-03 -2.15e-03 -2.01e-02 -8.38e-02 -2.63e-02  2.17e-02
## 25612   2.38e-03  9.17e-06  5.76e-04  2.05e-03 -2.38e-03  6.19e-04 -4.44e-03
## 62555  -6.76e-03 -1.12e-02  1.43e-02  6.93e-04  6.68e-03  1.04e-02  1.98e-02
## 96499   2.56e-03  4.84e-04 -1.44e-03  6.82e-03 -2.61e-03  8.22e-03 -3.60e-03
## 68907  -9.43e-03  2.99e-02 -2.77e-02 -1.29e-02  9.54e-03 -2.28e-02 -4.39e-02
## 44865   1.25e-03  1.55e-03 -3.53e-04  4.98e-03 -1.31e-03  7.93e-03 -1.53e-04
## 107885  8.31e-03  1.16e-02 -1.01e-02  2.18e-02 -8.44e-03  1.82e-02 -5.05e-03
## 65539   7.52e-03 -8.65e-05  3.74e-04  4.06e-02 -7.81e-03  4.08e-02  1.06e-02
## 22135   1.05e-02 -1.15e-02  1.02e-02  2.62e-02 -1.07e-02  2.75e-02 -8.34e-03
## 63814   1.60e-03  2.61e-05 -4.49e-04  1.81e-03 -1.60e-03  1.96e-03 -3.04e-03
## 7925   -1.45e-02 -6.91e-03  6.41e-03 -1.91e-04  1.44e-02  4.45e-03 -2.40e-03
## 127120  1.47e-02  5.58e-04 -4.14e-04  5.70e-03 -1.47e-02  7.11e-03 -2.90e-03
## 48872   4.50e-05  1.51e-04  3.11e-05 -1.27e-03 -3.64e-05 -7.59e-04 -7.10e-04
## 59892  -2.71e-03 -3.28e-02  3.09e-02 -2.75e-02  2.93e-03 -1.73e-02  2.85e-02
## 47432   3.41e-03 -2.52e-04  1.75e-03  4.18e-02 -3.72e-03  4.19e-02 -5.24e-02
## 107597 -5.22e-04 -8.95e-04  8.37e-04 -6.18e-03  5.74e-04 -5.62e-03 -2.45e-03
## 49679  -8.71e-04 -1.41e-03  1.15e-03 -8.58e-03  9.38e-04 -7.48e-03 -3.43e-03
## 130572  1.39e-02  4.97e-04 -1.41e-04  4.49e-05 -1.39e-02  2.46e-03 -1.50e-03
## 11505   7.72e-02 -3.87e-02  3.60e-02  2.10e-02 -7.71e-02  2.19e-02  4.33e-03
## 64104   7.58e-04 -7.91e-04  6.86e-04  1.61e-03 -7.78e-04  2.94e-03 -1.09e-03
## 123942  2.05e-02 -2.63e-02  2.31e-02 -3.40e-02 -2.01e-02 -3.39e-02 -9.64e-03
## 102586  5.85e-03  8.88e-03 -8.21e-03  9.98e-03 -5.90e-03  5.76e-03 -6.27e-03
## 10559   8.21e-02 -5.82e-03  8.62e-03  2.57e-02 -8.22e-02  3.52e-02  2.70e-02
## 54649   5.72e-03  6.42e-03 -6.98e-03  9.62e-03 -5.76e-03  6.37e-03  1.43e-02
## 99210  -1.75e-03 -2.34e-03  4.64e-03 -1.19e-02  1.84e-03 -1.16e-02 -2.37e-03
## 117791  5.57e-04 -4.54e-05  1.48e-04  6.35e-04 -5.63e-04  1.17e-03 -8.66e-04
## 69785   1.15e-03 -2.27e-03  3.95e-03 -4.70e-03 -1.11e-03 -3.57e-03  1.99e-02
## 78677   8.22e-04  2.24e-03 -8.09e-04  3.40e-03 -8.69e-04  6.30e-03  1.62e-04
## 2689    7.00e-02  4.13e-02 -4.91e-02  1.62e-02 -7.00e-02  8.93e-03 -4.93e-02
## 62956   4.14e-03  1.57e-02 -1.46e-02  1.02e-02 -4.21e-03  8.26e-03 -2.96e-03
## 93611   1.87e-03  1.83e-04 -3.01e-04  3.23e-03 -1.90e-03  4.50e-03 -3.02e-03
## 105004 -4.89e-04  1.74e-03 -6.69e-04 -5.28e-03  5.28e-04 -5.33e-03 -1.57e-03
## 61827  -4.05e-04 -8.83e-05  1.28e-03 -5.25e-03  4.23e-04 -3.02e-03  1.30e-02
## 93612   1.00e-03  1.75e-03 -2.68e-03 -2.06e-03 -9.76e-04 -3.76e-03 -5.12e-03
## 49949  -1.42e-03 -1.49e-03  1.38e-03 -7.80e-03  1.47e-03 -5.97e-03 -1.79e-03
## 106706  1.77e-03  8.91e-03 -1.04e-02 -2.12e-03 -1.73e-03 -9.29e-03 -7.93e-03
## 23244   2.24e-03 -2.83e-04 -2.60e-04  7.50e-03 -2.32e-03  9.75e-03 -2.69e-03
## 95078   2.06e-03  3.14e-02 -2.81e-02 -7.15e-03 -2.00e-03 -1.89e-02  2.92e-02
## 12488  -4.67e-03 -2.54e-04  1.37e-04  9.35e-04  4.65e-03  1.18e-03 -1.49e-03
## 97480  -4.07e-04 -3.35e-04  1.94e-03 -8.94e-03  5.00e-04 -9.63e-03 -3.85e-03
## 69308  -1.30e-04  2.02e-03 -2.15e-03 -6.80e-03  2.00e-04 -8.17e-03 -4.70e-03
## 1194   -2.16e-02  2.14e-02 -2.42e-02  1.40e-02  2.15e-02 -1.58e-03 -1.48e-02
## 117305  9.22e-04  1.15e-03 -2.29e-03 -5.32e-03 -8.81e-04 -6.54e-03  1.16e-02
## 22230   9.30e-03 -9.05e-03  1.12e-02  3.16e-02 -9.54e-03  3.09e-02 -4.44e-03
## 105510 -3.80e-05  3.13e-04 -1.04e-04 -1.26e-03  4.60e-05 -7.14e-04 -5.94e-04
## 61030  -5.97e-03 -2.04e-02  2.22e-02 -1.29e-02  6.03e-03  1.42e-05  1.28e-02
## 646    -1.24e-02 -4.95e-04  8.68e-04 -7.76e-04  1.23e-02 -7.88e-05 -2.64e-03
## 80191   4.34e-03  8.06e-03 -6.07e-03  7.46e-03 -4.36e-03  1.66e-03 -4.45e-03
## 90750   3.05e-04 -5.72e-04  4.11e-04 -2.79e-03 -2.78e-04 -2.56e-03 -2.60e-03
## 72330  -5.39e-04  6.36e-04 -7.16e-04 -5.96e-03  5.83e-04 -6.38e-03 -3.53e-03
## 6322   -7.48e-04 -6.82e-05  9.38e-05 -1.81e-04  7.47e-04 -2.04e-05 -8.77e-05
```

```
## 121358  1.58e-03  5.44e-05 -6.01e-04  2.58e-03 -1.59e-03  3.13e-03 -2.91e-03
## 75067   2.82e-04 -2.84e-04  2.88e-04 -7.65e-05 -2.81e-04  3.34e-04 -6.90e-04
## 104859  2.65e-03  3.83e-03 -4.40e-03  1.51e-03 -2.64e-03 -1.57e-03 -6.20e-03
## 105910  3.69e-03 -1.12e-03  1.13e-04  2.43e-02 -3.88e-03  2.45e-02  8.64e-03
## 114469  4.31e-03  1.42e-02 -1.55e-02  6.62e-03 -4.32e-03 -2.93e-03 -8.84e-03
## 61677   9.21e-04  2.86e-04  1.06e-03  1.79e-03 -9.44e-04  4.23e-03 -1.28e-03
## 98245   3.46e-04 -2.03e-02  1.91e-02 -7.20e-03 -2.74e-04 -4.50e-04 -2.88e-03
## 93588  -5.68e-04 -9.39e-05  5.63e-04 -8.14e-03  6.40e-04 -7.51e-03 -3.05e-03
## 101308 -8.23e-03 -1.76e-02  1.99e-02  1.31e-02  7.99e-03  4.28e-02 -2.58e-02
## 54083   2.73e-03 -4.15e-03  5.67e-03  5.20e-03 -2.78e-03  5.68e-03 -3.29e-03
## 98715  -1.42e-03  4.50e-02 -4.21e-02  2.64e-02  1.09e-03  1.75e-02  1.29e-02
## 100759  8.00e-04 -1.08e-03  2.42e-04 -1.25e-03 -7.87e-04 -7.17e-04 -3.19e-03
## 86953   2.23e-03 -5.32e-03  8.10e-03 -8.25e-04 -2.22e-03  4.84e-04  1.57e-02
## 25451   5.34e-03  6.55e-04 -1.32e-03  9.09e-03 -5.40e-03  7.43e-03  1.19e-02
## 39733   3.25e-03  9.51e-03 -1.16e-02 -1.09e-03 -3.22e-03 -8.27e-03  1.13e-02
## 47439  -5.17e-04 -2.88e-03  5.15e-03 -8.53e-03  5.61e-04 -6.83e-03  1.86e-02
## 125939 -5.14e-02  1.88e-02 -1.57e-02 -1.86e-02  5.14e-02 -3.47e-02  1.15e-02
## 26789  -5.61e-03  2.96e-03 -4.59e-03 -2.68e-04  5.52e-03  8.43e-03  1.51e-02
## 16045  -1.01e-02 -1.85e-02  2.13e-02 -1.49e-02  1.01e-02 -4.40e-03  1.86e-02
## 87267   4.96e-03  4.66e-03 -5.71e-03  9.21e-03 -4.99e-03  5.34e-03 -7.63e-03
## 85045  -1.82e-03 -2.55e-04  5.93e-04 -9.08e-03  1.87e-03 -7.14e-03 -2.30e-03
## 105502  3.19e-03 -3.49e-04  1.05e-03  5.39e-03 -3.23e-03  7.26e-03  1.39e-02
## 49563   1.09e-03 -9.21e-04  9.74e-04  2.24e-03 -1.12e-03  4.03e-03  5.46e-03
## 61074  -1.20e-03  1.15e-02 -1.67e-02  1.73e-02  1.07e-03  1.85e-02 -5.10e-02
## 8440   -3.12e-02  1.98e-02 -1.76e-02 -7.14e-04  3.11e-02 -4.69e-03 -2.22e-03
## 64892  -1.31e-02 -4.66e-02  4.99e-02 -2.00e-02  1.31e-02  8.74e-03 -3.08e-02
## 74319   3.01e-03  8.47e-03 -9.10e-03 -8.31e-04 -2.96e-03 -1.24e-02 -1.02e-02
## 57831  -7.24e-04 -3.85e-03  6.08e-03 -7.66e-03  7.73e-04 -6.92e-03 -2.37e-03
## 71564  -9.07e-04  1.78e-02 -2.00e-02 -1.72e-02  1.09e-03 -3.68e-02 -1.37e-02
## 45636  -9.45e-03  2.84e-02 -2.64e-02  2.93e-03  9.28e-03  8.39e-03 -2.77e-02
## 89683   1.18e-03 -2.47e-02  2.91e-02 -1.05e-03 -1.17e-03  3.87e-03 -1.83e-03
## 52351  -1.15e-02 -1.18e-04 -1.67e-04 -2.87e-02  1.17e-02 -2.82e-02  8.44e-03
## 62019  -1.70e-05  7.38e-04 -3.55e-04 -1.52e-03  1.92e-05 -6.29e-04  4.09e-03
## 119726  2.46e-03 -1.27e-03  8.20e-04  5.87e-03 -2.50e-03  7.41e-03 -2.51e-03
## 67787   1.33e-03 -1.64e-02  1.56e-02 -7.93e-05 -1.33e-03  8.73e-03 -1.41e-03
## 55909   1.22e-03  3.78e-03 -4.58e-03 -4.94e-03 -1.15e-03 -8.22e-03 -6.32e-03
## 66239   5.52e-04 -8.64e-02  8.12e-02  8.33e-03 -5.80e-04  3.08e-02  5.06e-03
## 48956  -3.55e-03 -9.07e-03  8.75e-03 -2.35e-02  3.75e-03 -1.78e-02 -2.44e-03
## 52861   8.25e-03 -2.10e-02  2.06e-02  1.89e-02 -8.33e-03  1.44e-02 -7.14e-03
## 27165   1.95e-03  7.92e-03 -7.92e-03 -2.50e-03 -1.91e-03 -4.08e-03 -4.85e-03
## 64090  -6.81e-03 -4.61e-02  4.91e-02  4.16e-03  6.64e-03  3.68e-02 -2.58e-02
## 102990  2.34e-03 -1.02e-02  9.43e-03  1.87e-03 -2.35e-03  8.02e-03 -2.90e-03
## 103996  2.86e-03 -6.40e-04  5.19e-04  4.63e-03 -2.89e-03  7.98e-03 -2.52e-03
## 69887   2.39e-03  2.62e-02 -2.54e-02  8.10e-03 -2.47e-03  3.36e-03 -1.88e-03
## 47301   1.87e-03 -1.37e-02  1.72e-02  4.60e-03 -1.91e-03  6.59e-03 -1.93e-03
## 69230  -9.65e-04 -8.85e-05  4.57e-04 -6.31e-03  1.01e-03 -5.30e-03 -1.79e-03
## 43126   2.37e-03  4.75e-03 -5.07e-03  2.79e-03 -2.39e-03  3.42e-03 -3.36e-03
## 33570  -3.12e-03  1.52e-02 -1.86e-02  1.90e-03  3.04e-03  8.88e-03  5.25e-03
## 28919   9.27e-03 -3.09e-02  3.37e-02  2.69e-02 -9.47e-03  2.77e-02 -6.30e-03
## 56683   1.76e-04 -1.10e-03  6.13e-04 -2.93e-03 -1.52e-04 -9.80e-04 -2.91e-03
## 25635  -2.58e-03  1.18e-02 -1.14e-02  1.00e-02  2.56e-03 -3.08e-03 -5.44e-02
## 102788  1.95e-03  2.04e-05  5.25e-04  3.97e-03 -1.99e-03  4.57e-03 -2.26e-03
## 42153   1.57e-03  3.53e-03 -4.78e-03 -8.60e-04 -1.55e-03 -3.56e-03 -5.55e-03
## 65758   2.58e-03 -1.76e-04 -6.95e-04  4.83e-03 -2.63e-03  5.85e-03  9.18e-03
## 127024 -3.68e-02 -5.08e-03  2.37e-03  2.78e-02  3.64e-02  3.45e-02  1.30e-02
## 73627  -1.30e-02 -1.12e-03  5.29e-03 -1.34e-02  1.30e-02 -1.17e-02  2.42e-02
## 23833  -5.37e-03  7.42e-03 -9.15e-03 -1.13e-02  5.43e-03 -5.86e-03  4.84e-03
## 98196   1.48e-03  2.27e-04 -7.62e-04 -1.82e-03 -1.45e-03 -3.77e-03 -5.42e-03
## 65693   3.28e-05 -8.94e-04  6.20e-04 -2.06e-03 -3.12e-05 -5.16e-04 -2.09e-03
## 79629  -7.00e-04  9.73e-04 -1.80e-03 -9.49e-03  7.84e-04 -1.12e-02 -4.87e-03
## 87435  -5.41e-03 -2.94e-02  3.26e-02  4.25e-03  5.30e-03  2.57e-02 -3.30e-02
## 26406   1.04e-03 -1.43e-04  1.04e-03  3.30e-03 -1.08e-03  6.16e-03 -1.31e-03
## 44833   1.83e-03  5.61e-04  5.27e-04  2.47e-03 -1.85e-03  3.53e-03 -2.45e-03
## 51192  -1.03e-02 -8.27e-04  2.22e-03 -2.72e-02  1.05e-02 -3.29e-02  1.27e-02
## 69914   2.06e-03  1.30e-02 -1.46e-02 -5.20e-04 -2.01e-03 -8.87e-03 -8.52e-03
## 9113    6.28e-02 -3.87e-02  4.20e-02 -1.88e-02 -6.27e-02  1.32e-02  2.97e-02
## 12498   9.35e-02  1.83e-02 -1.67e-02 -9.34e-03 -9.32e-02 -2.86e-02  2.15e-02
## 42604   4.32e-04  6.68e-04 -6.95e-04 -9.22e-03 -3.38e-04 -1.07e-02  1.03e-02
## 98375   3.43e-05  1.10e-03 -5.41e-04  4.29e-06 -4.79e-05  1.40e-03 -2.80e-04
## 127598  8.69e-03 -2.76e-03  2.01e-03 -6.07e-03 -8.64e-03 -4.40e-03  1.08e-02
## 55948   1.94e-03  1.53e-03 -2.85e-03  2.18e-02 -2.08e-03  1.57e-02  9.45e-03
## 106752  2.03e-03 -2.08e-04  6.98e-04 -3.11e-04 -2.01e-03 -1.84e-03 -5.42e-03
## 103776  8.85e-04  4.17e-03 -4.97e-03 -2.13e-03 -8.60e-04 -4.21e-03 -4.85e-03
## 84445   1.08e-03 -9.95e-04  8.04e-04 -1.53e-03 -1.07e-03 -8.99e-04  6.72e-03
## 113137  1.40e-03 -1.69e-02  1.54e-02 -6.19e-03 -1.32e-03 -1.87e-03 -5.53e-03
## 18808  -7.97e-04 -3.02e-04  7.52e-04 -6.62e-03  8.42e-04 -4.96e-03 -2.34e-03
## 80573   1.13e-03  1.21e-04  4.93e-04  2.33e-03 -1.16e-03  4.59e-03 -1.83e-03
## 80964  -1.06e-04 -4.34e-04  1.30e-03 -3.75e-03  1.34e-04 -3.28e-03 -3.15e-03
## 114299  1.04e-03 -9.06e-04  6.52e-04  2.44e-03 -1.06e-03  3.52e-03 -1.27e-03
## 84673   4.35e-03  4.18e-03 -4.51e-03  8.30e-03 -4.41e-03  8.46e-03 -4.67e-03
## 69849   8.45e-04  5.64e-03 -5.60e-03  2.57e-03 -8.92e-04  5.74e-03 -1.77e-04
## 30346   1.46e-04 -5.57e-04  4.92e-04 -3.72e-03 -1.14e-04 -3.38e-03 -2.61e-03
## 110406 -1.44e-02 -1.94e-03  7.38e-03 -3.15e-02  1.46e-02 -3.28e-02  2.14e-02
## 115270  3.85e-04  2.82e-03 -3.51e-03 -7.29e-03 -2.95e-04 -9.79e-03 -6.00e-03
## 70810   2.16e-03  4.33e-04 -5.47e-04  6.67e-03 -2.22e-03  8.87e-03 -2.37e-03
## 87713   1.80e-03 -5.16e-04  2.71e-04  3.56e-03 -1.84e-03  3.85e-03 -2.88e-03
## 11923   5.21e-02  9.22e-03 -1.05e-02 -3.25e-02 -5.18e-02 -3.53e-02  1.01e-02
## 47367  -5.18e-04  2.52e-04 -1.22e-03 -1.30e-02  6.32e-04 -1.37e-02  1.59e-02
## 18815  -1.94e-03  5.05e-02 -4.33e-02  2.46e-02  1.68e-03  9.26e-03  1.80e-02
## 65997   4.25e-05 -3.62e-04  3.41e-04 -8.21e-04 -3.53e-05 -4.59e-04 -5.76e-04
## 40266   1.91e-03  6.02e-03 -7.85e-03 -3.66e-03 -1.84e-03 -1.08e-02 -9.99e-03
## 11065  -4.24e-03 -5.43e-04  6.35e-04 -6.45e-04  4.24e-03 -2.13e-04  2.66e-03
## 97605   5.20e-04 -3.64e-04  3.67e-04  7.64e-04 -5.31e-04  1.74e-03 -9.52e-04
## 116089  6.62e-04  1.86e-03 -2.17e-03 -2.30e-03 -6.46e-04 -3.61e-03 -4.04e-03
## 119379  1.17e-03 -1.78e-04  1.35e-03  2.23e-03 -1.20e-03  3.51e-03 -1.42e-03
## 58213  -1.69e-02 -2.34e-03  5.87e-03 -2.94e-02  1.70e-02 -2.85e-02  2.62e-02
## 90153  -1.52e-03  1.64e-03 -3.14e-03 -1.27e-02  1.64e-03 -1.42e-02 -5.76e-03
## 11863  -2.41e-02 -6.45e-03  6.36e-03 -9.13e-03  2.42e-02 -5.40e-03 -3.32e-03
```

```
## 38480   3.32e-03  9.11e-04 -1.58e-03 -1.12e-03 -3.30e-03 -6.83e-04  1.36e-02
## 13376  -2.04e-02 -9.49e-03  9.00e-03  1.06e-03  2.04e-02  5.23e-03 -4.32e-03
## 6296   -6.76e-03 -1.08e-03  7.90e-04 -3.00e-03  6.77e-03 -2.45e-03 -1.65e-03
## 3621   -1.22e-02  5.94e-03 -5.51e-03 -3.13e-05  1.22e-02  5.19e-04 -1.75e-03
## 83905  -1.06e-03 -2.92e-03  1.73e-03 -6.38e-03  1.09e-03 -3.49e-03 -2.70e-03
## 13679  -2.21e-02 -2.04e-03  3.04e-03 -1.32e-02  2.22e-02 -1.29e-02 -3.62e-03
## 70158  -1.10e-03 -2.90e-02  2.57e-02  9.91e-03  9.98e-04  2.35e-02  6.68e-03
## 106881  7.03e-03 -1.61e-02  1.39e-02  1.26e-02 -7.09e-03  1.51e-02 -8.52e-03
## 17986  -1.32e-02 -4.13e-04  1.37e-03 -2.44e-02  1.33e-02 -2.73e-02  1.30e-02
## 127768  4.69e-03 -8.16e-04  4.41e-04  3.13e-03 -4.71e-03  3.95e-03 -1.66e-03
## 116420 -1.89e-02 -2.77e-02  3.07e-02 -4.93e-02  1.92e-02 -2.87e-02  2.27e-02
## 29491   3.96e-04 -7.03e-05  1.46e-04  2.81e-04 -4.00e-04  6.17e-04  1.56e-03
## 16722  -1.58e-02  8.01e-03 -9.86e-03 -3.81e-02  1.60e-02 -3.60e-02 -3.87e-02
## 57778   1.14e-03  2.03e-04 -5.10e-05 -6.85e-03 -1.08e-03 -7.69e-03  1.71e-02
## 120906  4.44e-04 -4.06e-04  3.14e-04 -2.93e-03 -4.13e-04 -3.03e-03 -2.69e-03
## 58441   1.73e-04 -6.86e-05  6.66e-05  2.48e-04 -1.75e-04  3.48e-04  4.23e-04
## 38727   1.51e-03 -1.35e-04 -2.94e-04  2.98e-03 -1.54e-03  3.88e-03 -2.65e-03
## 106943  1.63e-03 -2.89e-03  2.57e-03 -7.33e-04 -1.62e-03  3.02e-03 -2.69e-03
## 65658  -7.48e-03  1.20e-02 -1.42e-02 -1.56e-02  7.61e-03 -1.14e-02  1.16e-02
## 49559   1.49e-03 -1.27e-04 -1.37e-04  1.94e-03 -1.50e-03  2.37e-03 -2.82e-03
## 127459  1.50e-02  5.85e-03 -6.00e-03 -1.21e-02 -1.48e-02 -1.19e-02 -3.29e-03
## 56222   5.35e-03  1.05e-02 -1.26e-02  1.54e-02 -5.47e-03  8.70e-03 -8.21e-03
## 68645   1.66e-03  1.15e-02 -1.09e-02 -1.21e-03 -1.65e-03 -2.62e-03 -3.30e-03
## 115735  2.62e-03  5.09e-04 -7.35e-04  7.48e-03 -2.69e-03  9.12e-03 -2.77e-03
## 128594  1.01e-02  7.69e-04 -1.46e-04  1.19e-04 -1.01e-02  9.83e-04 -1.97e-03
## 21526   1.71e-03 -3.06e-04 -4.76e-04  2.51e-03 -1.73e-03  2.45e-03 -3.33e-03
## 71520   6.51e-04 -9.50e-04  9.50e-04 -3.37e-03 -6.18e-04 -2.74e-03  6.41e-03
## 85892   5.26e-04 -3.43e-04  4.07e-04 -2.62e-03 -5.02e-04 -1.29e-03 -2.87e-03
## 92135   1.14e-03  2.95e-03 -3.13e-03  2.16e-02 -1.28e-03  1.61e-02  1.26e-02
## 107818  2.66e-04  8.97e-04 -6.16e-04  7.60e-04 -2.79e-04  1.02e-03 -3.51e-04
## 124488 -2.30e-02  9.86e-03 -8.87e-03  1.55e-02  2.28e-02  1.06e-02  4.79e-04
## 57213   6.79e-03  1.60e-02 -1.67e-02  1.37e-02 -6.83e-03 -1.12e-03 -1.13e-02
## 123230  1.85e-02  9.04e-03 -1.03e-02 -1.10e-02 -1.83e-02 -1.93e-02 -8.75e-03
## 103866  3.28e-03  2.05e-02 -1.98e-02  1.00e-02 -3.37e-03  7.41e-03 -1.85e-03
## 111461 -1.44e-02 -2.66e-03  3.66e-03 -2.93e-02  1.47e-02 -3.05e-02  1.86e-02
## 108702  4.58e-03  1.03e-02 -7.30e-03  4.37e-02 -4.95e-03  3.79e-02  1.89e-02
## 56067  -3.42e-04  3.16e-02 -2.85e-02  2.50e-02  4.75e-05  2.45e-02  1.30e-02
## 69070   1.41e-03 -1.49e-02  1.35e-02 -1.17e-02 -1.26e-03 -1.34e-02 -8.45e-03
## 72808   1.46e-03 -2.29e-03  1.79e-03  2.14e-03 -1.47e-03  4.07e-03 -2.37e-03
## 97857   6.46e-04 -9.19e-05  3.59e-04 -2.25e-03 -6.26e-04 -1.05e-03 -2.81e-03
## 20842   1.32e-03 -2.40e-03  1.23e-03 -2.28e-03 -1.30e-03 -1.67e-03  6.05e-03
## 66851   1.37e-03  3.64e-02 -3.52e-02 -2.67e-03 -1.35e-03 -1.41e-02 -5.97e-03
## 62179  -1.87e-03  2.10e-03 -3.21e-03 -1.34e-02  1.98e-03 -1.49e-02 -4.83e-03
## 58179  -9.23e-04  1.10e-04  6.16e-04 -4.76e-03  9.39e-04 -3.01e-03 -1.05e-03
## 39998   4.42e-03  5.72e-03 -7.31e-03  9.38e-03 -4.47e-03  5.44e-03 -6.58e-03
## 117751  2.00e-04 -8.58e-03  8.32e-03 -1.02e-02 -8.28e-05 -5.07e-03 -3.70e-03
## 1108   -1.45e-03 -2.31e-04 -2.54e-04 -9.89e-05  1.45e-03 -6.31e-04 -3.43e-05
## 46886  -1.51e-03  1.93e-02 -2.71e-02  2.95e-03  1.54e-03 -4.40e-03  5.15e-03
## 34764  -1.43e-02 -3.77e-02  4.04e-02 -4.60e-02  1.46e-02 -2.28e-02  1.54e-02
## 35439  -1.08e-04 -9.93e-04  7.38e-04 -4.21e-03  1.39e-04 -3.45e-03 -2.57e-03
## 2245    6.82e-04  1.62e-04 -1.58e-04  2.69e-04 -6.83e-04  1.26e-04  1.27e-04
## 130344  1.34e-02  7.25e-04 -4.60e-04  4.73e-03 -1.34e-02  5.06e-03 -3.92e-03
## 65985  -3.38e-03 -4.39e-02  3.93e-02  1.31e-03  3.34e-03  1.92e-02  8.06e-03
## 62170  -9.01e-03 -4.75e-03  5.08e-03 -2.20e-02  9.19e-03 -1.24e-02  1.40e-02
## 41341   1.27e-03 -3.17e-04 -1.00e-04  9.44e-04 -1.27e-03  1.30e-03 -2.94e-03
## 124792 -2.91e-02 -4.62e-03  3.23e-03  2.42e-02  2.88e-02  3.28e-02  8.96e-03
## 58487   1.26e-03 -2.43e-04  6.91e-04  3.22e-03 -1.30e-03  5.93e-03 -1.06e-03
## 82879   4.50e-03 -2.23e-02  2.03e-02  4.70e-04 -4.44e-03  9.35e-04 -8.39e-03
## 6650   -3.16e-02 -5.51e-03  5.93e-03  1.64e-02  3.14e-02  1.42e-02 -7.85e-03
## 25556   5.06e-03 -2.37e-03  3.02e-03  1.49e-03 -5.05e-03 -1.08e-02  2.70e-02
## 3433   -6.20e-03 -4.60e-04  4.85e-04  1.33e-03  6.17e-03  2.03e-03  4.39e-03
## 2171   -2.95e-02 -1.67e-02  1.58e-02 -1.28e-02  2.96e-02 -9.74e-03 -6.98e-03
## 56386   3.11e-03 -2.44e-02  2.25e-02 -5.23e-03 -3.00e-03 -1.14e-04 -7.70e-03
## 11431  -3.23e-02 -2.11e-02  2.04e-02 -1.55e-02  3.24e-02 -6.99e-03 -3.99e-03
## 30155  -2.76e-04 -1.33e-02  1.69e-02 -1.32e-02  4.23e-04 -1.38e-02 -5.26e-03
## 2783   -1.80e-02  5.00e-03 -5.94e-03  1.23e-02  1.79e-02  1.02e-02 -5.56e-03
## 73730   1.94e-03  3.24e-04 -8.91e-04  4.84e-03 -1.98e-03  5.71e-03 -2.72e-03
## 95928   1.95e-03  3.26e-05  8.00e-04  1.32e-03 -1.96e-03  2.01e-03  8.94e-03
## 8340    7.25e-02 -2.58e-02  2.84e-02  6.95e-04 -7.24e-02  2.02e-02 -3.96e-02
## 64657   6.49e-05  1.60e-02 -1.50e-02 -1.10e-02  4.30e-05 -1.66e-02 -5.13e-03
## 71580  -1.65e-02 -2.99e-03  5.51e-03 -3.05e-02  1.67e-02 -2.95e-02  2.30e-02
## 92222  -3.06e-02 -1.85e-02  1.79e-02 -1.34e-01  3.17e-02 -1.28e-01 -1.79e-03
## 26635  -5.80e-03  4.74e-02 -4.59e-02  1.97e-02  5.59e-03  2.01e-03 -4.92e-02
## 15186  -2.05e-04 -1.32e-03  8.20e-04 -2.98e-03  2.17e-04 -1.48e-03 -2.37e-03
## 5266   -2.95e-02 -5.47e-03  9.06e-03 -1.60e-02  2.96e-02 -1.29e-02 -1.59e-04
## 79857  -1.57e-03 -1.67e-03  3.08e-03 -1.30e-02  1.66e-03 -1.20e-02  1.67e-02
## 43117   4.81e-03  1.18e-02 -1.39e-02  5.66e-03 -4.84e-03 -2.07e-03  1.20e-02
## 90394   1.26e-03 -4.51e-03  6.09e-03  2.58e-03 -1.30e-03  4.28e-03 -2.11e-03
## 122567 -1.34e-02  1.32e-04  3.21e-03 -1.77e-02  1.35e-02 -1.82e-02  2.49e-02
## 121674  1.69e-03 -3.62e-04 -1.99e-04  2.25e-03 -1.70e-03  2.23e-03  3.03e-03
## 6168    2.30e-03  5.58e-04 -5.06e-04  2.29e-04 -2.30e-03 -2.09e-04  6.40e-04
## 15925   5.46e-03  3.31e-02 -3.15e-02  1.69e-02 -5.61e-03  9.31e-03 -3.33e-03
## 45823  -9.00e-03 -1.61e-02  1.36e-02 -9.62e-03  8.98e-03  3.60e-03  1.25e-02
## 17426  -6.83e-04  2.33e-02 -2.12e-02  2.38e-02  4.31e-04  2.03e-02  1.16e-02
## 31906   3.10e-03 -8.53e-03  9.08e-03  2.51e-02 -3.27e-03  2.00e-02  6.04e-03
## 7980   -1.92e-02  7.51e-03 -6.63e-03  5.01e-03  1.91e-02  5.00e-03 -2.97e-03
## 49900   4.23e-04  1.85e-04 -5.82e-05  6.84e-04 -4.34e-04  1.38e-03 -7.59e-04
## 13104   5.48e-04 -1.86e-04  1.03e-04  1.62e-04 -5.48e-04  1.13e-04  2.82e-05
## 66338  -2.62e-04 -2.07e-02  2.20e-02  6.98e-03  1.56e-04  2.35e-02  1.12e-02
## 21291   3.19e-03  2.23e-04 -1.93e-04  8.95e-03 -3.27e-03  8.51e-03 -3.87e-03
## 93961   2.45e-04 -3.91e-04  3.05e-04 -2.23e-05 -2.46e-04  3.71e-04 -6.90e-04
## 118629 -4.19e-04  3.22e-04 -1.49e-03  1.69e-02  2.48e-04  2.56e-02  1.44e-02
## 20678   7.54e-04 -2.25e-03  1.76e-03 -4.53e-03 -7.16e-04 -2.31e-03  1.30e-02
## 24527   3.89e-03 -2.49e-02  2.92e-02  8.47e-03 -3.96e-03  1.27e-02 -2.23e-03
## 19273  -5.15e-03 -1.06e-02  1.73e-02  3.53e-03  5.12e-03  1.24e-02  2.29e-02
## 129030  1.25e-02 -2.20e-03  2.79e-03 -2.57e-03 -1.24e-02 -3.27e-03 -4.43e-03
## 74061  -2.09e-04 -1.81e-03  1.24e-03 -5.59e-03  2.60e-04 -5.06e-03 -2.97e-03
## 64727   1.05e-03 -1.76e-04  4.29e-04  1.43e-03 -1.07e-03  2.48e-03 -2.11e-03
```

```
## 65368  -1.24e-03 -1.98e-02  1.79e-02 -1.47e-02  1.38e-03 -1.30e-02 -5.15e-03
## 63181   5.85e-04 -2.96e-03  2.59e-03 -6.92e-04 -5.78e-04  2.07e-03 -1.92e-03
## 43216  -7.18e-04 -6.84e-03  8.54e-03  1.77e-02  5.76e-04  1.83e-02 -4.98e-02
## 31174   2.58e-03 -2.42e-03  1.59e-03  8.40e-03 -2.66e-03  1.18e-02 -1.96e-03
## 75953  -2.12e-04  4.81e-04 -3.51e-04 -8.78e-03  3.05e-04 -1.05e-02 -4.64e-03
## 66548   9.08e-04 -5.98e-04  4.99e-04  1.87e-03 -9.23e-04  2.71e-03 -1.11e-03
## 113906 -1.59e-02  7.87e-03 -6.10e-03 -2.81e-02  1.61e-02 -3.07e-02  2.83e-02
## 20590   2.93e-03 -1.33e-02  1.28e-02 -6.51e-03 -2.85e-03 -2.41e-04  2.41e-02
## 44445  -6.46e-03  1.98e-02 -1.65e-02  1.63e-03  6.44e-03 -1.42e-02  1.65e-02
## 36151   1.64e-03 -4.14e-03  6.24e-03  3.07e-04 -1.64e-03  7.40e-04 -2.88e-03
## 32647  -1.16e-02 -3.60e-02  3.78e-02 -2.20e-02  1.17e-02  8.75e-04 -3.36e-02
## 49315  -1.06e-02  6.81e-03 -6.49e-03 -2.00e-02  1.09e-02 -3.58e-02  1.66e-02
## 48105   1.63e-03 -1.37e-04  3.25e-04  4.29e-03 -1.68e-03  5.63e-03 -2.04e-03
## 39610   7.71e-04 -5.53e-04  4.96e-04  1.52e-03 -7.86e-04  2.45e-03 -1.04e-03
## 63284   4.71e-04 -2.30e-03  2.25e-03 -3.56e-04 -4.77e-04  2.86e-03 -1.34e-03
## 118868 -5.57e-04 -2.39e-03  1.68e-03 -6.74e-03  6.15e-04 -5.83e-03 -2.96e-03
## 63250   1.07e-03 -2.75e-03 -3.55e-03  1.28e-02 -1.07e-03  4.89e-03  5.61e-03
## 120629 -1.70e-02 -5.67e-03  8.36e-03 -1.18e-02  1.69e-02 -1.89e-03 -4.14e-02
## 24826   1.79e-03  3.98e-02 -3.76e-02  3.78e-02 -2.15e-03  2.36e-02  1.07e-02
## 87571   1.39e-04 -2.21e-04  4.02e-04 -1.36e-03 -1.30e-04 -6.78e-04  2.81e-03
## 104239  2.78e-03  8.44e-04 -6.86e-04  7.04e-03 -2.84e-03  6.60e-03 -4.17e-03
## 33966   2.89e-03 -2.04e-03  3.06e-03  7.52e-03 -2.96e-03  7.98e-03 -3.11e-03
## 80783   7.08e-04 -1.43e-04  1.06e-03  1.07e-03 -7.28e-04  2.65e-03 -1.35e-03
## 63317   1.01e-03 -5.75e-04  5.26e-04  2.53e-03 -1.03e-03  3.78e-03 -1.09e-03
## 28462   4.65e-03  1.25e-02 -1.34e-02  1.05e-02 -4.74e-03  6.98e-03 -6.44e-03
## 104864  1.53e-04  8.35e-04 -1.24e-03 -5.87e-03 -1.01e-04 -7.45e-03 -4.68e-03
## 79627   1.24e-04  1.21e-04  2.52e-04 -3.15e-03 -1.02e-04 -2.82e-03 -2.20e-03
## 67979   9.89e-04 -9.62e-04  6.91e-04  2.17e-03 -1.01e-03  3.18e-03 -1.29e-03
## 81320  -9.04e-03 -4.44e-03  3.23e-03 -2.26e-02  9.19e-03 -2.04e-02  1.09e-02
## 70607  -1.52e-04 -1.30e-02  1.21e-02 -1.27e-02  2.74e-04 -7.93e-03 -4.53e-03
## 2835   -1.49e-02  5.15e-03 -5.92e-03  6.81e-03  1.48e-02  3.84e-03 -6.05e-03
## 24301   1.31e-03 -1.74e-04  1.96e-04 -2.29e-03 -1.28e-03 -3.89e-03 -4.91e-03
## 115911  5.66e-03  2.24e-03 -1.80e-03  1.25e-02 -5.72e-03  9.85e-03 -6.25e-03
## 102    -1.36e-02  1.06e-02 -1.01e-02  6.00e-03  1.35e-02  3.84e-03 -4.00e-03
## 99656   1.38e-03 -5.96e-04  7.02e-04  2.95e-03 -1.40e-03  4.99e-03 -1.70e-03
## 88342   3.81e-03 -2.90e-05 -2.95e-04  5.52e-03 -3.84e-03  5.70e-03  9.60e-03
## 108860  5.56e-03 -1.13e-02  1.13e-02  8.18e-03 -5.61e-03  1.45e-02  2.18e-02
## 86270  -7.65e-03  2.67e-02 -8.26e-03  4.27e-02  7.31e-03  4.83e-02  6.69e-02
## 55935   1.32e-03  4.48e-02 -4.24e-02  2.20e-02 -1.53e-03  3.82e-03  4.38e-03
## 6723   -2.73e-02  2.17e-02 -1.71e-02  2.74e-02  2.70e-02  2.39e-02  2.79e-02
## 119924  2.18e-03 -2.93e-03  5.52e-03  2.26e-02 -2.33e-03  2.52e-02  1.45e-02
## 129715  1.67e-02  6.03e-04 -1.61e-03  9.16e-03 -1.68e-02  1.13e-02  1.72e-02
## 120219  1.60e-03 -2.87e-04 -1.56e-04  4.61e-03 -1.65e-03  6.84e-03 -2.52e-03
## 20874   3.53e-04 -2.96e-04  5.02e-05 -6.44e-03 -2.89e-04 -4.46e-03 -3.20e-03
## 63775   3.10e-03  6.06e-03 -7.58e-03  5.77e-03 -3.14e-03  5.20e-05 -7.53e-03
## 29265   4.60e-03 -1.96e-03  1.10e-03  6.76e-03 -4.62e-03  6.36e-03 -6.80e-03
## 74016  -1.17e-02 -3.28e-02  3.49e-02 -1.58e-02  1.17e-02  1.23e-02  2.31e-02
## 118319 -6.36e-04  4.25e-04  5.48e-05 -8.85e-03  7.12e-04 -9.87e-03 -4.26e-03
## 13927  -1.78e-02  9.05e-03 -8.36e-03  6.81e-04  1.78e-02 -3.64e-04 -3.41e-03
## 79232   1.81e-03 -7.69e-03  6.92e-03 -6.67e-04 -1.80e-03  4.20e-03 -3.23e-03
## 98013   2.13e-03  1.53e-03 -4.98e-04  3.13e-02 -2.45e-03  3.84e-02  1.28e-02
## 112407 -7.37e-03  3.09e-02 -4.16e-02 -1.84e-02  7.50e-03 -2.90e-02  1.98e-03
## 129979 -3.17e-02  2.12e-03 -8.02e-04  3.11e-02  3.14e-02  2.54e-02  6.24e-03
## 75151  -2.23e-03  6.67e-03 -7.96e-03  2.02e-03  2.32e-03 -1.67e-02  8.25e-03
## 10079   6.95e-04  2.10e-04 -1.95e-04  2.85e-04 -6.96e-04  1.36e-04  1.44e-04
## 42140   9.96e-04  7.20e-04 -1.00e-03 -2.43e-03 -9.64e-04 -3.82e-03 -4.76e-03
## 51389  -7.75e-03 -2.87e-05 -8.37e-03 -3.85e-03  7.79e-03 -1.30e-02 -6.18e-02
## 31858   1.93e-03  5.43e-04 -4.53e-04  2.75e-03 -1.96e-03  1.83e-03 -4.02e-03
## 13534  -6.38e-03 -5.51e-04  8.25e-04 -9.31e-04  6.37e-03 -2.73e-04 -1.21e-03
## 129029  1.20e-02 -1.06e-04  2.63e-03  5.99e-03 -1.21e-02  9.49e-03  9.17e-04
## 48482   1.24e-03 -1.74e-03  3.42e-04 -1.58e-03 -1.22e-03 -1.11e-03 -4.85e-03
## 97084   7.56e-04  1.13e-04  1.58e-03 -3.32e-03 -7.43e-04 -8.70e-04  1.70e-02
## 35585   1.88e-03 -1.46e-03  4.95e-04  1.37e-03 -1.90e-03  4.18e-03  1.64e-02
## 2206   -1.18e-02 -1.10e-03  8.34e-04 -3.73e-03  1.18e-02 -2.99e-03 -2.94e-03
## 96704  -1.22e-02  6.72e-02 -6.61e-02 -3.46e-03  1.23e-02 -4.59e-02 -6.47e-02
## 74766   1.85e-03  1.03e-04 -1.03e-03  4.62e-03 -1.89e-03  5.46e-03 -3.01e-03
## 8454    5.12e-02 -3.91e-02  4.27e-02 -4.86e-02 -5.08e-02 -2.42e-02  2.04e-02
## 13353  -3.36e-02 -2.55e-02  2.30e-02  2.67e-03  3.35e-02  4.47e-03 -1.06e-02
## 60727   5.39e-03  2.50e-02 -2.25e-02  7.10e-03 -5.41e-03 -5.31e-03 -7.83e-03
## 122471 -7.49e-03  2.12e-03 -9.61e-04 -6.06e-03  7.56e-03 -1.00e-02  1.75e-02
## 122885  1.53e-03 -5.23e-04 -3.99e-04  1.88e-03 -1.55e-03  3.22e-03 -3.58e-03
## 35770   5.36e-03  9.03e-03 -8.69e-03  1.09e-02 -5.43e-03  9.17e-03 -4.82e-03
## 8174   -4.43e-03 -3.46e-04  5.26e-04 -5.31e-04  4.42e-03 -3.16e-04 -1.16e-03
## 36559   1.54e-03 -1.03e-03  1.12e-03  3.53e-03 -1.57e-03  6.02e-03 -1.59e-03
## 88516   1.55e-03 -1.76e-04 -2.47e-04  1.94e-03 -1.56e-03  2.20e-03 -3.01e-03
## 7690    7.62e-02  5.96e-02 -5.67e-02  8.42e-03 -7.62e-02 -2.20e-02  1.25e-02
## 11287  -1.14e-02  1.56e-02 -1.57e-02 -2.05e-04  1.14e-02 -4.11e-03 -3.70e-03
## 22007  -4.45e-03  3.02e-02 -2.75e-02  4.38e-03  4.41e-03 -8.94e-03  9.44e-03
## 57327   2.04e-03  2.79e-04 -3.11e-04  3.52e-03 -2.06e-03  3.44e-03 -2.85e-03
## 108110  7.40e-03  1.17e-02 -8.78e-03  1.09e-02 -7.45e-03  4.84e-03  3.60e-02
## 125798 -3.64e-02  2.69e-02 -2.56e-02  1.05e-02  3.61e-02  1.84e-04  8.13e-03
## 38450  -9.96e-03  1.74e-03 -5.05e-03 -2.46e-02  1.02e-02 -3.15e-02  1.11e-02
## 46195  -2.53e-03  8.07e-04 -1.61e-03 -1.60e-02  2.64e-03 -1.47e-02  2.27e-02
## 10452   9.48e-02  9.54e-04  6.07e-04  5.15e-02 -9.50e-02  5.47e-02  2.07e-02
## 120060  2.99e-03  2.70e-04 -1.33e-03  5.77e-03 -3.02e-03  5.79e-03 -4.79e-03
## 88394   3.60e-03  2.58e-02 -3.29e-02  1.98e-02 -3.74e-03  1.59e-02  1.21e-03
## 62071   4.41e-03  3.97e-02 -3.55e-02  2.95e-03 -4.39e-03 -1.36e-02 -6.88e-03
## 87541   8.21e-05  2.00e-04 -1.79e-03 -6.93e-03 -1.36e-05 -8.86e-03 -5.88e-03
## 105388 -6.86e-03  3.47e-02 -3.26e-02 -9.81e-04  6.82e-03 -6.03e-03 -3.67e-02
## 88269  -1.56e-02 -1.81e-02  2.39e-02 -3.46e-02  1.59e-02 -2.27e-02  2.53e-02
## 47908  -8.31e-03 -1.33e-02  1.30e-02 -2.06e-02  8.49e-03 -1.37e-02 -4.46e-02
## 63341  -1.32e-03 -4.01e-04  2.26e-04 -1.10e-02  1.40e-03 -7.45e-03 -1.92e-03
## 18376   2.78e-03  1.80e-02 -1.76e-02  6.50e-03 -2.84e-03  2.83e-03  6.08e-03
## 42191   1.50e-03 -1.94e-02  1.82e-02 -4.36e-03 -1.45e-03  3.37e-03 -3.83e-03
## 73678   6.36e-04 -6.33e-04  2.99e-04 -1.56e-03 -6.18e-04 -1.12e-03 -2.78e-03
## 120261  2.49e-03 -1.30e-03  9.68e-04  6.73e-03 -2.55e-03  8.94e-03 -2.16e-03
## 56640   2.60e-03  4.98e-04  1.37e-04  2.65e-03 -2.60e-03  1.28e-03 -5.01e-03
## 40342   3.83e-03  1.76e-03 -1.54e-03  8.47e-04 -3.82e-03  1.77e-03  1.58e-02
```

```
## 120837 -7.76e-03  8.91e-03 -1.35e-02 -2.19e-02  8.04e-03 -3.17e-02  9.99e-03
## 35111   2.26e-03 -9.13e-05 -5.18e-05  2.27e-03 -2.27e-03  2.49e-03  6.91e-03
## 53879  -1.17e-03 -9.46e-03  1.19e-02  3.65e-03  1.13e-03  6.41e-03  1.09e-02
## 48323   7.18e-03  3.10e-02 -2.80e-02  1.43e-02 -7.28e-03  5.43e-03  2.19e-02
## 46465   7.41e-04  5.24e-04  1.66e-04 -1.54e-03 -7.25e-04 -1.45e-03 -2.17e-03
## 8461   -1.90e-02  1.34e-02 -1.46e-02  1.41e-02  1.89e-02  5.67e-03 -9.44e-03
## 129466 -2.73e-02  1.91e-02 -1.87e-02  3.91e-02  2.68e-02  4.15e-02 -3.62e-02
## 42608   6.71e-05  1.79e-02 -2.19e-02  1.14e-03 -3.64e-05 -1.19e-03  2.32e-03
## 36030   5.55e-04 -3.75e-04  2.62e-04  1.03e-03 -5.62e-04  1.38e-03 -7.77e-04
## 29629   5.21e-03  5.65e-03 -6.15e-03  1.20e-02 -5.28e-03  8.65e-03 -6.38e-03
## 4506   -2.09e-02  1.71e-02 -1.45e-02  2.23e-02  2.06e-02  1.75e-02 -4.50e-03
## 111173 -1.85e-02 -2.43e-02  2.91e-02 -4.87e-02  1.88e-02 -3.61e-02  2.26e-02
## 4356   -5.37e-03 -1.24e-03  1.04e-03 -2.34e-04  5.36e-03  1.03e-03 -1.11e-03
## 94345   8.05e-05 -1.43e-03 -1.59e-03  2.35e-02 -2.78e-04  2.26e-02 -5.27e-02
## 45290   2.17e-03  2.74e-03 -3.27e-03  3.53e-03 -2.20e-03  1.84e-03 -4.47e-03
## 12323  -1.17e-02  3.10e-05 -2.94e-05 -2.89e-03  1.17e-02 -3.78e-03 -3.58e-03
## 92192  -8.18e-04  4.85e-03 -4.01e-03 -9.44e-03  9.12e-04 -9.09e-03 -2.18e-03
## 30117   7.68e-05 -6.55e-04  5.71e-04 -2.89e-03 -5.74e-05 -1.86e-03 -2.30e-03
## 39283   1.20e-03  9.91e-04 -1.10e-03 -5.55e-03 -1.14e-03 -7.00e-03  9.98e-03
## 94753   1.23e-03  1.43e-02 -1.43e-02 -3.78e-03 -1.19e-03 -7.12e-03 -4.83e-03
## 86967  -1.45e-03 -1.44e-04 -2.46e-04 -1.46e-02  1.56e-03 -1.43e-02  1.91e-02
## 82239   1.20e-03 -5.63e-04 -3.92e-04  3.46e-03 -1.25e-03  5.92e-03 -2.57e-03
## 38782   1.19e-02 -2.05e-02  1.79e-02  2.12e-02 -1.19e-02  1.86e-02 -1.37e-02
## 93653   7.39e-04  1.49e-03 -7.09e-04  1.96e-03 -7.63e-04  2.84e-03 -3.86e-04
## 119598  2.00e-03  8.29e-04 -2.00e-03 -1.40e-03 -1.98e-03 -2.97e-03  8.95e-03
## 75812  -2.60e-03  7.42e-04 -4.61e-04 -1.49e-02  2.72e-03 -1.52e-02 -3.53e-03
## 81204   3.16e-04  8.27e-04 -4.67e-04  1.82e-04 -3.23e-04  7.75e-04 -6.10e-04
## 66348   2.73e-05 -2.02e-02  1.92e-02 -9.96e-03  7.38e-05 -1.48e-03 -3.16e-03
## 77420   2.67e-04 -1.52e-03  1.29e-03 -5.01e-03 -2.24e-04 -4.46e-03  5.89e-03
## 17110   1.40e-03 -4.49e-04 -6.38e-05  2.13e-03 -1.42e-03  2.53e-03 -2.93e-03
## 32042  -1.50e-02  1.28e-03  1.12e-03 -2.84e-02  1.52e-02 -3.04e-02  2.38e-02
## 86798   1.98e-03 -6.41e-05 -2.03e-04  3.78e-03 -2.01e-03  3.92e-03 -2.96e-03
## 11593  -1.69e-02  1.18e-02 -1.36e-02  9.94e-03  1.68e-02  3.77e-03 -7.30e-03
## 86434  -9.14e-04  1.01e-04 -7.43e-04 -9.64e-03  9.91e-04 -1.09e-02 -4.67e-03
## 22879   1.33e-03 -6.94e-05  5.21e-04  2.72e-03 -1.36e-03  3.92e-03 -1.88e-03
## 118655 -6.70e-04 -9.35e-04  7.62e-04 -6.86e-03  7.11e-04 -7.21e-03 -3.96e-03
## 50652   4.16e-03  4.83e-03 -5.03e-03  4.50e-03 -4.15e-03 -2.02e-03 -8.05e-03
## 36632   7.04e-03 -2.51e-02  2.32e-02  1.48e-02 -7.12e-03  2.15e-02 -5.60e-03
## 88554  -5.01e-04  6.24e-04 -8.49e-04 -9.22e-03  5.93e-04 -1.08e-02 -4.68e-03
## 13872   1.51e-03  4.01e-04 -3.18e-04 -1.55e-04 -1.51e-03 -4.79e-04 -8.42e-04
## 110785 -4.01e-04 -1.61e-03  1.09e-03 -5.75e-03  4.47e-04 -5.19e-03 -2.85e-03
## 26364   2.66e-03  6.61e-04 -1.79e-03  8.12e-03 -2.73e-03  9.77e-03 -3.22e-03
## 26487  -3.19e-04  8.91e-04 -1.42e-03 -7.65e-03  3.87e-04 -9.00e-03 -5.23e-03
## 80686   1.81e-03 -2.83e-04  8.95e-04  4.10e-03 -1.86e-03  5.04e-03 -2.07e-03
## 50714   4.62e-03  5.41e-03 -6.15e-03  9.88e-03 -4.66e-03  6.63e-03 -6.53e-03
## 35017   9.19e-03  4.39e-03 -3.43e-03  2.35e-02 -9.35e-03  1.74e-02 -7.47e-03
## 113766 -8.30e-03 -4.37e-04 -9.32e-04 -2.44e-02  8.54e-03 -3.12e-02  7.74e-03
## 43596   6.49e-04  3.36e-04 -1.09e-04  1.18e-03 -6.61e-04  1.69e-03 -7.71e-04
## 2356   -2.97e-02  3.16e-02 -2.95e-02 -3.02e-04  2.96e-02 -9.41e-03 -5.60e-03
## 46226   2.88e-03  1.03e-03 -9.94e-04  2.75e-03 -2.87e-03  8.18e-04 -6.01e-03
## 33125   1.51e-03 -7.28e-04  2.71e-03  3.49e-03 -1.55e-03  5.02e-03 -9.37e-04
## 7435    7.67e-02  4.88e-02 -5.82e-02  2.72e-02 -7.68e-02  2.28e-02 -4.95e-02
## 16764   1.16e-03 -3.15e-03  4.73e-03  5.96e-04 -1.17e-03  1.45e-03 -2.57e-03
## 95473   4.77e-03  3.39e-03 -4.25e-03  2.39e-02 -4.92e-03  1.39e-02  5.49e-03
## 70120   1.74e-03  1.59e-04 -4.60e-04  3.05e-03 -1.76e-03  4.51e-03 -2.97e-03
## 45964   7.11e-03  1.03e-02 -1.15e-02  1.88e-02 -7.23e-03  1.11e-02 -8.37e-03
## 10088   1.06e-03  2.48e-04 -2.45e-04  5.82e-04 -1.06e-03  3.82e-04  1.99e-04
## 63643  -6.26e-03  5.36e-02 -5.11e-02  1.42e-02  6.09e-03 -6.77e-03 -4.93e-02
## 39478   5.61e-04 -4.16e-03  6.06e-03 -5.27e-03 -5.15e-04 -5.22e-03 -4.17e-03
## 5301   -2.25e-02 -7.13e-04  4.83e-04 -7.37e-03  2.25e-02 -9.96e-03 -5.88e-03
## 60321   2.38e-03 -1.25e-02  1.36e-02  9.48e-04 -2.37e-03 -8.75e-03 -8.62e-03
## 3761   -1.28e-03 -2.12e-04  2.07e-04  1.59e-04  1.27e-03  4.44e-04 -2.31e-04
## 41575  -2.36e-05 -1.09e-03  1.65e-03 -6.42e-03  7.63e-05 -7.28e-03 -4.08e-03
## 83901  -1.18e-03  1.81e-02 -1.66e-02  1.20e-02  9.99e-04  1.61e-02  8.00e-03
## 43879  -1.37e-02 -5.49e-02  4.94e-02 -4.16e-02  1.40e-02 -2.62e-02  5.90e-03
## 95763  -4.62e-04  1.30e-03 -2.10e-03 -9.23e-03  5.49e-04 -1.12e-02 -5.02e-03
## 25713  -1.30e-02  2.91e-02 -2.58e-02 -2.30e-02  1.31e-02 -2.15e-02  1.49e-02
## 107618  1.14e-02 -3.44e-02  3.89e-02  2.66e-02 -1.16e-02  2.88e-02  2.89e-02
## 43471  -8.84e-04  2.41e-03  9.19e-04 -3.64e-03  8.82e-04 -1.19e-03  6.27e-04
## 73036   5.88e-03  6.35e-03 -6.68e-03  1.40e-02 -5.99e-03  9.67e-03  1.91e-02
## 14687   1.05e-03  7.40e-04 -5.68e-04 -8.53e-05 -1.06e-03 -7.90e-04 -3.57e-03
## 99954  -1.65e-03  1.04e-03 -1.17e-03 -8.77e-03  1.72e-03 -8.50e-03 -3.26e-03
## 83199   1.89e-03  1.12e-03 -1.44e-03  2.31e-03 -1.91e-03  1.19e-03 -4.54e-03
## 99611  -2.20e-04 -2.45e-03  1.38e-03 -6.74e-03  2.77e-04 -6.05e-03 -4.49e-03
## 83380  -6.45e-03  1.93e-02 -1.75e-02 -1.60e-02  6.60e-03 -2.29e-02  5.19e-03
## 86291   2.85e-03  7.65e-04 -1.31e-03  7.46e-03 -2.91e-03  8.63e-03 -3.30e-03
## 25734  -1.24e-02 -2.86e-02  3.21e-02 -1.30e-02  1.25e-02  6.29e-03 -3.98e-02
## 21688   5.50e-04  1.26e-04  3.54e-05  6.70e-04 -5.56e-04  1.20e-03 -8.20e-04
## 31549  -2.53e-02 -1.36e-02  1.34e-02 -7.03e-02  2.58e-02 -5.35e-02  2.22e-02
## 112820  5.46e-04  8.99e-03 -9.75e-03 -4.68e-03 -4.85e-04 -1.14e-02 -6.76e-03
## 112422  6.75e-03  6.56e-03 -5.02e-03  1.01e-02 -6.77e-03  2.53e-03 -7.61e-03
## 47631  -1.18e-03 -2.44e-02  2.63e-02  6.24e-04  1.16e-03  1.79e-02  1.01e-02
## 128246  1.27e-02  1.64e-03 -1.25e-03 -4.80e-03 -1.26e-02 -7.33e-03 -4.87e-03
## 8719   -5.41e-03 -2.10e-04  6.01e-05  1.14e-03  5.39e-03  1.40e-03 -1.65e-03
## 87020  -2.40e-03  1.01e-03 -1.67e-03 -1.41e-02  2.51e-03 -1.48e-02 -4.26e-03
## 54772  -1.71e-04 -3.46e-05  1.26e-04 -3.71e-03  2.02e-04 -3.59e-03 -2.06e-03
## 76233   4.12e-03  1.92e-03 -2.18e-03  6.73e-03 -4.15e-03  7.51e-03 -4.84e-03
## 51003   2.91e-03  2.22e-03 -2.71e-03  8.50e-03 -2.99e-03  7.57e-03 -3.95e-03
## 14775  -1.92e-04  1.18e-04  1.43e-03 -7.57e-03  2.43e-04 -5.30e-03  1.67e-02
## 6631    8.64e-02  1.46e-03 -1.08e-03  3.26e-02 -8.65e-02  3.68e-02 -4.84e-02
## 61058  -4.31e-04  5.90e-04  7.63e-04 -3.36e-03  4.42e-04 -9.98e-04 -9.96e-04
## 37848   6.56e-04 -1.74e-04  3.78e-04 -3.56e-03 -6.13e-04 -2.98e-03 -3.43e-03
## 46442   3.14e-03  2.67e-03 -4.01e-03  3.54e-03 -3.17e-03  1.66e-03  1.02e-02
## 123224  6.51e-03  1.06e-03 -4.87e-04  1.52e-03 -6.52e-03  3.42e-03 -4.73e-04
## 31064  -1.01e-04  2.18e-03 -2.27e-03 -6.04e-03  1.54e-04 -9.80e-03 -5.57e-03
## 117949 -8.06e-04  1.94e-03 -2.47e-03 -8.48e-03  8.82e-04 -9.59e-03 -4.60e-03
## 117700 -9.80e-04 -1.65e-03  1.39e-03 -7.55e-03  1.04e-03 -6.36e-03 -2.35e-03
## 2836   -1.88e-02 -1.58e-03  6.93e-04  1.31e-02  1.87e-02  8.87e-03 -9.55e-03
```

```
## 117840  2.15e-03  3.13e-03 -4.25e-03  1.50e-03 -2.15e-03 -1.10e-03 -5.60e-03
## 4749   -1.31e-02 -7.59e-04  4.97e-04 -6.72e-04  1.31e-02  2.82e-04 -2.94e-03
## 66120   5.94e-04 -1.21e-03  9.21e-04  5.40e-04 -5.99e-04  1.39e-03 -1.22e-03
## 21465   1.91e-03 -1.08e-04 -2.34e-04  4.48e-03 -1.95e-03  5.21e-03 -2.76e-03
## 102982  1.99e-03 -1.16e-03  2.07e-03 -3.07e-03 -1.95e-03 -4.15e-03  1.00e-02
## 106472  3.16e-03  9.66e-04 -1.60e-03  6.26e-03 -3.19e-03  6.36e-03 -4.33e-03
## 50817   7.68e-04 -2.58e-03  2.33e-03 -5.26e-04 -7.60e-04  1.87e-03 -1.99e-03
## 55739   3.25e-03  2.44e-03 -2.48e-03  3.94e-03 -3.26e-03  1.34e-03 -5.93e-03
## 54881   2.82e-03  3.10e-02 -2.99e-02  9.50e-03 -2.91e-03  2.82e-03 -1.76e-03
## 34136   2.38e-03 -3.93e-03  5.77e-03 -2.67e-03 -2.31e-03 -1.12e-02 -6.19e-03
## 64214   2.65e-03 -1.64e-03  2.75e-03  5.93e-04 -2.64e-03  2.96e-04  1.19e-02
## 96671   6.86e-04  1.01e-04  3.65e-05  1.23e-03 -6.97e-04  1.73e-03 -8.43e-04
## 127659 -3.08e-02  8.41e-04 -5.43e-04  3.10e-02  3.05e-02  2.51e-02  4.12e-03
## 83227  -5.15e-04  2.20e-04  8.28e-04 -2.65e-03  5.15e-04 -7.55e-04 -8.59e-04
## 14149   2.81e-03  6.81e-04 -9.41e-04  6.63e-03 -2.86e-03  7.61e-03 -3.44e-03
## 77983   2.74e-03  8.52e-04 -8.10e-04  6.43e-03 -2.79e-03  7.52e-03 -3.12e-03
## 32941   1.98e-03  2.13e-02 -2.00e-02  5.24e-03 -2.03e-03  5.01e-03 -5.29e-04
## 50037   4.74e-04 -1.16e-03  4.51e-04 -1.62e-03 -4.66e-04 -6.87e-04 -2.86e-03
## 130438 -4.34e-02 -1.28e-01  1.23e-01 -1.10e-02  4.34e-02  1.78e-02  7.30e-03
## 53372   1.87e-04  5.31e-04  4.72e-04 -1.88e-03 -1.78e-04 -1.23e-03 -1.56e-03
## 33582   1.43e-03 -6.08e-05  1.08e-03  1.89e-03 -1.44e-03  2.37e-03 -1.95e-03
## 72164   4.61e-04 -7.91e-04 -2.77e-04  2.06e-02 -6.70e-04  2.32e-02  1.33e-02
## 65552  -2.42e-03 -2.52e-02  2.38e-02 -2.34e-02  2.64e-03 -1.54e-02 -4.97e-03
## 101609 -7.00e-04  2.94e-03 -4.15e-03 -7.98e-03  7.75e-04 -9.41e-03 -5.06e-03
## 939    -1.75e-02  2.20e-02 -2.37e-02  1.84e-02  1.73e-02  5.19e-03  9.98e-03
## 69029   3.25e-03  2.71e-03 -3.89e-03  4.40e-03 -3.30e-03  3.54e-03  1.82e-02
## 24890   4.65e-03 -7.11e-03  7.09e-03  2.54e-03 -4.61e-03 -6.28e-04 -7.52e-03
## 107667  2.84e-03  4.83e-03 -5.44e-03  3.05e-03 -2.85e-03 -2.58e-03 -7.08e-03
## 89201  -3.80e-04  1.54e-02 -1.04e-02  2.57e-02  2.18e-04  1.40e-02 -5.26e-02
## 62668   1.58e-03  3.34e-03 -3.43e-03 -3.19e-03 -1.55e-03 -2.77e-03 -4.14e-03
## 124976 -4.12e-02 -4.01e-02  4.03e-02  4.17e-03  4.11e-02  1.20e-02  1.08e-02
## 86832  -9.45e-04  2.29e-03 -8.19e-04 -5.69e-03  9.78e-04 -5.23e-03 -9.80e-04
## 58796   5.79e-04 -6.98e-04  8.94e-04 -2.56e-04 -5.79e-04  1.82e-03 -1.53e-03
## 120613 -6.63e-06 -6.15e-05  4.84e-04 -2.84e-03  1.98e-05 -1.86e-03 -1.89e-03
## 86007   2.16e-03  2.55e-04 -3.13e-04  4.21e-03 -2.19e-03  4.37e-03 -2.85e-03
## 128866 -5.22e-02 -6.87e-04  2.77e-03 -1.91e-02  5.22e-02 -2.33e-02  1.46e-02
## 35675   6.88e-04 -2.81e-04  4.34e-04  5.38e-04 -6.96e-04  1.39e-03  3.44e-03
## 76795  -1.15e-03 -2.81e-03  2.09e-03 -9.78e-03  1.23e-03 -8.04e-03 -3.38e-03
## 14355   2.11e-03  4.56e-03 -5.84e-03 -1.11e-03 -2.07e-03 -4.67e-03 -6.81e-03
## 99914   5.48e-03  9.44e-03 -9.53e-03  3.91e-02 -5.88e-03  4.56e-02  7.18e-03
## 74949  -2.31e-03 -2.45e-03  2.16e-03 -1.12e-02  2.38e-03 -8.18e-03 -2.00e-03
## 115112 -1.31e-03 -2.69e-03  2.11e-03 -1.05e-02  1.40e-03 -8.80e-03 -3.31e-03
## 105882 -7.35e-03  4.62e-03 -7.89e-03 -1.47e-02  7.46e-03 -1.45e-02  9.47e-03
## 112047 -2.21e-03  4.02e-02 -3.66e-02  1.20e-02  2.08e-03  2.21e-03  9.64e-03
## 72644   3.32e-03  2.31e-02 -2.22e-02  1.08e-02 -3.43e-03  7.73e-03 -1.61e-03
## 51628  -9.96e-03 -2.52e-03  5.63e-03 -2.72e-02  1.02e-02 -3.16e-02  1.22e-02
## 75967  -6.23e-03 -1.69e-02  2.52e-02  1.92e-02  5.97e-03  4.36e-02  3.61e-02
## 68231   3.52e-03  3.56e-03 -4.21e-03  7.62e-03 -3.57e-03  5.28e-03 -5.22e-03
## 64961  -4.41e-03 -4.06e-02  4.55e-02 -9.41e-03  4.44e-03  1.84e-02  1.62e-02
## 5396   -1.16e-02 -1.12e-03  1.08e-03 -4.87e-03  1.16e-02 -4.26e-03 -2.78e-03
## 28792   9.51e-04 -4.55e-04  6.73e-04  6.49e-04 -9.63e-04  1.16e-03 -2.37e-03
## 95767   2.19e-03 -1.00e-02  9.30e-03 -7.39e-03 -2.09e-03 -1.01e-02 -7.74e-03
## 92501   1.55e-03  1.86e-03 -2.29e-03 -2.77e-03 -1.52e-03 -3.87e-03  1.21e-02
## 71678   2.47e-04  9.22e-04 -5.35e-04  6.88e-05 -2.50e-04  4.40e-04 -4.44e-04
## 11944   3.34e-03  1.20e-03 -1.09e-03  4.70e-04 -3.34e-03 -2.95e-04 -2.01e-03
## 49800   4.66e-03  1.11e-02 -1.19e-02  1.35e-02 -4.74e-03  6.79e-03 -6.78e-03
## 75386  -5.31e-04  8.28e-06  8.80e-04 -6.95e-03  5.74e-04 -5.62e-03  1.01e-02
## 37883   1.72e-03 -2.01e-04 -4.20e-04  2.56e-03 -1.73e-03  2.61e-03 -3.21e-03
## 92652  -5.77e-04  1.28e-02 -1.29e-02 -9.89e-03  6.60e-04 -1.23e-02 -4.35e-03
## 85128  -1.95e-03 -7.51e-03  1.04e-02  1.62e-02  1.75e-03  2.31e-02  1.82e-02
## 113570  2.04e-03 -8.32e-04  8.21e-04  4.90e-03 -2.08e-03  6.89e-03 -1.94e-03
## 34255   1.45e-03 -9.58e-03  1.11e-02 -8.57e-04 -1.45e-03  9.81e-04 -4.94e-03
## 10832  -1.62e-02 -3.11e-04  2.88e-04 -4.10e-03  1.62e-02 -4.04e-03 -3.16e-03
## 25956  -1.56e-02 -1.53e-02  1.63e-02 -3.20e-02  1.58e-02 -2.61e-02 -4.63e-02
## 111580  3.09e-03  1.36e-02 -1.26e-02  4.73e-02 -3.42e-03  3.72e-02 -5.85e-02
## 71735   2.57e-03  1.99e-02 -1.94e-02  2.18e-03 -2.58e-03 -2.65e-03 -4.60e-03
## 9345    4.44e-02  3.04e-02 -2.97e-02 -1.49e-02 -4.42e-02 -2.22e-02 -3.78e-02
## 17490   1.96e-03  2.60e-02 -2.53e-02  2.56e-03 -1.99e-03 -3.07e-03 -3.60e-03
## 49613   3.08e-03  8.48e-03 -8.35e-03  7.23e-03 -3.15e-03  7.99e-03 -2.35e-03
## 90804  -3.41e-03  2.77e-02 -2.25e-02 -3.52e-02  3.72e-03 -5.11e-02  3.58e-02
## 10684  -1.34e-02  1.41e-03 -2.43e-03 -2.21e-03  1.34e-02 -3.40e-03 -4.23e-03
## 32531   1.25e-03  5.56e-03 -5.79e-03 -3.55e-03 -1.22e-03 -3.65e-03 -4.18e-03
## 2065   -1.18e-02  3.95e-05 -1.30e-04  5.34e-03  1.18e-02  6.02e-03 -3.06e-03
## 63234   2.86e-04 -3.03e-03  2.88e-03 -3.86e-03 -2.54e-04 -1.50e-03  6.81e-03
## 84226  -1.84e-04 -1.76e-03  1.01e-03 -4.02e-03  2.09e-04 -2.78e-03 -2.73e-03
## 130496 -4.18e-02 -4.08e-03  4.15e-04  8.50e-04  4.17e-02 -4.51e-03  5.99e-03
## 115684 -5.85e-03  3.68e-02 -3.38e-02 -2.74e-03  5.81e-03 -1.23e-02  9.87e-03
## 109958  1.08e-02  3.49e-03 -1.39e-03  2.99e-02 -1.10e-02  2.47e-02 -6.43e-03
## 55537  -5.00e-03  2.65e-02 -2.40e-02  1.78e-02  4.77e-03  9.64e-03  1.58e-02
## 1679   -4.13e-03 -5.49e-04  3.72e-04 -9.70e-04  4.13e-03 -7.15e-04  2.35e-03
## 11054  -6.20e-03 -5.19e-04  4.64e-04 -1.36e-03  6.20e-03 -1.01e-03 -1.56e-03
## 43920  -9.50e-03  1.74e-03 -7.96e-03 -6.74e-03  9.62e-03 -1.51e-02 -6.28e-02
## 85557   7.31e-04  2.19e-03 -3.22e-03 -9.17e-04 -7.32e-04 -2.11e-03 -4.39e-03
## 13731  -2.83e-02  4.64e-03 -4.60e-03 -4.61e-03  2.83e-02 -9.13e-03 -6.72e-03
## 85780   3.25e-03  1.05e-02 -1.04e-02  7.42e-03 -3.31e-03  6.87e-03 -2.86e-03
## 50957  -4.91e-03 -8.15e-03  9.70e-03  5.12e-03  4.79e-03  1.92e-02  1.88e-02
## 75621   3.85e-04 -1.03e-03  1.19e-03 -4.04e-03 -3.58e-04 -2.85e-03  8.77e-03
## 108884  5.15e-03  1.52e-03 -9.74e-04  7.98e-03 -5.20e-03  4.27e-03  1.78e-02
## 71565  -2.18e-04 -1.64e-03  2.04e-03 -9.57e-03  3.05e-04 -7.93e-03  1.26e-02
## 94951  -2.33e-04  2.95e-03 -3.15e-03 -1.35e-02  3.48e-04 -1.78e-02  1.70e-02
## 6766   -1.03e-02 -6.78e-05 -1.26e-04  2.01e-03  1.03e-02  2.76e-03  7.05e-03
## 130093  9.02e-03  1.19e-03 -3.64e-04 -2.26e-03 -8.98e-03 -1.94e-03 -2.14e-03
## 3611   -4.23e-03 -9.33e-04  9.56e-04 -2.39e-03  4.24e-03 -1.59e-03 -7.81e-04
## 64098   2.77e-03  3.83e-02 -3.55e-02  3.03e-03 -2.80e-03 -1.16e-02 -6.21e-03
## 24103   4.94e-03  7.08e-03 -8.12e-03  1.40e-02 -5.04e-03  1.09e-02 -5.64e-03
## 72802   1.99e-03  1.40e-04 -4.28e-04  3.58e-03 -2.01e-03  3.55e-03 -2.99e-03
## 21191   4.00e-03  3.56e-04 -8.74e-04  6.05e-03 -4.03e-03  6.21e-03  1.03e-02
## 27439  -7.23e-04 -3.10e-02  2.67e-02 -2.69e-02  1.04e-03 -3.70e-02 -1.49e-02
```

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## 10950  -1.36e-02 -1.55e-03  1.79e-03 -5.21e-03  1.36e-02 -3.59e-03  8.86e-03
## 114728  2.40e-03 -4.80e-04  4.23e-04  3.97e-03 -2.44e-03  4.86e-03  8.28e-03
## 97727   1.96e-03 -7.31e-04  8.53e-04  2.02e-03 -1.98e-03  4.83e-03  1.59e-02
## 43653  -1.25e-02  2.44e-03  7.35e-04 -2.75e-02  1.27e-02 -3.21e-02  2.04e-02
## 116916  2.07e-03  2.40e-04 -1.64e-05  3.41e-03 -2.09e-03  3.31e-03 -2.74e-03
## 65485   1.83e-03  2.64e-02 -2.47e-02  3.75e-02 -2.22e-03  3.36e-02  1.24e-02
## 76017   3.28e-03  4.98e-03 -5.10e-03 -2.32e-03 -3.23e-03 -7.99e-03  1.31e-02
## 90479   8.94e-04  2.02e-03 -2.99e-03 -2.87e-03 -8.84e-04 -3.14e-03  1.49e-02
## 32263  -8.04e-03 -2.28e-03  5.06e-03 -2.65e-02  8.30e-03 -3.30e-02  8.66e-03
## 47943   1.19e-02  3.74e-03 -2.27e-03  2.42e-02 -1.20e-02  1.33e-02  2.36e-02
## 101495  2.02e-03 -2.98e-04 -1.84e-06  6.52e-03 -2.09e-03  8.85e-03 -2.58e-03
## 20806   3.92e-03  1.10e-02 -1.00e-02  1.56e-03 -3.89e-03 -3.35e-03 -6.19e-03
## 33017   3.21e-03 -2.35e-04 -3.18e-04  6.73e-03 -3.27e-03  9.07e-03  1.53e-02
## 32871  -6.41e-04 -3.66e-03  6.15e-03 -9.57e-03  7.03e-04 -7.90e-03  1.63e-02
## 83640  -1.67e-03 -3.06e-02  3.54e-02 -1.62e-02  1.82e-03 -1.49e-02 -3.46e-03
## 111818  5.09e-03 -9.46e-03  8.26e-03  5.83e-03 -5.11e-03  6.64e-03 -7.17e-03
## 48313  -1.37e-02 -6.02e-02  5.68e-02 -3.35e-02  1.40e-02 -2.20e-02  1.10e-02
## 128669  1.11e-02  2.46e-04 -1.40e-03  6.80e-03 -1.11e-02  7.00e-03 -3.90e-03
## 123335 -1.96e-02  1.20e-02 -1.17e-02  2.46e-02  1.92e-02  3.47e-02  9.40e-03
## 28813   5.20e-04 -3.56e-04  2.73e-03  1.88e-03 -5.66e-04  4.34e-03  1.46e-04
## 64999  -6.97e-04 -1.82e-03  1.46e-03 -8.78e-03  7.79e-04 -7.72e-03 -3.64e-03
## 102417  1.83e-03 -1.32e-04 -8.01e-04  3.29e-03 -1.86e-03  3.15e-03 -3.34e-03
## 107481 -6.15e-04 -7.64e-04  7.69e-04 -8.49e-03  6.89e-04 -7.99e-03 -3.58e-03
## 122350  4.80e-03  4.32e-03 -5.17e-03  9.03e-03 -4.86e-03  6.44e-03  1.01e-02
## 109840  4.35e-03  7.22e-03 -8.51e-03  8.62e-03 -4.38e-03  4.68e-03 -6.93e-03
## 88421   2.85e-04 -1.23e-02  1.53e-02 -9.03e-03 -1.97e-04 -9.49e-03 -4.57e-03
## 1360   -1.57e-02  5.24e-03 -6.17e-03  1.26e-02  1.55e-02  7.72e-03 -7.36e-03
## 73951  -8.31e-03 -9.45e-03  9.24e-03 -5.43e-03  8.29e-03  1.08e-03  1.32e-02
## 104381 -5.92e-03 -2.32e-02  2.61e-02  6.66e-03  5.80e-03  2.21e-02 -3.88e-02
## 26130  -1.64e-02 -2.13e-02  2.56e-02 -3.89e-02  1.66e-02 -2.62e-02  2.14e-02
## 65124   4.12e-04  7.25e-03 -1.01e-02  1.99e-02 -6.20e-04  3.06e-02 -3.31e-02
## 113576 -1.15e-02 -1.55e-02  1.81e-02 -2.18e-02  1.16e-02 -1.72e-02 -4.70e-02
## 88169   5.74e-03  5.65e-02 -6.46e-02  2.79e-02 -5.93e-03  1.92e-02 -3.09e-05
## 32805   6.59e-04  1.92e-03 -1.10e-03 -7.01e-03 -5.73e-04 -1.23e-02 -6.39e-03
## 1752    3.28e-04  8.05e-05 -6.40e-05 -7.52e-05 -3.27e-04 -1.48e-04  8.86e-05
## 6426   -1.12e-02 -1.01e-03  1.08e-03 -5.27e-03  1.13e-02 -4.67e-03 -2.64e-03
## 8187   -1.04e-02 -4.98e-04  4.64e-04 -3.80e-03  1.04e-02 -4.72e-03 -3.54e-03
## 64573  -6.47e-04 -1.64e-02  1.55e-02 -2.54e-02  9.53e-04 -3.24e-02 -1.10e-02
## 72623  -7.65e-05  4.18e-04  5.77e-04 -2.29e-03  7.91e-05 -9.28e-04 -1.19e-03
## 32742  -1.74e-02  1.03e-03 -2.83e-03 -3.69e-02  1.77e-02 -4.78e-02  1.80e-02
## 20377   2.61e-03  1.48e-04 -7.74e-04  3.88e-03 -2.63e-03  3.90e-03  6.06e-03
## 32231   1.23e-03  3.67e-03 -4.53e-03 -2.37e-03 -1.19e-03 -4.67e-03 -5.76e-03
## 70437   2.89e-03  4.04e-02 -3.79e-02  4.18e-02 -3.33e-03  3.36e-02  1.22e-02
## 86838   3.80e-03  3.34e-03 -3.52e-03  9.67e-03 -3.86e-03  8.11e-03 -4.98e-03
## 114121  1.80e-03  4.28e-05 -5.56e-04  3.04e-03 -1.82e-03  2.96e-03 -3.04e-03
## 56644   1.90e-03 -2.33e-02  2.21e-02 -6.25e-03 -1.85e-03  3.68e-03  2.22e-02
## 73060   4.98e-03  9.57e-03 -1.96e-02  2.76e-02 -5.19e-03  2.26e-02  7.43e-04
## 87080   3.21e-04 -2.94e-04  1.40e-04 -4.89e-03 -2.80e-04 -6.04e-03 -4.58e-03
## 45215  -1.34e-02 -2.18e-02  2.37e-02 -5.25e-02  1.39e-02 -3.74e-02  1.00e-02
## 41866   2.03e-03  2.41e-03 -2.91e-03  9.29e-04 -2.02e-03 -1.34e-03 -5.09e-03
## 46191   2.42e-03  2.72e-03 -3.14e-03  3.05e-03 -2.43e-03  9.74e-04 -4.92e-03
## 28863   6.28e-04 -6.12e-04  3.34e-04 -2.04e-03 -6.08e-04 -1.84e-03 -2.86e-03
## 79643  -1.10e-03 -1.73e-02  1.56e-02 -1.85e-02  1.28e-03 -1.37e-02 -6.43e-03
## 23658   8.30e-04  2.02e-04  2.40e-04  1.38e-03 -8.47e-04  3.47e-03 -1.26e-03
## 17006   3.09e-03  3.11e-03 -3.78e-03  2.99e-03 -3.10e-03  1.24e-03  1.10e-02
## 114136  2.91e-03  5.85e-03 -7.35e-03  2.59e-03 -2.91e-03 -1.24e-03 -6.89e-03
## 14536   3.74e-03  1.66e-03 -2.15e-03  9.07e-03 -3.81e-03  7.37e-03 -5.03e-03
## 11699   5.88e-02 -3.04e-02  3.30e-02 -1.51e-02 -5.86e-02  8.61e-03  2.10e-02
## 81711   4.28e-03  1.67e-02 -1.85e-02  9.46e-03 -4.37e-03  2.25e-03  2.56e-02
## 50370   2.20e-03  3.53e-04 -7.69e-04  2.58e-03 -2.20e-03  3.03e-03 -3.96e-03
## 51616   5.63e-03 -9.47e-03  9.09e-03  5.11e-03 -5.66e-03  7.80e-03  2.57e-02
## 107184  1.94e-03  1.93e-04 -7.17e-04  3.28e-03 -1.96e-03  3.06e-03 -3.12e-03
## 44926   1.17e-03  1.17e-02 -1.20e-02  8.85e-04 -1.19e-03 -3.97e-04 -2.93e-03
## 79012   3.12e-03  7.01e-04 -2.75e-04  8.87e-03 -3.19e-03  8.80e-03 -3.84e-03
## 14828   1.51e-02  3.78e-02 -4.10e-02  4.98e-02 -1.54e-02  2.89e-02 -1.39e-02
## 91276   2.09e-03  3.08e-03 -3.35e-03  2.11e-03 -2.10e-03  3.75e-03 -3.02e-03
## 61112   4.06e-03 -2.01e-02  1.94e-02  1.36e-03 -4.06e-03  1.01e-02  2.23e-02
## 34735  -8.37e-03  9.93e-03 -1.32e-02 -2.35e-02  8.59e-03 -2.62e-02  7.99e-03
## 102204 -9.47e-04 -3.14e-03  2.23e-03 -9.86e-03  1.03e-03 -8.48e-03 -3.92e-03
## 43994  -7.27e-03 -1.45e-03 -5.49e-03 -8.49e-03  7.38e-03 -1.35e-02  1.01e-02
## 74974   5.48e-04 -2.68e-02  2.56e-02 -1.32e-02 -4.28e-04 -2.74e-03  2.16e-02
## 98170   1.51e-04 -7.95e-03  5.85e-03  1.88e-02 -3.70e-04  3.15e-02  9.70e-03
## 57901   4.92e-05  3.61e-04 -8.62e-04 -9.74e-03  3.45e-05 -1.09e-02  1.18e-02
## 103556  9.30e-03 -2.02e-02  1.79e-02  2.73e-02 -9.50e-03  3.30e-02 -6.23e-03
## 4680   -1.84e-02  1.42e-03 -1.84e-03 -8.85e-03  1.84e-02 -1.00e-02  1.01e-02
## 85401  -1.06e-03 -2.11e-02  1.97e-02 -1.56e-02  1.21e-03 -7.95e-03 -4.36e-03
## 95865   1.29e-03  4.14e-04 -1.68e-03 -4.16e-03 -1.26e-03 -5.58e-03  9.05e-03
## 98627   2.78e-04  9.36e-04 -5.69e-04 -7.29e-03 -1.98e-04 -9.07e-03 -5.17e-03
## 98302   1.14e-03  7.55e-04 -1.28e-03 -5.02e-03 -1.09e-03 -6.25e-03  1.00e-02
## 75791  -5.71e-03 -1.26e-02  1.33e-02  6.89e-03  5.56e-03  2.32e-02  2.08e-02
## 54234   1.11e-03 -7.59e-04  1.38e-04  2.02e-03 -1.14e-03  3.16e-03 -2.71e-03
## 51989   3.18e-03  6.96e-04 -7.62e-04  6.50e-03 -3.22e-03  6.76e-03 -3.87e-03
## 29698  -5.10e-03  2.36e-03 -4.62e-04 -5.88e-03  5.21e-03 -1.23e-02  1.29e-02
## 122086  3.46e-03 -2.61e-02  2.35e-02  2.15e-03 -3.46e-03  8.92e-03 -5.97e-03
## 35612   3.34e-03  1.95e-02 -1.84e-02  8.15e-03 -3.40e-03  7.23e-03 -1.77e-03
## 24150   1.43e-03 -8.34e-04  5.58e-04  3.82e-03 -1.46e-03  4.97e-03 -1.37e-03
## 60691  -2.15e-03 -6.72e-03  8.85e-03  1.94e-02  1.93e-03  2.66e-02  2.04e-02
## 17695   2.62e-03  7.43e-03 -8.86e-03  4.23e-03 -2.65e-03 -1.77e-03 -7.15e-03
## 27524   1.74e-03 -1.97e-04 -1.63e-04  1.18e-03 -1.73e-03  1.80e-03 -3.90e-03
## 107679 -3.17e-03  4.11e-03  6.38e-04 -8.90e-04  3.18e-03  1.64e-03  3.01e-03
## 4314   -2.66e-02 -2.47e-02  2.43e-02 -6.77e-03  2.66e-02  2.52e-03  1.89e-02
## 96292   7.72e-04 -8.23e-04  3.72e-04 -2.30e-03 -7.41e-04 -1.23e-03 -3.65e-03
## 52750   1.27e-03  2.42e-02 -2.32e-02  3.80e-04 -1.28e-03 -4.54e-03  8.08e-03
## 63445  -1.19e-02 -3.33e-03  3.99e-03 -2.53e-02  1.20e-02 -2.82e-02  1.51e-02
## 62369  -7.89e-04 -1.77e-03  1.32e-03 -6.39e-03  8.39e-04 -4.08e-03 -2.71e-03
## 41524   1.39e-03 -7.17e-04  8.64e-04  2.39e-03 -1.40e-03  4.27e-03 -1.76e-03
## 130475 -2.02e-02 -1.50e-02  1.39e-02  3.24e-02  1.98e-02  4.15e-02  5.18e-03
## 56246  -8.47e-04 -1.70e-03  1.50e-03 -9.30e-03  9.31e-04 -8.11e-03 -3.33e-03
```

```
## 6500    2.99e-03  6.88e-04 -7.18e-04  8.02e-04 -2.99e-03  2.07e-04 -1.85e-03
## 48978   1.70e-03  6.75e-03 -7.57e-03 -2.53e-03 -1.65e-03 -9.14e-03 -8.11e-03
## 114701  1.92e-03  2.22e-04 -2.86e-04  3.12e-03 -1.94e-03  2.95e-03 -2.80e-03
## 95151   9.58e-06  1.63e-03  5.39e-04 -2.20e-03 -5.70e-06 -1.23e-03 -5.37e-04
## 53685  -7.53e-04  1.71e-03 -5.40e-04 -5.64e-03  7.88e-04 -5.29e-03 -1.35e-03
## 128501 -4.61e-02  2.27e-04 -6.27e-05  1.11e-02  4.59e-02  8.45e-03  1.38e-02
## 111498 -1.70e-02  2.75e-02 -2.42e-02 -5.09e-02  1.74e-02 -5.29e-02  1.08e-02
## 124573  3.92e-03 -9.12e-04  5.97e-04  8.64e-04 -3.92e-03  1.59e-03 -1.56e-03
## 64498  -1.21e-02 -6.68e-04  1.83e-03 -1.32e-02  1.22e-02 -1.31e-02  2.16e-02
## 8362   -2.24e-02  1.17e-02 -1.30e-02  1.24e-03  2.23e-02 -5.56e-03  1.26e-02
## 46245   3.17e-03  4.63e-03 -5.41e-03  4.13e-03 -3.21e-03  3.10e-03  1.92e-02
## 40211   1.63e-03 -3.62e-04  6.17e-04  3.79e-03 -1.67e-03  5.23e-03  5.45e-03
## 102706 -1.10e-02  2.10e-02 -1.95e-02 -2.81e-02  1.12e-02 -2.86e-02  7.39e-03
## 62703   2.29e-03  2.56e-03 -2.49e-03  1.60e-03 -2.30e-03  3.28e-03 -3.09e-03
## 26767  -2.60e-03 -6.15e-04 -2.59e-04  1.07e-03  2.63e-03  1.98e-03  1.06e-02
## 66264  -2.04e-04 -1.55e-04  5.94e-04 -5.46e-03  2.47e-04 -4.28e-03 -2.72e-03
## 8530   -8.65e-03  2.36e-03 -2.85e-03  3.50e-03  8.62e-03  1.69e-03 -4.05e-03
## 42621   2.17e-03  3.30e-03 -3.60e-03 -2.06e-03 -2.13e-03 -3.31e-03  1.76e-02
## 24753   4.04e-04 -8.50e-04  4.99e-04 -3.11e-03 -3.73e-04 -3.06e-03 -2.90e-03
## 62400   5.75e-04  1.14e-04  3.56e-04 -2.16e-07 -5.81e-04  2.09e-03 -1.24e-03
## 42853   4.51e-03 -1.85e-02  2.13e-02  8.53e-03 -4.56e-03  1.03e-02 -4.91e-03
## 21849  -3.68e-03  9.38e-03 -8.62e-03  4.42e-03  3.61e-03  2.90e-03  8.45e-03
## 127574 -2.27e-02 -1.99e-03  1.36e-03  1.62e-02  2.24e-02  2.13e-02  3.97e-03
## 64094   5.00e-03  1.11e-03 -4.02e-04  2.22e-04 -4.98e-03 -3.92e-03  2.91e-02
## 83530  -1.17e-04 -2.02e-03  1.20e-03 -5.57e-03  1.67e-04 -4.06e-03 -3.64e-03
## 86926   2.40e-03 -1.38e-04 -4.52e-05  4.24e-03 -2.44e-03  5.47e-03  9.69e-03
## 127886  9.20e-03  1.99e-03 -4.34e-04 -2.76e-03 -9.18e-03 -1.49e-03 -7.63e-04
## 53666   9.63e-04 -5.96e-05  3.06e-04  2.64e-03 -9.91e-04  4.04e-03 -7.90e-04
## 113063  4.00e-03  6.47e-03 -6.73e-03  3.40e-03 -3.98e-03 -4.02e-03 -8.85e-03
## 93356  -1.00e-03 -1.54e-02  1.90e-02 -2.28e-02  1.21e-03 -2.59e-02  2.49e-02
## 93824  -1.59e-03 -1.15e-02  1.51e-02 -1.07e-02  1.67e-03 -1.01e-02 -1.92e-03
## 125129  6.21e-03  9.72e-04 -4.89e-04  3.67e-03 -6.24e-03  4.54e-03 -1.12e-03
## 6906   -7.65e-03 -1.22e-03  1.24e-03  7.14e-04  7.62e-03  2.44e-03 -1.13e-03
## 22041   1.03e-03  1.11e-03 -1.33e-03  1.24e-04 -1.04e-03 -6.44e-04 -3.85e-03
## 55340   2.00e-03  2.98e-03 -4.05e-03 -7.40e-04 -2.00e-03 -2.26e-03  1.24e-02
## 57304   8.53e-04  2.00e-02 -1.93e-02  1.81e-03 -8.93e-04  2.15e-04 -1.07e-03
## 121518 -4.95e-04 -3.82e-03  3.53e-03 -4.86e-03  5.28e-04 -1.57e-03 -1.59e-03
## 88626  -5.45e-03 -1.26e-02  1.22e-02 -4.49e-02  5.91e-03 -5.31e-02 -1.03e-02
## 48747   3.98e-04 -9.82e-04  5.77e-04 -2.74e-03 -3.71e-04 -1.22e-03 -3.30e-03
## 83772   8.34e-04  4.97e-03 -5.02e-03  1.87e-02 -1.03e-03  2.24e-02  7.35e-03
## 63894   6.96e-03  3.21e-02 -4.04e-02  3.84e-02 -7.26e-03  3.40e-02  3.39e-03
## 119403 -2.03e-02 -4.67e-02  4.15e-02 -6.64e-02  2.08e-02 -5.29e-02  7.39e-03
## 48765   2.31e-03  2.59e-03 -3.35e-03  3.57e-03 -2.33e-03  1.66e-03 -4.92e-03
## 91249   2.48e-03  1.32e-04 -7.50e-04  4.77e-03 -2.52e-03  3.69e-03 -4.92e-03
## 42075   1.09e-03  8.79e-04 -4.94e-05  2.84e-03 -1.12e-03  5.22e-03 -8.09e-04
## 63853   9.84e-05  1.60e-03 -9.39e-04 -1.29e-03 -9.44e-05 -7.83e-04  3.93e-03
## 73878   1.45e-03 -1.72e-03  1.58e-03  2.70e-03 -1.47e-03  5.16e-03 -1.85e-03
## 62699   3.25e-05  1.70e-04 -6.95e-05 -7.31e-04 -2.71e-05 -4.67e-04 -4.76e-04
## 69435  -4.22e-03 -3.10e-02  2.91e-02 -1.06e-02  4.33e-03 -9.69e-03  2.02e-03
## 6722   -2.49e-02 -1.45e-02  1.44e-02 -2.30e-03  2.49e-02  4.46e-04  1.70e-02
## 90684  -9.30e-04  2.66e-02 -2.50e-02  1.95e-02  7.51e-04  6.26e-04  6.84e-03
## 108800 -1.27e-02  4.95e-03 -4.53e-03 -1.83e-02  1.27e-02 -1.25e-02  2.29e-02
## 114609 -6.95e-04 -2.49e-03  1.76e-03 -6.88e-03  7.54e-04 -5.77e-03 -2.85e-03
## 18802   2.03e-03  2.92e-04 -4.68e-04  4.16e-03 -2.06e-03  4.52e-03 -2.79e-03
## 111852  2.00e-03  4.58e-03 -4.09e-03 -1.57e-03 -1.97e-03 -1.44e-04 -3.10e-03
## 18427  -1.70e-02 -2.03e-03  4.60e-04 -3.84e-02  1.72e-02 -2.80e-02  1.44e-02
## 78451   2.46e-04 -2.98e-03  4.14e-03 -3.62e-03 -2.21e-04 -3.12e-03 -3.23e-03
## 24581  -8.44e-04 -1.98e-03  1.46e-03 -7.10e-03  9.00e-04 -4.96e-03 -2.88e-03
## 118516  9.19e-04  1.64e-03 -2.63e-03 -5.69e-03 -8.66e-04 -7.04e-03  1.14e-02
## 28350   1.27e-03 -1.81e-04 -1.63e-04  6.90e-04 -1.27e-03  8.18e-04 -2.90e-03
## 90451  -1.56e-03  9.62e-03 -1.09e-02  1.16e-02  1.44e-03  1.56e-02 -3.42e-02
## 22146   1.07e-04  2.15e-02 -2.15e-02  2.36e-02 -3.34e-04  1.58e-02 -4.28e-02
## 31721   3.18e-03 -6.01e-03  6.12e-03  8.13e-03 -3.24e-03  1.20e-02 -1.24e-03
## 21965  -6.86e-03  3.70e-02 -3.41e-02 -1.47e-02  6.93e-03 -2.59e-02  5.68e-03
## 8886   -1.28e-02 -3.04e-04  3.48e-04 -7.31e-03  1.29e-02 -8.20e-03 -3.49e-03
## 19869   2.81e-03 -6.33e-03  8.95e-03  5.70e-03 -2.85e-03  7.22e-03 -2.23e-03
## 160    -2.49e-02  1.87e-02 -2.03e-02  2.07e-02  2.48e-02  6.62e-03 -1.29e-02
## 76245  -2.60e-04 -1.70e-04  2.45e-04 -5.67e-03  2.97e-04 -6.27e-03 -3.77e-03
## 43546   4.57e-04 -1.24e-03  5.32e-04 -2.23e-03 -4.36e-04 -2.12e-03 -2.98e-03
## 103999 -1.58e-02 -3.92e-02  4.13e-02 -4.57e-02  1.61e-02 -2.39e-02 -3.44e-02
## 34430   1.01e-02  1.60e-02 -1.79e-02  2.93e-02 -1.03e-02  1.94e-02 -9.97e-03
## 75035   3.93e-04 -5.56e-04  4.45e-04 -1.75e-03 -3.85e-04 -8.77e-04 -2.42e-03
## 33448   2.98e-03 -3.46e-02  3.92e-02 -4.70e-03 -2.87e-03 -4.45e-03 -7.20e-03
## 62323   6.48e-03  6.42e-02 -6.07e-02  6.01e-02 -7.05e-03  3.92e-02  1.18e-02
## 107965  3.87e-03 -7.91e-03  9.38e-03  7.38e-03 -3.95e-03  9.59e-03  1.46e-02
## 98935   2.04e-03  3.51e-04 -4.92e-04  3.58e-03 -2.06e-03  3.53e-03 -2.90e-03
## 57636  -1.64e-02 -1.77e-02  2.13e-02 -3.31e-02  1.66e-02 -2.05e-02  2.48e-02
## 85547  -1.80e-03 -2.06e-02  2.35e-02 -1.62e-02  1.93e-03 -1.78e-02 -5.32e-03
## 126334  2.28e-02  1.19e-02 -1.28e-02 -2.64e-04 -2.27e-02 -7.35e-03  2.53e-02
## 89251   6.02e-04 -7.35e-04  6.61e-04  3.48e-04 -6.06e-04  1.00e-03  2.32e-03
## 68117   2.63e-04 -1.31e-03  5.51e-04 -1.82e-03 -2.58e-04 -5.10e-04 -2.66e-03
## 122044  4.75e-03  2.48e-03 -2.53e-03  8.36e-03 -4.81e-03  6.37e-03  1.13e-02
## 129425  1.89e-02  2.42e-02 -2.35e-02  1.14e-02 -1.90e-02  6.42e-03 -3.82e-03
## 17732  -7.45e-05  8.22e-04 -2.13e-03 -5.32e-03  1.15e-04 -6.55e-03 -5.06e-03
## 36781  -5.24e-03  3.22e-02 -4.30e-02 -1.26e-02  5.39e-03 -2.46e-02  1.95e-03
## 103832  1.02e-03 -4.22e-04  4.23e-04  2.43e-03 -1.04e-03  3.46e-03 -1.07e-03
## 9369   -2.96e-02 -1.17e-02  1.10e-02 -8.12e-03  2.96e-02 -5.80e-03 -6.25e-03
## 58000  -2.73e-03  1.70e-02 -1.58e-02 -3.00e-03  2.70e-03 -1.74e-03  4.42e-03
## 11364  -9.92e-03  1.73e-03 -2.31e-03  8.52e-04  9.90e-03 -4.72e-04  5.61e-03
## 50576  -8.37e-03 -6.26e-02  5.83e-02 -1.67e-03  8.38e-03  8.29e-03 -5.44e-02
## 96274   2.49e-04  1.67e-05 -3.26e-06  4.17e-04 -2.52e-04  5.65e-04 -3.86e-04
## 57608   5.14e-04 -5.39e-04  7.61e-04 -2.24e-04 -5.16e-04  1.92e-03 -1.45e-03
## 71509  -2.24e-03  7.52e-04 -8.97e-04 -1.41e-02  2.35e-03 -1.50e-02 -4.08e-03
## 19788   1.12e-02  7.27e-03 -4.92e-03  2.89e-02 -1.14e-02  2.14e-02 -7.28e-03
## 91376   7.01e-04 -1.54e-03  4.59e-04 -2.09e-03 -6.80e-04 -7.36e-04 -3.93e-03
## 57808   4.24e-03  1.03e-02 -1.93e-02  4.88e-02 -4.63e-03  5.14e-02  1.58e-02
## 37743   1.51e-03  2.51e-03 -3.04e-03  4.01e-04 -1.50e-03 -1.23e-03 -4.64e-03
## 91919   3.75e-04 -3.31e-04  3.39e-04 -2.92e-03 -3.44e-04 -2.78e-03 -2.55e-03
```

```
## 53737  -1.17e-02 -1.12e-02  1.17e-02 -1.06e-02  1.17e-02 -4.27e-03 -4.58e-02
## 70199   1.02e-05 -3.54e-03  2.17e-03  2.48e-02 -3.32e-04  4.13e-02  1.57e-02
## 76511  -1.12e-02  2.03e-02 -1.77e-02 -1.59e-02  1.14e-02 -3.68e-02 -6.10e-02
## 24265   1.27e-03  1.91e-04  3.06e-04  6.81e-04 -1.28e-03  7.72e-04 -2.38e-03
## 55505   2.12e-03  1.46e-02 -1.63e-02 -4.36e-04 -2.12e-03 -7.33e-03  2.52e-02
## 74936   1.30e-04 -6.47e-04  4.78e-04 -3.00e-03 -1.11e-04 -2.53e-03 -2.58e-03
## 44824   6.32e-04 -9.51e-04  8.60e-04  7.48e-04 -6.42e-04  1.98e-03 -1.12e-03
## 105172  1.84e-03  7.66e-05 -3.60e-04  4.82e-03 -1.89e-03  5.93e-03 -2.40e-03
## 18230  -4.79e-03 -1.41e-02  1.53e-02  1.10e-02  4.63e-03  2.31e-02 -4.02e-02
## 102311  1.81e-03 -2.84e-02  2.64e-02 -9.25e-03 -1.67e-03 -2.46e-03 -6.60e-03
## 48821   6.72e-03 -1.33e-03 -1.05e-03  3.89e-02 -7.05e-03  3.94e-02  7.94e-03
## 56283  -5.38e-04  1.64e-04  1.98e-04 -5.48e-03  5.77e-04 -5.04e-03 -2.07e-03
## 12862  -3.58e-02 -2.32e-02  2.19e-02 -7.22e-03  3.58e-02 -1.57e-03 -7.30e-03
## 32257   1.06e-02  1.12e-02 -1.23e-02  2.80e-02 -1.08e-02  2.03e-02  1.30e-02
## 5840   -2.97e-02  3.07e-02 -2.85e-02 -3.91e-03  2.97e-02 -1.11e-02 -2.59e-03
## 67837  -5.81e-04 -5.95e-05  4.03e-04 -5.94e-03  6.26e-04 -5.38e-03 -2.08e-03
## 67488   1.73e-03 -2.11e-03  1.65e-03  5.25e-03 -1.79e-03  8.47e-03 -1.70e-03
## 56880   4.72e-04  2.63e-02 -2.45e-02  1.69e-02 -6.83e-04  1.40e-02  6.67e-03
## 36990  -2.00e-03 -1.24e-02  1.57e-02 -1.24e-02  2.08e-03 -1.12e-02 -1.95e-03
## 74266   9.56e-05 -2.39e-03  1.97e-03 -6.32e-03 -4.26e-05 -5.24e-03  7.71e-03
## 26178   3.30e-03  1.18e-03 -1.82e-03  6.05e-03 -3.32e-03  5.77e-03 -4.56e-03
## 95236   4.51e-03  1.19e-02 -1.14e-02  2.45e-02 -4.71e-03  1.89e-02  1.78e-03
## 116390 -6.40e-03  3.20e-02 -2.93e-02 -3.70e-03  6.42e-03 -1.76e-02  9.00e-03
## 40426   5.73e-03  3.94e-03 -3.55e-03  1.14e-02 -5.81e-03  9.74e-03  1.82e-02
## 2716   -7.78e-03 -1.18e-03  1.53e-03  2.50e-03  7.74e-03  3.74e-03 -1.33e-03
## 49082   6.71e-03  3.72e-04 -5.97e-03  3.91e-02 -7.03e-03  3.93e-02  5.15e-03
## 32081   2.37e-03 -2.24e-04  4.04e-04  6.21e-03 -2.42e-03  7.92e-03 -1.89e-03
## 46005   1.16e-03  4.11e-02 -3.85e-02 -3.33e-03 -1.13e-03 -1.56e-02 -4.21e-03
## 97134   1.39e-03 -2.98e-03  9.61e-03  3.65e-02 -1.72e-03  4.50e-02  2.49e-02
## 7449   -2.24e-02 -6.77e-04  6.39e-04 -1.26e-02  2.25e-02 -1.28e-02 -4.34e-03
## 81248   2.35e-03 -3.06e-02  2.87e-02  1.84e-03 -2.36e-03  1.50e-02 -1.96e-03
## 126727  1.53e-02  2.00e-04 -6.88e-04  9.81e-03 -1.54e-02  1.66e-02 -8.06e-04
## 103815 -3.56e-03 -3.48e-02  4.25e-02 -1.36e-02  3.64e-03 -3.78e-03  3.42e-03
## 72199   7.70e-03  2.01e-02 -1.75e-02  1.56e-02 -7.80e-03  1.02e-02  2.39e-02
## 78748   6.16e-03  5.00e-02 -4.68e-02  5.46e-02 -6.64e-03  3.73e-02  1.07e-02
## 89279   2.34e-05  1.93e-03 -2.88e-03 -1.09e-02  9.95e-05 -1.41e-02 -6.84e-03
## 98200  -2.51e-03  2.00e-02 -1.83e-02  2.53e-03  2.42e-03  4.39e-03  6.59e-03
## 6092   -1.06e-02  1.19e-03 -1.42e-03  3.66e-03  1.06e-02  2.25e-03 -4.07e-03
## 41389   1.36e-03 -1.89e-02  2.17e-02 -5.53e-03 -1.30e-03 -4.29e-03 -5.44e-03
## 64286  -1.30e-02  5.74e-03 -8.24e-03 -9.01e-03  1.31e-02 -1.48e-02 -5.57e-02
## 94253  -4.36e-03  3.43e-04  3.60e-04 -3.59e-02  4.73e-03 -4.22e-02 -7.03e-03
## 92002   1.35e-03  6.77e-03 -7.74e-03 -5.49e-03 -1.27e-03 -1.21e-02 -8.03e-03
## 127707  8.95e-03  1.49e-04 -4.06e-04  4.92e-04 -8.93e-03  1.15e-04 -3.56e-03
## 37480  -2.54e-02 -2.03e-02  2.12e-02 -7.14e-02  2.59e-02 -5.67e-02 -4.17e-02
## 66425  -1.02e-03 -2.37e-03  1.85e-03 -9.44e-03  1.10e-03 -7.88e-03 -3.47e-03
## 129953  2.87e-02 -1.10e-02  1.04e-02 -9.71e-03 -2.86e-02 -1.00e-02 -2.76e-03
## 2188   -1.38e-02  1.35e-02 -1.51e-02  2.28e-02  1.36e-02  1.67e-02  1.03e-02
## 73148  -2.51e-04 -3.36e-04  7.96e-04 -2.67e-03  2.48e-04 -2.17e-03 -2.38e-03
## 46701   1.25e-04  1.83e-03 -2.52e-03 -4.76e-03 -8.76e-05 -6.22e-03 -4.39e-03
## 25865  -3.56e-03  1.01e-02 -1.56e-02 -2.84e-03  3.63e-03 -5.89e-03  6.86e-03
## 26623   1.43e-03 -2.64e-04  1.26e-03  3.32e-03 -1.46e-03  5.47e-03 -1.93e-03
## 25756   3.20e-03  1.14e-03 -1.99e-03  6.52e-03 -3.24e-03  6.62e-03 -4.41e-03
## 68512  -9.77e-03 -1.70e-02  1.46e-02 -1.55e-02  9.86e-03 -1.21e-02 -4.32e-02
## 38522  -5.35e-04 -4.03e-02  4.70e-02 -3.67e-03  5.33e-04  6.79e-03  1.37e-03
## 52893  -8.84e-03  1.44e-02 -1.76e-02 -1.34e-02  8.98e-03 -1.24e-02 -4.83e-02
## 69143   2.05e-03  5.01e-04 -5.80e-04  2.43e-03 -2.05e-03  3.14e-03 -3.51e-03
## 120062  3.12e-03 -3.50e-04  3.13e-04  3.40e-03 -3.14e-03  4.20e-03  1.13e-02
## 73750   6.23e-03  2.00e-02 -1.84e-02  2.94e-02 -6.40e-03  1.36e-02  1.38e-03
## 94927   1.92e-03  1.60e-04 -1.79e-04  2.50e-03 -1.93e-03  3.40e-03 -3.43e-03
## 92510   4.94e-04  8.40e-04 -3.63e-04  5.13e-04 -5.02e-04  1.07e-03  3.13e-03
## 70218  -2.74e-03  4.51e-02 -5.62e-02  1.30e-02  2.65e-03  3.86e-03 -5.47e-02
## 62794   1.38e-03 -6.28e-04  1.13e-04 -1.96e-03 -1.34e-03 -1.94e-03 -4.41e-03
## 48611   1.17e-03  3.14e-05  2.69e-04  1.39e-03 -1.18e-03  2.24e-03 -2.18e-03
## 16772  -6.02e-03  2.39e-03 -1.24e-03 -5.01e-03  6.06e-03 -1.00e-02  1.53e-02
## 40016  -3.19e-03  1.07e-02 -9.55e-03  3.18e-02  2.92e-03  2.46e-02 -5.53e-02
## 87309  -4.36e-03  1.08e-02 -6.73e-03  1.06e-02  4.33e-03  1.41e-03 -5.26e-02
## 82849   3.16e-03  8.09e-03 -9.46e-03 -6.19e-04 -3.14e-03 -6.96e-03  1.40e-02
## 62044   1.24e-03  1.40e-02 -1.37e-02  6.73e-04 -1.26e-03 -4.25e-04 -2.16e-03
## 60045   4.19e-03 -2.55e-02  2.37e-02  3.16e-03 -4.17e-03  9.86e-03 -5.43e-03
## 30200  -3.12e-04  2.05e-04  1.25e-04 -6.72e-03  3.65e-04 -7.62e-03 -3.74e-03
## 15884   7.58e-04  2.09e-03 -1.39e-03  1.62e-03 -7.82e-04  2.57e-03 -1.14e-03
## 83965  -3.40e-04 -3.97e-03  6.63e-03 -5.16e-03  3.76e-04 -3.70e-03 -1.56e-03
## 117975  1.89e-03 -7.79e-04  1.43e-03  3.36e-03 -1.93e-03  5.38e-03  1.10e-02
## 1558   -2.10e-02  3.05e-03 -2.59e-03  9.79e-03  2.09e-02  1.19e-02 -2.63e-03
## 110684  4.93e-03  8.31e-03 -8.15e-03  1.41e-02 -5.01e-03  3.76e-03 -7.60e-03
## 25174  -1.36e-02  2.20e-02 -1.99e-02 -3.06e-02  1.38e-02 -2.87e-02  1.21e-02
## 117329  1.05e-03  7.26e-03 -7.40e-03 -4.40e-03 -1.01e-03 -3.93e-03 -3.93e-03
## 126458 -3.02e-02  2.31e-03 -2.21e-03  1.02e-03  3.01e-02  8.24e-04  4.06e-03
## 13387  -2.69e-02 -1.20e-02  1.12e-02 -5.19e-03  2.69e-02  7.63e-05 -5.26e-03
## 6312   -8.52e-03  1.57e-04 -4.11e-04 -2.04e-03  8.53e-03 -3.07e-03 -3.44e-03
## 6127   -3.84e-03 -2.91e-05  4.04e-04 -1.46e-03  3.85e-03 -1.29e-03 -7.73e-04
## 27641   3.16e-03  3.88e-03 -5.04e-03  4.05e-03 -3.20e-03  2.22e-03  1.25e-02
## 37470   1.08e-03  1.52e-03 -2.53e-03 -5.25e-03 -1.04e-03 -6.72e-03  1.15e-02
## 126109  8.14e-03 -9.80e-04  6.27e-04 -5.13e-03 -8.08e-03 -4.95e-03 -3.32e-03
## 72624   3.37e-03  2.02e-02 -1.89e-02  3.42e-02 -3.68e-03  2.99e-02  8.19e-03
## 68808  -2.72e-04  8.40e-04 -2.72e-04 -3.23e-03  2.95e-04 -1.64e-03 -1.14e-03
## 118805  2.65e-04 -9.79e-04  5.53e-04 -2.52e-03 -2.43e-04 -1.77e-03 -2.70e-03
## 54595   5.35e-03 -3.84e-03  4.66e-03  3.70e-02 -5.69e-03  3.96e-02  1.18e-02
## 52562  -1.07e-02 -3.07e-02  3.00e-02 -2.57e-02  1.09e-02 -2.35e-02  9.76e-03
## 26664  -2.55e-03  5.01e-02 -5.75e-02  1.49e-02  2.42e-03  1.04e-02  1.25e-02
## 12851  -1.22e-02 -9.15e-04  1.63e-03 -1.73e-03  1.22e-02 -5.12e-04 -2.11e-03
## 20572   2.95e-03  1.43e-02 -1.60e-02  6.74e-03 -2.99e-03 -1.43e-03 -7.09e-03
## 102928  8.40e-05  1.32e-02 -1.33e-02 -5.97e-03 -4.70e-05 -7.88e-03 -3.82e-03
## 87876  -5.29e-03  3.27e-02 -3.13e-02  2.12e-02  5.08e-03  7.60e-03 -4.92e-02
## 84944   1.86e-03 -3.01e-04  6.91e-04  1.30e-03 -1.87e-03  1.99e-03  8.12e-03
## 37467   1.33e-03 -5.16e-05  1.05e-04  8.19e-04 -1.33e-03  8.12e-04 -2.71e-03
## 96685  -3.09e-04 -1.70e-03  1.53e-03 -2.47e-03  3.23e-04 -8.24e-04 -9.44e-04
## 11932  -1.90e-02  1.22e-03 -1.41e-03  2.29e-04  1.90e-02 -7.11e-04 -4.90e-03
```

```
## 69962  -1.71e-03  1.19e-03 -2.11e-03 -1.31e-02  1.82e-03 -1.46e-02 -5.09e-03
## 99961   2.45e-03  2.47e-03 -2.99e-03  5.65e-03 -2.50e-03  4.35e-03 -4.23e-03
## 43892   7.88e-04 -8.82e-04  2.84e-04 -1.05e-03 -7.78e-04 -8.74e-04 -3.06e-03
## 97078  -4.25e-04 -1.31e-03  9.41e-04 -5.48e-03  4.66e-04 -4.76e-03 -2.66e-03
## 123931  6.25e-03 -1.67e-03  9.74e-04  4.24e-03 -6.27e-03  5.44e-03 -2.12e-03
## 34485   8.75e-04 -5.91e-04  6.01e-04  2.00e-03 -8.97e-04  3.35e-03 -1.01e-03
## 75232   3.75e-03 -2.28e-02  2.09e-02  2.28e-03 -3.74e-03  8.00e-03 -5.76e-03
## 88864  -3.46e-03 -2.31e-02  2.64e-02  6.85e-03  3.33e-03  2.97e-02  2.06e-02
## 84368  -5.40e-04  6.79e-03 -7.30e-03 -1.13e-02  6.68e-04 -1.77e-02 -7.38e-03
## 65061   4.95e-03  7.49e-03 -8.78e-03  1.09e-02 -5.00e-03  6.82e-03 -7.03e-03
## 121976  1.78e-03  5.88e-05 -9.86e-05 -1.56e-03 -1.75e-03 -1.02e-03 -3.90e-03
## 51826  -1.06e-03 -1.29e-03 -9.18e-04  1.45e-03  1.02e-03  7.57e-03  2.39e-03
## 120795  1.65e-03 -2.48e-04 -4.96e-04  3.07e-03 -1.68e-03  3.67e-03 -3.06e-03
## 130126 -4.13e-02 -5.51e-03  8.96e-03  1.50e-02  4.11e-02  1.94e-02 -4.41e-02
## 40903   4.60e-04 -1.24e-03  1.18e-03 -4.13e-03 -4.29e-04 -3.24e-03  7.66e-03
## 130066  1.95e-02  3.02e-02 -2.92e-02  1.34e-02 -1.96e-02  7.08e-03 -3.24e-03
## 106568  1.75e-03  3.93e-03 -4.71e-03 -1.86e-03 -1.71e-03 -4.85e-03 -6.18e-03
## 78116  -1.68e-02 -3.91e-02  4.46e-02 -4.44e-02  1.71e-02 -2.09e-02  2.25e-02
## 130068  8.26e-03 -5.30e-04  4.24e-04 -5.61e-03 -8.20e-03 -4.87e-03 -2.66e-03
## 34397   1.80e-03 -1.72e-02  1.62e-02 -1.82e-03 -1.78e-03  6.14e-03 -3.06e-03
## 34437   4.09e-03 -7.79e-03  7.22e-03  6.62e-03 -4.13e-03  1.08e-02 -4.16e-03
## 83311  -4.28e-04 -6.73e-04  2.35e-03 -4.21e-03  4.54e-04 -3.30e-03 -1.92e-03
## 124141  1.53e-02  2.50e-02 -2.40e-02  9.34e-04 -1.53e-02 -1.64e-03 -2.02e-03
## 56522  -6.10e-04  4.76e-04  8.43e-04 -3.31e-03  6.13e-04 -6.74e-04 -7.17e-04
## 5466   -1.56e-02  1.05e-03 -1.37e-03 -2.01e-03  1.56e-02 -3.19e-03  8.97e-03
## 55849  -1.74e-02  1.42e-02 -1.04e-02 -3.19e-02  1.75e-02 -4.34e-02  2.17e-02
## 85758   4.47e-04  2.22e-03 -1.11e-03  7.31e-05 -4.53e-04  1.71e-03 -6.98e-04
## 3973   -2.09e-02 -4.27e-06  3.48e-04 -3.18e-03  2.08e-02 -3.51e-03 -4.27e-03
## 97798  -1.27e-03  6.88e-03 -8.48e-03 -1.19e-02  1.38e-03 -1.75e-02 -7.05e-03
## 115334 -3.49e-04  9.66e-05  1.05e-03 -9.04e-03  4.35e-04 -1.03e-02 -4.22e-03
## 109147  2.63e-03  3.07e-03 -3.88e-03 -2.11e-03 -2.60e-03 -4.35e-03  1.55e-02
## 69740   1.38e-03  2.32e-04  2.99e-04  3.23e-03 -1.41e-03  5.45e-03 -1.22e-03
## 80728   1.93e-03 -1.55e-03  1.18e-03  3.81e-03 -1.96e-03  5.44e-03 -2.39e-03
## 68750   3.68e-03 -2.36e-02  2.25e-02 -6.51e-03 -3.60e-03 -3.51e-03  3.29e-02
## 3103    6.91e-02  5.05e-03 -6.52e-03 -1.89e-02 -6.88e-02 -8.18e-03  2.40e-02
## 27948   2.28e-03  3.12e-03 -3.24e-03 -1.01e-03 -2.26e-03 -7.72e-04 -4.46e-03
## 43439   4.00e-04  1.38e-04  2.12e-06  5.12e-04 -4.06e-04  8.30e-04  1.56e-03
## 120550 -8.68e-04  1.97e-03 -3.16e-05 -6.83e-03  9.20e-04 -5.55e-03 -1.31e-03
## 13598   8.74e-02  2.40e-03 -3.29e-03  2.38e-02 -8.75e-02  3.16e-02  3.05e-02
## 17927   2.71e-03  3.01e-03 -3.68e-03  1.40e-03 -2.69e-03 -1.62e-03 -6.55e-03
## 94698   2.28e-04 -1.61e-03  1.94e-03 -3.71e-03 -2.17e-04 -2.28e-04  1.67e-02
## 120163  1.49e-03 -1.71e-04 -8.44e-05  2.16e-03 -1.50e-03  2.53e-03 -2.79e-03
## 115188  3.78e-03  1.11e-03 -8.33e-04  8.53e-03 -3.83e-03  4.75e-03 -5.87e-03
## 119009  1.94e-03 -3.18e-04 -6.14e-04  4.90e-03 -1.99e-03  5.64e-03 -3.15e-03
## 21934  -6.41e-05 -8.16e-03  8.23e-03 -1.40e-02  1.69e-04 -1.03e-02  2.94e-02
## 128103  1.26e-02 -9.56e-04  8.82e-04  9.23e-03 -1.27e-02  1.28e-02 -1.26e-03
## 24346   5.79e-03 -2.70e-02  2.49e-02  6.76e-03 -5.85e-03  9.20e-03  6.78e-03
## 61683   8.63e-03  4.09e-03 -1.21e-02  4.48e-02 -8.93e-03  4.27e-02  4.00e-03
## 77860   4.18e-04 -1.84e-02  2.20e-02 -4.52e-03 -3.84e-04 -1.81e-03 -2.70e-03
## 85022   2.34e-03 -2.49e-04 -5.66e-04  3.47e-03 -2.36e-03  3.49e-03  4.92e-03
## 121655  1.06e-03 -1.55e-03  3.57e-03  3.08e-03 -1.11e-03  5.25e-03 -6.52e-04
## 54150  -7.25e-04  1.12e-03 -2.76e-04 -5.35e-03  7.61e-04 -4.88e-03 -1.54e-03
## 60859   4.36e-03 -8.29e-03  8.64e-03  9.57e-03 -4.46e-03  1.01e-02  2.02e-02
## 5851   -2.06e-02 -4.83e-03  4.26e-03 -7.57e-03  2.07e-02 -5.16e-03 -4.43e-03
## 92013   2.84e-03 -1.45e-02  1.37e-02  1.43e-03 -2.84e-03  8.09e-03 -3.46e-03
## 122519  2.92e-03  8.31e-03 -9.66e-03 -2.29e-03 -2.88e-03 -8.88e-03  1.35e-02
## 79479   1.10e-03 -1.68e-03  2.69e-03  9.43e-04 -1.11e-03  1.52e-03 -2.82e-03
## 70987   2.45e-03 -1.71e-02  1.59e-02 -3.91e-03 -2.38e-03  1.56e-03 -5.76e-03
## 65907  -1.90e-02 -7.80e-03  1.49e-02 -2.95e-02  1.92e-02 -3.30e-02  2.95e-02
## 26918   1.80e-03  3.93e-03 -4.59e-03 -2.09e-03 -1.75e-03 -5.09e-03 -6.26e-03
## 8617    8.47e-02  5.84e-03 -7.16e-03 -1.58e-02 -8.44e-02 -2.11e-02  2.28e-02
## 90528   1.93e-04 -2.32e-03  1.87e-03 -5.85e-03 -1.43e-04 -4.83e-03  7.34e-03
## 84045   4.69e-04  5.07e-04  4.50e-04 -2.73e-03 -4.44e-04 -1.66e-03 -2.48e-03
## 49479   1.65e-03 -1.10e-04  4.81e-04  3.89e-03 -1.68e-03  5.03e-03 -2.06e-03
## 117692  7.86e-04 -5.45e-04  5.51e-04  9.48e-04 -7.95e-04  1.65e-03  2.69e-03
## 64320   1.08e-03  1.40e-02 -1.31e-02  8.25e-03 -1.18e-03  1.10e-02  2.86e-03
## 46240   4.32e-03 -2.68e-02  2.40e-02 -2.30e-03 -4.21e-03 -5.53e-03 -1.11e-02
## 121475  7.54e-05  2.90e-04  1.90e-04 -3.74e-03 -4.52e-05 -3.50e-03 -2.17e-03
## 9775   -2.45e-02  2.65e-02 -2.83e-02  3.68e-02  2.41e-02  2.10e-02 -1.22e-02
## 52285  -1.34e-02 -6.85e-04 -3.66e-03 -2.57e-02  1.36e-02 -2.85e-02  1.50e-02
## 35572   4.93e-04  5.64e-04 -2.64e-04  9.89e-04 -5.02e-04  1.34e-03 -5.13e-04
## 56371  -1.02e-02 -1.33e-02  1.80e-02 -1.32e-02  1.03e-02 -7.87e-03 -4.44e-02
## 15085   1.25e-04  8.67e-04 -4.91e-04 -8.89e-04 -1.21e-04 -5.81e-04  2.42e-03
## 31498   3.11e-04  6.38e-03 -1.23e-02  3.08e-02 -6.00e-04  3.35e-02  1.56e-02
## 8849    2.25e-03  7.39e-04 -6.69e-04  9.38e-04 -2.26e-03  4.95e-04  5.80e-04
## 120689  1.73e-04  3.74e-04  3.13e-04 -2.68e-03 -1.52e-04 -2.10e-03 -1.87e-03
## 63268   1.71e-03 -2.20e-04  1.05e-03  3.24e-03 -1.73e-03  3.95e-03 -2.01e-03
## 40612   5.59e-04  9.76e-04 -1.05e-03 -2.88e-03 -5.31e-04 -3.83e-03 -4.08e-03
## 122154  2.04e-03 -1.94e-04 -2.62e-04  1.91e-03 -2.04e-03  1.88e-03  4.95e-03
## 40395   7.29e-03 -3.61e-02  4.16e-02  1.79e-02 -7.45e-03  2.67e-02  2.86e-02
## 66833   1.25e-03 -5.24e-03  8.04e-03 -4.03e-04 -1.28e-03  3.25e-03  2.55e-02
## 118250  2.01e-03 -1.86e-02  1.71e-02 -6.65e-03 -1.91e-03 -2.71e-03 -6.76e-03
## 125187  1.02e-02  2.01e-04 -5.78e-05  3.47e-03 -1.02e-02  3.86e-03  9.00e-03
## 12103  -1.38e-02  2.72e-03 -3.70e-03  1.32e-03  1.38e-02 -1.07e-03 -6.05e-03
## 86049   3.12e-03  1.45e-02 -1.42e-02  5.23e-03 -3.16e-03  2.81e-03 -3.86e-03
## 27521   3.68e-04 -3.15e-04  3.83e-04 -2.57e-03 -3.45e-04 -2.03e-03 -2.43e-03
## 89838  -4.87e-04  1.37e-03 -9.23e-04 -2.32e-02  7.23e-04 -2.43e-02  2.56e-02
## 98714   8.82e-04 -1.80e-03  1.38e-03 -4.31e-03 -8.45e-04 -3.35e-03  8.49e-03
## 26627   6.85e-04 -9.14e-04  3.46e-04 -1.88e-03 -6.60e-04 -1.77e-03 -3.02e-03
## 127117  1.50e-02  1.22e-03 -1.16e-03 -1.10e-02 -1.49e-02 -1.26e-02  1.78e-02
## 52108   1.97e-03 -7.88e-05  8.43e-04  2.60e-03 -1.99e-03  4.69e-03  9.28e-03
## 25534   2.01e-03 -4.29e-05 -7.30e-05  4.54e-03 -2.05e-03  5.17e-03 -2.67e-03
## 128762  1.57e-02  1.25e-03 -6.77e-04  6.18e-03 -1.57e-02  8.08e-03 -1.71e-03
## 51449  -2.36e-03 -2.28e-02  2.13e-02 -2.25e-02  2.56e-03 -1.51e-02 -4.87e-03
## 1284    8.55e-04  2.38e-04 -1.95e-04 -4.66e-05 -8.52e-04 -2.25e-04  2.40e-04
## 55780   3.00e-03 -2.07e-02  1.93e-02 -1.37e-02 -2.84e-03 -1.31e-02  2.72e-02
## 97550   7.94e-04 -3.81e-03  2.46e-03 -3.13e-03 -7.78e-04  4.24e-04 -4.23e-03
## 34810  -7.44e-03 -1.19e-02  1.56e-02 -3.85e-03  7.51e-03  2.09e-04 -5.00e-02
```

```
## 64440  -4.71e-03 -6.56e-03  7.88e-03  5.87e-03  4.61e-03  1.20e-02  1.87e-02
## 50715   8.81e-04 -4.99e-04  1.81e-04 -1.26e-03 -8.65e-04 -1.15e-03 -2.95e-03
## 39319   3.56e-03  1.83e-03 -1.89e-03  8.95e-03 -3.63e-03  7.62e-03 -4.37e-03
## 76816   1.79e-04 -3.91e-03  5.28e-03 -1.26e-02 -7.09e-05 -1.49e-02  1.77e-02
## 105844 -9.78e-04 -4.21e-03  6.80e-03 -6.28e-03  1.01e-03 -4.35e-03 -1.14e-03
## 12744   8.87e-02  1.04e-02 -1.20e-02  3.32e-02 -8.87e-02  2.23e-02 -5.81e-02
## 93717  -1.54e-03  1.00e-03  2.93e-04 -9.47e-03  1.61e-03 -7.91e-03 -1.62e-03
## 98295  -4.90e-04 -3.18e-04  5.30e-04 -5.68e-03  5.34e-04 -5.08e-03 -2.20e-03
## 11956  -1.30e-02  7.26e-03 -6.92e-03  3.63e-03  1.30e-02  4.42e-03 -1.59e-03
## 33154   4.81e-03 -2.69e-03  2.08e-03  7.73e-03 -4.85e-03  9.25e-03 -5.49e-03
## 47915   5.58e-03  1.28e-02 -1.46e-02  1.21e-02 -5.67e-03  5.32e-03  1.54e-02
## 29916   2.49e-03  4.84e-03 -6.34e-03  4.13e-03 -2.51e-03  1.53e-03 -5.56e-03
## 29099   1.24e-02 -1.06e-02  9.04e-03  2.83e-02 -1.25e-02  2.43e-02 -1.24e-02
## 13394  -2.45e-02 -7.28e-03  1.02e-02 -3.98e-03  2.45e-02 -1.02e-03 -1.69e-03
## 11967  -1.10e-02  8.39e-04 -1.16e-03  3.71e-03  1.10e-02  2.52e-03 -4.08e-03
## 114376  1.15e-03 -5.68e-04  6.73e-05  7.79e-04 -1.15e-03  9.81e-04 -2.94e-03
## 47198  -6.72e-03 -1.55e-02  1.65e-02 -1.50e-02  6.88e-03 -1.88e-03 -4.10e-02
## 165    -2.69e-02  1.90e-03 -1.41e-03  1.56e-02  2.67e-02  1.27e-02 -5.81e-03
## 76493   1.90e-03 -1.88e-02  2.32e-02  2.13e-02 -2.09e-03  3.52e-02  1.73e-02
## 92999   9.66e-04 -7.03e-04  5.29e-04  1.97e-03 -9.83e-04  2.74e-03 -1.21e-03
## 120573  1.27e-03 -1.73e-04 -1.40e-05  7.53e-04 -1.27e-03  9.07e-04 -2.81e-03
## 53912  -5.70e-03 -2.29e-02  1.84e-02  7.07e-03  5.59e-03  1.92e-02 -4.12e-02
## 93231   2.29e-03  4.44e-02 -4.26e-02  8.40e-03 -2.38e-03  4.70e-04 -1.21e-03
## 13159  -2.75e-02  4.96e-03 -4.37e-03  5.20e-04  2.75e-02 -1.09e-03 -5.13e-03
## 125030  5.45e-03  1.45e-03 -8.35e-04  1.41e-03 -5.46e-03  2.13e-03 -9.40e-04
## 32294  -3.64e-05  5.55e-04 -8.12e-04 -6.04e-03  9.38e-05 -7.18e-03 -4.45e-03
## 43946  -6.66e-04  5.66e-04  1.36e-04 -6.12e-03  7.13e-04 -5.60e-03 -1.77e-03
## 114050  1.40e-03 -2.44e-03  2.10e-03  2.45e-03 -1.42e-03  5.21e-03 -1.92e-03
## 72939   6.34e-04 -1.83e-04  3.01e-04 -1.49e-03 -6.23e-04 -1.11e-03 -2.49e-03
## 57622  -2.71e-03  1.60e-03 -2.58e-03 -1.45e-02  2.83e-03 -1.49e-02 -4.05e-03
## 77071   2.00e-03  4.43e-03 -5.84e-03 -3.45e-05 -1.98e-03 -3.12e-03 -6.46e-03
## 121830  2.40e-03 -4.79e-04  4.61e-04  4.12e-03 -2.45e-03  5.18e-03  8.92e-03
## 90853   1.58e-03  1.20e-04 -6.69e-05  2.57e-03 -1.60e-03  4.14e-03 -2.82e-03
## 82730   3.24e-04 -7.04e-04  5.86e-04 -1.05e-04 -3.24e-04  5.11e-04 -8.95e-04
## 43492  -4.10e-04  8.13e-04 -1.17e-04 -5.30e-03  4.50e-04 -5.13e-03 -1.90e-03
## 33060   1.61e-03 -7.08e-05  3.46e-04  4.62e-03 -1.66e-03  6.18e-03 -1.80e-03
## 128530  1.28e-02 -3.22e-04 -3.38e-04  4.80e-04 -1.27e-02  1.08e-03 -4.29e-03
## 125579  8.27e-03 -1.99e-04  8.15e-04 -5.71e-03 -8.21e-03 -4.50e-03  1.11e-02
## 42090   1.86e-03 -7.92e-03  7.26e-03 -1.43e-03 -1.83e-03  3.09e-03 -3.83e-03
## 54245   1.63e-03 -4.26e-04  7.01e-04  9.95e-04 -1.64e-03  1.87e-03  7.73e-03
## 82379  -3.82e-03 -3.24e-03  4.71e-03 -2.06e-02  3.99e-03 -2.75e-02 -5.40e-03
## 859    -2.56e-02  8.48e-03 -1.04e-02 -1.89e-03  2.56e-02 -8.32e-03 -8.76e-03
## 99882  -1.51e-03 -2.50e-02  2.38e-02 -1.80e-02  1.67e-03 -9.10e-03 -3.62e-03
## 102398  4.25e-03  1.06e-02 -1.07e-02  7.62e-03 -4.31e-03  5.39e-03 -5.10e-03
## 10035  -8.60e-05 -8.01e-06  1.05e-05  8.73e-06  8.57e-05  2.49e-05 -1.64e-05
## 42285   2.26e-03 -2.25e-04  2.54e-04  3.98e-03 -2.29e-03  5.43e-03  9.97e-03
## 15861   2.08e-03  3.94e-03 -3.97e-03 -1.66e-03 -2.04e-03 -4.24e-04 -4.24e-03
## 115999  2.84e-03  9.43e-05 -1.15e-03  5.96e-03 -2.88e-03  6.40e-03 -4.53e-03
## 124647  9.13e-03 -2.57e-04 -2.42e-04  6.51e-04 -9.11e-03  7.23e-04 -3.51e-03
## 16360   1.61e-03  1.85e-03 -2.91e-03 -4.43e-03 -1.55e-03 -6.58e-03  9.36e-03
## 79415   7.06e-04  1.89e-04  5.48e-05  1.20e-03 -7.17e-04  1.86e-03 -8.14e-04
## 81615   1.12e-03 -3.46e-03  5.52e-03  1.31e-03 -1.14e-03  2.70e-03 -2.10e-03
## 69472   3.81e-05 -5.82e-04  5.28e-04 -1.01e-03 -2.93e-05 -5.29e-04 -6.80e-04
## 59956   2.18e-03  4.71e-03 -9.98e-03  1.04e-02 -2.21e-03  6.36e-03  1.12e-03
## 119506  1.96e-03  2.21e-04 -5.23e-04  3.16e-03 -1.97e-03  2.81e-03 -2.98e-03
## 38694   1.38e-02  3.13e-02 -3.38e-02  3.88e-02 -1.41e-02  2.13e-02  1.53e-02
## 53546   1.24e-03 -1.09e-03  7.07e-04 -1.45e-03 -1.22e-03 -9.78e-04  6.39e-03
## 80855  -9.17e-04 -7.93e-04  8.19e-04 -6.60e-03  9.60e-04 -5.53e-03 -2.10e-03
## 84610  -1.03e-03 -3.14e-02  3.47e-02 -2.47e-02  1.25e-03 -2.34e-02  1.97e-02
## 44936   1.50e-03 -5.51e-05 -8.32e-05  1.87e-03 -1.51e-03  2.25e-03 -2.76e-03
## 103825  3.11e-03 -8.87e-03  8.46e-03  2.17e-03 -3.13e-03  8.58e-03  1.58e-02
## 58691   1.50e-03 -8.91e-04  1.13e-03  4.86e-03 -1.55e-03  8.19e-03 -9.67e-04
## 89877   2.34e-03 -3.80e-03  5.89e-03  2.35e-03 -2.35e-03  2.46e-03 -3.12e-03
## 19105   1.03e-03 -4.26e-03  3.82e-03 -6.54e-03 -9.78e-04 -6.82e-03  8.77e-03
## 23273   4.18e-04 -8.84e-04  4.75e-04 -2.33e-03 -3.97e-04 -1.79e-03 -2.80e-03
## 116322 -1.65e-02 -6.73e-04 -1.36e-03 -3.73e-02  1.69e-02 -4.88e-02  1.78e-02
## 92194  -1.55e-02 -5.03e-02  4.95e-02 -3.44e-02  1.58e-02 -3.19e-02  1.42e-02
## 36237   2.15e-03 -4.84e-04  1.61e-03  2.99e-03 -2.18e-03  4.08e-03  8.77e-03
## 76713  -1.33e-03 -1.32e-02  1.23e-02 -1.39e-02  1.45e-03 -7.61e-03 -3.40e-03
## 403    -2.03e-02  1.53e-02 -1.69e-02  1.69e-02  2.02e-02  5.34e-03 -1.10e-02
## 69127  -2.91e-03 -2.76e-02  2.57e-02 -2.49e-02  3.14e-03 -1.79e-02 -5.29e-03
## 38788  -1.63e-02 -4.06e-03  3.60e-03 -3.19e-02  1.65e-02 -2.42e-02  2.23e-02
## 91516  -1.19e-05  1.15e-03 -1.80e-03 -5.45e-03  6.14e-05 -6.67e-03 -4.56e-03
## 83998   7.64e-04 -7.45e-05  1.64e-04  1.59e-03 -7.77e-04  2.19e-03 -8.65e-04
## 116333 -1.00e-02 -1.50e-03  1.89e-03 -2.48e-02  1.02e-02 -3.00e-02  1.24e-02
## 120884  2.39e-03 -1.31e-02  1.21e-02 -1.99e-03 -2.36e-03  3.03e-03 -4.67e-03
## 7467   -2.47e-02  1.14e-03 -4.35e-04 -1.56e-02  2.48e-02 -1.31e-02  1.67e-02
## 40879   1.31e-03 -3.43e-05  4.62e-04  2.04e-03 -1.32e-03  2.90e-03 -2.12e-03
## 25955   9.04e-04 -1.34e-04  3.68e-05 -2.54e-03 -8.80e-04 -3.70e-03 -4.58e-03
## 9276   -1.53e-02  3.06e-02 -2.90e-02  3.08e-03  1.52e-02 -3.58e-03 -2.14e-03
## 59255   1.83e-03 -2.30e-03  1.92e-03  5.44e-03 -1.88e-03  8.91e-03 -1.51e-03
## 65488   2.47e-03 -2.32e-02  2.77e-02  3.02e-05 -2.46e-03  3.06e-03 -3.12e-03
## 60524   1.65e-03 -5.66e-05 -4.93e-04  1.71e-03 -1.65e-03  1.51e-03 -3.21e-03
## 15620   2.29e-03 -5.84e-03  7.98e-03  5.96e-03 -2.35e-03  8.08e-03 -1.93e-03
## 107531 -2.17e-04  1.98e-03 -2.60e-03 -7.91e-03  3.00e-04 -9.60e-03 -5.42e-03
## 49648  -1.51e-02 -2.20e-02  2.68e-02 -3.41e-02  1.53e-02 -2.12e-02  2.15e-02
## 46830   9.60e-05  6.55e-04 -1.05e-03 -8.10e-03 -1.10e-05 -1.03e-02 -5.21e-03
## 91100  -3.47e-03  5.26e-04 -5.23e-05 -1.59e-02  3.58e-03 -1.55e-02 -2.24e-03
## 59706  -1.28e-03 -1.61e-03  2.86e-03 -1.27e-02  1.39e-03 -1.57e-02 -4.83e-03
## 111331  9.87e-04  2.71e-03 -3.67e-03 -1.79e-03 -9.62e-04 -3.61e-03 -4.92e-03
## 68690   2.90e-04 -3.01e-02  3.44e-02 -7.79e-03 -2.17e-04 -6.53e-03 -3.83e-03
## 120879  1.22e-02 -1.03e-02  1.04e-02  3.74e-02 -1.24e-02  3.62e-02 -5.87e-03
## 2363   -3.82e-03  7.03e-04 -5.17e-05  8.27e-04  3.79e-03  1.68e-03  1.63e-04
## 36455  -9.14e-03  1.65e-02 -1.89e-02 -3.14e-02  9.38e-03 -2.76e-02  5.67e-03
## 123280  8.07e-03 -2.93e-03  2.74e-03 -3.33e-03 -8.02e-03 -3.32e-04 -1.94e-03
## 64637  -5.65e-04  1.99e-03 -2.86e-03 -1.18e-02  6.91e-04 -1.45e-02 -6.21e-03
## 104598 -1.96e-04  2.60e-04  5.68e-05 -4.45e-03  2.37e-04 -4.45e-03 -2.05e-03
## 74400  -2.31e-03  1.40e-03 -2.52e-03 -1.39e-02  2.43e-03 -1.46e-02 -4.65e-03
```

```
## 99308   2.11e-03  3.04e-03 -4.25e-03  1.32e-03 -2.11e-03 -1.23e-03 -5.72e-03
## 4068   -1.92e-02  8.31e-03 -8.80e-03  1.20e-02  1.91e-02  5.16e-03 -9.04e-03
## 17420   2.96e-04  3.81e-04  2.70e-04 -2.44e-03 -2.80e-04 -2.01e-03 -2.00e-03
## 52922   2.01e-03 -7.14e-05 -3.79e-04  4.59e-03 -2.05e-03  5.17e-03 -2.91e-03
## 29037  -2.17e-03  4.77e-02 -4.59e-02  2.11e-02  2.00e-03 -5.31e-04 -5.22e-02
## 34209   2.73e-04 -1.94e-02  2.18e-02 -6.27e-03 -2.25e-04 -3.70e-03 -4.62e-03
## 63904  -8.62e-03  2.75e-02 -2.58e-02  1.25e-03  8.52e-03  4.65e-04 -3.54e-02
## 22858   7.58e-03  2.80e-02 -2.32e-02  1.14e-02 -7.65e-03  1.87e-04  3.62e-02
## 36685  -2.43e-02 -2.75e-02  2.91e-02 -4.85e-02  2.45e-02 -2.70e-02 -3.70e-02
## 14296   1.17e-03 -1.77e-03  1.53e-03 -7.22e-03 -1.10e-03 -8.09e-03  1.17e-02
## 128484 -4.44e-02 -1.27e-02  1.81e-02 -1.86e-05  4.42e-02  1.04e-02  2.10e-02
## 71151   8.93e-04 -3.55e-04  1.58e-04 -1.29e-03 -8.76e-04 -1.22e-03 -2.88e-03
## 77217   2.91e-03  1.58e-02 -1.54e-02 -1.84e-03 -2.86e-03 -8.42e-03 -7.40e-03
## 14023  -4.28e-03 -3.40e-04  2.48e-04 -3.72e-04  4.27e-03 -2.48e-04 -1.37e-03
## 98402   8.87e-04 -1.60e-03  1.31e-03  1.30e-03 -9.05e-04  2.88e-03  4.27e-03
## 32548   1.83e-03 -3.13e-03  4.59e-03  8.94e-04 -1.84e-03  8.24e-04 -3.50e-03
## 82495   2.43e-03 -1.78e-02  2.13e-02  7.65e-03 -2.52e-03  1.10e-02 -1.16e-03
## 27938   6.88e-04 -9.06e-04  3.09e-04 -1.32e-03 -6.74e-04 -1.37e-03 -2.91e-03
## 61955  -3.58e-04 -1.28e-03  1.08e-03 -8.09e-03  4.36e-04 -7.56e-03 -3.81e-03
## 19100   4.17e-03  1.53e-02 -1.71e-02  6.64e-03 -4.22e-03 -8.76e-04  2.37e-02
## 17916   2.49e-03 -5.75e-05  6.67e-05  3.74e-03 -2.52e-03  4.28e-03  7.63e-03
## 64805   2.60e-03  1.94e-02 -2.07e-02  1.05e-03 -2.56e-03 -1.36e-02 -1.02e-02
## 74303   2.81e-03  1.29e-02 -1.44e-02 -9.88e-04 -2.79e-03 -8.17e-03  2.14e-02
## 123113  1.79e-03  9.77e-03 -1.09e-02 -3.34e-03 -1.73e-03 -1.15e-02 -8.41e-03
## 117393 -4.59e-04 -7.98e-04  6.99e-04 -5.84e-03  5.05e-04 -5.39e-03 -2.52e-03
## 112981 -1.52e-02  1.87e-02 -1.91e-02 -3.41e-02  1.53e-02 -3.04e-02 -2.68e-02
## 31014  -9.97e-03  1.32e-05  1.63e-03 -7.22e-03  9.99e-03 -8.06e-03  2.01e-02
## 34504   8.36e-05 -3.56e-04  4.13e-04 -1.09e-03 -7.66e-05 -4.96e-04  2.09e-03
## 124247  1.29e-02  1.79e-03 -3.23e-03 -1.90e-03 -1.29e-02 -4.36e-03  1.06e-02
## 17444   3.00e-03  8.91e-04 -1.22e-03  6.96e-03 -3.05e-03  7.72e-03 -3.56e-03
## 63680   2.65e-03  8.72e-05  4.32e-07  9.45e-03 -2.75e-03  1.02e-02 -3.28e-03
## 9591   -7.27e-03 -3.94e-04  1.56e-04  1.46e-03  7.23e-03  2.25e-03  5.07e-03
## 122802  2.05e-03  2.16e-03 -2.90e-03  7.11e-04 -2.04e-03 -1.58e-03 -5.48e-03
## 29712   4.20e-03 -2.18e-02  1.96e-02  2.81e-03 -4.18e-03  9.32e-03 -6.90e-03
## 78882  -3.65e-03  4.09e-05 -2.20e-03 -5.17e-04  3.61e-03  8.53e-03  7.21e-03
## 69363  -1.61e-03 -2.59e-03  3.81e-03 -1.67e-02  1.77e-03 -2.41e-02 -7.14e-03
## 85422   2.23e-03  3.64e-03 -3.52e-03  1.81e-03 -2.23e-03  3.14e-03 -2.88e-03
## 51038  -1.77e-03  9.31e-04 -2.01e-03 -1.10e-02  1.85e-03 -1.17e-02 -4.00e-03
## 82742   4.74e-04  4.07e-04 -1.77e-04  9.12e-04 -4.84e-04  1.39e-03 -6.04e-04
## 40533   2.06e-03  1.40e-04 -9.63e-04  3.61e-03 -2.09e-03  3.16e-03 -3.40e-03
## 91098   2.17e-03 -3.29e-04  1.93e-04  4.17e-03 -2.22e-03  5.89e-03  1.05e-02
## 26825   1.11e-03 -6.83e-04  4.51e-04  2.74e-03 -1.13e-03  3.58e-03 -1.20e-03
## 83585   5.58e-03  3.14e-03 -3.08e-03  4.26e-02 -5.92e-03  3.61e-02  6.71e-03
## 81216   7.40e-04 -1.15e-03  9.39e-04  1.37e-03 -7.55e-04  2.69e-03 -1.17e-03
## 29269   5.13e-04  3.54e-03 -3.64e-03  2.71e-02 -7.85e-04  2.28e-02  1.44e-02
## 15474   1.06e-02 -1.65e-02  1.49e-02  2.84e-02 -1.08e-02  3.16e-02 -6.94e-03
## 5463    7.07e-02 -1.23e-02  1.24e-02  4.69e-03 -7.06e-02  1.58e-02  1.67e-02
## 79135   4.26e-03 -7.07e-03  7.22e-03  5.12e-03 -4.31e-03  1.09e-02  2.41e-02
## 72739   1.31e-03  2.05e-03 -1.82e-03  3.13e-03 -1.34e-03  3.16e-03 -3.14e-03
## 54230  -2.92e-03 -1.13e-02  1.05e-02 -2.03e-02  3.08e-03 -1.48e-02 -3.03e-03
## 70279  -1.71e-02  1.77e-03 -9.09e-04 -2.70e-02  1.74e-02 -3.14e-02 -5.42e-02
## 49192  -1.60e-02 -2.16e-02  1.96e-02 -2.27e-02  1.61e-02 -3.08e-02 -5.79e-02
## 102863 -7.04e-03  4.13e-02 -4.89e-02 -3.17e-03  7.09e-03 -1.01e-02 -5.11e-02
## 21687   3.56e-03  4.83e-03 -5.54e-03  4.48e-03 -3.56e-03  1.03e-03 -6.73e-03
## 92112  -6.80e-04  4.76e-04  2.28e-04 -4.14e-03  6.99e-04 -1.57e-03 -6.17e-04
## 17610   1.82e-03  1.36e-04 -3.33e-04  2.57e-03 -1.83e-03  2.57e-03 -2.97e-03
## 41226  -8.32e-04 -1.57e-03  3.04e-03 -8.11e-03  8.97e-04 -7.94e-03 -2.80e-03
## 71817   3.98e-04  1.19e-02 -1.38e-02 -1.35e-03 -3.81e-04 -7.85e-03 -6.67e-03
## 83395  -1.83e-04 -1.58e-03  1.07e-03 -5.62e-03  2.35e-04 -4.14e-03 -3.43e-03
## 115331  3.50e-03  4.02e-03 -4.83e-03  6.17e-03 -3.52e-03  3.17e-03 -5.69e-03
## 38062   3.14e-03  9.33e-04 -1.32e-03  5.95e-03 -3.17e-03  5.98e-03 -4.25e-03
## 67372   3.89e-05 -9.25e-04  8.67e-04 -1.59e-03 -2.71e-05 -7.80e-04 -9.61e-04
## 92683  -3.09e-03  1.13e-02 -9.87e-03 -1.79e-03  3.11e-03 -6.59e-03  6.32e-03
## 125185  1.11e-02  1.54e-03 -2.05e-03 -7.80e-03 -1.10e-02 -1.01e-02 -5.34e-03
## 89018   1.50e-03  1.64e-02 -1.64e-02  3.79e-02 -1.90e-03  4.43e-02 -3.18e-02
## 121755 -6.18e-03  1.85e-02 -1.71e-02 -4.64e-03  6.14e-03  1.10e-03  1.05e-02
## 5171    6.77e-02  2.09e-02 -2.10e-02  3.26e-02 -6.79e-02  2.83e-02  1.07e-02
## 121043  1.66e-03 -2.15e-04 -4.91e-04  1.29e-03 -1.66e-03  2.23e-03 -3.84e-03
## 58143   1.66e-04  1.19e-03 -5.48e-04  1.16e-04 -1.80e-04  1.45e-03 -3.04e-04
## 4081   -1.91e-02 -8.36e-03  7.50e-03 -6.04e-03  1.91e-02 -2.23e-03  1.19e-02
## 30897  -3.21e-04 -2.51e-03  1.50e-03 -6.40e-03  3.77e-04 -4.81e-03 -3.79e-03
## 119167  4.53e-03  4.63e-03 -5.58e-03  7.60e-03 -4.55e-03  3.80e-03 -7.39e-03
## 23067   2.18e-03 -7.61e-04  1.20e-03 -6.95e-04 -2.17e-03 -1.23e-03  1.25e-02
## 28015   7.27e-04  5.84e-03 -4.31e-03  2.66e-02 -9.68e-04  2.17e-02  1.61e-02
## 77891  -4.91e-03 -3.25e-02  3.17e-02 -3.31e-02  5.18e-03 -1.82e-02  3.14e-02
## 23026   3.74e-03 -2.76e-02  3.10e-02  6.85e-03 -3.79e-03  1.15e-02 -3.95e-03
## 19683  -4.41e-03  4.63e-02 -4.34e-02  1.03e-02  4.23e-03 -6.05e-03  1.06e-02
## 26855   1.54e-03 -1.89e-03  3.20e-03 -3.88e-03 -1.51e-03 -4.17e-03  1.25e-02
## 69664  -9.36e-03 -2.41e-03  5.18e-04 -2.09e-02  9.56e-03 -2.27e-02 -5.20e-02
## 3628   -2.15e-03 -1.76e-04  1.06e-04  5.16e-04  2.15e-03  6.30e-04  1.30e-03
## 65809   4.15e-04  4.78e-04 -2.52e-04  7.00e-04 -4.26e-04  1.30e-03 -6.71e-04
## 54775  -3.20e-03  1.48e-02 -2.14e-02  1.05e-03  3.18e-03 -3.19e-03  7.42e-03
## 68132  -1.78e-04  6.50e-04 -2.49e-04 -2.94e-03  1.96e-04 -1.49e-03 -1.33e-03
## 90788   4.43e-03 -1.97e-03  1.19e-03  3.37e-02 -4.76e-03  4.40e-02  8.83e-03
## 91045   1.41e-04 -2.97e-03  2.96e-03 -4.32e-03 -1.12e-04 -1.47e-03  8.58e-03
## 19024   5.69e-04 -7.13e-05  9.81e-05  1.17e-03 -5.81e-04  1.73e-03 -8.04e-04
## 87044   1.01e-03  1.27e-02 -1.24e-02  3.92e-05 -1.02e-03 -2.83e-04 -1.92e-03
## 80408  -1.44e-04  1.65e-03  6.67e-04 -3.07e-03  1.52e-04 -1.44e-03 -9.02e-04
## 37937   8.48e-03  3.15e-04 -1.12e-03  2.26e-02 -8.63e-03  1.77e-02 -9.15e-03
## 130531 -4.19e-02  4.32e-02 -4.10e-02  2.45e-03  4.18e-02 -1.61e-02 -4.93e-02
## 1293   -1.85e-02  8.04e-04 -5.26e-04 -5.36e-04  1.85e-02 -8.58e-04  1.23e-02
## 79407   2.07e-04  2.54e-04  1.29e-03 -8.79e-03 -1.33e-04 -8.42e-03  2.14e-02
## 91828   4.67e-03  3.71e-03 -4.76e-03  4.57e-02 -5.09e-03  4.91e-02 -4.07e-02
## 50096   1.45e-03 -1.60e-05 -1.52e-04  1.64e-03 -1.46e-03  1.97e-03 -2.77e-03
## 88166  -1.23e-02 -2.86e-02  2.74e-02 -2.95e-02  1.25e-02 -1.96e-02  1.19e-02
## 46956  -3.09e-04  1.56e-02 -1.58e-02  1.19e-02  1.76e-04  1.23e-02 -2.98e-02
## 106162  2.82e-03  4.12e-03 -4.95e-03  6.39e-03 -2.86e-03  4.46e-03 -4.75e-03
## 96430  -1.54e-04  2.71e-03 -2.55e-03 -8.35e-03  2.32e-04 -1.30e-02 -5.82e-03
```

```
## 86203  -9.42e-04 -1.59e-04  1.86e-04 -9.91e-03  1.03e-03 -1.09e-02 -4.25e-03
## 68410   1.85e-03  2.50e-03 -3.25e-03 -5.51e-04 -1.82e-03 -3.08e-03 -5.52e-03
## 37728   3.51e-03  1.93e-03 -2.11e-03  8.31e-03 -3.56e-03  6.84e-03 -4.67e-03
## 99339  -3.58e-04 -3.50e-04  4.88e-04 -5.10e-03  4.02e-04 -4.62e-03 -2.25e-03
## 87486   3.76e-04 -8.40e-04  5.18e-04 -3.10e-03 -3.47e-04 -2.83e-03 -2.87e-03
## 20714   1.55e-03 -4.98e-05  4.59e-04  1.79e-03 -1.56e-03  1.71e-03 -2.45e-03
## 117293  7.71e-05 -9.59e-04  7.59e-04 -8.41e-04 -7.01e-05 -3.97e-04 -7.49e-04
## 30503   1.72e-03 -2.76e-04  1.04e-03  4.49e-03 -1.77e-03  5.86e-03 -1.67e-03
## 28127   3.01e-03  2.77e-02 -2.67e-02  9.54e-03 -3.10e-03  3.97e-03 -1.97e-03
## 39299   4.94e-03  4.77e-03 -3.44e-03  5.95e-03 -4.95e-03 -2.03e-04 -6.24e-03
## 98268  -3.80e-04 -3.22e-05  4.63e-04 -3.79e-03  4.01e-04 -2.77e-03 -1.81e-03
## 32559   2.44e-03  2.26e-03 -2.56e-03  2.85e-03 -2.45e-03  8.49e-04 -4.96e-03
## 36279   1.30e-02 -7.67e-03  7.23e-03  3.24e-02 -1.32e-02  3.09e-02  2.60e-02
## 70385  -1.97e-04  1.42e-04  3.67e-04 -3.75e-03  2.19e-04 -2.97e-03 -1.89e-03
## 17724   1.47e-03 -2.10e-04  1.72e-04  1.83e-03 -1.48e-03  1.88e-03 -2.67e-03
## 57839   4.48e-04  3.52e-04 -1.71e-05  7.60e-04 -4.60e-04  1.87e-03 -6.48e-04
## 86819   4.39e-04 -8.15e-04  4.89e-04 -3.00e-03 -4.09e-04 -2.82e-03 -2.90e-03
## 74635  -3.95e-04 -2.72e-03  2.65e-03 -1.00e-02  4.82e-04 -7.92e-03  1.31e-02
## 123641  2.51e-02 -2.24e-03  2.00e-03 -1.16e-02 -2.49e-02 -1.61e-02 -5.58e-03
## 20223   8.62e-03  1.80e-02 -1.39e-02  2.91e-02 -8.83e-03  2.19e-02 -2.44e-03
## 93137   4.65e-03  2.16e-03 -1.89e-03  2.85e-02 -4.87e-03  3.18e-02  5.36e-03
## 128752  1.21e-02  1.04e-03 -2.22e-03 -7.16e-03 -1.20e-02 -9.29e-03  1.17e-02
## 46140   4.74e-03  1.72e-02 -1.75e-02  1.05e-02 -4.82e-03  5.57e-03 -6.03e-03
## 87303   2.17e-03  7.32e-03 -8.87e-03 -6.09e-03 -2.08e-03 -1.25e-02  1.01e-02
## 118821  2.42e-03 -4.87e-04  1.75e-03  5.91e-03 -2.48e-03  7.54e-03 -2.29e-03
## 7982    7.92e-02 -4.79e-02  4.41e-02 -2.03e-02 -7.89e-02 -2.26e-02  1.28e-02
## 129403  2.06e-02  4.22e-02 -3.95e-02 -1.61e-02 -2.04e-02 -3.16e-02 -3.73e-03
## 45711   7.54e-04 -1.09e-03  3.27e-04 -1.12e-03 -7.44e-04 -8.01e-04 -3.17e-03
## 75425  -8.19e-05  1.73e-02 -1.40e-02 -1.66e-02  2.77e-04 -3.10e-02 -8.49e-03
## 8039   -3.15e-02 -5.83e-03  6.84e-03  1.48e-02  3.13e-02  1.30e-02 -7.44e-03
## 118607 -9.60e-04 -6.48e-03  5.40e-03 -1.39e-02  1.09e-03 -9.60e-03 -4.60e-03
## 17471   1.25e-03 -3.86e-04 -1.27e-04  9.85e-04 -1.25e-03  1.43e-03 -2.97e-03
## 126396  5.94e-03  9.31e-04 -4.64e-04  2.29e-03 -5.96e-03  3.49e-03 -9.29e-04
## 91784  -4.16e-03 -3.20e-02  3.02e-02 -2.99e-02  4.44e-03 -1.84e-02 -4.33e-03
## 69928  -1.07e-02  9.20e-04  1.36e-03 -2.29e-02  1.09e-02 -3.24e-02 -5.57e-02
## 36753   7.14e-04 -1.09e-02  1.61e-02 -3.36e-03 -7.17e-04  1.50e-03  2.27e-02
## 88862  -9.10e-05 -1.65e-03  7.30e-04 -2.99e-03  1.08e-04 -5.03e-04 -2.74e-03
## 107747  1.40e-02  9.86e-03 -5.60e-03  4.03e-02 -1.44e-02  3.52e-02  3.35e-02
## 64861   3.36e-03  8.25e-03 -9.72e-03  1.25e-02 -3.48e-03  7.65e-03 -5.43e-03
## 25374   2.41e-04 -1.25e-03  6.87e-04 -3.39e-03 -2.11e-04 -3.04e-03 -2.99e-03
## 130673  1.07e-02 -6.20e-04  6.32e-04 -1.72e-04 -1.07e-02  1.23e-03  1.24e-02
## 11489  -6.33e-03 -2.35e-03  2.33e-03 -2.84e-03  6.34e-03 -1.24e-03  4.10e-03
## 67067   1.47e-03 -2.56e-03  1.56e-03 -1.53e-03 -1.47e-03 -1.66e-03  8.65e-03
## 124808  1.38e-02 -8.85e-04  6.10e-04 -2.59e-04 -1.37e-02  1.46e-03  1.52e-02
## 59889   2.49e-03 -1.30e-02  1.22e-02 -2.97e-03 -2.43e-03  1.62e-03 -5.20e-03
## 1868   -1.08e-02  2.78e-03 -3.56e-03  7.47e-03  1.08e-02  5.93e-03 -4.34e-03
## 7205   -2.06e-02  3.12e-03 -3.65e-03 -7.78e-04  2.06e-02 -4.73e-03 -6.38e-03
## 48326  -1.96e-05  6.49e-04 -4.27e-04 -1.03e-03  2.35e-05 -6.16e-04 -5.71e-04
## 41652   7.05e-04 -7.94e-04  6.98e-04  1.30e-03 -7.18e-04  2.47e-03 -1.06e-03
## 26759   7.92e-04  1.57e-04  8.22e-04  5.50e-04 -8.08e-04  1.67e-03 -1.52e-03
## 12702  -1.77e-02  3.30e-03 -4.16e-03 -6.49e-03  1.78e-02 -1.05e-02 -6.67e-03
## 90846   1.94e-03  1.73e-04 -6.96e-04  2.90e-03 -1.95e-03  3.97e-03 -3.54e-03
## 12088  -3.87e-02 -1.67e-02  1.61e-02 -6.51e-03  3.87e-02 -6.05e-04 -4.77e-03
## 51091   2.55e-03  2.37e-02 -2.26e-02  7.55e-03 -2.62e-03  4.18e-03 -1.50e-03
## 28511   1.56e-03  2.57e-04  2.26e-04  1.10e-03 -1.56e-03  2.03e-03 -3.02e-03
## 118681  1.17e-03 -1.26e-04  3.12e-06  6.09e-04 -1.16e-03  9.83e-04 -2.68e-03
## 44733  -1.34e-02  2.20e-02 -1.67e-02 -1.07e-02  1.35e-02 -2.41e-02  2.65e-02
## 85670  -1.91e-03 -2.02e-02  2.45e-02  1.96e-02  1.69e-03  3.86e-02  2.26e-02
## 113483 -1.40e-02 -1.48e-02  1.97e-02 -5.85e-03  1.39e-02  5.84e-03 -4.23e-02
## 91630  -2.69e-03 -1.19e-02  1.48e-02 -2.06e-02  2.83e-03 -1.92e-02  2.20e-02
## 92114   3.14e-03  3.31e-03 -4.22e-03  4.85e-03 -3.15e-03  2.10e-03 -5.77e-03
## 18794   1.15e-02 -2.32e-02  2.15e-02  3.08e-02 -1.17e-02  3.65e-02 -6.88e-03
## 93885   2.88e-05 -7.86e-04  6.33e-04 -8.30e-04 -2.19e-05 -3.83e-04 -6.46e-04
## 71343   1.04e-03  4.25e-04  1.23e-04  1.68e-03 -1.06e-03  3.61e-03 -1.29e-03
## 48684  -8.14e-04 -2.02e-03  1.29e-03 -4.80e-03  8.32e-04 -2.68e-03 -2.08e-03
## 119592  8.84e-04 -1.31e-03  7.83e-04 -1.66e-03 -8.71e-04 -1.28e-03  4.57e-03
## 70866   1.40e-03  3.05e-02 -2.93e-02  5.11e-03 -1.46e-03 -1.47e-04 -1.12e-03
## 35597   3.81e-03  6.17e-04 -1.39e-03  5.76e-03 -3.84e-03  6.11e-03  1.02e-02
## 12785   2.96e-03 -2.42e-04  5.32e-04  2.58e-05 -2.95e-03 -4.60e-04  1.25e-03
## 96892  -1.11e-03  1.01e-02 -1.37e-02  1.44e-02  9.29e-04  1.97e-02  1.13e-02
## 50491   2.68e-03  3.24e-03 -3.91e-03  3.00e-03 -2.68e-03  3.78e-04 -5.48e-03
## 18280   4.21e-04 -2.22e-04  4.69e-04 -3.98e-03 -3.74e-04 -3.04e-03 -3.15e-03
## 125612  1.59e-02  2.87e-03 -3.51e-03 -6.49e-03 -1.58e-02 -7.95e-03 -4.34e-03
## 117457  2.48e-03 -1.55e-03  1.46e-03  2.55e-03 -2.50e-03  3.42e-03  8.23e-03
## 22516   2.04e-03 -1.92e-02  1.76e-02 -3.47e-03 -1.99e-03  3.36e-03 -4.89e-03
## 111705  1.43e-02 -2.31e-02  2.31e-02  3.89e-02 -1.45e-02  3.39e-02 -8.41e-03
## 78871   4.76e-04 -2.70e-04  4.19e-04  9.23e-04 -4.94e-04  2.43e-03 -7.79e-04
## 78635  -1.98e-03 -4.93e-03  8.18e-03 -9.53e-03  2.03e-03 -7.23e-03 -3.68e-04
## 7173   -6.01e-03 -5.98e-04  8.58e-04 -2.99e-03  6.02e-03 -2.45e-03  3.71e-03
## 80261  -4.30e-04  3.28e-04  4.04e-04 -4.24e-03  4.51e-04 -3.15e-03 -1.51e-03
## 70742  -4.26e-04 -6.16e-04  2.12e-03 -8.33e-03  5.09e-04 -8.75e-03 -3.76e-03
## 1906   -1.34e-02  2.09e-02 -2.32e-02  2.88e-02  1.31e-02  1.64e-02  7.77e-03
## 16509  -4.19e-05  8.89e-04 -7.38e-05 -3.27e-03  6.67e-05 -3.09e-03 -1.72e-03
## 105380  1.94e-03  2.67e-04 -7.07e-04  3.38e-03 -1.96e-03  3.39e-03 -3.05e-03
## 28266   2.41e-03 -7.92e-05  1.04e-03  5.74e-03 -2.46e-03  7.29e-03 -2.48e-03
## 124555  1.48e-02 -7.47e-03  9.28e-03  4.74e-03 -1.49e-02  6.67e-03 -2.96e-03
## 93297   7.73e-04  1.29e-02 -1.28e-02 -1.83e-02 -5.50e-04 -3.12e-02  2.25e-02
## 113751 -2.28e-03 -6.05e-03  6.45e-03  2.33e-02  1.97e-03  3.16e-02  1.97e-02
## 41330   1.81e-03 -4.96e-04  7.56e-04  3.95e-03 -1.85e-03  4.68e-03 -2.43e-03
## 17565  -1.91e-02 -2.05e-02  2.19e-02 -6.50e-02  1.96e-02 -5.17e-02  1.36e-02
## 5124   -1.86e-02  1.47e-03 -2.09e-03 -8.28e-03  1.86e-02 -1.00e-02 -5.44e-03
## 103667  2.30e-03 -3.78e-06  1.18e-03  6.61e-03 -2.36e-03  8.73e-03 -1.69e-03
## 98651   8.57e-03  8.73e-03 -8.29e-03  4.45e-02 -8.95e-03  4.53e-02  5.08e-03
## 74072   6.38e-03  1.08e-02 -1.16e-02  1.50e-02 -6.49e-03  8.97e-03  1.72e-02
## 68473   2.02e-03 -7.77e-05  4.72e-04  4.75e-03 -2.06e-03  6.65e-03 -1.62e-03
## 5174   -5.26e-03 -1.79e-03  1.55e-03  4.95e-04  5.25e-03  1.93e-03  3.65e-03
## 46277  -1.02e-03 -1.08e-03  1.57e-03 -6.69e-03  1.05e-03 -6.29e-03 -2.78e-03
## 75816   3.81e-03 -2.75e-03  2.81e-03 -2.73e-04 -3.79e-03  1.92e-03  1.70e-02
```

```
## 19204  -3.39e-03 -2.39e-03  2.73e-03  1.14e-02  3.34e-03  1.14e-02 -5.30e-02
## 121018  1.87e-03  1.24e-03 -2.70e-04  5.45e-03 -1.93e-03  7.54e-03 -9.07e-04
## 751    -6.63e-03 -3.00e-04  6.48e-04 -2.11e-03  6.63e-03 -1.70e-03 -1.25e-03
## 109497  3.01e-03 -7.74e-03  9.24e-03  6.67e-03 -3.06e-03  8.39e-03 -3.53e-03
## 6154   -3.55e-03 -1.32e-03  1.10e-03 -9.05e-04  3.55e-03 -1.77e-04 -1.03e-03
## 78672  -7.05e-04  1.87e-03 -2.05e-03 -7.22e-03  7.68e-04 -7.95e-03 -4.04e-03
## 120155  1.96e-03 -5.87e-03  5.14e-03  1.26e-03 -1.97e-03  6.21e-03 -2.74e-03
## 61946   2.23e-03  1.98e-02 -1.79e-02  3.04e-02 -2.57e-03  3.17e-02  1.03e-02
## 99122  -1.07e-03 -4.25e-03  5.36e-03 -7.54e-03  1.11e-03 -6.51e-03 -3.01e-03
## 128354  1.46e-02  8.94e-04 -2.45e-03  8.82e-03 -1.47e-02  8.64e-03 -5.43e-03
## 4082    7.39e-02 -8.93e-03  1.02e-02 -3.28e-02 -7.35e-02 -2.59e-02  2.57e-02
## 11107  -2.25e-02 -4.30e-03  5.96e-03 -1.19e-02  2.26e-02 -1.31e-02  1.37e-02
## 116330  7.96e-04  6.94e-05  2.80e-04  1.12e-03 -8.08e-04  2.10e-03  3.93e-03
## 26186   1.40e-03 -5.91e-05  9.34e-04  2.21e-03 -1.43e-03  2.97e-03 -1.91e-03
## 113663  7.69e-03  6.23e-03 -6.86e-03  1.58e-02 -7.78e-03  1.15e-02 -9.14e-03
## 48284   2.58e-04 -4.23e-03  3.83e-03 -1.01e-02 -1.55e-04 -7.75e-03 -4.49e-03
## 30281   6.05e-03  2.69e-02 -2.56e-02  1.82e-02 -6.20e-03  1.35e-02 -3.28e-03
## 112388  2.59e-03  7.39e-04 -8.94e-04  6.57e-03 -2.64e-03  7.95e-03 -3.04e-03
## 127200  2.48e-02  1.70e-02 -1.45e-02 -2.59e-02 -2.45e-02 -4.14e-02 -6.82e-03
## 98291  -2.37e-03 -1.33e-02  8.98e-03  6.05e-03  2.27e-03  1.94e-02  6.49e-03
## 25403  -1.83e-04 -1.54e-03  9.04e-04 -3.90e-03  2.11e-04 -2.98e-03 -2.76e-03
## 84343   1.85e-03 -2.16e-03  1.70e-03  4.13e-03 -1.88e-03  6.59e-03 -2.17e-03
## 122124  2.00e-03  3.85e-04 -1.17e-03  4.59e-03 -2.03e-03  5.15e-03 -3.05e-03
## 114228  7.19e-04 -6.98e-04  6.05e-04  1.07e-03 -7.30e-04  1.95e-03 -1.12e-03
## 48763  -1.26e-02  3.50e-02 -4.11e-02 -2.47e-02  1.27e-02 -2.48e-02  1.28e-02
## 78187   3.91e-04 -1.06e-04  2.01e-04  4.13e-05 -3.93e-04  6.75e-04 -8.58e-04
## 4408   -9.45e-03  1.28e-03 -1.49e-03  4.65e-03  9.41e-03  3.22e-03 -4.02e-03
## 10562  -3.95e-02 -7.99e-04  4.84e-03  1.96e-02  3.93e-02  1.87e-02  3.65e-02
## 114765  2.82e-03  1.03e-03 -2.08e-03  7.83e-03 -2.89e-03  9.10e-03 -3.38e-03
## 19732  -1.20e-02  1.55e-02 -1.56e-02 -2.16e-02  1.21e-02 -1.30e-02  1.26e-02
## 69832   3.10e-03  1.25e-03 -2.20e-03  1.96e-02 -3.22e-03  1.87e-02  8.05e-03
## 11254  -1.15e-02 -4.95e-04  5.36e-04 -3.05e-03  1.15e-02 -3.67e-03 -3.46e-03
## 69716  -4.64e-03 -7.31e-03  8.19e-03  3.16e-03  4.56e-03  9.55e-03  1.52e-02
## 103603  1.78e-03 -2.02e-03  4.32e-03  2.56e-02 -1.99e-03  2.87e-02  1.71e-02
## 47589   1.99e-03  3.02e-03 -4.48e-03  4.12e-03 -2.04e-03  2.51e-03 -4.96e-03
## 77388  -1.17e-04 -4.98e-03  6.62e-03 -6.68e-03  1.69e-04 -8.46e-03 -4.17e-03
## 108230  1.73e-03  1.72e-03 -2.10e-03 -1.50e-03 -1.70e-03 -3.98e-03 -5.36e-03
## 47335   4.68e-03 -2.02e-03  1.79e-03  3.60e-02 -4.99e-03  3.93e-02  1.17e-02
## 106879  1.80e-03 -4.95e-04  3.29e-03  4.81e-03 -1.85e-03  7.38e-03 -6.19e-04
## 58390   1.02e-03 -4.20e-04  8.31e-04 -1.81e-03 -1.01e-03 -1.09e-03  7.87e-03
## 12964  -1.50e-02  2.21e-04 -5.96e-04 -5.34e-03  1.50e-02 -5.44e-03  8.86e-03
## 78604   1.34e-03 -4.29e-02  3.92e-02  3.28e-02 -1.57e-03  3.67e-02 -5.64e-02
## 104505  7.38e-04 -3.81e-04  2.04e-04  6.38e-04 -7.51e-04  2.03e-03 -2.16e-03
## 74980  -1.67e-03 -7.98e-04  1.84e-03 -8.64e-03  1.72e-03 -7.84e-03 -2.24e-03
## 21046   2.49e-03 -1.43e-04  3.76e-04  3.34e-03 -2.52e-03  5.79e-03  1.60e-02
## 44274  -8.83e-04 -1.42e-03  1.08e-03 -4.61e-03  9.00e-04 -2.61e-03 -1.90e-03
## 82540   2.12e-03  2.92e-03 -3.90e-03 -8.67e-04 -2.10e-03 -2.59e-03  1.07e-02
## 117966  1.94e-03  4.54e-05 -1.43e-05  4.39e-03 -1.98e-03  5.12e-03 -2.50e-03
## 113723 -8.16e-05 -5.29e-04  9.81e-04 -6.29e-03  1.32e-04 -5.59e-03  7.73e-03
## 43824   1.41e-03  1.14e-03 -2.18e-04  3.30e-03 -1.44e-03  5.33e-03 -9.38e-04
## 64352   1.60e-03 -7.22e-05 -5.10e-04  2.08e-03 -1.62e-03  2.39e-03 -3.09e-03
## 76163   5.37e-04  3.13e-04 -8.78e-05  6.71e-04 -5.44e-04  1.18e-03 -7.66e-04
## 62385   1.00e-03  2.03e-02 -1.79e-02  1.72e-02 -1.21e-03  2.27e-02  7.97e-03
## 122246  1.38e-02 -8.28e-03  7.99e-03  4.13e-02 -1.41e-02  3.84e-02 -8.19e-03
## 66512  -3.93e-03 -2.95e-03  1.61e-03 -5.60e-03  3.93e-03  1.07e-03  9.49e-03
## 29328  -1.72e-03  1.84e-02 -1.80e-02  3.99e-03  1.67e-03 -8.83e-03  2.50e-03
## 10225  -9.84e-03  3.89e-04  8.00e-04 -4.49e-03  9.85e-03 -3.54e-03 -5.13e-04
## 113736  5.01e-03 -1.82e-05  9.68e-04  1.00e-02 -5.08e-03  9.35e-03  1.42e-02
## 22241   8.68e-04  1.68e-06  6.32e-04  6.81e-04 -8.84e-04  1.73e-03 -1.82e-03
## 27744   4.68e-03  5.73e-03 -6.28e-03  1.26e-02 -4.76e-03  1.00e-02 -5.45e-03
## 3513   -1.28e-02  1.29e-03 -1.73e-03  2.15e-03  1.27e-02  1.52e-03  8.24e-03
## 102764  2.13e-03  7.02e-05 -1.06e-03  4.37e-03 -2.16e-03  4.38e-03 -3.49e-03
## 12791  -2.53e-02 -8.21e-03  1.11e-02 -4.45e-03  2.53e-02 -7.83e-04 -1.32e-03
## 3936   -1.36e-02  8.63e-03 -9.44e-03  5.07e-03  1.35e-02 -3.68e-04  7.38e-03
## 72226  -1.04e-02 -2.10e-02  2.25e-02 -2.52e-02  1.06e-02 -1.06e-02  1.53e-02
## 59976  -2.14e-03  4.62e-02 -4.32e-02  2.34e-02  1.89e-03  7.90e-03  1.19e-02
## 59975   3.11e-03  2.16e-02 -1.93e-02  2.40e-02 -3.33e-03  2.61e-02  6.97e-03
## 17567   6.31e-04 -5.96e-04  3.11e-04 -1.77e-03 -6.13e-04 -1.68e-03 -2.82e-03
## 124764  6.83e-03  2.19e-03 -1.20e-03  5.24e-03 -6.87e-03  6.40e-03 -5.26e-04
## 90011   1.39e-04 -1.11e-03  7.95e-04 -4.98e-03 -8.85e-05 -4.06e-03 -3.70e-03
## 31096  -5.30e-03 -4.54e-03  5.08e-03  6.93e-04  5.26e-03  5.28e-03  1.72e-02
## 14344   2.63e-03 -7.53e-05  7.94e-05  5.55e-03 -2.66e-03  6.42e-03 -3.64e-03
## 31233   1.82e-03 -1.65e-03  3.71e-03  4.56e-03 -1.87e-03  6.86e-03 -1.70e-03
## 39310   5.81e-03  1.07e-02 -1.23e-02  1.07e-02 -5.87e-03  3.93e-03  1.26e-02
## 48118   9.65e-04  2.26e-04  2.50e-04 -2.20e-03 -9.39e-04 -1.70e-03 -3.24e-03
## 101200 -7.60e-03 -1.71e-03 -3.31e-04 -9.41e-03  7.63e-03 -1.36e-02  1.24e-02
## 19851   3.87e-03  3.09e-02 -2.96e-02  1.15e-02 -3.97e-03  6.95e-03 -2.04e-03
## 66106   1.77e-03 -3.91e-04 -8.76e-04  1.66e-03 -1.77e-03  1.58e-04 -4.82e-03
## 31214   1.42e-03  8.35e-05  2.74e-04  2.48e-03 -1.45e-03  3.39e-03 -2.13e-03
## 128800  1.18e-02  1.91e-04  1.82e-03  6.04e-03 -1.19e-02  8.11e-03 -5.35e-04
## 127150  1.16e-02 -5.84e-04  6.91e-04 -8.41e-03 -1.16e-02 -6.70e-03 -2.42e-03
## 38296   2.59e-04  4.19e-04  2.10e-04 -7.99e-03 -1.67e-04 -9.71e-03 -5.29e-03
## 109083  1.61e-03 -2.51e-04  5.45e-04  4.88e-03 -1.65e-03  7.46e-03 -1.29e-03
## 52795   1.86e-04 -7.45e-04  5.18e-04 -2.14e-03 -1.72e-04 -9.22e-04 -2.31e-03
## 22856  -7.24e-03  3.22e-02 -2.88e-02  2.32e-02  7.00e-03  1.25e-02 -4.49e-02
## 61722   1.73e-03 -3.66e-04  8.37e-04  4.06e-03 -1.77e-03  5.12e-03 -2.10e-03
## 90758  -6.41e-04  1.56e-03 -2.25e-03 -1.19e-02  7.64e-04 -1.44e-02 -6.08e-03
## 37464   2.59e-03 -4.40e-03  6.18e-03  6.49e-03 -2.64e-03  7.88e-03 -2.43e-03
## 38283   2.79e-03  5.54e-04 -1.62e-03  7.82e-03 -2.86e-03  9.14e-03 -3.55e-03
## 125564  1.12e-02  2.97e-04  3.69e-04 -8.53e-03 -1.11e-02 -5.94e-03 -1.26e-03
## 3827   -1.28e-02 -9.59e-05  1.12e-03 -5.57e-03  1.28e-02 -4.66e-03 -1.80e-03
## 67798   8.01e-04 -8.64e-04  5.69e-04  1.41e-03 -8.11e-04  1.93e-03 -1.16e-03
## 80309   2.17e-03  2.86e-04 -5.14e-04  4.49e-03 -2.20e-03  4.76e-03 -2.90e-03
## 37096   5.06e-03 -9.28e-03  8.50e-03  8.62e-03 -5.10e-03  1.35e-02 -4.79e-03
## 52729  -4.97e-04 -2.30e-03  2.11e-03 -7.35e-03  5.53e-04 -5.52e-03  9.27e-03
## 26500   1.69e-03 -6.85e-04  4.11e-04  6.87e-04 -1.69e-03  1.14e-03  6.48e-03
## 124308  1.45e-02  5.83e-03 -5.81e-03 -1.25e-02 -1.44e-02 -1.21e-02 -3.26e-03
## 98828   5.14e-03  2.28e-02 -2.13e-02  9.03e-03 -5.21e-03  4.12e-03  1.56e-02
```

```
## 100077  1.72e-04 -1.46e-03  1.30e-03 -1.53e-03 -1.62e-04 -5.92e-04  2.62e-03
## 65486   7.92e-04 -2.97e-04  3.83e-04  1.51e-03 -8.08e-04  2.53e-03 -9.90e-04
## 24905  -5.96e-04  1.66e-03 -2.38e-03 -6.33e-03  6.38e-04 -7.31e-03 -3.89e-03
## 98293  -7.28e-04  5.60e-04 -1.39e-03 -9.35e-03  8.09e-04 -1.09e-02 -4.89e-03
## 114550 -1.03e-04 -2.79e-04  7.10e-07 -6.16e-03  1.55e-04 -7.12e-03 -4.53e-03
## 51434  -8.78e-03  3.98e-03 -3.22e-03  4.86e-03  8.66e-03  1.83e-02 -2.79e-02
## 77898   6.42e-04 -8.27e-04  7.68e-04  7.26e-04 -6.51e-04  1.83e-03 -1.10e-03
## 15060   1.07e-03 -5.33e-04  4.32e-04  2.06e-03 -1.08e-03  2.65e-03  2.34e-03
## 79215   2.78e-04  1.17e-03 -1.00e-03 -6.48e-03 -2.12e-04 -8.18e-03 -4.99e-03
##          dfb.dti  dfb.emp_  dfb.hm_w  dfb.ann_  dfb.term     dffit cov.r
## 48574  -1.99e-04  1.70e-02  2.01e-02  1.11e-03 -2.54e-02 -8.60e-02 1.001
## 6994    1.54e-03 -2.81e-03  1.73e-03  7.05e-04 -3.26e-04  7.41e-03 1.005
## 42099  -3.63e-03  2.36e-03  4.75e-03 -7.49e-03 -1.60e-04  2.47e-02 1.004
## 54113  -2.59e-03 -1.01e-02  7.92e-03 -5.35e-03  3.80e-03  2.09e-02 1.004
## 6260   -7.32e-03  8.89e-03 -1.03e-02  2.08e-04  6.69e-04  2.85e-02 1.005
## 85568   3.17e-04  1.18e-03  5.42e-04  1.63e-03 -1.42e-03  4.60e-03 1.005
## 49547   3.27e-03  8.61e-03  6.45e-03  1.67e-03  7.50e-03  2.99e-02 1.003
## 65527   1.53e-02 -1.73e-02  2.04e-02  4.13e-03  2.60e-02  6.64e-02 1.004
## 28899   2.50e-03 -3.19e-03 -5.43e-03 -4.77e-04 -1.82e-03  1.49e-02 1.004
## 13842  -5.51e-03 -3.14e-03 -3.61e-03 -2.29e-03 -4.09e-04  1.51e-02 1.005
## 95856  -1.98e-03 -4.14e-03  4.35e-03 -4.88e-04  9.90e-04  9.11e-03 1.003
## 130255 -2.21e-03 -1.27e-02  1.08e-02 -3.58e-03  5.61e-03  2.47e-02 1.004
## 20295   7.11e-03 -1.45e-02  1.21e-02 -2.84e-03  3.54e-03  2.74e-02 1.003
## 42141  -1.38e-04  9.39e-03 -1.42e-02  2.70e-03  1.54e-02  3.31e-02 1.002
## 52174  -5.32e-03  2.72e-03  2.79e-03  3.54e-05  1.12e-03  9.21e-03 1.003
## 28016   4.63e-03  6.85e-03  4.49e-03 -3.93e-03  1.81e-03  2.17e-02 1.003
## 38381   6.22e-03 -1.82e-04  3.78e-03 -1.37e-03  5.95e-04  1.14e-02 1.003
## 4510   -2.23e-05 -1.19e-05 -5.45e-06 -8.37e-06  5.35e-06 -6.19e-05 1.006
## 3918    6.80e-03 -5.67e-03  5.60e-03 -5.03e-04  3.63e-03  1.98e-02 1.005
## 37144  -3.22e-02  3.65e-03  2.29e-02 -8.34e-03 -3.36e-02 -7.29e-02 0.998
## 128281 -5.54e-03  7.52e-03  4.98e-03 -6.76e-03  2.09e-03  3.05e-02 1.004
## 72615  -1.64e-02  7.16e-03  1.51e-02 -5.40e-03  4.74e-02  7.21e-02 1.006
## 111612 -6.47e-03  2.91e-03  6.61e-03 -4.90e-03  4.70e-03  1.49e-02 1.003
## 27025  -3.82e-03  5.81e-03 -6.45e-03  2.70e-04 -8.33e-04  1.29e-02 1.004
## 63117  -1.15e-02 -4.82e-04  6.77e-03 -5.00e-03  4.48e-03  1.63e-02 1.003
## 30488  -1.21e-03  1.02e-02  6.27e-03 -6.23e-03  2.85e-03  3.15e-02 1.003
## 27327  -2.27e-03 -1.01e-02  6.77e-03 -8.46e-04  4.01e-03  2.58e-02 1.003
## 57130  -2.59e-03  1.42e-03  3.54e-03 -3.30e-04 -9.84e-04  9.99e-03 1.003
## 112929  1.76e-02  7.22e-03 -1.22e-02  6.51e-03  4.55e-04  2.63e-02 1.004
## 123033  2.22e-03 -1.24e-02  7.52e-03 -1.54e-04 -8.40e-05  1.98e-02 1.003
## 65263   2.04e-03  1.63e-04  6.31e-03  4.21e-03  4.06e-03  1.41e-02 1.003
## 606     8.81e-04 -4.90e-03 -6.37e-03 -3.41e-03 -4.16e-04  1.94e-02 1.005
## 53160  -5.05e-03 -7.90e-03  6.61e-03 -6.40e-03 -8.15e-05  2.31e-02 1.004
## 42987   1.66e-02  1.36e-02 -1.57e-02 -1.22e-03  6.90e-03  3.80e-02 1.004
## 43524  -2.55e-03  5.18e-04  2.61e-04  2.60e-03  1.55e-02  2.19e-02 1.017
## 109956  4.13e-03 -3.54e-03  2.77e-03  8.30e-03  1.44e-04  1.10e-02 1.004
## 50446   8.58e-04  4.63e-06  1.15e-03  3.59e-04  2.68e-04  4.56e-03 1.003
## 56958   5.42e-03 -1.73e-03  3.67e-03  1.74e-04  4.05e-04  1.09e-02 1.003
## 122818 -2.05e-03 -9.46e-03 -1.52e-02 -3.50e-03 -2.60e-02  4.18e-02 1.003
## 62942  -2.08e-02  9.24e-03 -2.58e-02 -6.75e-03 -6.96e-03 -6.71e-02 0.994
## 207    -3.28e-03  1.47e-03  2.10e-03  1.81e-03  6.48e-04  1.38e-02 1.005
## 118813 -2.64e-04  4.52e-03  2.44e-03 -1.94e-03  8.50e-04  1.26e-02 1.003
## 13692  -1.97e-02  9.72e-03  8.39e-03 -4.01e-03  1.33e-02  4.16e-02 1.006
## 41820   2.75e-03 -4.84e-04 -9.46e-03 -3.76e-04 -7.78e-04  1.99e-02 1.003
## 100701 -1.09e-02 -1.66e-02  2.20e-02 -1.22e-02  1.32e-02 -5.46e-02 1.003
## 12085  -7.94e-03  2.68e-03  1.09e-03 -1.14e-02  1.52e-02  3.64e-02 1.009
## 49436   6.89e-03 -1.02e-02 -1.07e-02 -7.11e-04  2.38e-03  2.28e-02 1.002
## 103012  1.18e-02  1.23e-02 -1.40e-02  5.08e-03  5.03e-03  2.76e-02 1.003
## 98189   1.15e-02 -2.27e-02 -6.16e-03  1.51e-02 -1.45e-02 -1.06e-01 0.997
## 85147  -1.44e-03 -5.44e-03  4.80e-03 -1.33e-03 -2.03e-05  9.54e-03 1.003
## 27801  -3.83e-04 -5.27e-03 -1.45e-02  1.05e-03  2.01e-02 -5.88e-02 1.001
## 283     3.11e-04 -8.81e-04 -3.47e-04 -3.66e-04  1.01e-05 -3.80e-03 1.005
## 98878   9.46e-03 -1.72e-03  4.74e-03 -2.72e-04  7.44e-04  1.46e-02 1.003
## 128462 -3.10e-04  7.55e-03  5.91e-03 -2.07e-03  2.60e-03  2.29e-02 1.003
## 79974   1.39e-03  2.71e-03  1.30e-03 -2.49e-03 -1.25e-03  9.28e-03 1.005
## 126862  2.16e-02 -2.10e-02  1.56e-02  2.30e-03 -2.07e-03  5.96e-02 1.002
## 83651   8.11e-04  2.40e-03  1.54e-03 -1.55e-03 -3.56e-04  6.76e-03 1.004
## 106069  1.65e-02 -1.11e-02 -1.04e-02 -1.77e-03  3.56e-03  2.84e-02 1.003
## 119256  1.25e-02  7.12e-03  3.38e-03  1.95e-03  4.27e-03  3.06e-02 1.003
## 111684 -5.55e-04 -8.27e-03 -6.49e-03 -9.02e-04  1.20e-03  1.71e-02 1.003
## 75364   1.06e-02 -4.46e-03  4.30e-03  1.11e-03 -1.73e-04  1.80e-02 1.004
## 5187    3.86e-03 -4.89e-03  3.92e-03  9.42e-04 -4.59e-03  2.50e-02 1.006
## 27426  -7.54e-04  4.22e-03  2.83e-03 -2.56e-03  8.72e-04  9.72e-03 1.003
## 73911   4.02e-03  4.31e-03  2.60e-03  5.12e-04 -1.19e-03  1.37e-02 1.004
## 73861  -5.70e-03 -5.17e-03 -9.97e-03 -2.01e-03  4.08e-03  2.52e-02 1.003
## 58140   3.07e-03 -1.33e-04  3.32e-03  2.27e-03  2.03e-04  8.17e-03 1.003
## 109689  5.11e-02 -3.13e-02 -1.73e-02  2.62e-02 -1.06e-02 -9.22e-02 0.995
## 110640  4.41e-02  4.06e-03 -2.11e-02  3.06e-03  3.49e-02 -7.63e-02 0.998
## 126757  7.08e-03  1.19e-02 -1.35e-02 -8.34e-04  6.37e-04  3.46e-02 1.004
## 72012   6.66e-03  8.44e-03  8.71e-03 -4.48e-04  9.35e-03  2.84e-02 1.003
## 59657  -1.31e-04  8.72e-04  7.06e-05  5.35e-04  7.09e-04  3.97e-03 1.005
## 16590  -1.76e-02  9.19e-03 -1.48e-02  2.98e-03 -7.12e-04  3.85e-02 1.005
## 75575  -6.49e-03  6.74e-03  3.85e-03 -6.06e-03 -2.21e-04  2.47e-02 1.004
## 116461  6.60e-03  1.64e-02 -1.66e-02 -2.23e-04  1.21e-02  3.44e-02 1.002
## 111176 -5.22e-04 -1.84e-03  7.74e-04 -6.49e-05  9.41e-04  4.22e-03 1.005
## 107305 -2.55e-03  1.67e-03  3.54e-03 -1.43e-03  6.88e-04  7.86e-03 1.003
## 37989  -5.45e-03  2.52e-03  4.32e-03  3.11e-03  2.81e-03  1.65e-02 1.004
## 87981  -5.48e-03  5.95e-03  3.01e-03 -3.75e-03 -6.50e-03  2.05e-02 1.004
## 90186   2.23e-02 -2.37e-02  2.79e-02 -2.78e-03  4.19e-02 -8.73e-02 1.003
## 75317   1.88e-02 -9.21e-03  2.45e-02  5.16e-03  6.54e-02  1.02e-01 1.006
## 175     2.84e-04 -5.23e-03  7.41e-03  1.68e-03 -1.08e-02  4.48e-02 1.005
## 14148   2.23e-03  2.90e-03  3.79e-03  6.82e-04  6.96e-04  1.06e-02 1.003
## 78623  -3.96e-03 -1.41e-02 -1.15e-02 -7.44e-03  1.42e-02  4.81e-02 1.002
## 1162   -4.46e-03 -1.05e-03  6.61e-03  8.82e-04  6.30e-03  2.40e-02 1.004
## 92461   2.72e-03  5.65e-03  2.74e-03  1.23e-04 -7.44e-03  2.09e-02 1.003
## 16827  -4.85e-03  1.79e-02 -1.80e-02 -8.13e-03  1.19e-02  4.20e-02 1.003
## 123755  9.90e-03 -1.66e-02  1.15e-02 -1.34e-03  5.48e-03  4.89e-02 1.003
## 123196  2.57e-02  3.85e-02 -2.38e-02 -1.42e-02  1.73e-02 -8.75e-02 0.996
```

```
## 4075    1.63e-02  4.65e-03  6.80e-03 -1.02e-03  8.27e-03  3.57e-02 1.005
## 3054   -1.50e-05 -5.66e-03 -5.42e-03 -3.55e-04 -3.32e-04  1.73e-02 1.005
## 16866  -3.40e-03  9.58e-03 -1.09e-02 -4.15e-03  6.93e-04  1.80e-02 1.003
## 108765 -5.55e-03 -1.53e-03 -7.55e-03 -2.74e-03  6.12e-04  2.05e-02 1.004
## 48946   9.76e-03 -1.53e-02 -1.06e-02 -1.77e-02  6.79e-02 -9.90e-02 0.997
## 83358  -1.21e-02 -1.76e-02 -1.67e-02 -8.46e-03 -3.25e-02  6.54e-02 1.001
## 46672  -4.10e-03 -3.40e-03 -1.04e-02 -4.07e-03  4.16e-03  1.90e-02 1.002
## 37661  -1.38e-02  6.63e-03  5.81e-03 -6.53e-03  3.95e-03  2.01e-02 1.004
## 93750   2.12e-02  1.08e-02  3.47e-02  2.96e-04 -2.68e-03 -6.15e-02 0.993
## 123373  2.02e-02 -3.66e-02  3.92e-02  4.66e-03 -7.07e-03 -8.20e-02 0.995
## 8802   -1.13e-03 -3.04e-03  9.26e-04 -5.35e-04  7.11e-03  1.25e-02 1.012
## 112896  5.59e-03  8.81e-03  5.28e-03  1.51e-02  1.07e-02  4.03e-02 1.005
## 109139  8.30e-04  1.37e-03  1.46e-03 -2.41e-04 -7.62e-04  5.09e-03 1.003
## 123239  2.08e-03 -1.75e-03 -1.81e-02 -7.35e-03  8.20e-04  5.30e-02 1.003
## 114732 -2.74e-02 -1.95e-02  4.38e-02 -8.43e-03 -4.39e-02 -1.05e-01 1.000
## 80733  -6.83e-03  1.25e-02 -1.66e-02 -2.78e-03 -9.69e-03  3.34e-02 1.004
## 10001   4.81e-05 -6.74e-04 -3.11e-04 -3.38e-04  1.90e-04 -2.74e-03 1.005
## 11365  -5.77e-03  3.32e-02  2.48e-02 -9.56e-03 -1.24e-02 -1.04e-01 0.998
## 32320  -3.18e-03 -4.74e-03  4.22e-03 -4.37e-03  8.99e-04  1.25e-02 1.004
## 113390  7.37e-03 -8.14e-03  8.60e-03  5.35e-04  4.32e-03  1.91e-02 1.003
## 111942  8.97e-03 -8.09e-03  1.25e-02 -3.51e-03 -2.93e-02  4.21e-02 1.002
## 1606    3.21e-02  2.42e-02  2.69e-02 -4.79e-03 -3.01e-02 -1.18e-01 0.995
## 96198  -5.54e-04  3.16e-03  2.22e-03  3.72e-03 -9.93e-05  9.38e-03 1.003
## 38985   1.11e-02 -3.28e-05  6.93e-03  1.01e-04  4.23e-03  2.01e-02 1.003
## 76617  -3.44e-02  1.25e-02  2.81e-02 -8.27e-03  6.37e-02 -8.51e-02 1.000
## 53668  -3.82e-02  1.61e-02  1.13e-02 -2.98e-03 -3.11e-03  6.66e-02 1.002
## 65241  -1.15e-04  7.62e-04  2.92e-04  1.00e-03  4.72e-04  2.82e-03 1.004
## 83037   1.42e-02  8.72e-03  2.64e-02  6.34e-03 -1.59e-02 -5.32e-02 0.995
## 89897  -5.27e-03 -7.60e-03 -5.93e-03 -1.47e-03 -7.33e-05  1.58e-02 1.003
## 3549   -9.08e-03 -2.58e-03  8.56e-03  2.57e-03  1.96e-02  4.25e-02 1.007
## 83688   2.22e-05 -1.14e-02  8.82e-03 -1.31e-03 -1.72e-02  2.96e-02 1.003
## 39079  -3.68e-02  1.13e-02 -2.33e-02 -1.33e-02 -2.31e-02  7.96e-02 1.000
## 33730   1.10e-02  8.61e-03  2.07e-03 -5.87e-03  1.59e-03  3.88e-02 1.004
## 13361  -2.60e-04  5.09e-04 -3.71e-04 -2.30e-05  2.53e-04 -1.47e-03 1.006
## 66326  -8.17e-04  1.26e-03  7.44e-04  7.48e-04 -2.16e-04  3.40e-03 1.004
## 72913  -1.59e-02  2.95e-02  3.23e-02 -7.46e-03  1.11e-03 -6.73e-02 0.994
## 47123  -1.37e-03 -4.18e-03  1.13e-02 -1.73e-03  1.50e-02  2.72e-02 1.003
## 96621   3.39e-03  2.87e-03  2.97e-03 -2.75e-03  1.05e-03  1.17e-02 1.003
## 52977  -1.05e-02 -2.81e-03 -6.67e-03 -6.02e-03  1.02e-03  2.21e-02 1.004
## 113650 -3.75e-03  7.23e-03  4.80e-03 -4.40e-03  5.19e-03  2.01e-02 1.003
## 31499   1.18e-03 -1.30e-03  6.39e-04  5.59e-03  3.71e-04  1.76e-02 1.006
## 68939  -4.75e-02  1.09e-03  2.54e-02 -7.36e-03  3.88e-02 -7.27e-02 1.001
## 30011   1.29e-02  9.13e-03  2.78e-02  1.52e-02 -8.70e-03 -5.17e-02 0.995
## 81019  -3.02e-03 -2.81e-02 -2.28e-02  1.73e-02 -4.66e-03 -6.55e-02 0.992
## 20318  -5.12e-03 -7.91e-03  6.75e-03 -3.05e-03  3.16e-03  1.82e-02 1.004
## 96795  -2.30e-03 -2.81e-03 -5.50e-03 -2.84e-03  1.98e-03  1.30e-02 1.004
## 40229   2.56e-02 -2.68e-02 -2.72e-02  1.08e-02 -4.81e-02 -9.00e-02 0.996
## 45052  -1.17e-03 -5.66e-07 -9.23e-03 -4.93e-03  4.28e-04  2.12e-02 1.004
## 14467   5.89e-03  3.02e-03  3.87e-03 -3.91e-03  1.36e-04  1.28e-02 1.003
## 97809  -2.40e-02 -8.04e-03  1.62e-02 -2.40e-03 -3.02e-02  7.86e-02 1.003
## 110762  6.13e-04  3.63e-03  2.18e-03  6.55e-05  1.25e-03  1.16e-02 1.003
## 52719   5.49e-03 -5.11e-03 -5.63e-03 -8.42e-04 -2.53e-03  1.57e-02 1.004
## 39990   3.63e-03  1.06e-03 -9.23e-03  3.66e-03  9.95e-04  1.59e-02 1.003
## 77146  -3.45e-02  1.25e-02 -1.07e-02 -2.43e-02 -5.27e-02 -1.27e-01 0.996
## 62813  -1.09e-03 -9.44e-04  7.54e-04 -1.49e-04 -8.67e-04  2.88e-03 1.005
## 16373   8.09e-04 -3.22e-03  3.50e-03  4.59e-04 -1.40e-03  1.13e-02 1.004
## 104753 -6.30e-03  2.88e-03  2.81e-03 -1.42e-03  1.17e-03  9.82e-03 1.004
## 24044  -2.50e-03 -7.18e-03  7.07e-03 -1.71e-05  2.03e-03  1.47e-02 1.003
## 38342  -2.00e-02  1.62e-02 -2.90e-02 -1.76e-03 -1.10e-02 -6.20e-02 0.994
## 42769   3.34e-03  1.23e-02  5.81e-03  8.10e-03 -1.13e-02  5.00e-02 1.002
## 38974   6.86e-03 -1.13e-02 -9.58e-03 -1.73e-03  8.38e-03  3.28e-02 1.004
## 29191   1.90e-02 -2.95e-02 -2.13e-02 -9.15e-03 -6.53e-03 -6.65e-02 0.992
## 84723   1.17e-04  2.09e-04 -1.81e-04 -7.17e-04  5.97e-05 -9.61e-04 1.005
## 96432  -2.12e-02  1.58e-02 -2.74e-02  8.25e-03 -9.91e-03 -5.57e-02 0.994
## 47543   4.48e-02 -3.31e-02  3.06e-02  7.66e-03 -1.45e-02 -7.98e-02 0.998
## 1415    7.56e-03  6.25e-03  4.69e-03  8.36e-03  2.62e-03  2.91e-02 1.005
## 11483  -8.71e-04 -8.47e-05 -2.48e-03 -4.11e-04 -1.15e-03  7.32e-03 1.005
## 49684   2.10e-02 -3.51e-02  3.25e-02  2.02e-02 -1.36e-02 -6.86e-02 0.996
## 111532 -1.74e-02  1.79e-02  2.76e-02 -7.79e-03  5.74e-02 -7.77e-02 0.999
## 10848   2.61e-04  7.92e-04 -3.29e-05 -3.64e-03  1.01e-04 -5.81e-03 1.012
## 27352  -4.53e-04 -7.77e-04 -9.03e-03  9.11e-06  8.65e-04  1.42e-02 1.003
## 103480 -3.91e-03 -7.38e-03  1.13e-02 -5.95e-03  3.34e-03  2.92e-02 1.003
## 51510   1.27e-02  1.27e-02 -1.43e-02 -1.98e-04  4.20e-03  2.91e-02 1.003
## 22489  -1.08e-02 -3.23e-03 -8.03e-03 -5.94e-03  2.48e-04  2.13e-02 1.004
## 105839  9.71e-04 -1.38e-02  1.19e-02  6.64e-03  1.65e-02  3.37e-02 1.005
## 51019  -5.66e-03  1.34e-02 -1.40e-02 -4.63e-03  4.59e-03  2.92e-02 1.003
## 29649   1.12e-03  4.90e-03  1.55e-03  4.86e-03  3.64e-03  2.11e-02 1.004
## 6352    1.00e-03  8.02e-04 -3.01e-04  1.58e-03 -6.55e-04 -4.74e-03 1.009
## 105333 -7.10e-04 -5.79e-03  5.26e-03 -2.67e-03  1.05e-03  1.11e-02 1.003
## 76715  -4.91e-03 -7.68e-03 -7.59e-03  2.86e-03  2.02e-03  2.01e-02 1.004
## 68225   3.17e-04  6.55e-03  5.81e-03 -1.48e-03  4.14e-03  1.50e-02 1.003
## 25706  -5.78e-03  1.38e-03  2.18e-03  1.97e-03  8.64e-04  9.18e-03 1.004
## 102396 -1.71e-03 -3.70e-03  3.92e-03  2.13e-03  9.02e-04  9.06e-03 1.004
## 55218   6.12e-03 -1.78e-03  5.34e-03 -1.21e-03  1.32e-03  1.93e-02 1.003
## 53022  -1.17e-02  9.06e-03 -1.59e-02 -2.49e-02  1.76e-02 -9.70e-02 0.996
## 119214 -1.53e-02 -2.75e-02 -2.22e-02  4.82e-04 -7.14e-03 -7.22e-02 0.992
## 60460  -4.55e-04  1.49e-02  1.22e-02 -3.21e-03 -1.05e-02  5.84e-02 1.001
## 53249  -5.39e-02  1.24e-02  3.18e-02 -1.60e-03 -3.44e-03 -8.76e-02 0.998
## 45114   5.30e-03 -6.74e-03 -8.06e-03  9.78e-04 -2.57e-03  2.18e-02 1.004
## 72724   2.08e-02 -3.10e-03 -1.71e-02  5.56e-04  6.45e-03  4.99e-02 1.001
## 42881  -2.65e-03  4.98e-03  1.71e-03  2.00e-03  4.34e-03  2.02e-02 1.004
## 101577 -8.47e-03 -5.90e-03 -2.05e-02 -1.04e-03  1.71e-02  5.40e-02 1.003
## 389    -7.28e-03 -2.60e-03  6.88e-03 -4.20e-04  6.26e-03  2.41e-02 1.005
## 121090  2.16e-02  2.82e-02 -3.33e-02 -3.78e-03 -2.84e-02  1.05e-01 0.999
## 22577  -1.76e-02  2.05e-02  2.20e-02  3.92e-03  2.88e-02 -6.08e-02 1.000
## 35305  -9.71e-04 -2.67e-03  1.79e-03 -1.16e-03  6.37e-05  5.36e-03 1.004
## 5065   -2.52e-04 -6.36e-04  5.70e-03  1.95e-03  1.21e-02  2.83e-02 1.006
## 119056 -4.20e-02  4.13e-02 -2.37e-02  1.21e-02  3.24e-03 -9.82e-02 0.996
```

```
## 109020 -3.53e-03  1.67e-02  9.83e-03 -1.80e-03 -1.86e-02  8.74e-02 1.002
## 126236  1.03e-03  3.27e-03  1.88e-03 -6.80e-04 -2.88e-03  1.26e-02 1.005
## 66009  -2.78e-02 -9.03e-03 -1.50e-02  1.91e-02  7.32e-04 -8.31e-02 0.996
## 93948   1.38e-02 -1.13e-02 -1.15e-02  5.54e-03 -7.49e-04  3.34e-02 1.005
## 85762  -3.10e-02 -2.17e-02 -1.53e-02  1.35e-03 -6.28e-04 -6.68e-02 0.995
## 79786  -4.33e-03  6.31e-03  3.85e-03  1.35e-03  2.69e-03  1.72e-02 1.003
## 111969  1.32e-02  1.05e-02 -1.25e-02 -2.59e-03  9.46e-04  2.58e-02 1.003
## 58561  -4.67e-04  1.37e-03  7.18e-04 -1.05e-04  3.04e-04  3.95e-03 1.004
## 70678   1.52e-02 -2.10e-02  4.11e-02 -7.77e-03 -2.47e-03 -6.27e-02 0.993
## 36451  -3.93e-02  2.42e-02 -2.42e-02 -2.49e-02 -2.19e-02  9.01e-02 1.006
## 71567   8.81e-03 -6.19e-03  5.15e-03  5.15e-04  5.76e-04  1.45e-02 1.004
## 99915   2.07e-03  5.34e-03 -9.98e-03 -1.80e-03 -2.47e-04  1.57e-02 1.003
## 29806  -2.17e-04  9.18e-03 -1.05e-02 -2.71e-04 -6.66e-04  1.78e-02 1.003
## 101891  1.47e-02 -1.02e-02 -9.86e-03  7.02e-03  7.69e-03  3.08e-02 1.003
## 99112   1.50e-02  9.34e-03 -1.38e-02 -9.66e-04  5.00e-04  2.82e-02 1.004
## 68632  -1.71e-02 -6.26e-03 -6.23e-03 -4.56e-03  9.75e-03  2.88e-02 1.004
## 1856    7.23e-04 -5.98e-03  2.86e-03 -4.91e-04 -2.66e-03  1.73e-02 1.006
## 14630  -8.29e-03 -1.45e-02  7.61e-03 -8.95e-04 -1.67e-02  3.41e-02 1.004
## 77963  -2.59e-04 -1.02e-02 -1.24e-02 -7.81e-03 -3.32e-03  3.41e-02 1.003
## 109365  1.99e-02 -1.46e-02 -1.13e-02 -2.83e-03  2.27e-03  3.65e-02 1.003
## 92568  -6.37e-04 -1.26e-03 -1.07e-02  8.59e-04  3.28e-03  1.92e-02 1.002
## 85480   3.45e-04  4.25e-03  3.59e-03 -1.03e-03 -1.65e-04  1.02e-02 1.003
## 58367   1.05e-02 -1.13e-03 -9.98e-03 -1.89e-03 -4.10e-03  2.60e-02 1.004
## 107743 -8.13e-03  1.51e-02  1.23e-02 -3.74e-03 -2.51e-02  6.10e-02 1.002
## 54004  -2.47e-03 -1.17e-03 -5.33e-03 -2.19e-04 -3.07e-03  1.30e-02 1.004
## 4566   -1.19e-02  8.40e-04  5.73e-03 -5.63e-03 -2.27e-02  3.67e-02 1.007
## 78682   1.70e-03 -2.60e-03 -9.16e-03  9.64e-04 -1.58e-03  1.89e-02 1.003
## 127491 -1.34e-02 -6.50e-03 -1.06e-02 -5.92e-03  3.58e-03  3.17e-02 1.003
## 74365   1.45e-03 -1.46e-03  2.30e-03  3.01e-03  1.29e-03  1.15e-02 1.004
## 41703   3.62e-03 -3.34e-03  1.94e-03  5.00e-04 -2.55e-03  8.52e-03 1.005
## 103092  4.05e-03  5.44e-03  1.40e-02 -2.73e-03 -2.72e-02  6.10e-02 1.002
## 1443    6.69e-03 -4.36e-02  5.42e-02 -3.35e-02 -1.88e-03 -1.37e-01 0.994
## 67852  -6.04e-05  4.09e-03  3.21e-03 -3.60e-04  1.31e-04  8.96e-03 1.003
## 90068  -1.05e-03  1.37e-03  2.25e-04 -2.17e-04  5.69e-04  5.27e-03 1.005
## 36058  -4.67e-03  3.74e-03  2.99e-03  1.93e-04  5.80e-04  9.62e-03 1.004
## 110761 -1.58e-02  1.03e-02  3.13e-02 -1.85e-02 -1.18e-02 -7.76e-02 0.996
## 94839  -8.61e-04  5.38e-03 -1.04e-02 -5.14e-03  4.07e-04  1.72e-02 1.003
## 55589   2.12e-02 -1.91e-02 -1.71e-02  1.25e-02 -4.47e-03 -8.61e-02 0.994
## 3932    1.08e-02  4.32e-03  2.78e-03  2.07e-03  8.22e-04  2.42e-02 1.006
## 23800   2.81e-03 -1.40e-02  5.27e-03  1.02e-03  2.41e-02  4.16e-02 1.007
## 106669  9.42e-03 -1.43e-02 -1.08e-02  2.69e-03  1.71e-02  4.26e-02 1.003
## 9595    2.20e-03  6.51e-03  5.43e-03  3.50e-03  7.28e-03  2.69e-02 1.005
## 7547   -2.67e-03 -1.77e-03 -1.41e-02 -3.30e-04 -1.87e-03  3.84e-02 1.005
## 123005 -2.12e-03 -6.50e-03 -7.56e-03 -3.86e-03  1.21e-03  1.70e-02 1.003
## 49881  -9.89e-03 -3.92e-04 -9.24e-03  2.63e-03  4.94e-03  2.02e-02 1.003
## 39591  -4.26e-03 -2.49e-02  1.83e-02 -1.96e-03 -2.05e-02  5.81e-02 1.002
## 52070   1.21e-03  4.23e-03  2.36e-03 -1.70e-04 -7.63e-04  1.20e-02 1.004
## 31339   1.99e-03 -3.28e-03 -1.32e-02 -8.20e-03  2.24e-03  3.13e-02 1.003
## 59815   3.81e-03  9.63e-05  2.26e-03  5.07e-03 -9.95e-05  1.22e-02 1.004
## 23082  -2.33e-03  5.92e-03  3.54e-03  3.74e-03  1.69e-03  1.79e-02 1.003
## 78767  -1.96e-02 -1.46e-02  1.62e-02 -1.95e-03  1.47e-02 -7.16e-02 1.007
## 49457  -1.38e-03 -6.33e-03  4.69e-03 -3.14e-03  4.99e-04  1.36e-02 1.004
## 41455  -9.37e-03  8.85e-03  6.22e-03  7.95e-04  7.91e-03  2.77e-02 1.003
## 104866  2.56e-03 -2.83e-02 -2.26e-02 -7.78e-03 -3.04e-03 -6.55e-02 0.992
## 92868   4.12e-03 -3.47e-02  3.88e-02  1.48e-02 -8.02e-03 -7.65e-02 0.996
## 86685   1.61e-02 -6.24e-03 -8.98e-03  4.86e-03  4.16e-04  2.41e-02 1.004
## 78104  -3.68e-02 -3.32e-02  4.14e-02  5.45e-03 -2.69e-03 -7.77e-02 0.995
## 78764   8.35e-03  2.86e-03  9.34e-03  1.76e-02 -8.56e-03  4.17e-02 1.001
## 29885   4.12e-03 -2.25e-03  2.21e-03  9.90e-04 -6.62e-04  8.19e-03 1.004
## 66532   1.68e-04  3.67e-03  2.63e-03  2.37e-03  2.44e-04  8.32e-03 1.003
## 127284  1.06e-02  2.17e-03  7.49e-03  2.45e-03  4.14e-03  2.40e-02 1.003
## 110186  5.11e-03 -3.30e-03  1.82e-03  3.70e-03 -9.68e-04  7.93e-03 1.005
## 95651  -4.20e-04  4.65e-03  4.71e-03  2.11e-05  3.67e-03  1.75e-02 1.003
## 25270  -1.64e-02  3.20e-02  3.10e-02 -2.10e-02 -7.06e-03 -8.32e-02 0.996
## 487     3.52e-03 -3.43e-03 -5.80e-03  1.57e-03 -5.83e-04  1.68e-02 1.005
## 79883   3.31e-02  6.37e-03  1.30e-02  3.27e-03  2.28e-02  5.65e-02 1.004
## 62417  -1.20e-03  2.67e-03  2.64e-03 -3.50e-03  1.68e-03  1.23e-02 1.004
## 107406 -3.37e-02  5.12e-02 -3.51e-02  8.14e-04 -4.82e-03 -8.55e-02 0.993
## 76996   9.72e-03  1.28e-02 -1.36e-02 -7.96e-04  4.80e-03  2.83e-02 1.003
## 44770   1.63e-02 -9.11e-03 -1.65e-02 -1.20e-03 -3.54e-02  5.42e-02 1.006
## 44407  -1.07e-02  1.31e-02  6.87e-03  1.05e-02 -9.46e-04  5.62e-02 1.003
## 124404 -5.66e-02  3.15e-02  3.34e-02 -4.55e-02 -5.73e-05 -9.83e-02 0.996
## 76971   1.18e-02  6.29e-03  5.45e-03 -3.15e-03  1.56e-03  2.39e-02 1.003
## 40914   5.61e-03 -8.00e-03  5.05e-03  2.21e-03  5.75e-04  1.29e-02 1.004
## 2428   -3.59e-04  8.65e-04 -5.86e-04 -1.70e-04  4.25e-04 -2.39e-03 1.005
## 51074  -3.38e-02  3.56e-02 -2.55e-02  4.91e-03  8.11e-03 -8.05e-02 0.998
## 100033  1.10e-02  1.26e-02 -1.64e-02  1.69e-04  1.19e-03  2.94e-02 1.003
## 26867   4.75e-03  7.23e-03 -8.23e-03 -1.45e-03 -2.02e-03  1.88e-02 1.004
## 26900   5.21e-03 -1.22e-02  9.07e-03 -2.32e-03  2.74e-03  1.98e-02 1.003
## 125208 -7.18e-03 -9.26e-03 -6.67e-03 -4.69e-03 -6.45e-04  2.45e-02 1.004
## 33882   3.76e-03 -7.03e-03  6.68e-03  2.75e-03  2.40e-03  2.00e-02 1.004
## 58102  -6.39e-04 -6.84e-03  4.85e-03 -1.36e-03  1.79e-04  9.94e-03 1.003
## 55312  -3.46e-04  5.53e-03 -7.53e-03  1.65e-03  5.23e-04  1.27e-02 1.004
## 103281  2.95e-03  7.11e-03 -8.51e-03 -2.07e-03 -5.04e-03  1.93e-02 1.005
## 20967  -2.44e-03  6.86e-03  5.07e-03 -5.28e-03  1.71e-03  1.64e-02 1.003
## 65416   2.06e-03  5.28e-03 -8.24e-03 -2.37e-03 -2.30e-04  1.51e-02 1.004
## 43513  -2.50e-02  4.99e-03  4.38e-02  7.38e-03 -1.99e-03 -8.79e-02 0.993
## 11826   1.90e-04 -4.82e-05  1.52e-04 -5.06e-05 -1.25e-04  7.37e-04 1.005
## 30678   3.13e-02 -4.90e-03 -2.72e-02  2.42e-02 -9.01e-03 -6.79e-02 0.992
## 109309 -9.52e-03 -1.59e-02 -1.85e-02  1.05e-02 -3.69e-02  8.94e-02 1.005
## 107469 -6.73e-03  4.18e-03  3.30e-03 -2.62e-03  1.48e-03  1.16e-02 1.004
## 66368  -2.50e-02  2.24e-02 -3.17e-02  3.31e-03 -2.42e-02 -7.35e-02 0.994
## 55059  -1.05e-02  5.25e-03  5.76e-03 -6.01e-03  3.39e-03  1.78e-02 1.003
## 88408  -2.29e-02  1.82e-02  2.85e-02  4.57e-03  3.55e-02 -7.01e-02 0.998
## 57405  -2.92e-03  4.69e-03  3.12e-03 -5.01e-03  1.17e-03  1.09e-02 1.003
## 109150  4.69e-03  1.17e-04  6.72e-03 -4.24e-04  3.57e-03  1.37e-02 1.002
## 33037   9.14e-03  1.57e-02  1.17e-02  8.34e-03 -3.47e-02 -7.19e-02 1.002
## 96734   4.13e-04 -3.19e-03  2.57e-03  5.83e-03 -3.06e-04  1.03e-02 1.005
```

```
## 100421 -4.32e-03  6.09e-03  4.39e-03  6.39e-04  1.84e-03  2.04e-02 1.004
## 39608  -6.38e-03 -1.42e-02 -9.85e-03 -5.33e-03  1.00e-02  3.30e-02 1.002
## 58551  -5.46e-04 -2.19e-03  1.46e-03 -2.39e-04 -7.51e-04  3.81e-03 1.004
## 117815  1.28e-03  2.79e-02 -2.25e-02  5.66e-03  5.18e-02 -1.31e-01 1.010
## 113202  1.74e-02 -2.84e-02 -1.56e-02  1.19e-02 -6.16e-03 -7.55e-02 0.992
## 72458   1.14e-03  3.46e-03  1.81e-03  4.14e-03 -1.13e-03  1.15e-02 1.004
## 44838   3.55e-04 -1.95e-03  1.13e-03  3.17e-04  1.70e-04  3.68e-03 1.004
## 75388   3.98e-03  4.32e-03  2.15e-03 -2.21e-03 -8.74e-04  1.57e-02 1.004
## 81669  -1.87e-03  1.18e-03  8.37e-04 -1.06e-04 -5.73e-04  3.52e-03 1.004
## 76826  -1.07e-02 -1.07e-02 -1.38e-02  5.64e-03  6.54e-03  4.13e-02 1.004
## 71588   3.71e-02  2.23e-02  1.69e-02  1.89e-02 -3.85e-02 -8.96e-02 1.000
## 120604  3.41e-02  2.24e-03 -1.23e-02  2.44e-02  1.08e-03 -7.91e-02 1.002
## 49065   1.50e-02  5.66e-03 -2.80e-02  2.07e-02 -1.15e-02 -5.69e-02 0.994
## 1957    9.27e-03 -1.62e-03  3.97e-03  6.27e-03  2.72e-03  2.07e-02 1.005
## 68124   3.70e-03 -9.52e-03 -7.31e-03 -3.66e-03 -1.19e-03  2.04e-02 1.003
## 9891   -3.56e-04  3.33e-03  5.99e-03  5.39e-03 -6.29e-04  4.94e-02 1.004
## 4646    4.15e-02  1.16e-02 -2.53e-02  3.67e-02  9.43e-03 -1.27e-01 0.995
## 45663   1.80e-02 -2.81e-03  7.53e-03  7.14e-03  5.99e-03  2.61e-02 1.004
## 7790    1.02e-02  4.27e-03  2.67e-03  2.93e-03  1.34e-03  2.29e-02 1.006
## 112252 -5.74e-03  4.04e-03  3.44e-03 -3.45e-03 -8.68e-04  1.23e-02 1.004
## 34945   1.08e-03  2.10e-03  9.77e-04  4.89e-04 -9.98e-04  7.50e-03 1.005
## 17475  -3.18e-02 -2.26e-02 -1.98e-02 -1.40e-02 -1.33e-02 -6.35e-02 0.994
## 94084   5.33e-03 -2.09e-02 -4.96e-03 -1.34e-01  7.32e-03 -1.74e-01 0.998
## 72569   3.80e-02  3.80e-02 -3.52e-02  3.62e-03 -1.29e-02 -7.77e-02 0.993
## 15859  -9.66e-03  5.67e-03  4.87e-03  2.76e-03  4.14e-03  1.70e-02 1.004
## 124435 -3.24e-02 -1.78e-02 -7.19e-03  1.97e-02 -7.02e-02 -1.33e-01 1.001
## 74965   2.19e-03  8.87e-03  6.17e-03 -8.21e-04 -2.58e-02  3.42e-02 1.003
## 77011   1.56e-03  5.38e-03  3.75e-03  6.17e-03  1.13e-03  1.85e-02 1.003
## 9524    3.89e-03  3.38e-03  8.80e-04 -2.36e-03  3.87e-03  2.12e-02 1.007
## 80384   9.16e-03  6.97e-04 -1.35e-02  1.13e-03  1.36e-03  2.37e-02 1.002
## 12975   7.32e-04 -5.43e-03  4.03e-03 -1.95e-04  1.35e-03  1.61e-02 1.005
## 102244  3.87e-04 -8.04e-03  7.60e-03 -3.17e-03  1.12e-03  1.70e-02 1.003
## 61376   4.91e-03  6.39e-03  6.29e-03 -2.78e-03  2.66e-03  2.08e-02 1.003
## 110550  9.63e-03 -5.04e-03 -1.28e-02 -6.25e-03  9.80e-04  2.65e-02 1.002
## 55954  -7.20e-04  7.81e-04  9.12e-04 -1.60e-03 -3.38e-04  5.66e-03 1.004
## 9644    4.56e-04 -3.92e-03 -4.46e-03  2.90e-03 -8.20e-04  1.48e-02 1.005
## 61761  -4.25e-04  7.40e-03  3.98e-03  1.03e-02 -1.01e-02  2.56e-02 1.003
## 60266  -1.62e-02 -4.86e-03 -7.64e-03 -5.34e-03  3.41e-03  2.70e-02 1.004
## 44370  -4.75e-02 -2.70e-02 -2.08e-02  9.72e-03  1.80e-02 -9.84e-02 0.992
## 99011   5.18e-03  8.34e-03 -1.11e-02  6.71e-03 -1.08e-03  2.00e-02 1.003
## 39136  -5.80e-03 -5.74e-03 -6.57e-03 -2.50e-03  1.47e-03  1.64e-02 1.003
## 23080   9.25e-04  4.66e-03  5.43e-03  7.68e-04  2.77e-03  1.58e-02 1.003
## 24345   1.13e-02  1.05e-02 -1.55e-02 -4.51e-03  1.42e-04  3.23e-02 1.004
## 130220  3.49e-03  1.20e-02 -1.30e-02 -3.51e-03 -2.04e-04  3.31e-02 1.004
## 43562  -8.81e-03  1.65e-03 -9.04e-03 -1.17e-03  1.26e-03  1.80e-02 1.003
## 102683 -4.32e-03 -1.36e-02 -9.11e-03  7.41e-04  1.64e-02  3.79e-02 1.003
## 116085 -8.86e-03  6.20e-03  5.53e-03 -1.78e-03  3.66e-03  1.72e-02 1.003
## 71031   3.19e-04 -5.42e-03  3.56e-03  1.80e-03 -1.45e-02  2.03e-02 1.006
## 26969  -1.67e-03  4.29e-03  2.91e-03 -1.20e-03  9.71e-04  9.04e-03 1.003
## 41870  -4.85e-05 -1.47e-03  1.09e-03  4.41e-04  4.62e-05  3.13e-03 1.004
## 75270   3.54e-03  6.38e-03  4.48e-03 -4.79e-03  1.12e-03  2.31e-02 1.003
## 127781 -5.46e-03 -2.16e-02  1.80e-02  8.58e-04  9.84e-03  5.54e-02 1.004
## 42755  -1.42e-02  4.26e-03  7.03e-03 -9.08e-05  1.98e-03  3.53e-02 1.003
## 125732  1.05e-02 -5.47e-03  3.85e-03 -1.63e-03  1.59e-02  3.80e-02 1.007
## 65855   6.61e-03 -5.87e-03  4.23e-03 -3.80e-03 -3.44e-04  1.66e-02 1.004
## 5922   -7.38e-03  2.55e-03 -9.99e-03 -5.68e-04  1.23e-02  3.56e-02 1.004
## 46102   3.61e-03 -7.88e-03  5.55e-03  1.07e-03 -2.06e-04  2.03e-02 1.003
## 15781  -1.14e-02  1.01e-02  7.48e-03 -1.01e-02  1.12e-02  3.11e-02 1.004
## 77561  -2.65e-03 -4.56e-03  3.47e-03  2.06e-03  5.92e-04  8.26e-03 1.003
## 104815 -3.67e-03 -7.98e-03 -6.31e-03 -2.66e-03  5.33e-04  1.59e-02 1.003
## 9621    9.39e-03  1.02e-02 -1.22e-02 -2.98e-03  1.76e-03  3.29e-02 1.005
## 71998  -8.59e-04 -3.74e-03 -4.54e-03  1.85e-03 -1.35e-03  1.06e-02 1.004
## 120052  4.28e-02  3.71e-02 -3.49e-02  1.75e-02 -5.82e-03 -1.07e-01 0.992
## 58113  -1.06e-03  6.32e-03 -7.52e-03 -3.42e-03 -1.93e-03  1.40e-02 1.004
## 37091  -1.89e-03 -3.75e-02  4.28e-02  1.70e-02  1.10e-02 -9.17e-02 0.995
## 11970   3.92e-03 -1.47e-02  1.04e-02  6.69e-03  1.21e-02  4.80e-02 1.006
## 34641  -5.59e-03  1.24e-02 -1.24e-02 -7.74e-05  4.29e-03  2.41e-02 1.003
## 65512  -1.11e-03 -1.63e-04  8.05e-04  2.37e-04 -7.00e-04  2.58e-03 1.004
## 79353  -4.74e-03  6.17e-03  4.57e-03 -2.33e-03  1.78e-03  1.82e-02 1.003
## 25603   4.97e-02 -2.68e-02 -1.08e-02  2.66e-03  2.50e-02 -1.32e-01 0.997
## 83997   8.29e-04  6.82e-03  6.04e-03 -9.63e-04  6.58e-03  1.81e-02 1.003
## 101586 -1.49e-03 -3.40e-04 -4.82e-03  2.42e-03 -2.72e-03  1.08e-02 1.004
## 69535   1.72e-02 -6.32e-03 -1.99e-02 -6.19e-03 -4.35e-02  6.30e-02 1.004
## 62018  -2.68e-03  2.57e-03  4.61e-03 -3.92e-03  1.03e-03  2.02e-02 1.004
## 46349  -9.21e-03 -3.94e-03  6.03e-03 -3.89e-03  1.69e-03  2.00e-02 1.004
## 22931  -2.61e-02  3.07e-02 -2.23e-02  5.19e-03  3.41e-02 -8.84e-02 1.000
## 5489   -5.95e-04  6.58e-03  3.71e-03  6.97e-04 -1.85e-02  3.27e-02 1.005
## 73890   1.07e-02  4.50e-03 -1.93e-02  3.71e-03 -8.12e-03  4.53e-02 1.002
## 127087 -6.33e-02 -2.34e-02 -1.69e-02 -4.52e-02  1.50e-02 -1.17e-01 0.993
## 114606  5.29e-02 -2.74e-02 -1.81e-02  1.60e-02 -1.53e-02 -1.08e-01 1.000
## 87974  -3.67e-03  8.65e-03 -2.82e-02 -5.92e-03  6.33e-03 -7.01e-02 0.992
## 92733  -1.22e-02 -2.29e-02 -1.64e-02 -2.18e-03 -3.74e-03 -5.96e-02 0.994
## 60153  -3.82e-03  1.86e-02  1.20e-02 -6.90e-03 -4.55e-02 -8.82e-02 1.002
## 40353   1.11e-02  7.01e-03  5.02e-03 -2.51e-03  4.02e-03  2.48e-02 1.004
## 57443  -4.59e-04 -2.49e-03  1.49e-03 -7.95e-04 -6.65e-04  5.44e-03 1.005
## 128838  8.11e-03  1.14e-02 -1.32e-02  1.48e-03  1.84e-03  2.89e-02 1.003
## 81122  -1.85e-03  1.31e-03  2.34e-03 -2.26e-03  2.04e-03  1.24e-02 1.004
## 116289 -2.29e-03 -9.96e-04  6.83e-03  1.76e-03  7.03e-03  1.77e-02 1.003
## 41362  -8.00e-03  1.15e-02  7.23e-03 -3.19e-03 -8.30e-03  3.60e-02 1.002
## 81415  -6.55e-03  4.76e-03  7.75e-03 -5.91e-03 -2.63e-02  4.40e-02 1.003
## 105220  7.07e-03  4.26e-03  6.54e-03  8.01e-05  4.48e-03  1.80e-02 1.003
## 114233  3.18e-03 -1.29e-02 -1.04e-02 -4.11e-03  1.04e-03  2.57e-02 1.002
## 122444 -9.52e-03  2.28e-02  2.02e-02  1.26e-03 -1.88e-02 -5.92e-02 0.997
## 106349 -8.58e-03 -7.78e-03 -8.02e-03 -2.88e-03  6.60e-03  2.24e-02 1.003
## 63860  -5.29e-03 -3.65e-02  4.04e-02 -1.22e-02 -2.04e-03 -7.00e-02 0.994
## 68123  -5.06e-03 -1.13e-02  5.95e-03  5.76e-03  5.06e-03  2.92e-02 1.005
## 91248  -5.16e-04  6.17e-03 -8.35e-03 -1.53e-03  1.47e-03  1.52e-02 1.004
## 90256   1.18e-02 -2.30e-02 -8.75e-03  9.29e-03  3.60e-02 -8.54e-02 0.997
```

```
## 106274  2.81e-03 -3.25e-03 -5.17e-03  1.78e-03 -3.43e-03  1.27e-02 1.004
## 102929  6.69e-04  3.88e-03  3.20e-03  3.01e-03  1.10e-03  1.14e-02 1.004
## 61630  -1.12e-02  7.06e-03 -2.54e-02 -5.06e-03  9.09e-03  5.59e-02 1.001
## 71114   1.01e-02 -1.07e-02 -1.51e-02 -9.53e-03  2.50e-02 -6.38e-02 1.001
## 60837  -5.11e-03 -9.04e-03  6.46e-03 -6.42e-03  1.01e-02  4.45e-02 1.004
## 43487   3.77e-03  4.70e-03  2.30e-03 -4.22e-03  1.15e-03  1.68e-02 1.004
## 113842 -2.04e-04  1.08e-02 -1.29e-02  1.49e-02  2.87e-03  2.64e-02 1.003
## 87007  -4.24e-03 -2.08e-02  2.20e-02  2.84e-03 -3.77e-02 -7.66e-02 1.000
## 22678  -5.52e-03 -3.43e-03 -1.19e-02 -5.54e-04  1.40e-02  3.70e-02 1.003
## 121003 -4.41e-03 -7.68e-03  1.62e-02 -4.83e-03  3.23e-02  5.57e-02 1.005
## 89875   8.56e-03  4.29e-03  2.58e-03  2.59e-03  4.73e-04  1.47e-02 1.003
## 123955 -9.63e-04  1.91e-03  7.90e-04  1.07e-03  1.90e-03  7.85e-03 1.005
## 85      1.08e-03  1.93e-03  9.37e-04  6.24e-04 -5.35e-04  7.93e-03 1.005
## 115173  3.16e-03 -2.12e-02  1.94e-02 -2.63e-03 -2.75e-02  7.59e-02 1.004
## 10308   4.43e-04 -5.59e-03  7.53e-03  1.48e-04  4.91e-03  2.65e-02 1.005
## 84843  -1.13e-03 -3.70e-03  6.76e-03 -8.02e-04  1.96e-03  1.57e-02 1.003
## 86973  -1.89e-03  1.39e-03  1.26e-03 -1.48e-05  8.63e-04  1.40e-02 1.004
## 4220    1.71e-02 -1.32e-02 -8.62e-03  2.09e-03  1.37e-02  4.51e-02 1.005
## 90775   4.50e-03 -6.95e-03 -2.05e-02 -1.10e-02 -4.61e-03 -7.19e-02 0.996
## 64057   8.75e-03  1.73e-02 -2.01e-02 -1.64e-03 -2.36e-03  4.24e-02 1.002
## 27413  -5.59e-03 -3.05e-03 -3.51e-03 -1.04e-03 -2.93e-03  1.15e-02 1.004
## 116520 -4.53e-03 -1.49e-02 -1.17e-02 -7.12e-03  1.64e-03  4.98e-02 1.003
## 30180   1.95e-04  3.35e-03 -9.13e-03 -3.57e-03 -6.62e-04  1.58e-02 1.003
## 26756  -4.05e-03 -4.32e-03  3.82e-03  4.66e-04  7.39e-04  8.69e-03 1.004
## 36538   9.40e-03 -1.29e-02  1.17e-02  9.40e-03  1.20e-02  3.12e-02 1.004
## 19688   4.44e-03 -8.93e-03  5.59e-03  7.90e-03  1.14e-03  1.91e-02 1.004
## 5355   -6.81e-03  3.74e-03  6.72e-03  9.56e-03 -2.20e-02  4.79e-02 1.006
## 35784  -2.77e-04 -7.53e-03  7.56e-03 -1.02e-03  2.63e-03  1.37e-02 1.003
## 56651  -6.02e-03 -9.79e-03  8.36e-03 -2.78e-03  4.55e-03  1.70e-02 1.003
## 69218   1.96e-02 -1.58e-02 -9.55e-03  7.07e-03  2.23e-02  4.80e-02 1.004
## 87861  -4.09e-03 -1.10e-02 -7.80e-03 -3.47e-03  6.03e-03  2.22e-02 1.003
## 10328  -1.29e-02 -1.51e-02  1.06e-02 -5.17e-03 -1.69e-02  4.38e-02 1.005
## 94655   2.93e-03  1.99e-04  4.31e-03 -2.72e-03  6.80e-04  9.81e-03 1.003
## 118318 -1.61e-03 -1.27e-03  1.09e-03 -5.07e-04 -3.22e-04  3.17e-03 1.005
## 68313   2.70e-03  2.97e-03 -9.12e-03  7.92e-04 -1.44e-03  1.62e-02 1.003
## 15659   2.69e-03 -3.82e-03  5.19e-03 -2.15e-03  1.07e-03  1.16e-02 1.003
## 50733   7.44e-03  8.95e-03  8.80e-03 -3.94e-04  1.17e-02  2.75e-02 1.003
## 54302   2.51e-02 -2.63e-02 -1.78e-02 -1.27e-04 -3.96e-02  7.28e-02 1.001
## 86596  -3.41e-02  2.60e-02  2.26e-02  1.49e-04 -1.47e-02 -7.04e-02 0.996
## 11740   7.30e-04 -1.68e-03  2.22e-03 -7.95e-04  2.96e-04  7.84e-03 1.005
## 124138  1.15e-02 -1.82e-02 -1.46e-02 -6.18e-03  3.50e-02 -7.42e-02 0.999
## 57099   5.21e-03  6.77e-03  6.07e-03 -5.17e-03  3.07e-03  1.83e-02 1.003
## 80112  -7.75e-03 -2.29e-02 -1.05e-02  1.18e-02  1.21e-02 -8.19e-02 0.995
## 71044   7.44e-03 -2.51e-02  3.38e-02  7.40e-03 -4.17e-03 -6.94e-02 0.999
## 87100   2.34e-03 -5.80e-03 -5.06e-03  1.42e-04 -1.46e-03  1.34e-02 1.004
## 13939  -2.74e-04  4.14e-04 -2.22e-04 -3.30e-05  1.00e-04 -9.70e-04 1.006
## 94201  -2.26e-03  4.16e-03  3.32e-03 -3.07e-03 -2.75e-04  1.09e-02 1.003
## 126291  5.27e-03 -1.13e-02 -1.10e-02  2.80e-03  2.79e-03  3.20e-02 1.003
## 76758  -5.38e-03  3.11e-04  5.69e-03 -8.70e-03  4.73e-03  2.66e-02 1.003
## 69395   3.91e-04 -2.29e-03  1.28e-03  5.03e-04 -2.99e-04  3.71e-03 1.004
## 105870 -3.57e-03 -2.62e-03  3.99e-03 -1.55e-04  1.05e-03  8.89e-03 1.003
## 78218  -1.29e-03 -4.00e-02  4.66e-02 -2.31e-02  2.10e-02 -9.27e-02 0.993
## 68595   7.89e-03 -2.61e-02 -1.90e-02 -2.44e-02 -3.77e-02 -9.11e-02 0.996
## 74406   1.46e-02  3.74e-02 -3.47e-02 -1.62e-03 -2.01e-02 -7.16e-02 0.994
## 89776  -1.93e-04 -1.19e-03  6.14e-04  4.81e-04  9.85e-05  2.08e-03 1.004
## 22869   1.61e-02 -2.14e-02 -1.33e-02 -1.70e-02  4.53e-02 -8.19e-02 0.996
## 25840  -2.01e-03  4.48e-03  7.07e-04 -1.50e-03 -1.80e-04  1.94e-02 1.005
## 8244    6.35e-03  2.89e-03  1.23e-03 -5.90e-04 -5.28e-04  1.41e-02 1.006
## 14192  -7.45e-03  9.91e-03  5.64e-03  2.55e-03  2.22e-03  3.09e-02 1.002
## 62734  -3.45e-04 -4.92e-04  1.17e-03 -1.72e-03  9.90e-04  5.19e-03 1.004
## 44404  -7.85e-03 -1.73e-02 -2.05e-02 -5.47e-04  2.96e-03  5.48e-02 1.001
## 31720  -4.67e-03  1.01e-02 -1.17e-02 -4.76e-03  1.36e-03  2.08e-02 1.003
## 62191   7.67e-03 -1.22e-02 -2.39e-02  6.43e-03  8.57e-03 -7.43e-02 0.990
## 97640  -6.06e-03 -3.46e-03  4.37e-03 -3.18e-03  8.82e-04  1.01e-02 1.004
## 52192   1.19e-02  4.61e-04  1.42e-02 -3.41e-03  1.86e-02  4.19e-02 1.002
## 66133   3.15e-02  1.11e-02  9.17e-03  5.78e-03 -1.38e-02  5.45e-02 1.001
## 82887  -2.78e-03  3.35e-02 -2.07e-02  2.95e-04 -4.67e-03 -6.77e-02 0.997
## 21197  -1.30e-02 -2.29e-02  1.52e-02 -1.08e-03 -2.32e-02  6.34e-02 1.003
## 34510  -8.35e-03  2.47e-02 -3.15e-02  7.30e-04 -3.70e-02  1.07e-01 1.000
## 89971  -2.35e-02 -6.76e-04 -2.20e-02 -2.42e-02 -2.56e-02  9.43e-02 1.006
## 90059  -4.17e-02  2.78e-02  1.46e-02 -5.01e-03 -3.22e-02 -8.59e-02 1.001
## 104901 -8.59e-03  9.15e-03 -9.91e-03 -2.92e-03 -2.74e-03  2.38e-02 1.005
## 72737   1.70e-02 -1.40e-02 -1.30e-02  9.58e-04 -1.02e-03  3.95e-02 1.004
## 99647   4.31e-03  1.86e-02 -2.39e-02 -5.17e-03 -2.64e-02  5.57e-02 1.002
## 5535    6.51e-03 -1.12e-02 -1.34e-02 -2.34e-03 -2.73e-02  4.83e-02 1.005
## 38768  -2.27e-02 -3.08e-04  3.57e-02  7.93e-03 -1.01e-02 -7.73e-02 0.998
## 91778  -9.71e-03 -1.47e-03  9.10e-03 -6.14e-02  1.98e-03 -6.25e-02 1.097
## 90845   1.13e-03  1.01e-02 -1.11e-02 -3.86e-03  8.74e-04  1.85e-02 1.003
## 103589  5.82e-03  1.38e-02 -1.50e-02 -5.51e-03  4.75e-03  2.69e-02 1.002
## 128922 -2.29e-02 -9.55e-03 -8.80e-03  9.82e-03  1.52e-02  4.56e-02 1.004
## 100004 -5.89e-04  4.67e-03  3.41e-03 -2.89e-03  1.22e-03  1.07e-02 1.003
## 53998   7.80e-03  8.87e-03  8.78e-03  2.40e-03  1.46e-02  3.06e-02 1.003
## 34250  -1.79e-02 -6.91e-03  1.05e-02 -6.03e-05  1.21e-02  2.91e-02 1.005
## 24398   2.29e-03 -2.45e-02 -1.75e-02  1.73e-03 -5.26e-03 -5.61e-02 0.994
## 97739  -9.54e-03  2.24e-03  5.16e-03  4.28e-03  3.57e-03  1.74e-02 1.004
## 105196  6.56e-03 -3.22e-02  3.92e-02 -5.96e-03 -4.12e-03 -6.80e-02 0.996
## 88620  -3.72e-04 -2.48e-03 -4.52e-03  4.74e-03 -1.11e-03  1.08e-02 1.004
## 21703   4.24e-03 -1.59e-03  2.30e-03  5.83e-04 -1.12e-03  8.05e-03 1.004
## 97439  -2.83e-02 -2.86e-02 -2.05e-02 -1.52e-02  1.49e-02 -9.43e-02 0.991
## 86184   4.52e-02 -3.68e-02  3.65e-02 -4.17e-02 -3.64e-02 -1.13e-01 0.999
## 33172   2.24e-03  1.74e-03  2.48e-03 -3.50e-04  8.63e-05  1.27e-02 1.004
## 36728  -6.60e-03 -2.46e-02  2.28e-02 -1.63e-03 -4.31e-02 -8.31e-02 1.003
## 39788  -2.94e-03 -2.18e-02  2.75e-02  1.82e-03  2.81e-02 -6.45e-02 1.002
## 73258   5.71e-03 -1.40e-02  1.65e-02 -7.98e-03  9.51e-03  4.04e-02 1.002
## 127046  7.73e-03  6.55e-03  5.44e-03  5.50e-03  2.29e-03  2.55e-02 1.003
## 56021  -5.65e-03  1.10e-02  6.47e-03 -9.47e-03  3.32e-03  3.45e-02 1.002
## 77024   2.70e-02  1.15e-02  1.51e-02  1.50e-02  3.82e-02  7.47e-02 1.005
## 7003    1.08e-03  3.39e-02 -2.27e-02 -2.44e-02  3.22e-02 -1.02e-01 1.002
```

```
## 59383  -3.78e-03  6.57e-03  5.28e-03 -3.64e-03  2.59e-03  1.52e-02 1.003
## 107873 -4.17e-03 -1.72e-03  4.45e-03 -3.56e-03  6.86e-04  9.32e-03 1.003
## 79559   2.93e-03  5.35e-03  4.33e-03  8.97e-03  2.23e-03  1.62e-02 1.003
## 51217   3.10e-03 -4.85e-03  3.37e-03  5.33e-03  3.60e-04  1.10e-02 1.004
## 52167  -5.68e-05  1.70e-03  1.17e-03 -8.55e-05 -1.05e-03  4.74e-03 1.004
## 6915   -4.38e-03  3.14e-04  2.79e-03  1.83e-03  9.02e-04  1.32e-02 1.006
## 119999 -4.46e-03 -2.45e-02 -1.92e-02  7.61e-03 -9.10e-03 -5.29e-02 0.994
## 78079   1.72e-03 -9.44e-03 -1.28e-02  3.31e-02 -6.86e-03  4.70e-02 1.008
## 47412   1.72e-03  6.58e-03  5.69e-03  1.56e-03  5.96e-03  1.73e-02 1.003
## 68465   1.58e-02 -6.88e-04 -2.01e-02  1.83e-02  5.14e-02 -7.86e-02 0.999
## 66852   6.47e-03  4.72e-03  3.33e-03 -2.75e-03  7.04e-04  1.33e-02 1.003
## 116444  1.40e-03 -1.10e-02  7.51e-03 -3.17e-03  1.81e-03  2.11e-02 1.004
## 101196  1.49e-02  4.72e-02 -2.10e-02 -9.93e-03 -5.05e-02 -1.16e-01 0.997
## 20815   1.23e-02 -1.13e-02  1.76e-02 -4.53e-03  2.31e-02 -5.73e-02 1.003
## 53411  -4.27e-02  3.67e-02  3.20e-02  3.00e-03 -5.15e-04 -8.48e-02 0.995
## 20971   5.02e-04  2.22e-03  4.29e-04  1.03e-02  3.11e-04  1.41e-02 1.007
## 108079 -4.95e-03 -2.62e-03  7.61e-03 -3.12e-03  7.05e-03  1.84e-02 1.003
## 35933  -5.79e-03  3.94e-03  2.96e-03 -1.16e-03  1.04e-03  9.85e-03 1.004
## 73968  -1.34e-02 -1.58e-02  1.63e-02  1.54e-03  2.60e-02  4.66e-02 1.005
## 13849  -8.33e-03 -2.15e-02  1.60e-02 -1.75e-02 -1.73e-02  7.96e-02 1.004
## 30439   4.46e-03 -4.26e-03  6.97e-03 -1.17e-04  2.05e-03  1.50e-02 1.003
## 634     1.12e-02  9.15e-03 -2.17e-02 -2.50e-03 -1.42e-02  5.72e-02 1.004
## 78797  -4.51e-02  3.31e-02  2.37e-02  3.32e-03 -9.34e-03 -7.29e-02 0.997
## 30462   1.09e-02  3.86e-02 -2.98e-02  2.35e-02 -2.70e-03 -9.14e-02 0.993
## 24504  -1.01e-02  1.24e-02  4.97e-03 -1.17e-02 -5.96e-03  4.46e-02 1.003
## 25158  -2.89e-03 -5.12e-03  4.37e-03 -1.12e-03  8.02e-04  9.09e-03 1.003
## 107926 -9.28e-03  9.16e-03  7.14e-03 -3.33e-03  1.15e-02  3.01e-02 1.004
## 16762  -1.46e-02 -1.87e-02 -2.32e-02 -1.05e-02 -2.38e-02  8.12e-02 1.001
## 55642  -5.03e-03  7.26e-03  2.59e-03  3.86e-04  1.52e-02  3.27e-02 1.005
## 91615   6.13e-03 -5.64e-03 -8.82e-03 -2.73e-03 -9.16e-06  1.74e-02 1.003
## 108824 -4.87e-03 -2.24e-03 -7.39e-03 -1.37e-03  6.58e-04  1.38e-02 1.003
## 20869  -1.03e-03 -1.73e-02 -1.32e-02  5.63e-03  2.17e-02 -6.63e-02 1.000
## 110523  2.39e-03  1.44e-02 -2.12e-02  2.96e-03  5.83e-02 -7.71e-02 0.997
## 116469 -1.09e-03  2.77e-03  3.62e-03 -2.31e-03 -8.12e-04  1.11e-02 1.003
## 96494   9.24e-03  9.08e-03  4.22e-03  3.18e-04  1.75e-02  4.25e-02 1.003
## 93213   1.31e-02 -1.40e-02 -1.05e-02 -2.55e-03  1.55e-03  2.92e-02 1.003
## 50060  -2.08e-03 -4.86e-03  4.58e-03  2.96e-04 -3.28e-04  9.93e-03 1.004
## 66096   8.54e-03 -1.38e-02 -1.55e-02  1.70e-03 -6.18e-03  4.70e-02 1.005
## 35335   2.35e-03  6.85e-03 -7.84e-03 -2.01e-03 -3.03e-03  1.53e-02 1.004
## 49029  -4.76e-04  1.94e-03  1.19e-03 -1.92e-03 -7.48e-05  5.48e-03 1.004
## 98033  -4.53e-03  3.61e-03  2.89e-03  6.38e-05 -1.86e-04  9.53e-03 1.004
## 1793   -4.61e-03  4.61e-03  2.60e-03 -3.42e-03  2.22e-03  1.67e-02 1.005
## 72976  -2.12e-02  4.66e-02 -2.78e-02 -4.19e-02  2.52e-02 -1.18e-01 0.991
## 112676 -3.34e-03  3.41e-03  8.75e-03 -5.93e-03  1.89e-03  2.48e-02 1.002
## 49680   3.55e-02 -3.26e-02  3.12e-02 -8.89e-03 -1.75e-02 -7.78e-02 0.998
## 96923  -4.03e-03  4.16e-03  1.62e-03 -2.61e-03  4.92e-04  1.27e-02 1.004
## 85905  -4.84e-03 -1.99e-03  2.75e-03  2.91e-04 -7.09e-04  9.68e-03 1.004
## 76467  -2.17e-03 -3.92e-03  4.01e-03 -2.13e-03 -1.32e-03  1.19e-02 1.004
## 123304  6.92e-03  5.84e-03  3.29e-03 -3.17e-04  7.41e-04  2.31e-02 1.004
## 99343  -1.28e-03  4.18e-03  3.24e-03 -3.11e-03 -5.33e-05  1.10e-02 1.003
## 17200  -2.42e-02  1.60e-02  2.94e-02  1.96e-02  1.81e-02 -9.57e-02 1.001
## 103617  5.70e-03  1.78e-03 -8.27e-03  1.23e-03 -2.23e-03  1.70e-02 1.005
## 115364 -3.30e-03 -1.31e-02  3.43e-02 -2.22e-02 -3.01e-03 -6.53e-02 0.999
## 126335 -1.64e-02  2.39e-03 -1.02e-02  2.77e-03  5.22e-03  3.08e-02 1.003
## 45776   2.43e-05 -1.19e-03  3.10e-03  9.44e-04  7.58e-04  7.83e-03 1.003
## 68160   5.11e-02 -3.22e-02 -2.33e-02  8.59e-03 -7.90e-03 -7.98e-02 0.992
## 117836 -1.59e-02  1.82e-03  3.66e-02 -9.37e-03 -6.95e-05 -8.68e-02 0.995
## 6120    1.23e-02  7.87e-03 -1.48e-02  3.48e-03  9.86e-03  3.91e-02 1.008
## 86283   3.28e-03  4.55e-03  3.11e-03 -3.84e-03  8.37e-04  1.19e-02 1.003
## 68589  -5.27e-03 -1.06e-02  8.20e-03  1.73e-03 -1.62e-02  3.12e-02 1.004
## 66331  -3.37e-03 -6.23e-03 -9.53e-03 -6.87e-03  4.18e-03  2.04e-02 1.002
## 54626  -3.10e-02  1.49e-02  9.45e-03 -7.72e-03  1.27e-02  7.08e-02 1.003
## 54756  -1.22e-02 -9.91e-03  9.49e-03 -2.88e-03 -2.24e-02  3.36e-02 1.004
## 58985  -1.34e-03  5.64e-03 -1.42e-02 -1.67e-03  9.09e-03  2.82e-02 1.002
## 88824  -8.30e-03  5.95e-03 -1.77e-02  3.35e-03  2.91e-02 -6.88e-02 1.002
## 37581   7.59e-03 -3.15e-03  3.89e-03  4.62e-03 -7.24e-04  1.22e-02 1.004
## 31128  -3.01e-03  4.45e-03  2.64e-03 -2.25e-03  2.99e-04  1.23e-02 1.004
## 45148   1.24e-02 -8.67e-03  5.06e-03 -1.18e-03  3.26e-04  1.88e-02 1.004
## 82837   1.21e-04  1.34e-04  4.62e-05  6.89e-04 -8.90e-06  8.09e-04 1.006
## 127095  2.66e-02  2.29e-02  1.65e-02 -1.09e-03  1.67e-02 -8.11e-02 1.003
## 62190  -6.16e-03  3.60e-03  2.55e-03 -1.92e-03  4.78e-04  1.05e-02 1.004
## 41800   2.17e-02  3.21e-02 -2.61e-02  4.20e-02  5.61e-03 -1.10e-01 0.991
## 48343   1.41e-03  1.82e-05  1.45e-03 -4.79e-04  1.37e-04  5.36e-03 1.003
## 94369  -1.81e-03 -4.43e-04  1.15e-03 -5.81e-04 -6.74e-04  3.30e-03 1.004
## 15343  -2.70e-05 -9.26e-03  1.24e-02 -2.82e-03  1.74e-02  3.88e-02 1.005
## 40105   6.66e-03  6.79e-03  5.40e-03 -1.56e-03  2.53e-03  1.70e-02 1.003
## 18462   3.45e-04  3.87e-03 -1.10e-02  5.94e-03  3.96e-03  2.15e-02 1.002
## 97451   7.60e-03  2.73e-03  3.41e-02 -1.56e-02 -2.51e-03 -6.08e-02 0.993
## 98707  -1.40e-03  1.36e-02 -1.63e-02 -6.83e-03  8.18e-03  3.24e-02 1.002
## 126724 -4.84e-04 -3.73e-03 -6.53e-03 -2.03e-03 -1.01e-03  1.92e-02 1.004
## 33981  -1.33e-02  1.31e-02 -1.16e-02 -4.01e-03  7.23e-03  2.61e-02 1.003
## 69459  -5.86e-03  3.73e-03  3.07e-03 -1.23e-03 -2.36e-04  1.04e-02 1.004
## 94734   1.15e-02  2.24e-03  3.58e-02 -3.49e-03 -4.79e-03 -6.16e-02 0.994
## 42380  -6.62e-04 -4.97e-03  2.88e-03  4.19e-03  1.11e-04  1.04e-02 1.005
## 120313  1.82e-02  5.10e-02 -3.35e-02 -1.41e-02 -6.17e-03 -8.29e-02 0.992
## 24547   2.06e-02 -2.56e-02  1.24e-02  1.52e-02 -3.92e-02  1.22e-01 1.021
## 45640   1.06e-02 -2.08e-02 -1.68e-02  8.45e-03 -2.57e-02  4.85e-02 1.002
## 42097   1.93e-02 -1.61e-02 -1.35e-02  5.62e-03  9.97e-03  4.46e-02 1.003
## 44018  -5.03e-03  4.69e-03  2.66e-03  1.43e-02  6.47e-04  2.03e-02 1.005
## 51838   1.10e-02 -2.86e-02  3.42e-02  3.39e-03  5.86e-02 -8.21e-02 0.999
## 87670  -9.81e-04  6.30e-03 -7.70e-03 -1.56e-03 -4.88e-03  1.68e-02 1.005
## 36218  -6.36e-03 -8.27e-03  7.15e-03 -3.04e-04  2.27e-03  1.51e-02 1.003
## 72180  -8.85e-03 -1.73e-02 -1.42e-02  7.26e-03  2.47e-02 -8.99e-02 1.001
## 111962 -4.37e-03 -3.21e-03  7.22e-03 -3.42e-03  2.99e-03  1.46e-02 1.003
## 61526  -2.85e-02 -1.79e-02 -1.37e-02  3.14e-03  6.74e-02 -9.04e-02 0.998
## 120702 -5.84e-03  1.38e-02 -1.54e-02 -2.93e-03  6.74e-04  2.92e-02 1.003
## 114740 -2.86e-02 -2.61e-02 -2.31e-02 -8.32e-03 -4.80e-04 -7.78e-02 0.993
## 40324  -2.89e-03  1.52e-03 -8.13e-03  1.25e-03  1.43e-03  1.53e-02 1.003
```

```
## 82902   6.19e-04  1.79e-03  1.02e-03  5.38e-04 -1.44e-04  4.80e-03 1.003
## 77394   1.04e-02  7.19e-03  4.12e-03 -4.35e-03  7.94e-04  3.42e-02 1.004
## 77650   4.02e-05 -1.65e-03  1.81e-03 -1.54e-03 -2.14e-04  4.77e-03 1.003
## 27592  -4.80e-03  1.70e-03  3.65e-03 -2.35e-03  3.77e-05  9.35e-03 1.003
## 129621  4.93e-05  3.63e-03  4.39e-03 -2.99e-04  1.44e-03  1.48e-02 1.003
## 127266  1.89e-02 -1.64e-02 -1.45e-02 -6.48e-03  2.12e-02  7.39e-02 1.003
## 54460   6.68e-03 -4.45e-03  3.23e-03  1.37e-02 -7.14e-03  2.29e-02 1.005
## 61926   3.29e-03  7.43e-03  1.30e-02  1.94e-03  2.92e-02  4.77e-02 1.004
## 20420  -1.55e-02 -8.99e-03 -8.55e-03 -5.30e-03  3.72e-03  2.88e-02 1.004
## 12602  -1.64e-02  5.09e-02 -3.81e-02  1.26e-02 -1.31e-02 -1.23e-01 0.994
## 63605  -8.79e-04 -4.16e-03  1.84e-03  2.17e-03 -2.71e-04  1.10e-02 1.005
## 75349   9.52e-04 -7.21e-03  4.57e-03 -7.93e-04  2.86e-05  1.16e-02 1.004
## 29594  -1.46e-02 -4.09e-03 -8.22e-03 -1.71e-04  3.72e-03  2.84e-02 1.004
## 64562   8.63e-03  1.33e-02 -1.52e-02  8.50e-04  5.95e-03  3.22e-02 1.003
## 101317  1.40e-02  1.84e-02  1.99e-02  1.09e-02  3.13e-03 -6.29e-02 1.001
## 56496   5.13e-03  4.39e-03  4.17e-03 -8.08e-03 -1.56e-03  3.07e-02 1.004
## 89473   6.53e-03 -4.83e-03 -1.15e-02 -5.55e-03  1.83e-03  2.69e-02 1.003
## 54276  -2.03e-02 -9.37e-03 -8.30e-03 -5.53e-03  1.19e-02 -5.94e-02 1.004
## 18074  -1.13e-02 -1.44e-02  1.77e-02  6.47e-04 -1.07e-02 -6.72e-02 1.004
## 73445  -6.98e-03  7.59e-03 -1.23e-02 -7.75e-03  3.58e-03  2.27e-02 1.002
## 67234  -1.37e-02 -7.39e-03  1.45e-02 -8.91e-03 -2.32e-02  8.39e-02 1.005
## 1195    1.18e-03 -2.39e-03  8.44e-04  2.63e-03 -1.81e-04  6.19e-03 1.007
## 118260 -4.82e-03  6.43e-03  5.74e-03 -2.84e-03  3.45e-03  1.62e-02 1.003
## 68057  -3.21e-02 -3.41e-02  4.93e-02  9.65e-03  2.13e-03 -9.66e-02 0.996
## 26746   1.88e-02  8.29e-03  2.45e-02  9.76e-03 -1.94e-02 -6.06e-02 0.995
## 24764   3.32e-03  8.56e-03  3.43e-02  1.75e-02  8.36e-04 -7.65e-02 0.997
## 102199 -9.66e-03 -7.85e-03  6.30e-03 -5.93e-04  2.99e-03  1.88e-02 1.005
## 130058  1.32e-02  1.86e-02 -2.69e-02 -8.34e-03  7.83e-03  6.76e-02 1.002
## 4480   -1.39e-03  1.68e-03  8.75e-04 -7.97e-04 -6.04e-04  6.73e-03 1.006
## 90618  -3.72e-03  3.29e-03  1.33e-03  2.89e-03  1.75e-04  1.03e-02 1.004
## 88670  -3.22e-04 -8.24e-03 -9.17e-03 -3.81e-03  4.03e-03  2.89e-02 1.003
## 71873  -5.41e-03 -2.44e-03 -8.89e-03  3.27e-03  7.64e-04  1.88e-02 1.004
## 1560    1.23e-02 -8.05e-03 -7.87e-03  6.23e-04  3.61e-03  3.08e-02 1.005
## 84209   4.32e-05  3.41e-03 -6.97e-03 -2.41e-03 -2.01e-03  1.26e-02 1.004
## 35595   3.19e-03  4.10e-03  3.51e-03  1.93e-03  1.58e-04  1.14e-02 1.003
## 125103 -7.07e-03  5.36e-03  3.26e-03 -1.09e-03  1.40e-03  1.87e-02 1.005
## 79316   1.35e-03 -9.94e-03 -1.04e-02 -6.85e-03  1.80e-03  2.48e-02 1.002
## 74893  -1.18e-04  2.14e-03  9.16e-04 -2.52e-03  1.44e-03  7.37e-03 1.004
## 86468   5.52e-03  3.11e-03  2.84e-03 -2.63e-03  5.87e-04  1.56e-02 1.004
## 20931   3.49e-02  4.94e-02 -3.90e-02 -5.94e-03 -9.00e-03 -9.19e-02 0.992
## 875     4.19e-03 -8.17e-03  5.70e-03 -8.28e-04  2.60e-03  1.91e-02 1.005
## 6883    1.16e-03 -1.96e-03 -5.78e-03 -2.65e-03 -1.15e-03  1.79e-02 1.005
## 85259  -3.06e-03  2.89e-03  1.60e-03  3.59e-03  8.28e-04  9.04e-03 1.004
## 48776  -2.60e-03  2.63e-03 -6.39e-03  2.06e-03  1.97e-03  1.24e-02 1.005
## 58907  -3.19e-02 -2.10e-02 -1.30e-02  1.62e-02  6.95e-03 -8.37e-02 0.996
## 96935   1.98e-03 -4.48e-03 -4.94e-03  7.33e-04 -3.14e-03  1.21e-02 1.004
## 13727   5.63e-03  2.60e-03  1.39e-03  1.91e-04 -8.90e-04  1.29e-02 1.006
## 111748 -1.25e-03  1.20e-03  8.43e-04  2.34e-04 -8.63e-04  3.57e-03 1.004
## 85474  -5.65e-03  9.68e-03  7.12e-03 -7.12e-03 -3.07e-02  3.94e-02 1.004
## 119033 -1.43e-03  7.45e-03  6.29e-03 -6.50e-03  5.77e-03  1.90e-02 1.003
## 71820  -1.02e-02  1.77e-02 -1.79e-02 -3.76e-03  1.26e-03  4.02e-02 1.002
## 2246    8.49e-03  4.72e-03  1.57e-03 -6.09e-03 -1.36e-03  2.71e-02 1.006
## 20883  -7.60e-04 -2.42e-03  1.68e-03 -6.68e-04 -4.66e-04  4.16e-03 1.004
## 16004   2.41e-03 -2.07e-02 -1.18e-02  3.06e-03  1.12e-02 -7.07e-02 0.996
## 13269   1.23e-02  5.18e-03  4.20e-02 -5.20e-02  2.57e-03 -1.24e-01 0.996
## 34429  -1.45e-02  7.65e-03  3.37e-03  3.27e-03  3.65e-03  2.85e-02 1.004
## 5267   -1.30e-03  1.43e-03  1.03e-03  5.97e-05 -1.88e-04  5.51e-03 1.005
## 50560   1.07e-02  1.22e-02 -2.08e-02 -3.35e-04 -3.78e-02  5.06e-02 1.003
## 68366  -2.25e-02 -1.54e-02  1.63e-02 -4.14e-03  2.00e-02  4.68e-02 1.005
## 31724  -9.92e-03  1.72e-02 -1.66e-02 -9.16e-03  1.16e-02  4.12e-02 1.003
## 14818   4.96e-03  2.04e-02 -1.54e-02  4.42e-03  1.83e-02 -8.49e-02 0.996
## 25081  -8.79e-04 -1.22e-03  1.22e-03 -6.93e-04  4.39e-04  4.15e-03 1.004
## 78605   3.36e-03  1.29e-02 -1.42e-02 -4.02e-04  4.00e-03  2.31e-02 1.002
## 80240   4.18e-03 -1.56e-03  1.54e-03 -3.21e-04 -1.65e-03  8.73e-03 1.005
## 79436  -2.79e-03 -8.14e-03 -6.86e-03 -3.47e-04  3.62e-04  1.55e-02 1.003
## 19844  -9.58e-03 -5.37e-03  7.06e-03 -3.18e-04  4.05e-03  1.65e-02 1.004
## 47016  -1.35e-03  2.98e-02  2.83e-02  1.48e-02  1.19e-03 -7.57e-02 0.998
## 36766  -1.29e-02 -6.04e-04  4.36e-03 -9.80e-03 -2.48e-03  2.94e-02 1.005
## 93480  -4.64e-03 -4.14e-03 -6.46e-03 -1.10e-03 -1.09e-03  1.57e-02 1.003
## 74843  -3.73e-03 -1.38e-03 -6.55e-03 -7.39e-03  1.18e-04  1.73e-02 1.005
## 38657  -1.21e-02 -7.55e-03 -8.24e-03 -1.62e-03  4.61e-03  2.21e-02 1.003
## 71780  -3.61e-03 -4.41e-03 -7.14e-03 -2.17e-03 -4.14e-04  1.51e-02 1.003
## 15923  -1.96e-03 -9.17e-04  1.49e-03 -1.08e-03 -2.28e-04  4.55e-03 1.004
## 64576  -7.03e-04 -1.41e-02  1.24e-02  2.27e-03  1.37e-02  2.90e-02 1.004
## 4846    9.56e-03 -2.95e-03  1.02e-02  8.39e-04  1.70e-03  4.42e-02 1.004
## 127509 -9.70e-03  3.08e-02  1.96e-02 -8.13e-03 -2.18e-02 -8.00e-02 0.997
## 122987 -3.75e-03  7.44e-03 -9.70e-03  5.57e-04  1.49e-03  1.68e-02 1.003
## 24146  -1.59e-04 -1.00e-02  1.20e-02 -3.43e-03  9.90e-03  2.55e-02 1.003
## 66607   1.82e-03  7.64e-03  2.75e-03 -7.09e-03  2.06e-02  3.98e-02 1.005
## 6386    1.45e-02 -1.05e-02  4.97e-03 -2.35e-03 -1.22e-03  2.99e-02 1.007
## 41708   4.25e-03 -6.79e-03  5.71e-03 -1.91e-03  3.78e-04  1.27e-02 1.003
## 108965  4.40e-03 -3.21e-03 -1.15e-02 -3.33e-03  6.48e-03  2.84e-02 1.003
## 97429  -3.05e-03  6.24e-03 -7.29e-03 -1.76e-03 -9.73e-05  1.37e-02 1.004
## 108826 -1.04e-02 -7.91e-03 -9.09e-03 -3.89e-03  4.23e-03  2.58e-02 1.003
## 32453  -2.13e-03  3.74e-03  2.66e-03 -6.21e-05  3.41e-04  8.82e-03 1.003
## 99958   5.17e-03 -5.65e-03 -9.37e-03 -1.20e-03  6.71e-04  1.80e-02 1.003
## 130538  2.24e-02  1.43e-02 -1.76e-02  6.63e-03  5.77e-03  4.72e-02 1.004
## 66424   8.01e-03 -4.93e-03 -9.19e-03 -1.06e-03 -1.54e-04  2.39e-02 1.004
## 19132   9.47e-03  4.47e-03  3.57e-03  2.06e-04  1.85e-04  1.45e-02 1.003
## 114328  2.39e-02  1.78e-02  1.62e-02 -7.49e-03 -3.81e-02 -8.34e-02 1.000
## 75921   1.15e-02 -3.70e-02  4.49e-02  8.77e-04 -4.36e-03 -7.55e-02 0.994
## 91831   1.44e-03 -9.32e-03 -9.38e-03  1.65e-03  2.09e-04  2.41e-02 1.004
## 98094  -7.21e-03  4.03e-03  2.55e-03 -3.69e-03  1.25e-03  1.09e-02 1.004
## 17032   1.61e-02 -1.17e-02  1.01e-02 -1.74e-03  4.93e-03  3.55e-02 1.003
## 119039  2.44e-03  9.73e-03 -1.04e-02 -1.93e-03 -1.22e-03  1.95e-02 1.003
## 31742   9.95e-03  2.87e-04  9.60e-03 -4.30e-04  2.97e-03  3.09e-02 1.003
## 58178  -2.59e-02  1.94e-04 -1.15e-02  1.50e-03  2.17e-02  4.98e-02 1.003
## 14550   7.18e-03  2.17e-02  3.75e-02 -2.39e-02 -3.59e-03 -7.68e-02 0.994
```

```
## 11701   2.44e-03  3.69e-03 -5.22e-03 -1.24e-03 -5.71e-04  1.22e-02 1.006
## 49832  -5.90e-03 -7.15e-03 -5.52e-03  3.28e-04  6.81e-04  1.62e-02 1.003
## 104705 -1.78e-03 -4.28e-03  2.22e-03  3.26e-03  1.54e-03  1.07e-02 1.005
## 73143  -4.17e-03  2.71e-03  1.02e-03  2.21e-03  2.20e-03  1.19e-02 1.005
## 117332 -2.08e-03  3.49e-03  2.00e-03  2.80e-03  8.01e-04  8.77e-03 1.003
## 53600  -8.38e-03  8.63e-03 -9.13e-03  4.01e-04 -3.05e-05  1.77e-02 1.003
## 42993   1.69e-03  7.83e-03  4.34e-03 -7.30e-05 -4.76e-03  2.43e-02 1.003
## 50567  -9.85e-03 -2.53e-02 -2.12e-02 -2.42e-02 -2.18e-02 -7.09e-02 0.994
## 99963  -9.13e-03 -6.43e-03 -1.18e-02 -8.85e-03  2.77e-02  4.97e-02 1.012
## 56663  -1.17e-02 -1.85e-02 -1.46e-02  9.34e-03 -3.45e-02  5.44e-02 1.003
## 18313   2.73e-02  1.49e-02 -2.20e-02 -6.32e-03  2.96e-02 -8.01e-02 1.000
## 111420  1.15e-02  1.31e-02  1.01e-02  2.44e-03 -2.24e-02  7.66e-02 1.005
## 121943 -9.01e-03  7.97e-03  4.15e-03 -1.01e-02 -5.11e-03  3.31e-02 1.005
## 70953   2.62e-02  3.19e-02  2.27e-02 -2.19e-03 -1.25e-02 -7.04e-02 0.995
## 95154  -1.61e-02 -1.90e-02  2.39e-02  4.22e-03  2.44e-02 -5.78e-02 1.002
## 25985   6.16e-04 -1.77e-03  1.67e-03 -1.18e-03  4.16e-04  5.61e-03 1.004
## 122004  1.34e-02 -2.46e-03 -2.21e-02 -7.33e-03  3.04e-02  6.76e-02 1.007
## 19475   1.02e-03  6.91e-03  3.44e-03 -2.55e-03 -3.92e-03  2.86e-02 1.004
## 57517  -1.32e-02 -6.51e-03  9.40e-03  2.93e-03  1.00e-04  2.83e-02 1.003
## 13050  -6.69e-03  1.01e-02 -1.05e-02 -3.97e-03  4.02e-03  2.86e-02 1.005
## 12245   1.84e-03 -1.11e-03 -7.16e-04  7.28e-04  6.51e-04 -4.37e-03 1.006
## 45069  -4.46e-04 -2.29e-03  1.47e-03  7.03e-03 -1.41e-04  1.08e-02 1.005
## 91725   3.77e-02 -1.41e-02 -1.51e-02  7.38e-03  1.12e-02  6.70e-02 1.003
## 53047  -5.59e-03 -5.64e-03  6.05e-03  6.17e-04  4.22e-03  1.79e-02 1.004
## 67267  -1.76e-03  1.67e-03  1.05e-03 -1.67e-03 -1.65e-04  4.67e-03 1.004
## 83317  -4.61e-02 -2.84e-02  3.58e-02 -2.92e-02 -5.42e-03 -8.72e-02 0.997
## 75864  -3.30e-02 -1.94e-02 -1.80e-02  3.95e-03 -3.61e-02 -9.47e-02 1.000
## 117     9.90e-04 -7.16e-03  3.11e-03  2.71e-03 -5.26e-03  1.84e-02 1.006
## 17510  -2.41e-03  6.60e-03  5.25e-03 -2.60e-03  2.69e-03  1.42e-02 1.003
## 21451   2.75e-03  1.42e-02 -1.84e-02 -4.90e-03 -5.25e-03  3.99e-02 1.003
## 124457  1.20e-03 -7.09e-03 -6.02e-03 -5.07e-04 -1.02e-03  1.98e-02 1.004
## 11352  -2.36e-02 -2.31e-02 -9.95e-03  1.65e-02  1.85e-02 -1.23e-01 0.998
## 22578  -6.50e-04  1.06e-03  6.79e-04  1.11e-03 -4.68e-04  3.11e-03 1.004
## 122263 -4.63e-03  6.70e-03  5.61e-03 -2.64e-04  6.15e-03  1.74e-02 1.003
## 83229   1.19e-02  1.66e-03 -1.48e-02 -1.79e-03  8.73e-03  3.16e-02 1.002
## 6083    5.28e-03  3.44e-03  2.38e-03 -4.08e-03 -1.21e-03  2.36e-02 1.005
## 91047  -2.77e-03  9.45e-03 -1.17e-02  9.85e-04  1.04e-03  1.98e-02 1.003
## 24289  -4.50e-03 -3.80e-04  2.33e-03  9.95e-05  2.76e-04  9.90e-03 1.004
## 12307  -3.86e-03  4.82e-03  5.37e-04 -3.10e-03  2.04e-02  3.52e-02 1.010
## 95394   3.84e-02  9.87e-05  4.03e-02  2.23e-02  1.72e-02 -1.19e-01 0.999
## 103458 -5.00e-03 -6.70e-03 -6.60e-03  2.75e-03 -6.20e-04  1.85e-02 1.004
## 66428   3.17e-02  3.08e-02 -3.48e-02  2.03e-02 -6.34e-03 -7.19e-02 0.992
## 120061  1.73e-02  1.28e-02  3.45e-02 -6.05e-02  8.76e-03 -9.91e-02 0.994
## 2528    2.21e-04 -7.97e-04  6.04e-04  1.54e-03 -1.90e-04  3.96e-03 1.006
## 15404   1.59e-02  2.32e-02  2.34e-02  1.63e-02 -1.36e-02 -5.80e-02 0.995
## 19781   9.02e-03 -1.04e-02  6.60e-03  1.49e-03  9.46e-04  2.40e-02 1.004
## 100391  1.19e-03  1.34e-03  3.72e-03  8.23e-04 -6.69e-04  9.35e-03 1.003
## 48542  -8.22e-03  1.66e-02 -2.01e-02 -7.82e-03 -2.05e-02  4.11e-02 1.002
## 1786   -1.29e-03 -6.22e-03 -6.48e-03 -7.23e-04  3.83e-03  2.46e-02 1.004
## 35353   3.84e-03 -6.23e-03  3.35e-03  5.02e-03  4.65e-04  1.18e-02 1.004
## 87779  -2.34e-03 -1.79e-03  4.02e-03 -1.99e-04  1.07e-03  8.67e-03 1.003
## 95073  -6.18e-03  1.01e-02 -1.20e-02 -5.26e-03  1.28e-03  2.28e-02 1.004
## 21058  -6.05e-03 -7.64e-03 -5.63e-03 -3.47e-03 -1.12e-03  1.78e-02 1.003
## 65036  -6.79e-03 -1.36e-02  1.24e-02 -1.72e-03  1.07e-02  2.94e-02 1.004
## 68866   8.33e-04 -2.72e-02  3.60e-02 -6.87e-03  5.40e-02 -8.09e-02 0.999
## 34899  -1.57e-02  1.28e-02  9.33e-03 -9.50e-04 -2.57e-02  5.46e-02 1.004
## 95371   5.47e-03 -1.31e-02 -1.24e-02  5.17e-03 -1.64e-02  3.37e-02 1.004
## 57664  -7.75e-04 -1.16e-02 -8.47e-03 -5.40e-03  6.19e-03  2.44e-02 1.003
## 62959  -1.60e-02 -2.33e-02 -1.86e-02  2.17e-02 -6.88e-03 -6.08e-02 0.995
## 106630 -2.58e-02 -2.27e-02 -1.98e-02 -2.42e-02 -3.30e-02 -1.00e-01 0.998
## 29189   5.29e-03  3.88e-03  3.32e-03  3.21e-03 -7.59e-04  1.20e-02 1.003
## 66581  -9.33e-04  1.81e-03  1.26e-03 -4.87e-04 -7.77e-04  4.68e-03 1.004
## 39549  -5.77e-03 -3.92e-03 -7.22e-03  2.13e-03  9.63e-04  1.48e-02 1.003
## 61537   4.11e-02  2.26e-02 -3.09e-02  2.05e-02 -3.64e-02  9.85e-02 1.001
## 518     9.39e-04 -1.25e-03  9.80e-04  2.12e-03 -3.25e-04  4.45e-03 1.006
## 34924  -7.87e-03 -1.11e-02  6.18e-03 -9.30e-03  2.04e-02  3.85e-02 1.006
## 66403   5.02e-03 -4.18e-03  1.87e-03 -3.84e-04  1.19e-03  1.07e-02 1.005
## 33813  -7.45e-03 -1.22e-02 -1.40e-02 -3.42e-03 -2.78e-02  4.19e-02 1.003
## 18132   7.83e-03 -1.52e-02  9.85e-03  4.46e-03 -2.56e-02  3.60e-02 1.004
## 121773  6.43e-03 -1.23e-03 -9.17e-03  3.30e-03  4.29e-04  1.60e-02 1.003
## 74645  -6.26e-03  4.16e-02 -2.00e-02  2.69e-02  1.80e-02 -9.44e-02 0.997
## 91848  -7.84e-04  1.67e-04  1.52e-03 -1.20e-03 -5.69e-04  4.19e-03 1.003
## 30033   1.41e-02 -2.92e-02  3.56e-02  1.52e-02  3.28e-02 -7.15e-02 0.998
## 76215   1.48e-03 -7.32e-03  4.24e-03 -3.56e-04  6.22e-04  1.20e-02 1.004
## 57788   7.31e-02  4.12e-02 -3.76e-02  2.19e-02 -3.00e-02 -1.22e-01 0.995
## 111462 -8.05e-03 -1.02e-02  8.09e-03 -4.43e-03  2.75e-03  1.81e-02 1.003
## 77029   6.24e-03  2.71e-02 -2.11e-02  2.00e-02 -8.01e-03 -7.53e-02 0.998
## 108784  5.78e-03 -1.90e-02  1.59e-02 -6.91e-03  2.15e-02  6.48e-02 1.006
## 20072  -5.60e-03 -7.38e-03  7.00e-03 -2.10e-03  2.91e-03  1.97e-02 1.004
## 32780  -6.20e-03 -1.93e-03 -6.71e-03 -3.27e-03  1.15e-03  1.62e-02 1.003
## 106576 -3.87e-03 -7.89e-04 -8.04e-03 -1.68e-03 -6.21e-04  1.66e-02 1.003
## 34928   6.65e-03  7.65e-03  6.98e-03 -4.39e-03 -1.39e-03  4.66e-02 1.003
## 58653  -1.79e-03  1.42e-03  8.00e-04 -4.87e-04  1.05e-04  3.80e-03 1.004
## 96408   2.08e-03 -4.13e-03 -1.12e-02  1.83e-04  2.81e-03  1.87e-02 1.002
## 44181   1.13e-02 -8.23e-03 -8.70e-03 -1.02e-03  8.55e-05  2.07e-02 1.003
## 61446   3.42e-03 -7.73e-03  1.07e-02  4.70e-03 -2.02e-02  3.44e-02 1.002
## 56298  -1.43e-03 -3.89e-03 -5.02e-03 -9.51e-04  7.47e-04  1.16e-02 1.004
## 84467  -5.14e-02  4.17e-02 -2.08e-02 -4.26e-03  1.62e-02 -8.30e-02 0.999
## 69749   8.35e-03 -1.26e-02 -9.19e-03  3.17e-03  4.59e-03  2.36e-02 1.002
## 125807  1.66e-02  6.41e-03  1.90e-03  2.31e-03  3.53e-02  6.08e-02 1.009
## 83435   1.74e-02  3.25e-02  2.72e-02  1.92e-02 -3.57e-03 -8.43e-02 0.997
## 3490   -1.65e-02  2.35e-02 -2.57e-02 -5.82e-03 -3.07e-02  9.05e-02 1.006
## 56294   6.23e-03 -8.81e-03  6.47e-03  6.83e-03 -2.70e-02  3.86e-02 1.004
## 48828   7.66e-03  1.64e-02  3.48e-02  8.43e-03 -1.12e-03 -8.33e-02 0.994
## 28557   2.13e-02  3.32e-02  2.58e-02  7.35e-03 -6.60e-03 -7.63e-02 0.994
## 57230   5.31e-02  4.52e-02 -4.08e-02  2.31e-02 -1.35e-02 -1.03e-01 0.994
## 80852  -5.87e-03  6.41e-03 -9.02e-03  4.61e-03  3.38e-04  1.59e-02 1.003
## 37153  -4.35e-03 -7.14e-03  8.23e-03 -6.77e-03  3.28e-03  1.60e-02 1.003
```

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## 122626 -2.29e-03  9.43e-03 -1.33e-02  5.60e-03  2.63e-03  2.78e-02 1.003
## 114391  1.53e-02 -5.88e-03 -1.39e-02 -4.71e-04 -3.25e-04  3.23e-02 1.003
## 72243   4.65e-02 -3.09e-02 -2.14e-02  3.27e-02 -7.50e-03 -7.76e-02 0.992
## 72701  -1.43e-02 -3.13e-02 -1.37e-02  1.60e-02  1.26e-02 -1.04e-01 0.991
## 39623  -1.73e-02 -1.68e-02 -1.29e-02 -4.02e-03  3.45e-02 -9.68e-02 1.001
## 94578  -1.89e-04  6.41e-05  1.01e-03  1.13e-03 -6.45e-04  3.24e-03 1.004
## 97997   9.57e-04  1.28e-03  1.02e-03 -1.03e-03  8.64e-04  5.84e-03 1.004
## 35010  -2.18e-02 -2.20e-02 -1.48e-02  9.29e-03  1.03e-03 -6.90e-02 0.995
## 22165   1.43e-02 -3.59e-02  3.82e-02  5.86e-03 -9.21e-03 -8.27e-02 0.996
## 46151   2.00e-02 -8.03e-03 -2.36e-02 -4.26e-03 -9.78e-03  5.76e-02 1.002
## 1620    9.71e-03  8.02e-03  5.17e-03 -2.75e-03  1.44e-02  4.15e-02 1.007
## 3585   -1.52e-03 -2.08e-03  7.98e-04 -6.45e-04 -3.13e-03  6.97e-03 1.008
## 37963  -1.72e-04 -6.66e-05  2.61e-04 -1.43e-03 -1.66e-06 -1.48e-03 1.049
## 61522  -4.05e-02  2.32e-02 -3.02e-02 -8.77e-03 -2.68e-02 -8.51e-02 0.997
## 28112  -1.09e-03  9.70e-03  8.97e-03  1.14e-04  1.97e-02  4.04e-02 1.005
## 21949  -7.86e-03 -4.31e-03  6.88e-03 -6.58e-04  3.70e-03  1.42e-02 1.003
## 9663    2.65e-03 -4.08e-02  4.35e-02  2.26e-02  1.61e-03 -1.14e-01 0.994
## 6377   -3.75e-03  2.61e-03  7.19e-04 -1.01e-03  3.04e-03  1.46e-02 1.007
## 22641   1.56e-02 -8.04e-03 -1.02e-02  7.10e-04  3.58e-03  2.85e-02 1.003
## 71267  -1.08e-03 -1.16e-03  1.57e-03 -6.45e-04 -1.27e-03  4.22e-03 1.004
## 86954  -1.90e-03 -4.32e-03  6.12e-03 -8.61e-03 -5.25e-03  3.11e-02 1.004
## 119908 -7.44e-03 -2.39e-02  2.60e-02  3.49e-03  8.68e-03 -6.82e-02 1.001
## 68647  -5.75e-04  8.56e-03  5.33e-03  4.10e-03 -1.92e-02  3.04e-02 1.003
## 2059    3.67e-04 -5.93e-03  7.25e-03 -2.09e-03  1.55e-02  3.52e-02 1.008
## 105345  7.49e-04  9.03e-03  5.48e-03 -2.05e-03 -1.49e-02  3.07e-02 1.003
## 31074  -3.08e-03  4.91e-03  3.16e-03 -4.82e-03  8.50e-04  1.47e-02 1.004
## 98619  -1.00e-03 -2.37e-03  4.00e-03 -3.46e-03  9.51e-04  9.61e-03 1.003
## 59767   1.81e-04  1.61e-02 -1.40e-02 -5.00e-03  1.67e-02  4.12e-02 1.003
## 128826  1.44e-02 -4.71e-03  5.34e-03  2.99e-04  1.10e-03  2.26e-02 1.004
## 97597   3.47e-03  4.42e-03  8.55e-04  3.13e-02  2.56e-03  3.72e-02 1.008
## 7000   -1.83e-03 -8.90e-03  3.61e-03 -1.20e-02  9.89e-03  3.58e-02 1.008
## 53454   4.31e-03  4.29e-03  2.83e-03  1.82e-02  9.43e-04  2.18e-02 1.005
## 88646   1.29e-02  6.66e-03  6.50e-03 -1.76e-04  6.04e-03  2.34e-02 1.003
## 13545   2.41e-03 -9.68e-03 -7.91e-03 -4.45e-03  5.45e-05  3.11e-02 1.005
## 89709   1.46e-02 -1.52e-02 -1.69e-02  2.49e-02  1.42e-02 -8.53e-02 0.998
## 77505   7.24e-03  1.05e-02 -1.31e-02 -3.57e-03 -7.96e-04  2.59e-02 1.004
## 104775 -8.43e-03 -8.06e-03 -1.11e-02 -5.17e-03  2.87e-02  5.49e-02 1.003
## 124200  2.26e-03 -1.32e-02  4.57e-03  1.50e-02 -3.50e-03  3.74e-02 1.007
## 5304   -5.10e-03 -1.03e-02  9.29e-03  6.41e-03 -2.08e-02  4.71e-02 1.006
## 94507   2.83e-03 -2.56e-03 -9.19e-03  3.13e-03 -7.69e-04  1.91e-02 1.003
## 107905 -1.01e-03  7.46e-04  1.32e-03 -6.87e-04 -1.73e-04  4.53e-03 1.004
## 7873   -8.98e-03 -4.01e-03 -1.29e-02 -2.59e-03 -2.33e-02  4.47e-02 1.005
## 46752  -4.96e-03 -2.76e-02 -2.10e-02  7.50e-03 -4.63e-03 -5.99e-02 0.992
## 127191 -6.35e-03  4.48e-03  3.73e-03  2.03e-03  1.67e-04  1.47e-02 1.004
## 84267  -1.02e-02  9.17e-03 -9.75e-03 -4.40e-03  9.17e-04  1.93e-02 1.004
## 46475  -1.94e-02  1.89e-02  1.77e-02  9.42e-04 -2.56e-02  8.56e-02 1.001
## 1762   -2.34e-04  2.06e-03  1.05e-03 -3.49e-04  3.65e-04  7.94e-03 1.006
## 44785  -3.78e-03  3.90e-03  1.89e-03 -2.87e-03  2.19e-03  1.33e-02 1.004
## 17603   1.17e-02 -1.25e-02 -2.55e-02 -9.10e-03 -1.87e-02  8.24e-02 1.002
## 82684   6.86e-04 -4.07e-03  4.50e-03 -6.10e-03 -1.62e-03  2.77e-02 1.004
## 115091 -2.76e-03 -6.18e-03  4.53e-03 -3.93e-03  5.33e-04  1.34e-02 1.004
## 85152   1.11e-02 -1.29e-02 -8.70e-03 -3.98e-04  6.37e-03  2.69e-02 1.003
## 99372  -1.57e-02 -2.61e-02  3.20e-02  1.31e-02  7.57e-03 -7.21e-02 0.999
## 112138 -4.28e-03 -3.77e-03  4.05e-03 -1.52e-03  7.06e-04  8.54e-03 1.003
## 70523  -4.57e-02  2.82e-02 -2.03e-02 -8.81e-02 -3.10e-03 -1.19e-01 0.995
## 53015  -1.24e-03  9.92e-04 -6.08e-03 -2.81e-03 -1.93e-03  1.17e-02 1.003
## 36690   3.59e-03  4.32e-03  6.04e-03  7.14e-04  4.20e-03  1.46e-02 1.003
## 27892  -2.13e-02  1.52e-02  9.09e-03 -1.89e-02 -1.35e-02  6.95e-02 1.005
## 25738  -3.86e-03 -1.12e-02  5.70e-03  1.34e-02  2.53e-04  2.71e-02 1.004
## 21054   8.83e-03  6.37e-03  5.99e-03  1.79e-03  4.81e-03  1.90e-02 1.003
## 46594  -1.17e-02 -5.82e-03 -1.08e-02  2.25e-03  1.44e-04  2.66e-02 1.003
## 5522    1.24e-03  3.37e-03  4.57e-04 -6.63e-03  1.39e-02  2.62e-02 1.011
## 95845   1.31e-02 -8.67e-03  8.40e-03  1.34e-02 -1.46e-02  6.51e-02 1.005
## 128007 -5.29e-03  5.98e-03  2.72e-03 -5.79e-03  9.80e-03  3.15e-02 1.006
## 96988   5.83e-02  3.43e-03 -3.19e-02  1.01e-02 -3.17e-03 -8.29e-02 0.991
## 100467 -4.68e-03 -2.52e-03  3.90e-03 -9.31e-04 -2.01e-04  9.01e-03 1.004
## 114894 -7.60e-03  9.25e-03 -1.02e-02 -1.50e-03  1.19e-03  1.75e-02 1.003
## 80484  -1.89e-02 -3.06e-02  3.47e-02  1.62e-03 -6.38e-03 -7.12e-02 0.996
## 125466 -1.39e-02  3.13e-02 -1.88e-02 -1.14e-02  4.40e-03 -7.68e-02 1.003
## 8285   -9.92e-03 -2.18e-03 -9.49e-03  1.33e-03  1.12e-02  4.08e-02 1.005
## 102665 -9.94e-04 -5.76e-03  5.02e-03 -2.36e-03  9.96e-04  1.05e-02 1.003
## 111515 -2.79e-03 -1.82e-03  4.08e-03 -1.29e-03  1.08e-03  8.66e-03 1.003
## 21504   1.17e-02 -2.93e-03  1.07e-02 -7.15e-04  9.73e-03  2.65e-02 1.002
## 83837   6.52e-05  2.48e-04  3.36e-03 -6.26e-04  8.45e-04  9.19e-03 1.003
## 24765   2.66e-02  2.01e-03 -1.62e-02  3.43e-03  2.47e-02 -7.61e-02 1.004
## 95721  -1.70e-03  1.20e-02 -1.30e-02  5.75e-03  4.28e-03  2.27e-02 1.003
## 111542  1.23e-02 -9.10e-03  6.11e-03 -2.60e-03  1.10e-02  3.69e-02 1.004
## 93854  -3.97e-03  1.89e-03  3.67e-03 -2.65e-03  1.28e-03  9.52e-03 1.003
## 65493   9.21e-03 -1.57e-03 -8.86e-03  2.23e-03 -2.10e-03  1.90e-02 1.003
## 25309   1.17e-02  1.11e-02  1.20e-02  7.89e-03  3.37e-02  5.70e-02 1.005
## 63425   2.28e-02  1.16e-02  1.05e-02  2.79e-02 -1.48e-02  7.35e-02 1.002
## 119828 -5.30e-03  7.23e-03  5.96e-03 -4.86e-03  5.64e-03  1.80e-02 1.003
## 74691   1.01e-03 -2.63e-03  3.24e-03 -2.51e-04  1.17e-03  1.01e-02 1.003
## 29018  -6.42e-03 -1.94e-02 -1.14e-02 -7.18e-03  1.50e-02 -7.88e-02 0.999
## 74823   1.14e-03  8.92e-03  5.65e-03 -2.04e-03 -1.75e-02  2.99e-02 1.003
## 74468  -2.09e-02 -2.85e-02  4.11e-02  1.53e-02  1.31e-02 -9.59e-02 0.999
## 7601    1.47e-02 -4.33e-02  5.02e-02  2.40e-02  5.81e-03 -1.26e-01 0.995
## 93549  -3.19e-02 -2.39e-02 -1.65e-02 -8.65e-03 -8.12e-03 -8.36e-02 0.995
## 95458   2.37e-02  5.06e-03  7.06e-03  7.91e-03  9.34e-03  3.99e-02 1.004
## 128767  1.98e-03  3.42e-03  2.61e-03 -2.25e-03 -1.48e-03  1.17e-02 1.004
## 32898   2.43e-03  6.84e-03  5.77e-03 -6.68e-03  2.47e-03  1.81e-02 1.003
## 10437  -2.15e-03  1.72e-03  1.09e-03 -7.31e-04  3.00e-04  6.07e-03 1.005
## 991    -1.12e-03 -2.11e-03  1.48e-03 -9.81e-04  2.58e-04  6.04e-03 1.006
## 46560   1.72e-02 -2.66e-02  3.57e-02  1.82e-02 -3.07e-02 -8.40e-02 1.000
## 7723    5.60e-02  2.50e-02 -1.43e-02  2.99e-02 -1.41e-01 -2.31e-01 1.001
## 84377   2.93e-04  3.07e-03 -8.09e-04 -8.88e-03 -6.84e-04 -1.09e-02 1.011
## 91169   1.12e-02  5.93e-03  5.75e-03  2.14e-03  2.08e-03  2.25e-02 1.003
## 103991 -8.75e-03 -6.90e-03 -1.32e-02 -9.91e-03 -2.77e-03  3.90e-02 1.004
```

```
## 45353   3.91e-03 -1.92e-02 -1.20e-02 -4.35e-03  9.54e-03  4.73e-02 1.002
## 57979   1.95e-02  2.00e-02  1.65e-02 -7.03e-03 -2.87e-02 -7.56e-02 0.999
## 82870   9.38e-03 -1.37e-02 -1.10e-02 -6.70e-03  7.96e-04  3.06e-02 1.003
## 115117  3.38e-02 -2.76e-02 -2.33e-02  1.44e-03 -1.40e-02 -7.16e-02 0.994
## 15173  -1.11e-03 -1.55e-03  1.58e-03 -1.19e-03 -1.45e-03  5.56e-03 1.005
## 12995  -1.58e-03 -2.34e-03  5.16e-03 -3.25e-04 -1.85e-02  3.40e-02 1.006
## 59827  -4.31e-02 -1.49e-02  1.95e-02 -2.02e-02 -3.52e-02  1.02e-01 1.008
## 76268  -4.49e-04  1.94e-03  9.03e-04 -2.87e-03  1.56e-03  7.10e-03 1.004
## 69067  -1.49e-02  1.44e-02 -1.95e-02 -1.06e-02  2.03e-02  4.96e-02 1.005
## 19728  -7.13e-03  5.05e-03 -1.77e-02 -1.66e-03 -2.17e-02  3.75e-02 1.002
## 31863  -1.37e-02  1.03e-02 -1.19e-02 -5.15e-03  4.41e-03  2.40e-02 1.003
## 18549   7.92e-03  6.67e-03  5.85e-03 -2.76e-03  3.11e-03  1.80e-02 1.003
## 64668  -3.42e-03 -2.39e-04 -5.19e-03 -1.50e-03 -1.60e-03  1.03e-02 1.003
## 69042  -8.30e-03  2.56e-02 -2.33e-02  1.10e-02  4.90e-02 -7.40e-02 0.999
## 102559  8.23e-03  1.40e-02  9.55e-03 -6.64e-03 -9.80e-03  5.67e-02 1.002
## 116948  2.08e-04  7.36e-04  2.05e-04  1.96e-03  3.19e-04  3.35e-03 1.005
## 69908  -3.68e-03  4.92e-03  1.54e-03 -2.31e-03  1.11e-02  2.43e-02 1.006
## 109882 -7.53e-03 -2.50e-02 -2.32e-02  3.72e-03 -1.71e-02 -6.30e-02 0.994
## 15109  -1.58e-02 -1.98e-02 -2.16e-02 -1.17e-02 -7.74e-03  7.24e-02 1.000
## 11468   3.91e-03 -1.17e-02  4.84e-03 -7.52e-03  1.17e-02  3.50e-02 1.007
## 30849  -6.23e-03  1.96e-02 -2.52e-02 -8.92e-03  5.66e-03  5.27e-02 1.002
## 93218   6.21e-04  4.09e-03  2.71e-03 -2.86e-03  1.03e-03  1.19e-02 1.003
## 127676 -8.69e-03  6.98e-03  4.21e-03  9.60e-03 -2.55e-02  3.77e-02 1.006
## 106336  5.66e-03  6.19e-03  4.13e-03  6.58e-03  5.30e-03  2.16e-02 1.004
## 111843 -1.80e-02 -1.54e-02 -8.25e-03  4.09e-03 -3.67e-03 -7.32e-02 1.001
## 18228   9.70e-03 -1.20e-02  7.97e-03  5.29e-05  3.67e-03  2.40e-02 1.004
## 17768  -3.45e-03  9.78e-03 -1.10e-02 -2.61e-03  1.24e-03  1.78e-02 1.003
## 47237  -3.24e-03 -1.81e-02 -1.89e-02  2.97e-03 -2.13e-02  5.70e-02 1.003
## 114002 -9.77e-04 -3.12e-04  1.27e-03 -6.42e-04 -4.68e-05  3.65e-03 1.003
## 27579  -1.14e-02 -1.39e-02 -1.44e-02  9.62e-03  2.94e-02  6.96e-02 1.003
## 122547 -3.67e-02  3.36e-02  2.19e-02 -1.02e-02 -1.64e-02 -7.52e-02 0.996
## 10705  -2.82e-03 -2.42e-02 -1.92e-02 -5.33e-03 -9.48e-03 -1.07e-01 0.996
## 127894 -4.52e-03  4.65e-03  3.29e-03  1.84e-03  1.29e-03  1.37e-02 1.004
## 13432   9.41e-03 -4.30e-03  2.64e-03  1.39e-03 -5.55e-04  1.52e-02 1.006
## 3605    1.52e-02 -7.10e-03  5.54e-03  2.69e-03  1.61e-03  2.49e-02 1.006
## 45087  -4.50e-03  3.79e-03  2.31e-03 -1.12e-03 -1.38e-03  1.23e-02 1.004
## 45054  -4.36e-02 -1.40e-02 -9.22e-03 -8.20e-03  4.75e-02  8.63e-02 1.006
## 23332   1.03e-02  9.80e-03  9.21e-03 -4.87e-03  1.21e-02  3.45e-02 1.003
## 57478   3.75e-03  1.07e-02 -1.32e-02 -3.43e-03  7.47e-03  2.56e-02 1.002
## 94973  -5.85e-04 -1.01e-02  4.54e-03  4.35e-03 -1.38e-03  1.97e-02 1.004
## 23022  -1.86e-03 -7.41e-04  1.07e-03 -9.61e-04 -4.46e-04  3.22e-03 1.004
## 72282  -5.28e-04 -6.07e-04  4.95e-04  4.37e-04 -1.57e-04  1.54e-03 1.005
## 105288 -3.48e-02  1.54e-02  1.30e-02 -7.14e-03 -2.83e-02  6.25e-02 1.003
## 2543   -6.02e-03  7.00e-03  4.66e-03 -1.93e-03  1.11e-02  2.85e-02 1.006
## 85233   5.10e-03 -1.64e-02 -1.47e-02 -1.51e-02  4.01e-02 -7.46e-02 1.000
## 6882    4.20e-03  3.21e-03 -6.11e-03 -3.32e-03  2.15e-04  1.55e-02 1.006
## 129790  3.13e-03 -1.58e-02  8.63e-03 -6.42e-03 -1.31e-03  3.73e-02 1.005
## 17122  -1.76e-03 -5.21e-03  3.06e-03  3.15e-03  3.98e-04  8.91e-03 1.004
## 93532   5.28e-03  9.24e-04  2.87e-03  1.29e-03  6.41e-04  1.20e-02 1.003
## 70379   7.60e-04  2.65e-03  2.96e-03 -2.38e-03  8.00e-04  1.12e-02 1.003
## 30258  -4.02e-03  1.57e-03  3.09e-03 -3.40e-04  7.46e-04  7.67e-03 1.003
## 60913   1.38e-02  1.97e-02  3.53e-02  1.07e-03 -4.35e-03 -6.72e-02 0.994
## 56271  -5.07e-04  1.51e-03  2.76e-03 -3.59e-04 -1.64e-03  1.20e-02 1.004
## 89884   6.78e-03 -3.96e-02  4.68e-02 -4.93e-03  2.30e-02 -8.96e-02 0.993
## 99130  -4.20e-03  5.95e-03  5.40e-03  4.06e-04  2.62e-03  1.73e-02 1.003
## 43900  -2.21e-02  1.84e-02 -2.60e-02 -1.24e-03  1.82e-02  6.41e-02 1.005
## 99738   9.41e-03 -2.89e-03 -8.17e-03 -7.51e-04  1.01e-03  1.89e-02 1.004
## 71511   4.40e-03  3.97e-03 -1.13e-02 -1.04e-03  3.04e-03  2.58e-02 1.003
## 104940  3.18e-03 -3.81e-03  3.04e-03  1.39e-04 -1.83e-04  1.39e-02 1.004
## 56855  -4.04e-02 -1.45e-02 -1.38e-02 -1.79e-02  2.91e-02  9.97e-02 1.003
## 79768  -6.84e-03 -1.13e-02  9.78e-03 -2.42e-03  5.73e-03  2.75e-02 1.003
## 10977  -1.18e-03  4.27e-03  1.72e-03 -3.79e-04 -8.46e-03  2.00e-02 1.005
## 89287   2.15e-03 -6.83e-03 -7.20e-03 -2.94e-03  1.25e-03  1.79e-02 1.003
## 119867  7.44e-03 -2.85e-03  1.04e-02 -4.87e-03  3.83e-03  2.49e-02 1.002
## 108813 -2.04e-04  1.23e-03  9.55e-03 -2.33e-03  3.75e-04  3.82e-02 1.004
## 39453   1.44e-02  2.41e-02 -1.71e-02  1.83e-02  5.73e-03 -7.85e-02 0.998
## 69503  -1.42e-03  2.05e-03  1.21e-03 -1.92e-03  1.16e-04  5.38e-03 1.004
## 77116  -1.22e-02  9.77e-03  6.99e-03 -8.14e-03  8.39e-03  2.98e-02 1.003
## 88979   3.33e-03 -2.86e-02  3.80e-02  2.16e-03  1.81e-02 -6.95e-02 0.998
## 99000  -3.48e-03  4.78e-03  2.09e-03 -6.66e-03  5.15e-04  1.51e-02 1.004
## 38484   9.14e-03  9.76e-03 -1.82e-02  1.02e-03 -1.58e-03  3.74e-02 1.004
## 128209 -3.46e-03 -8.56e-03  5.74e-03 -3.08e-03  1.66e-03  1.62e-02 1.004
## 20903  -1.61e-03 -1.07e-02  7.44e-03  1.68e-03  1.84e-03  1.64e-02 1.003
## 31398   2.81e-02 -2.13e-02  4.40e-02 -4.08e-02 -2.04e-03 -8.47e-02 0.994
## 124886  2.91e-03  7.81e-03  6.51e-03 -6.39e-03  2.97e-03  2.51e-02 1.003
## 83400   7.51e-03 -2.57e-02  1.38e-02  2.97e-03 -1.87e-02  5.52e-02 1.002
## 55670   4.24e-03  5.85e-03  5.44e-03  2.66e-03  2.24e-03  1.85e-02 1.003
## 87028  -3.63e-03  4.47e-03 -1.53e-02 -2.82e-03 -2.50e-02  3.73e-02 1.004
## 36067  -6.39e-02  2.06e-02 -2.49e-02 -1.56e-02  2.89e-03 -8.34e-02 0.993
## 33369   2.92e-03  4.94e-03  2.33e-03 -6.29e-03  1.10e-03  1.89e-02 1.004
## 33568   2.47e-03  1.78e-02 -1.71e-02 -6.26e-03  1.20e-02  4.08e-02 1.002
## 103368 -1.71e-02  1.63e-02  1.34e-02 -5.80e-03 -2.66e-02  7.61e-02 1.004
## 97000   2.29e-02 -4.16e-03  3.03e-02 -1.80e-02  5.65e-03 -7.29e-02 0.998
## 117364 -2.05e-04  3.01e-02  2.76e-02 -1.49e-02  3.54e-02 -7.87e-02 0.998
## 21656  -5.84e-03  1.54e-02 -1.90e-02  1.51e-02  1.54e-02 -6.60e-02 0.996
## 26064  -4.62e-03 -5.41e-03  4.67e-03 -1.74e-03  8.29e-04  1.06e-02 1.004
## 48099  -1.56e-02  1.75e-02 -1.60e-02 -9.62e-03  2.56e-02  5.70e-02 1.003
## 120516 -1.78e-04  1.20e-03 -3.77e-04 -3.09e-03 -4.09e-04 -4.03e-03 1.008
## 91832  -2.71e-02 -1.38e-02 -1.09e-02  1.83e-03  8.06e-03 -6.22e-02 1.000
## 7109   -6.01e-04 -4.56e-03  4.56e-03 -4.55e-04  1.53e-03  1.50e-02 1.005
## 40970   3.48e-03 -3.40e-02  3.54e-02 -1.11e-02 -1.63e-02 -6.26e-02 0.996
## 65649   6.23e-03 -1.03e-02 -1.15e-02 -2.64e-03  5.94e-04  2.69e-02 1.002
## 41223   1.11e-02  6.28e-03  1.36e-03 -3.95e-03 -7.01e-03  3.06e-02 1.005
## 53578  -5.27e-02  1.76e-02  2.54e-02 -1.06e-02  1.69e-02 -7.41e-02 1.001
## 100952 -3.99e-04 -8.35e-04 -7.94e-03 -5.91e-04 -1.19e-03  1.50e-02 1.003
## 80480  -2.75e-03  5.48e-03  3.47e-03  6.71e-03  8.06e-04  1.72e-02 1.003
## 61797   1.52e-03  2.22e-03  1.05e-03 -1.32e-03 -1.80e-03  7.96e-03 1.004
## 103907  8.36e-03  4.73e-03 -8.50e-03  3.31e-03 -1.96e-03  1.60e-02 1.004
```

```
## 94021  -1.11e-02  9.02e-03 -8.54e-03 -9.65e-04  1.26e-03  1.89e-02 1.004
## 2812    2.42e-04 -2.22e-03  2.35e-03 -1.37e-03  1.69e-04  7.85e-03 1.005
## 41523  -1.52e-03  4.46e-03  2.87e-03 -3.03e-03 -1.37e-03  1.34e-02 1.004
## 104307  1.66e-02 -7.22e-03  6.94e-03 -1.15e-03 -4.76e-03  3.08e-02 1.003
## 119396 -3.00e-02 -1.58e-02  2.98e-02  9.73e-03 -1.91e-02 -7.69e-02 0.999
## 99430  -1.62e-02 -2.81e-02  3.02e-02 -3.98e-03 -1.63e-02 -5.95e-02 0.998
## 91328   4.02e-03 -6.67e-03  3.79e-03  1.57e-03  9.23e-04  1.24e-02 1.004
## 31551  -4.54e-03  7.81e-03  4.19e-03  3.75e-03 -6.19e-03  2.38e-02 1.003
## 10644   1.06e-02  4.37e-03  3.68e-03 -3.50e-04  6.32e-04  2.46e-02 1.006
## 126336 -4.21e-03 -5.13e-03  6.47e-03 -2.61e-03  1.25e-03  1.62e-02 1.004
## 29062   1.65e-02  1.17e-02  7.08e-03  2.21e-05  6.46e-03  4.95e-02 1.001
## 30080   8.53e-03  4.06e-02 -2.16e-02  1.62e-02 -3.14e-02 -8.81e-02 0.998
## 118194 -1.92e-02 -2.12e-02 -1.28e-02 -1.14e-02  4.61e-04 -7.92e-02 0.995
## 61968   3.90e-03 -8.98e-03  7.80e-03 -6.25e-03 -9.94e-04  2.30e-02 1.003
## 110042 -3.40e-03 -7.90e-03 -6.06e-03 -3.25e-03  1.45e-03  1.77e-02 1.003
## 98720  -2.35e-03  1.92e-03 -1.17e-02 -8.32e-03  3.67e-03  2.07e-02 1.002
## 2410    7.69e-03 -5.62e-03  3.10e-03  2.92e-04 -8.72e-04  1.40e-02 1.006
## 125618 -5.56e-03  3.92e-03 -9.86e-03 -2.95e-03  3.79e-04  2.17e-02 1.003
## 22994   1.13e-02  6.66e-03  5.29e-03 -5.59e-03  1.22e-03  2.36e-02 1.003
## 39519  -2.31e-03 -6.62e-04 -7.78e-03 -6.10e-04 -6.09e-04  1.41e-02 1.003
## 25762   1.40e-03 -7.28e-04 -8.53e-03  1.13e-03  1.17e-03  1.53e-02 1.003
## 748     7.89e-03 -1.68e-02  6.45e-03  2.99e-04 -4.33e-03  4.58e-02 1.005
## 21669  -9.03e-03 -1.23e-02  7.34e-03  1.62e-02  1.06e-03  3.31e-02 1.005
## 111761 -1.28e-02  3.16e-02 -3.29e-02  4.90e-03 -1.17e-02 -6.78e-02 0.994
## 46182  -8.11e-03 -1.00e-02 -8.62e-03 -2.74e-03  1.70e-03  2.96e-02 1.004
## 69039  -3.51e-03  2.29e-02  2.62e-02 -5.38e-03  5.51e-02 -7.91e-02 0.999
## 111733 -5.10e-03  2.00e-03  2.48e-03 -2.73e-03  5.24e-04  1.18e-02 1.004
## 9916   -1.03e-02 -2.29e-03  1.87e-03 -7.60e-02  3.37e-03 -7.91e-02 1.048
## 24758   3.96e-03  1.29e-02  9.56e-03 -1.25e-02 -3.24e-02  8.02e-02 1.005
## 112727 -4.72e-02 -1.93e-02 -1.32e-02 -1.66e-02 -3.08e-04 -8.17e-02 0.995
## 87922   9.36e-03  7.31e-03 -1.14e-02 -7.04e-04 -1.12e-03  2.07e-02 1.003
## 33153   2.63e-02 -2.62e-02 -1.18e-02  2.27e-02  2.70e-03 -9.14e-02 0.995
## 129719  3.48e-03  3.48e-03  1.72e-03 -3.78e-05 -1.52e-03  1.46e-02 1.005
## 17517  -1.86e-03  6.99e-03  5.58e-03 -1.73e-03  4.63e-03  1.67e-02 1.003
## 107430 -4.34e-03 -1.00e-02  1.21e-02 -2.75e-03 -1.86e-02  3.87e-02 1.002
## 129287 -1.48e-02 -1.68e-03 -7.37e-03 -1.06e-03  2.50e-03  2.48e-02 1.004
## 72042   8.99e-03  5.92e-03  3.08e-03 -1.05e-03 -2.09e-04  3.12e-02 1.004
## 99369  -2.94e-02 -2.09e-02 -2.16e-02 -2.14e-02 -3.04e-02 -7.80e-02 0.996
## 76227   1.96e-02 -1.80e-03 -1.44e-02  6.76e-04  1.58e-02  4.58e-02 1.003
## 26803  -1.78e-02  1.57e-02 -1.88e-02  2.89e-04 -2.00e-02  4.18e-02 1.003
## 115589 -8.49e-03  7.90e-03  2.08e-03 -3.45e-03  3.88e-03  3.16e-02 1.004
## 34865   4.47e-03  9.74e-03 -1.25e-02  3.03e-03  6.37e-03  2.35e-02 1.002
## 72342   1.04e-02  7.76e-03  4.18e-03 -1.36e-04 -3.18e-03  2.79e-02 1.003
## 11846   9.59e-03 -2.07e-02 -1.69e-02 -5.37e-03 -2.79e-02  7.50e-02 1.003
## 111281 -5.81e-03 -2.50e-02  1.91e-02  3.38e-03 -3.12e-02  5.78e-02 1.003
## 8831    4.20e-03  2.21e-03  1.45e-03  8.16e-04 -5.45e-04  1.07e-02 1.005
## 85010  -6.45e-03  6.22e-03  3.83e-03 -2.03e-03 -2.10e-02  2.95e-02 1.005
## 102458 -3.63e-03  1.98e-02 -2.26e-02 -1.03e-02 -9.44e-03  6.60e-02 1.005
## 8045   -3.08e-03  5.81e-03  7.78e-03 -5.83e-03 -2.36e-02  6.52e-02 1.005
## 60853   9.14e-03 -2.68e-02  1.71e-02 -8.77e-03 -2.35e-03  7.05e-02 1.001
## 30789  -1.62e-02 -2.90e-02  2.92e-02 -1.76e-02 -3.00e-02 -7.48e-02 0.998
## 124070 -1.85e-03  8.87e-03  6.32e-03 -8.79e-03  6.59e-03  3.06e-02 1.004
## 6565   -5.87e-05  4.35e-04 -3.57e-04  2.55e-04  4.17e-04 -1.81e-03 1.006
## 69282  -3.10e-03 -3.60e-03  3.97e-03 -2.27e-03  5.75e-04  1.19e-02 1.004
## 51622  -2.23e-03  3.89e-03  3.06e-03 -1.29e-03 -3.45e-04  1.03e-02 1.003
## 117066 -3.02e-03 -1.75e-03  5.03e-03  5.20e-03  1.23e-03  1.48e-02 1.003
## 72189   1.49e-03  2.31e-03  1.73e-03 -1.71e-03 -1.79e-03  7.21e-03 1.004
## 19303  -1.47e-02  2.40e-02  1.47e-02  2.15e-03 -3.31e-02 -8.37e-02 1.001
## 62986  -1.23e-02 -1.22e-02  1.66e-02  1.98e-03  9.02e-03 -4.91e-02 1.005
## 100387 -8.78e-03 -4.68e-04 -7.85e-03  1.36e-03  1.25e-03  1.66e-02 1.004
## 22366   1.23e-02  1.26e-02 -2.81e-02  1.36e-02 -1.29e-02 -6.04e-02 0.994
## 30959  -5.54e-03  4.95e-03  2.07e-03 -7.09e-03  9.30e-04  1.96e-02 1.005
## 26996   1.11e-02 -1.14e-02  8.79e-03 -2.26e-03  2.07e-03  2.20e-02 1.003
## 86255   3.39e-03 -9.37e-03 -7.63e-03 -3.68e-03  5.47e-04  1.80e-02 1.003
## 34260  -3.29e-02 -1.99e-02 -5.02e-03  1.87e-02 -6.11e-03 -9.54e-02 0.998
## 49096  -8.36e-03 -8.21e-03 -7.87e-03 -3.39e-03  3.02e-03  2.49e-02 1.003
## 40305   7.60e-03 -1.83e-02 -1.55e-02 -4.95e-03 -1.25e-02  5.64e-02 1.004
## 69397  -7.54e-03 -7.80e-03  5.89e-03  7.73e-03  3.22e-03  1.78e-02 1.005
## 63132   1.25e-02  4.77e-03  2.46e-03 -5.16e-03 -1.27e-03  2.34e-02 1.005
## 40605   9.31e-03 -4.31e-03 -9.83e-03  4.19e-03  6.41e-03  2.39e-02 1.002
## 95852   1.09e-03 -7.52e-03  5.27e-03 -2.53e-03 -5.99e-04  1.25e-02 1.004
## 75194  -2.53e-02 -1.61e-02 -1.38e-02  1.11e-02  2.39e-02 -8.93e-02 1.001
## 68743  -4.43e-03 -7.39e-03  7.05e-03 -3.76e-03  1.36e-03  1.69e-02 1.003
## 107054  1.20e-02  7.36e-03  2.50e-03 -8.06e-03  2.41e-02  4.66e-02 1.006
## 120477  7.71e-03 -2.89e-02 -1.55e-02 -2.86e-02  9.17e-03 -9.36e-02 0.992
## 32614   9.70e-03  9.10e-03  7.67e-03 -3.11e-03  1.27e-02  3.51e-02 1.004
## 34558  -1.03e-02  1.25e-02 -1.16e-02 -1.77e-03  4.78e-03  2.55e-02 1.003
## 125883 -4.33e-02  1.10e-02 -2.31e-02 -3.54e-02  6.69e-03 -1.03e-01 0.992
## 13657  -1.26e-03  1.00e-02  4.21e-03 -8.29e-03 -2.01e-02  4.64e-02 1.005
## 94273  -6.24e-04 -1.55e-03  9.01e-04  2.79e-06 -7.89e-04  3.36e-03 1.005
## 38468  -2.58e-03  4.37e-03  3.55e-03 -1.92e-03  9.93e-04  1.04e-02 1.003
## 14952   1.91e-03  9.75e-03 -1.10e-02 -2.64e-04  9.05e-04  1.79e-02 1.003
## 89172   9.24e-04  3.94e-03  3.06e-03  4.32e-04 -1.81e-04  9.40e-03 1.003
## 60609  -1.18e-02  6.72e-03  1.86e-03  3.55e-04  2.21e-02  3.80e-02 1.007
## 32354  -4.30e-03 -8.33e-03  9.75e-03 -2.30e-03 -2.96e-02  3.70e-02 1.004
## 128788  8.09e-03  7.59e-03 -1.01e-02  2.50e-03 -3.67e-03  2.20e-02 1.004
## 96266   1.11e-02  1.90e-02 -2.40e-02 -4.97e-03 -4.15e-02  6.55e-02 1.002
## 5814    1.20e-02 -8.36e-04  7.22e-04  1.02e-02 -6.26e-03  3.12e-02 1.008
## 34538   1.02e-02 -2.50e-03  1.89e-02 -2.14e-03  1.33e-02 -5.38e-02 1.002
## 54445   7.64e-03 -5.88e-03  4.41e-03 -2.40e-03 -1.11e-03  1.63e-02 1.004
## 19652  -1.05e-03 -7.18e-03  8.43e-03 -3.55e-03  4.23e-03  1.61e-02 1.003
## 66467  -2.45e-03 -3.85e-03 -4.29e-03 -1.82e-03 -3.13e-03  1.20e-02 1.004
## 83623  -8.26e-03  9.05e-03  2.16e-02  5.00e-03  1.87e-02 -7.60e-02 1.001
## 17227  -5.92e-03 -5.89e-03 -6.13e-03 -4.18e-03 -4.97e-04  1.66e-02 1.003
## 55998  -9.17e-03 -3.37e-03 -6.13e-03 -2.83e-03  1.74e-03  1.73e-02 1.003
## 85952   2.28e-03 -7.08e-05  2.87e-03 -2.24e-03  1.03e-03  1.40e-02 1.004
## 128684  4.51e-03 -8.18e-03 -8.12e-03 -1.42e-03  1.82e-03  2.62e-02 1.003
## 20207   1.05e-02  8.95e-03  8.13e-03 -7.99e-04  5.32e-03  2.68e-02 1.002
```

```
## 34247   2.26e-02 -2.92e-02 -2.05e-02  8.14e-03 -5.11e-02 -1.17e-01 0.998
## 50137  -1.41e-03  3.87e-03  3.39e-03 -1.77e-04 -1.31e-03  1.14e-02 1.004
## 95790  -8.87e-04  2.05e-03  1.11e-03 -2.00e-03  4.79e-04  5.58e-03 1.004
## 14080   5.09e-02 -3.54e-04  3.83e-02  2.89e-02  4.54e-04 -1.21e-01 0.994
## 17077  -1.50e-02 -2.30e-02 -1.55e-02 -2.84e-02 -3.40e-03 -6.44e-02 0.994
## 50513  -3.21e-03  3.49e-03  2.03e-03  3.16e-03  8.24e-04  9.47e-03 1.004
## 106571 -1.42e-02 -3.47e-02  4.36e-02  1.20e-02 -3.11e-03 -7.57e-02 0.995
## 67746   7.68e-04  2.44e-03  3.51e-04 -3.44e-03  1.48e-03  1.11e-02 1.006
## 83979   2.14e-02  1.29e-02 -1.48e-02  4.86e-04  5.72e-03  3.49e-02 1.003
## 59168  -6.58e-03 -1.55e-02 -1.72e-02  3.87e-03 -1.91e-02  6.44e-02 1.005
## 82567   9.90e-04  2.04e-03  1.49e-03  7.41e-06 -1.43e-03  5.77e-03 1.004
## 118444 -1.66e-02  9.35e-04 -1.55e-02  3.54e-03  2.04e-02  5.59e-02 1.003
## 93788   3.76e-03 -7.09e-03  6.08e-03  5.10e-03  9.75e-04  2.05e-02 1.004
## 66647  -5.89e-02 -2.05e-02 -1.83e-02  1.73e-03 -1.06e-02 -8.01e-02 0.996
## 111294 -8.03e-03  5.72e-03  4.15e-03  4.68e-03  2.54e-03  1.54e-02 1.003
## 5438   -4.80e-03 -2.11e-03 -3.89e-03 -1.32e-03  1.57e-05  1.46e-02 1.005
## 72152   7.76e-03 -1.00e-02 -8.19e-03 -4.36e-03  7.60e-04  2.17e-02 1.003
## 77727   4.23e-04 -6.18e-04  2.76e-04  1.22e-03  5.05e-04  4.27e-03 1.006
## 118735 -2.66e-03 -1.23e-02 -1.38e-02  8.43e-03  2.07e-02 -8.11e-02 1.002
## 28522  -1.24e-02 -4.74e-03 -7.54e-03  8.55e-04  6.22e-03  2.27e-02 1.003
## 73734  -6.09e-03  4.64e-03  2.84e-03  9.49e-03  1.24e-03  1.98e-02 1.005
## 38197   6.69e-04  1.41e-03  3.47e-03 -2.14e-03  3.52e-04  9.23e-03 1.003
## 95596   8.44e-03 -2.00e-02 -2.31e-02  5.08e-03 -5.37e-03 -5.71e-02 0.992
## 18693   8.25e-03 -5.87e-03  5.32e-03  1.36e-03  7.14e-04  1.45e-02 1.004
## 75933   4.03e-02 -2.04e-02 -1.47e-02  1.96e-02  9.79e-03 -6.93e-02 1.000
## 119029  1.41e-03  1.09e-03  6.12e-04  3.22e-03 -4.44e-04  4.80e-03 1.005
## 91041  -5.66e-03  4.14e-03  3.21e-03 -2.25e-03  9.68e-04  1.02e-02 1.003
## 111662 -6.20e-04 -5.50e-03  4.39e-03 -8.39e-05 -6.48e-04  1.05e-02 1.004
## 92963   7.95e-03 -1.50e-02  4.49e-03  3.48e-03  1.35e-02  3.96e-02 1.006
## 13293   3.01e-02  5.17e-03 -7.63e-03  4.68e-02 -7.98e-02 -1.78e-01 0.999
## 35786   6.11e-03 -1.26e-02  8.60e-03 -8.92e-04  2.25e-03  1.86e-02 1.003
## 6256    2.38e-03  4.46e-03  2.56e-03  1.10e-03  3.51e-03  1.81e-02 1.005
## 9439   -7.99e-03 -4.26e-02  7.37e-02 -5.47e-02  1.97e-03 -1.72e-01 0.993
## 28467  -2.00e-02  1.61e-02 -1.85e-02 -5.27e-03 -2.65e-02  4.76e-02 1.004
## 114025  1.17e-02  5.34e-03  2.14e-03  1.18e-02 -6.33e-04  2.57e-02 1.004
## 87226  -1.30e-02 -1.20e-02  1.12e-02  1.76e-03  1.06e-02  2.82e-02 1.004
## 23554  -7.67e-03  2.87e-03  6.38e-03 -4.65e-03 -1.38e-02  2.76e-02 1.003
## 56172   1.53e-02  1.78e-02  2.33e-02  6.25e-03  1.27e-02 -7.30e-02 1.001
## 56065   5.89e-03  2.45e-03  1.26e-03 -1.50e-03  6.32e-04  1.03e-02 1.004
## 120817 -2.93e-02 -2.48e-02 -2.13e-02  9.53e-03  4.61e-03 -7.40e-02 0.993
## 26217   7.32e-03  2.23e-03  5.24e-03 -6.74e-03 -2.55e-03  2.67e-02 1.003
## 8422   -3.41e-03  6.93e-03 -7.88e-03 -3.84e-03 -1.30e-04  2.00e-02 1.006
## 87950   5.66e-03 -1.40e-02  1.23e-02 -2.81e-03  5.45e-03  2.65e-02 1.003
## 52221  -3.35e-03  6.91e-04  3.08e-03 -3.89e-03 -2.86e-04  1.13e-02 1.004
## 106194  8.15e-03 -1.70e-02  1.34e-02 -4.90e-03  8.22e-03  3.10e-02 1.003
## 12709  -5.21e-03  6.70e-03  3.74e-03 -6.51e-03 -1.22e-02  3.15e-02 1.005
## 60818   1.28e-02  6.72e-03  4.51e-03  3.44e-03  5.41e-03  2.59e-02 1.004
## 29562  -3.69e-03  3.69e-03 -8.53e-03 -2.98e-03  1.13e-03  1.58e-02 1.003
## 32209  -1.63e-02 -1.56e-03  8.76e-03 -8.23e-03 -6.58e-03  3.74e-02 1.004
## 23967   2.05e-02 -3.33e-02  4.41e-02  1.01e-02  2.58e-02 -8.83e-02 0.997
## 86249  -7.43e-03  2.60e-03  6.12e-03  4.99e-04  5.04e-03  1.63e-02 1.003
## 27148  -1.25e-03  4.05e-03  1.99e-03  1.39e-03  3.55e-04  1.14e-02 1.004
## 84172   8.01e-03 -1.72e-02  8.61e-03 -2.53e-03 -2.48e-03  3.15e-02 1.003
## 79057  -5.28e-02 -2.23e-02  2.30e-02 -5.93e-03 -4.02e-02 -9.21e-02 1.002
## 120535  8.80e-03  5.58e-03  3.69e-03  1.05e-02  2.78e-03  2.23e-02 1.004
## 93084  -1.26e-02 -7.51e-03 -7.67e-03  1.30e-03  2.77e-03  2.53e-02 1.003
## 118832 -1.40e-02  2.87e-02 -1.56e-02  1.04e-02 -1.37e-02 -8.55e-02 1.001
## 50258  -4.00e-03 -5.97e-03 -7.86e-03 -6.51e-03 -1.67e-03  2.15e-02 1.004
## 61987  -5.16e-04 -7.34e-03  3.60e-03 -1.62e-03 -7.63e-03  1.65e-02 1.005
## 14501   8.12e-03  9.65e-03 -1.20e-02 -9.55e-04 -4.20e-04  2.05e-02 1.003
## 34469   4.23e-03 -2.98e-03  1.81e-03 -4.34e-04 -8.49e-04  9.46e-03 1.005
## 55360  -2.47e-02 -1.87e-02 -1.17e-02  1.50e-02  3.60e-02 -1.08e-01 1.001
## 82026   2.23e-02  7.95e-03  8.42e-03  6.71e-03  1.02e-02  3.53e-02 1.003
## 45186  -1.27e-02 -7.71e-03  9.82e-03 -1.12e-02 -4.14e-03  3.82e-02 1.004
## 125901  2.13e-02  8.41e-03  6.26e-03 -4.12e-04 -1.83e-02  4.56e-02 1.003
## 65830   5.25e-03 -1.18e-03 -8.80e-03 -9.65e-04 -7.38e-04  1.59e-02 1.003
## 82954   3.65e-02  9.49e-03  1.11e-02  1.69e-02  2.13e-02  5.81e-02 1.004
## 85922  -7.62e-03  5.69e-03 -1.43e-02 -2.29e-04  6.60e-03  3.21e-02 1.005
## 117793 -5.31e-03  3.67e-02 -2.95e-02  5.94e-03 -1.62e-02 -8.09e-02 0.994
## 30291   5.58e-03 -2.22e-02  2.36e-02  2.32e-03  2.62e-02 -6.18e-02 1.002
## 6597   -1.23e-03 -1.23e-03 -1.60e-03 -1.16e-04 -8.35e-04  5.46e-03 1.005
## 125735  5.14e-03 -5.32e-04 -8.47e-03 -5.05e-04 -4.42e-03  2.43e-02 1.005
## 25871  -3.98e-04  1.07e-03  1.05e-03  3.18e-04 -3.57e-04  3.73e-03 1.003
## 19282  -1.50e-02  1.85e-02 -2.51e-02 -1.43e-02  3.14e-02  6.68e-02 1.004
## 13506   2.20e-03 -4.67e-03 -6.13e-03  2.53e-03 -6.11e-04  1.77e-02 1.005
## 70011   9.96e-03 -1.86e-02  2.23e-02  2.24e-03  5.45e-03 -6.07e-02 1.003
## 51775   7.76e-03 -2.14e-02 -1.36e-02  6.34e-03  3.68e-02 -6.84e-02 0.996
## 129115 -3.92e-04  4.85e-03  1.04e-03 -1.34e-03  2.62e-02  4.09e-02 1.011
## 84767  -1.10e-03 -7.01e-03  4.37e-03 -2.73e-03  8.54e-04  1.22e-02 1.004
## 58843   1.22e-03  6.20e-04  1.46e-03  3.44e-04 -8.95e-04  4.69e-03 1.003
## 59788  -4.41e-03  4.49e-03  3.33e-03 -3.12e-03  1.37e-03  1.07e-02 1.003
## 57794   6.23e-03 -6.50e-03  7.54e-03 -1.10e-03  2.19e-03  1.55e-02 1.003
## 56766  -3.19e-03  1.74e-02 -2.06e-02 -8.38e-03 -3.20e-02  4.90e-02 1.003
## 70003  -8.66e-04 -2.56e-03 -1.72e-02 -7.69e-03  3.82e-02  6.44e-02 1.009
## 91692   4.83e-03 -2.94e-03  4.42e-03 -8.88e-04  1.33e-04  1.01e-02 1.003
## 14326  -2.06e-02 -1.94e-02 -1.22e-02  5.41e-03  3.29e-02 -6.78e-02 0.997
## 46163   2.62e-02  1.10e-02  8.90e-03  4.10e-02 -2.93e-02  7.11e-02 1.004
## 3810    1.27e-02  4.64e-03  2.55e-03  1.75e-03  1.23e-03  2.46e-02 1.006
## 20069  -1.77e-03  5.81e-03  4.93e-03  3.49e-03  2.79e-03  1.48e-02 1.003
## 19529  -1.30e-02  9.03e-03  4.02e-03  2.81e-03 -2.67e-02  4.00e-02 1.005
## 127222 -3.35e-02  2.88e-02 -2.79e-02 -1.04e-02 -1.85e-02  8.92e-02 1.000
## 103818  1.23e-02  4.55e-03 -4.24e-03  1.10e-01 -6.95e-04  1.18e-01 1.033
## 12786  -9.83e-04  2.98e-03 -3.40e-03 -4.29e-04 -1.20e-03  8.73e-03 1.006
## 86361  -3.81e-03 -5.72e-03  4.05e-03 -2.79e-03  4.77e-04  1.23e-02 1.004
## 6249   -4.63e-03  4.36e-03  2.80e-03 -2.70e-03  4.35e-04  1.73e-02 1.005
## 97011   2.34e-03  6.77e-03 -8.95e-03 -2.49e-03  5.78e-04  1.66e-02 1.004
## 114274  1.39e-02 -2.82e-02 -1.87e-02  8.80e-03 -1.33e-02 -7.68e-02 0.994
## 5416    1.64e-02 -1.03e-02  2.50e-03  1.43e-02  9.68e-03  3.60e-02 1.009
```

```
## 65834  -5.24e-05 -6.78e-03  2.51e-03  5.37e-03  1.10e-02  2.27e-02 1.007
## 75176   2.51e-03  2.62e-04  1.34e-02 -1.88e-03  1.24e-02  3.85e-02 1.002
## 12202   7.88e-03  7.27e-03  5.71e-03 -2.07e-03  2.37e-03  3.16e-02 1.004
## 95047  -1.74e-02  1.64e-02  1.35e-02  8.82e-04  2.25e-02 -6.41e-02 1.004
## 110017 -2.18e-03 -5.80e-03  3.79e-03  1.90e-03  7.00e-04  9.53e-03 1.004
## 58882  -1.80e-03  1.14e-03  1.23e-03 -1.24e-03 -8.86e-04  4.46e-03 1.004
## 3460   -4.09e-02 -1.81e-02  3.88e-02 -3.29e-02 -1.57e-02 -1.11e-01 0.996
## 121200 -4.45e-04 -6.79e-03  4.45e-03 -3.21e-03 -8.36e-04  1.31e-02 1.004
## 34308  -1.89e-03  7.17e-04  1.21e-03 -8.82e-04 -2.01e-04  4.27e-03 1.004
## 24978  -8.83e-03 -2.94e-03  8.81e-03 -8.88e-03  3.93e-03  3.16e-02 1.002
## 18204  -2.68e-02 -1.89e-02 -2.28e-02 -1.84e-03 -2.31e-03  8.34e-02 1.004
## 51950  -5.52e-03  3.81e-03  2.19e-03 -2.58e-03  1.55e-03  1.11e-02 1.004
## 22510  -9.94e-04  6.50e-03 -7.00e-03 -7.34e-04 -2.03e-03  1.47e-02 1.004
## 74145  -7.45e-05  1.19e-03  3.08e-04  5.08e-04  6.78e-06  4.32e-03 1.004
## 51394   8.78e-04  8.94e-04  1.40e-03 -5.66e-04 -1.72e-03  7.05e-03 1.004
## 126606 -1.61e-02  1.02e-02 -8.72e-03  3.98e-04  6.27e-04  2.74e-02 1.005
## 87141  -1.29e-03 -1.53e-03  1.69e-03 -8.52e-04 -7.02e-04  4.33e-03 1.004
## 61663   1.18e-02  2.11e-02  2.73e-02  2.60e-02 -1.44e-02 -7.92e-02 0.996
## 5401   -5.92e-04  1.89e-03  9.44e-04 -6.43e-04 -5.76e-04  7.42e-03 1.005
## 55294   1.37e-02  6.25e-03  5.96e-03  2.55e-03  4.08e-03  2.19e-02 1.003
## 87499   7.10e-03  1.75e-03 -8.77e-03  4.08e-04  1.36e-03  1.73e-02 1.004
## 4411   -1.54e-02 -4.30e-03  7.37e-03  3.15e-04 -1.33e-02  3.88e-02 1.005
## 53618  -1.60e-02 -3.48e-02  3.78e-02  1.43e-02  5.73e-03 -7.45e-02 0.995
## 44815  -6.18e-05  1.18e-03  4.18e-04  1.02e-03  7.08e-04  4.05e-03 1.004
## 27670   4.67e-03 -7.28e-03  1.09e-02  3.10e-03 -1.79e-02  3.77e-02 1.002
## 64447  -1.81e-03  6.84e-04  1.22e-03 -9.75e-04 -4.24e-04  3.91e-03 1.004
## 90832   1.09e-02  6.64e-03  5.57e-03 -1.30e-03  2.63e-03  1.92e-02 1.003
## 63048   5.15e-03  4.50e-03  3.70e-03 -2.93e-03 -3.55e-04  1.30e-02 1.003
## 75468   8.14e-04  2.29e-02 -2.77e-02 -5.70e-03 -1.33e-02  5.61e-02 1.000
## 114155  4.55e-03  9.12e-03  8.47e-03 -5.95e-03  5.54e-03  2.63e-02 1.002
## 129080 -5.10e-02 -2.27e-02 -2.00e-02 -1.70e-03 -3.70e-03 -9.33e-02 0.995
## 21679  -8.84e-03  8.48e-03  2.11e-02 -2.67e-03  1.47e-02 -4.93e-02 1.000
## 110471 -1.06e-02 -1.72e-02  1.66e-02 -4.35e-04  2.10e-02  4.30e-02 1.004
## 18707   1.37e-02 -1.08e-02 -1.11e-02  4.07e-03  2.38e-03  2.56e-02 1.002
## 116683  2.68e-03 -3.97e-03  2.42e-03 -1.07e-04 -8.78e-04  6.89e-03 1.004
## 118988  2.55e-03 -3.21e-03 -5.45e-03  2.20e-03 -1.87e-03  1.16e-02 1.004
## 19213  -5.64e-03 -9.58e-03  6.72e-03  1.84e-03  7.32e-04  2.43e-02 1.003
## 73482   9.13e-03  3.83e-03  2.05e-03  1.90e-03  1.22e-03  1.61e-02 1.004
## 12692  -7.19e-04 -5.27e-03 -4.69e-03 -1.24e-05 -5.51e-04  1.57e-02 1.005
## 64661  -9.37e-03 -7.27e-03 -5.56e-03 -5.92e-03 -3.10e-04  1.86e-02 1.004
## 23299   5.23e-03  4.40e-03  2.85e-03  1.24e-03 -7.79e-04  1.50e-02 1.004
## 104394  3.66e-03  5.96e-03 -8.14e-03  3.06e-03 -7.10e-04  1.42e-02 1.004
## 37864   1.01e-02 -1.27e-03 -8.32e-03  1.61e-03 -2.31e-05  1.94e-02 1.005
## 106688 -1.06e-02  8.94e-03  5.59e-03  5.18e-03 -2.17e-02  3.55e-02 1.004
## 66335  -5.62e-03  4.42e-03  1.63e-03 -5.80e-04  6.75e-03  2.20e-02 1.006
## 10145   3.88e-02 -4.33e-02  4.55e-02  2.32e-02  1.27e-03 -1.21e-01 0.994
## 51889  -1.60e-02 -1.10e-02  1.17e-02 -7.23e-03  6.11e-03  2.79e-02 1.003
## 73578  -8.71e-03 -5.10e-03 -5.70e-03 -2.02e-03  1.68e-03  1.75e-02 1.004
## 42799  -3.08e-02  3.09e-02 -1.96e-02  8.84e-03  2.47e-03 -7.69e-02 0.997
## 92725  -7.51e-03 -6.02e-03 -1.39e-02  4.56e-03  6.46e-03 -6.26e-02 0.996
## 51120   9.91e-04  4.56e-03  3.00e-03 -1.58e-03  9.91e-04  1.07e-02 1.003
## 14789  -3.73e-03  4.54e-03  6.08e-03 -3.97e-03  3.22e-03  1.52e-02 1.003
## 92297  -1.61e-04 -3.29e-03 -4.92e-03  4.04e-03 -1.73e-03  1.27e-02 1.005
## 66104   1.19e-02  3.25e-02 -2.03e-02  5.46e-04  4.15e-02 -8.88e-02 0.999
## 109185 -2.14e-02  2.55e-04 -2.07e-02 -9.21e-03 -2.93e-02  1.02e-01 1.002
## 95874  -4.22e-04  8.96e-03 -9.94e-03  2.13e-03 -1.18e-03  1.78e-02 1.003
## 66356   5.96e-03  6.07e-03  6.07e-03  2.79e-03  4.19e-03  1.96e-02 1.003
## 39712  -2.67e-02  2.29e-02  2.03e-02  1.64e-03 -1.85e-02 -6.16e-02 0.998
## 71301   1.45e-03  4.42e-03  2.73e-03 -1.64e-03  9.26e-04  1.06e-02 1.003
## 99765  -1.71e-02 -1.85e-02 -2.10e-02 -1.01e-02 -2.69e-02 -8.61e-02 0.999
## 4019    2.38e-02 -8.90e-03 -1.16e-02  3.43e-03  6.16e-03  4.72e-02 1.005
## 82823  -4.14e-02  4.98e-02 -2.45e-02  1.94e-03  6.37e-02 -1.08e-01 0.996
## 115431  2.52e-03  9.35e-03 -1.01e-02  3.85e-03  1.33e-03  1.98e-02 1.003
## 77642  -1.69e-03  4.20e-03  3.24e-03 -1.82e-03  3.24e-04  9.01e-03 1.003
## 43350  -5.41e-03  8.96e-03 -1.02e-02  1.28e-04  7.05e-04  1.67e-02 1.003
## 101969 -9.65e-05 -6.47e-03 -9.70e-03 -1.36e-03 -3.63e-04  2.30e-02 1.004
## 43187   1.28e-02  2.17e-02 -3.06e-02  8.11e-03 -3.19e-02  9.81e-02 0.999
## 43536  -1.07e-02  6.83e-03  2.41e-03 -7.44e-03 -1.36e-02  2.83e-02 1.005
## 77114  -3.29e-02  1.74e-02  3.38e-02  1.32e-02  1.84e-02 -8.74e-02 1.000
## 88125   7.20e-03 -1.27e-02 -9.56e-03  3.30e-03  2.82e-03  2.29e-02 1.002
## 18624  -1.16e-02  8.59e-03 -7.94e-03  1.27e-03  1.38e-03  1.96e-02 1.004
## 43661  -4.55e-04 -2.72e-03  1.81e-03 -8.14e-04 -3.03e-04  4.64e-03 1.004
## 72593  -3.31e-03 -1.36e-02 -1.21e-02 -6.55e-04  1.35e-02 -5.87e-02 1.001
## 2742   -3.47e-04 -1.77e-04 -5.51e-05 -2.73e-04  1.56e-04 -9.38e-04 1.006
## 32760   2.45e-02 -3.31e-02  3.46e-02  1.08e-03 -1.62e-02 -7.93e-02 0.998
## 61821   1.80e-02  2.10e-02  2.09e-02  1.73e-02 -8.46e-03 -6.14e-02 0.997
## 97057  -3.49e-03  3.69e-03  9.53e-03  4.30e-03 -6.76e-04  3.87e-02 1.001
## 73792  -1.62e-03 -6.09e-03  3.52e-03 -1.60e-04  1.59e-04  1.18e-02 1.004
## 31541   4.93e-03 -2.28e-03 -6.34e-03  2.92e-04 -2.22e-03  1.30e-02 1.003
## 113095 -4.15e-03 -5.26e-04  4.04e-03 -2.82e-03  1.22e-03  9.28e-03 1.003
## 11902   4.52e-03  6.73e-03  3.65e-03 -1.75e-03 -1.56e-02  3.27e-02 1.005
## 91268   1.14e-02  3.01e-03 -1.17e-02 -2.40e-03  4.02e-04  2.10e-02 1.003
## 104302  1.59e-03  7.91e-03  3.29e-03 -5.95e-03 -2.67e-03  2.93e-02 1.004
## 44103   2.88e-02  9.52e-03  8.82e-03  6.03e-03 -3.97e-02  6.01e-02 1.004
## 59624  -1.24e-03  1.03e-02  7.99e-03 -1.54e-03 -2.03e-02  3.85e-02 1.002
## 100881  1.49e-02  2.58e-02 -1.07e-02  1.07e-02 -7.82e-02 -1.67e-01 0.997
## 1914   -6.98e-03  6.42e-03  4.57e-03  7.64e-03  8.10e-03  3.06e-02 1.007
## 104710  1.96e-02 -1.89e-02  1.48e-02 -1.39e-03 -1.09e-02  5.97e-02 1.002
## 18247  -2.81e-02  1.40e-02  8.36e-03  1.01e-02 -7.41e-03  5.99e-02 1.004
## 27922   1.09e-02  1.32e-02  7.14e-03 -2.12e-03  8.85e-04  6.07e-02 1.002
## 2173    1.14e-03 -1.07e-03 -6.14e-04 -8.36e-05  5.68e-04 -4.16e-03 1.005
## 9013    2.28e-03  2.49e-03  1.91e-03 -1.61e-03 -6.19e-04  1.08e-02 1.005
## 60130  -5.54e-03 -2.98e-02  2.85e-02  8.36e-03 -2.40e-02 -6.39e-02 0.998
## 117513 -1.15e-02 -9.24e-03 -6.90e-03  8.11e-03  3.36e-03  2.51e-02 1.004
## 80988  -7.36e-03  4.16e-03  2.53e-03 -4.85e-03 -9.37e-04  1.40e-02 1.005
## 79815   1.19e-03  1.41e-02 -1.49e-02 -7.61e-03  4.38e-03  2.73e-02 1.002
## 50814  -2.46e-03  9.44e-03 -1.04e-02 -1.73e-03  1.77e-04  1.68e-02 1.003
## 28941  -9.71e-03  6.13e-03  5.04e-03 -2.20e-04  3.68e-03  1.59e-02 1.003
```

```
## 21040  -3.02e-03  3.52e-03  2.44e-03  2.94e-03  9.78e-04  9.25e-03 1.004
## 69966  -9.15e-05  2.02e-03  1.19e-03 -8.17e-04 -8.02e-05  5.17e-03 1.003
## 89650   4.71e-03 -7.05e-03  5.50e-03 -1.97e-03 -1.22e-03  1.41e-02 1.004
## 47965   2.20e-03  4.11e-03  1.50e-03 -4.09e-03 -2.06e-03  1.83e-02 1.005
## 45989  -3.62e-03  7.77e-03  4.75e-03 -5.03e-03 -5.77e-03  2.93e-02 1.003
## 58913   3.55e-04 -7.40e-03  8.45e-03 -3.49e-03  4.78e-03  1.59e-02 1.003
## 48382   2.96e-02  2.66e-02  2.84e-02 -2.16e-04  3.35e-03 -7.48e-02 0.993
## 21906   2.64e-02 -1.02e-02  1.46e-02  3.53e-03 -2.08e-02  6.48e-02 1.002
## 39893   8.13e-03 -1.31e-02  9.12e-03 -2.43e-03  3.04e-03  2.22e-02 1.003
## 117087  2.66e-03 -4.63e-03 -8.12e-03  3.38e-03 -4.23e-03  2.21e-02 1.004
## 36758  -1.26e-02  6.52e-03  7.12e-03 -1.48e-03  1.03e-02  2.90e-02 1.004
## 40987  -4.85e-03 -7.80e-03 -7.16e-03  6.23e-04  9.38e-04  1.69e-02 1.003
## 36504  -6.89e-04  4.59e-03  3.19e-03 -3.01e-03  1.02e-03  9.97e-03 1.003
## 39522   2.04e-02  4.68e-03  1.49e-02  3.27e-03  1.97e-02 -5.97e-02 1.003
## 55771   9.83e-03 -1.23e-02 -1.06e-02  2.51e-03  1.12e-02 -6.07e-02 1.003
## 32311   1.38e-02 -2.91e-02 -2.19e-02  3.19e-02 -5.72e-03 -6.50e-02 0.992
## 13882   1.01e-04  1.29e-03 -9.06e-04  1.02e-04  5.77e-04 -3.32e-03 1.006
## 76903   4.84e-03 -1.46e-02  1.26e-02  1.09e-03 -2.02e-02  3.90e-02 1.002
## 30768   1.22e-03  9.06e-03 -1.04e-02  1.46e-03 -1.14e-03  1.81e-02 1.003
## 101918 -1.68e-03  6.72e-03  4.38e-03 -1.06e-03  3.57e-03  1.81e-02 1.003
## 78399   7.04e-03  7.18e-03  3.55e-03 -2.69e-03 -6.04e-03  3.32e-02 1.004
## 27891   4.10e-03  1.04e-02 -1.08e-02 -3.27e-03  1.57e-03  2.17e-02 1.003
## 84302   6.43e-03  1.27e-02 -1.52e-02  1.55e-03  2.73e-03  2.42e-02 1.002
## 122932  1.41e-02 -6.59e-03  7.90e-03  6.48e-03  6.46e-03  2.41e-02 1.004
## 1483   -7.28e-04  3.46e-03  1.03e-03 -4.10e-03  3.80e-03  1.93e-02 1.007
## 121844  4.93e-03  9.21e-03  9.21e-03 -7.51e-03  9.41e-03  2.79e-02 1.003
## 22820   1.15e-02  2.40e-02 -2.47e-02 -3.43e-03 -2.57e-03 -7.32e-02 0.994
## 93640   3.52e-02 -1.62e-02 -1.25e-02  3.14e-03 -2.38e-02 -8.93e-02 0.996
## 67499   1.38e-03  6.66e-04  1.05e-03 -1.84e-03  1.61e-03  7.73e-03 1.004
## 104550  2.50e-02  2.71e-02  1.88e-02  2.09e-03 -2.50e-02 -6.95e-02 0.997
## 32739   1.16e-03  9.49e-03  7.60e-03 -1.25e-03  1.14e-03  2.73e-02 1.002
## 54561   5.88e-03 -3.11e-02  1.66e-02 -3.97e-03  1.53e-02  7.79e-02 1.003
## 4594    1.51e-03 -3.50e-03 -6.16e-03  2.51e-02 -1.02e-03  2.91e-02 1.014
## 24323  -5.34e-03  1.01e-02 -9.49e-03 -4.50e-03  2.01e-03  2.04e-02 1.003
## 18984   3.90e-03  6.82e-03  4.18e-03  2.13e-03  4.64e-03  2.10e-02 1.003
## 87319  -3.94e-04 -2.46e-04  6.52e-03 -1.34e-03  1.32e-02  3.65e-02 1.003
## 25085   1.26e-02 -2.09e-02 -1.81e-02  1.40e-03  1.79e-03 -7.29e-02 0.998
## 8370   -4.79e-03  7.84e-03 -9.98e-03 -5.46e-03  1.39e-03  3.11e-02 1.006
## 20103   1.07e-04  1.77e-03  3.44e-03 -3.37e-03  9.63e-04  1.09e-02 1.003
## 53537   1.61e-02  4.20e-02 -2.83e-02  4.16e-03  7.35e-02 -9.99e-02 0.998
## 30911  -2.60e-02 -2.24e-02 -1.99e-02  5.74e-03 -2.47e-02 -9.34e-02 0.998
## 73626   1.36e-02 -6.14e-03  1.08e-02 -2.61e-04  5.13e-03  2.85e-02 1.002
## 97518   1.06e-02  4.13e-03  3.32e-03  4.07e-03  1.48e-04  1.52e-02 1.004
## 123941  2.48e-03  7.45e-03  7.67e-03 -2.91e-03  4.10e-03  2.63e-02 1.003
## 105526 -5.36e-03 -1.17e-02  7.43e-03 -3.70e-03 -1.51e-03  2.33e-02 1.004
## 41547  -1.42e-04  1.16e-04 -2.09e-06 -4.39e-04 -8.07e-05 -6.86e-04 1.010
## 96078   1.69e-02 -7.85e-03 -1.69e-02  2.84e-03 -3.39e-03 -8.85e-02 0.995
## 114395  6.47e-03 -1.92e-02  1.82e-02  3.53e-03  1.92e-02 -7.12e-02 1.005
## 36596   2.49e-03  1.40e-02 -1.89e-02  2.94e-03  2.93e-02 -9.92e-02 0.998
## 108901 -5.01e-03 -2.37e-02  1.42e-02  1.37e-02 -2.03e-02  8.17e-02 1.003
## 123112 -1.36e-02 -1.38e-02  3.11e-02  1.62e-02  2.20e-02 -8.56e-02 1.000
## 79487   2.12e-03 -6.87e-03  2.98e-03  1.43e-02  1.85e-02  3.60e-02 1.007
## 30290  -2.48e-03  4.29e-03  5.90e-03  1.81e-03  5.09e-03  1.52e-02 1.003
## 58788  -6.19e-04  1.27e-03  8.03e-04  4.58e-04 -5.20e-04  3.53e-03 1.004
## 33587   6.33e-03  6.04e-03  3.87e-03  3.74e-03 -1.47e-04  1.96e-02 1.003
## 77218  -1.73e-02 -6.06e-03  1.02e-02 -1.61e-02 -2.25e-02  7.49e-02 1.006
## 38341  -1.58e-02  7.99e-03 -1.14e-02 -6.81e-03  3.76e-03  3.04e-02 1.004
## 108541  8.86e-03  1.41e-03  4.33e-03  1.19e-03  8.44e-04  1.48e-02 1.004
## 77431  -1.93e-02 -2.47e-02 -1.46e-02  1.22e-02 -5.76e-03 -7.45e-02 0.995
## 30504  -3.72e-03  2.33e-03  2.46e-03  2.30e-03 -1.48e-02  2.54e-02 1.005
## 83531   3.36e-03  1.01e-02 -1.10e-02 -2.92e-03  6.33e-04  1.94e-02 1.003
## 78873   1.80e-03 -7.06e-03 -7.43e-03 -1.21e-04 -1.09e-03  1.77e-02 1.003
## 34936   2.60e-02  1.68e-02  2.96e-02  1.76e-02 -4.98e-03 -6.59e-02 0.994
## 60610  -8.68e-03 -1.06e-02 -9.07e-03  3.33e-03  2.08e-03  2.47e-02 1.003
## 49529  -4.36e-03 -2.20e-03 -4.10e-03 -5.82e-04 -1.89e-03  1.11e-02 1.004
## 7933    2.59e-03 -1.43e-03  1.84e-03 -3.67e-04 -1.14e-02  2.28e-02 1.006
## 120539 -1.06e-03 -1.80e-03  1.25e-03 -4.37e-04 -7.38e-04  4.41e-03 1.005
## 65763  -4.29e-04 -3.79e-02  3.65e-02  1.37e-02 -6.78e-03 -7.96e-02 0.995
## 69835  -2.57e-02  4.49e-02 -1.79e-02  2.55e-02 -9.44e-03 -1.09e-01 0.998
## 104561  4.11e-03 -2.73e-03  4.00e-03  1.49e-03  6.58e-04  1.00e-02 1.003
## 57738  -7.89e-03  6.82e-03 -1.31e-02 -1.91e-03  1.93e-03  2.64e-02 1.003
## 109887 -1.17e-02 -1.19e-02 -1.88e-02 -8.85e-03 -2.15e-02  5.53e-02 1.000
## 116048  1.23e-03  4.27e-03  2.51e-03  1.22e-03  3.27e-04  1.29e-02 1.004
## 35809  -1.19e-02 -9.41e-03  7.97e-03  7.18e-04 -1.24e-02  2.76e-02 1.003
## 129781 -2.67e-02 -2.89e-02  3.12e-02  2.15e-03 -1.21e-02 -7.38e-02 0.998
## 75895   4.48e-03 -4.53e-03  2.23e-03 -1.01e-03 -2.06e-03  1.00e-02 1.005
## 7413    4.11e-03  4.53e-03  3.78e-03 -2.41e-04  3.53e-03  1.86e-02 1.005
## 23345  -4.77e-02  1.22e-02  3.67e-02 -9.12e-03  4.22e-03 -9.11e-02 0.995
## 9789   -6.77e-03 -4.67e-03 -8.55e-03 -6.54e-03 -1.96e-04  3.08e-02 1.006
## 48658  -8.64e-03  6.40e-03  5.56e-03 -2.92e-03  3.72e-03  1.66e-02 1.003
## 45430   9.42e-03 -9.45e-03  7.73e-03  3.82e-04 -1.05e-02  2.74e-02 1.003
## 128797  5.52e-03  5.75e-03  3.71e-03 -7.37e-04  5.22e-05  2.16e-02 1.004
## 18720  -3.28e-04 -6.60e-03 -6.59e-03 -7.19e-04 -1.59e-03  1.67e-02 1.003
## 23888  -9.34e-04  1.11e-02  8.64e-03 -2.18e-03 -2.48e-02  3.84e-02 1.002
## 57400   2.13e-03 -1.44e-02 -9.04e-03 -7.98e-04  1.73e-02  3.63e-02 1.003
## 45338  -1.26e-02 -1.74e-03 -1.56e-02 -2.60e-03  2.33e-02  5.02e-02 1.006
## 47722  -1.58e-02  2.57e-02 -2.46e-02  1.86e-02 -1.03e-02 -7.84e-02 0.997
## 114257  3.07e-02 -2.08e-02  2.20e-02  1.55e-02  1.31e-02 -7.73e-02 1.006
## 19335  -1.31e-03 -6.77e-03  8.03e-03 -4.76e-04  6.16e-03  1.74e-02 1.003
## 27128   2.37e-03  5.00e-03  2.26e-03  7.19e-03 -9.11e-03  2.11e-02 1.004
## 107234 -1.99e-02 -1.82e-02 -1.06e-02 -2.85e-03  1.10e-02 -7.93e-02 0.999
## 66699  -2.91e-04  5.99e-04  3.70e-04  1.21e-03 -4.23e-04  2.20e-03 1.004
## 126217  5.30e-03  1.44e-02 -1.57e-02 -5.67e-04  3.16e-03  4.18e-02 1.004
## 102207 -4.07e-03 -9.61e-03  7.18e-03 -2.47e-03  2.95e-03  1.90e-02 1.004
## 51747  -1.29e-02 -2.30e-02 -6.30e-03  1.68e-02 -7.16e-02 -1.39e-01 0.997
## 120652  1.88e-02  5.10e-02 -3.98e-02  3.89e-03  5.58e-03 -8.85e-02 0.992
## 9986   -1.53e-03  3.75e-04  2.07e-03 -3.50e-03 -1.44e-02  2.47e-02 1.007
## 88589  -4.41e-03  9.04e-03 -9.38e-03 -9.04e-04 -1.96e-03  1.97e-02 1.003
```

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## 19942   2.02e-03 -3.79e-03  4.69e-03 -1.15e-03  6.85e-04  9.43e-03 1.003
## 117368 -3.23e-03  1.11e-03 -8.62e-03 -2.85e-03 -6.33e-04  1.70e-02 1.003
## 17648  -9.28e-04  1.46e-03  8.43e-04 -5.20e-04  9.69e-06  3.97e-03 1.004
## 76851  -1.72e-02  2.13e-02 -2.09e-02  1.40e-02  1.23e-03 -8.19e-02 0.995
## 14945  -1.06e-02 -5.00e-04 -9.77e-03  3.06e-03  3.71e-03  2.03e-02 1.003
## 57065   9.12e-03  2.15e-02  1.58e-02 -2.67e-03 -2.17e-02 -7.58e-02 1.002
## 58620   8.71e-04  4.06e-03  1.06e-03 -8.87e-04  1.52e-02  2.86e-02 1.008
## 120488 -5.18e-03 -1.32e-03  4.11e-03 -1.54e-03  1.30e-03  1.04e-02 1.004
## 103711  5.68e-03  7.39e-03  6.31e-03 -4.45e-03  6.00e-03  2.18e-02 1.003
## 11634  -4.55e-04  2.70e-03  3.29e-03  8.65e-04  1.60e-03  1.53e-02 1.005
## 49429   1.05e-03  2.21e-03  1.18e-03 -1.04e-03 -2.49e-03  7.94e-03 1.004
## 4990   -2.09e-07  2.97e-06  3.15e-06 -6.91e-06  7.72e-07 -1.12e-05 1.008
## 42022  -2.46e-02  1.60e-02  1.03e-02  7.59e-03 -9.53e-03  6.81e-02 1.002
## 68343   1.38e-02 -5.20e-03 -1.36e-02 -2.55e-03  1.18e-02  4.34e-02 1.003
## 114086  5.75e-04 -9.09e-03  8.72e-03 -2.09e-03  5.77e-03  1.78e-02 1.003
## 109361 -3.60e-03 -1.38e-02  1.22e-02  1.42e-02 -3.07e-02  4.49e-02 1.003
## 130416  7.05e-03 -1.11e-02 -8.23e-03 -3.28e-03  1.70e-03  2.82e-02 1.004
## 11738   6.16e-03  3.31e-02  6.70e-02  5.92e-02 -2.00e-01 -3.31e-01 1.008
## 78654  -4.36e-03  1.30e-02 -1.31e-02 -9.57e-04  5.63e-03  2.28e-02 1.002
## 5471   -5.31e-03 -2.36e-03  6.25e-03 -3.24e-03  7.59e-03  2.66e-02 1.005
## 78487   4.80e-02 -2.82e-02 -2.61e-02 -2.69e-02 -4.72e-02 -1.05e-01 0.996
## 84084  -3.84e-03 -6.36e-03  7.22e-03  2.01e-03  3.28e-03  1.52e-02 1.003
## 60199  -2.39e-03  4.27e-03  3.47e-03 -1.40e-03  7.75e-04  1.00e-02 1.003
## 6323    1.67e-02 -4.39e-03  4.29e-03  3.55e-03 -2.20e-03  2.82e-02 1.006
## 116605  6.32e-03 -3.65e-03 -8.66e-03  5.66e-03 -1.41e-03  1.86e-02 1.003
## 62415   2.67e-03  3.93e-03  1.84e-03 -2.78e-03  2.89e-03  1.69e-02 1.004
## 68116   8.27e-04 -6.74e-04 -5.57e-03  7.21e-04 -3.87e-03  1.19e-02 1.004
## 120127 -3.20e-03  7.19e-03 -9.95e-03  1.01e-02  8.33e-04  1.95e-02 1.004
## 20593   3.20e-03  2.94e-02  2.00e-02 -1.45e-02 -2.26e-02 -6.39e-02 0.997
## 125776 -8.34e-03 -1.50e-02  1.77e-02 -1.52e-03  1.51e-02 -5.56e-02 1.004
## 89850   3.06e-02 -1.38e-02  1.58e-02 -3.42e-03 -3.18e-03  7.61e-02 1.002
## 28036  -6.43e-03 -2.70e-02  2.70e-02  1.46e-02 -2.21e-02 -7.30e-02 1.001
## 104272 -2.56e-03  9.65e-03  6.52e-03 -4.19e-03 -2.44e-02  3.68e-02 1.003
## 43817   5.73e-03  9.81e-03 -1.40e-02 -4.87e-03  2.02e-03  2.63e-02 1.004
## 3094    2.38e-02  1.59e-02 -2.45e-02 -4.88e-03 -7.29e-03  6.19e-02 1.004
## 127656 -3.99e-03 -7.97e-03  5.77e-03 -2.69e-04  1.54e-03  1.59e-02 1.004
## 94336  -3.02e-03 -4.11e-03 -6.81e-03  2.02e-03  6.15e-04  1.43e-02 1.003
## 119133 -5.85e-03 -3.90e-03 -7.14e-03 -4.33e-04  1.34e-03  1.55e-02 1.003
## 104737  1.38e-02  9.13e-03  3.27e-03 -1.01e-03 -1.82e-02  4.11e-02 1.004
## 38580   2.96e-03  6.83e-03  4.35e-03 -2.31e-04  3.71e-03  1.92e-02 1.003
## 115606  2.54e-02 -3.77e-03 -2.77e-02 -1.94e-02 -8.74e-03 -7.50e-02 0.991
## 118276 -1.77e-03  4.37e-03  2.39e-03 -7.35e-04  5.18e-04  1.21e-02 1.004
## 58118  -1.08e-02 -6.07e-03 -5.19e-03  1.67e-03  9.66e-04  1.71e-02 1.004
## 111855 -4.40e-03  3.49e-04  3.33e-03 -1.25e-03 -2.67e-04  9.50e-03 1.004
## 104517  6.80e-03 -6.93e-03  5.10e-03  2.76e-03 -1.95e-03  1.47e-02 1.004
## 64256  -2.52e-03  3.35e-03  2.62e-03  1.90e-03 -5.80e-04  9.69e-03 1.004
## 110218  4.98e-04  2.39e-03  1.24e-03 -1.51e-03 -1.65e-03  7.76e-03 1.004
## 105323 -2.74e-02 -1.73e-02  1.08e-02 -2.13e-02  1.35e-02  6.57e-02 1.004
## 82713  -3.47e-04  4.81e-04  9.80e-04 -5.92e-05 -1.52e-04  3.54e-03 1.003
## 81857  -1.20e-03 -4.72e-04  9.10e-04 -8.27e-06 -1.84e-04  2.57e-03 1.004
## 40649  -7.26e-03  3.02e-02  2.92e-02  1.22e-02 -6.41e-03 -8.00e-02 0.998
## 42439   3.80e-04 -2.38e-03  4.56e-03 -3.14e-03  7.50e-04  8.98e-03 1.003
## 78618  -1.39e-02  3.34e-02 -2.73e-02 -7.39e-03  6.87e-03 -8.43e-02 0.992
## 58361   3.39e-02  1.65e-02 -2.89e-02  7.42e-03  9.02e-03 -8.40e-02 0.990
## 89698   5.35e-03 -5.61e-03  5.20e-03 -5.45e-04  3.53e-04  1.17e-02 1.003
## 99629  -1.19e-02  2.38e-03  5.12e-03  5.37e-04  2.43e-03  1.78e-02 1.004
## 6601    1.11e-02  4.84e-03  8.66e-04 -2.53e-03 -1.44e-02  3.11e-02 1.007
## 76120   4.27e-03  4.70e-04 -6.57e-03  1.37e-04 -4.49e-03  1.40e-02 1.004
## 78464  -5.16e-03 -1.12e-02 -1.38e-02  3.98e-02 -2.47e-02  5.48e-02 1.007
## 90646   1.63e-02  8.41e-03  7.14e-03  5.65e-03  1.09e-03  3.07e-02 1.003
## 55990  -1.02e-02  9.06e-03 -9.05e-03  1.40e-04  1.75e-03  1.90e-02 1.004
## 102529  3.50e-03  6.83e-03  2.49e-03 -3.88e-04  1.74e-02  3.52e-02 1.005
## 77338   5.75e-03 -1.29e-02 -9.65e-03  2.01e-03  1.47e-03  2.69e-02 1.003
## 63754  -7.02e-03 -6.61e-03  6.29e-03 -3.63e-04  1.55e-03  1.78e-02 1.004
## 4479   -2.15e-04 -6.99e-04  3.46e-04  9.62e-04  8.31e-05  2.72e-03 1.007
## 129051  7.01e-04 -7.13e-03  3.70e-03  4.58e-03  2.78e-03  1.77e-02 1.005
## 99350  -2.69e-03  2.78e-03  6.86e-03 -6.91e-03  3.85e-03  1.51e-02 1.003
## 13725   3.69e-02 -2.94e-02 -1.04e-03  3.62e-02 -1.87e-01 -2.84e-01 1.003
## 526    -2.65e-04 -1.43e-02  4.29e-03 -1.67e-03  1.58e-02  4.61e-02 1.008
## 97257  -1.50e-03  1.34e-03  9.70e-04 -1.70e-03  8.34e-04  5.82e-03 1.004
## 19242  -3.49e-03 -5.94e-03  4.38e-03 -3.77e-03  2.35e-04  1.27e-02 1.004
## 99969  -1.34e-04 -2.56e-04 -3.19e-05 -1.48e-03 -1.81e-04 -1.83e-03 1.007
## 107276 -3.67e-03 -8.26e-03 -8.07e-03 -2.99e-03  7.57e-03  2.28e-02 1.003
## 95772  -2.58e-05  4.54e-03  3.74e-03 -1.60e-03  1.32e-03  1.16e-02 1.003
## 94798  -1.37e-04  6.62e-04  1.34e-03  4.73e-04 -6.31e-04  4.57e-03 1.004
## 108505  1.88e-02 -1.20e-02 -1.20e-02  1.18e-03  1.84e-02  4.74e-02 1.004
## 8007   -4.83e-03  6.79e-03  3.61e-03  1.67e-03 -1.65e-02  3.15e-02 1.005
## 10876  -3.43e-02 -2.52e-02 -2.17e-02  5.92e-03 -1.16e-02 -1.15e-01 0.995
## 87021   1.21e-03  4.70e-03  2.58e-03 -1.63e-03  3.88e-04  1.35e-02 1.004
## 103554 -3.29e-03  6.71e-03  5.50e-03 -5.63e-03  2.58e-03  1.65e-02 1.003
## 38625  -2.82e-03  1.32e-02 -1.38e-02 -3.00e-03  4.83e-03  2.96e-02 1.003
## 22680  -1.33e-02  3.00e-03 -1.85e-02 -4.02e-04 -3.73e-02  5.44e-02 1.002
## 30452  -6.58e-04  6.61e-04  3.18e-04  5.78e-04  1.53e-04  2.12e-03 1.004
## 105958 -9.03e-03 -2.09e-02 -1.40e-02 -7.79e-04  5.71e-02 -8.43e-02 0.998
## 102413  1.30e-02 -2.26e-02 -2.17e-02 -4.90e-03 -3.17e-02  9.44e-02 1.003
## 48295   5.63e-03 -9.59e-03 -6.98e-03 -1.12e-03 -2.39e-03  2.08e-02 1.003
## 34435  -1.39e-03  1.51e-02 -1.39e-02 -4.31e-03  8.50e-03 -6.69e-02 1.002
## 23432   1.32e-02 -2.28e-02 -6.82e-03  1.40e-02 -8.54e-02 -1.37e-01 0.999
## 103705  1.05e-02  1.61e-02 -1.71e-02  1.09e-02  2.28e-02  5.15e-02 1.004
## 99195  -1.42e-02 -1.22e-02 -1.24e-02 -1.63e-03  1.89e-02 -7.06e-02 1.002
## 101587  5.35e-03 -1.56e-03 -1.08e-02 -1.82e-03  3.62e-03  2.21e-02 1.002
## 70529   4.23e-03  5.05e-03 -1.50e-02 -1.15e-03  6.55e-03  3.18e-02 1.002
## 123443 -2.45e-03 -3.62e-03  2.86e-03 -2.77e-03  4.19e-04  9.00e-03 1.004
## 127630 -2.45e-03  4.50e-03  3.76e-03  2.66e-03 -3.60e-04  1.48e-02 1.004
## 28341   8.72e-04  9.44e-03 -1.11e-02 -2.26e-03 -3.33e-04  1.85e-02 1.003
## 6923   -7.57e-04  2.67e-02 -2.78e-02 -1.05e-02 -3.13e-02  1.08e-01 1.004
## 22806  -7.50e-03 -1.54e-02 -1.27e-02 -2.91e-03 -5.56e-03  4.25e-02 1.003
## 72587   1.96e-03 -6.00e-03 -5.10e-03 -1.93e-03 -2.16e-03  1.33e-02 1.004
```

```
## 30395   5.00e-02 -7.96e-03  2.74e-02  2.10e-02 -1.43e-02 -7.64e-02 0.996
## 113007  1.45e-03  8.11e-03 -1.19e-02 -2.49e-03  1.22e-04  2.28e-02 1.004
## 96117   3.16e-02  2.19e-02 -3.29e-02  1.08e-02 -1.10e-02 -7.77e-02 0.994
## 101251  6.68e-04  8.22e-04  5.02e-04  1.29e-03  8.21e-04  4.61e-03 1.004
## 47104  -9.77e-03 -2.40e-03  6.93e-03 -3.05e-03  4.07e-03  1.54e-02 1.003
## 81205   2.55e-03  2.44e-02  2.76e-02 -1.99e-02  5.95e-02 -8.41e-02 0.999
## 19773  -4.22e-03 -5.77e-04  3.24e-03  7.68e-04  5.11e-05  7.89e-03 1.003
## 59610   3.93e-04 -2.28e-03 -1.67e-02 -5.60e-03 -4.05e-02  4.99e-02 1.003
## 112356 -1.06e-02  6.49e-03  5.19e-03 -4.58e-03  2.85e-03  1.74e-02 1.003
## 20118  -6.64e-03  6.38e-03  5.26e-03  1.70e-03  6.03e-03  1.76e-02 1.003
## 14500   4.62e-03  9.93e-03 -1.08e-02 -1.40e-03  1.23e-04  1.97e-02 1.003
## 46414   5.50e-02 -1.00e-03  2.56e-02  2.28e-02 -1.59e-02 -7.97e-02 0.996
## 90232   3.15e-04  2.30e-04  3.54e-03 -4.94e-03  1.09e-03  1.19e-02 1.003
## 93180   7.79e-03  4.16e-03  2.65e-03  5.05e-04  6.31e-04  1.34e-02 1.003
## 122171 -3.14e-03 -1.11e-02 -7.37e-03 -1.52e-03  4.30e-03  2.37e-02 1.003
## 119211  8.91e-03  7.59e-04 -1.06e-02  1.27e-03 -4.29e-03  2.52e-02 1.004
## 42394  -4.61e-03  7.83e-04  4.18e-03 -3.44e-03  1.41e-03  1.06e-02 1.003
## 17577  -1.03e-02 -1.39e-02 -1.01e-02 -3.77e-03  7.12e-03  3.33e-02 1.002
## 46835   8.84e-03 -2.48e-02 -1.74e-02 -3.07e-03 -5.35e-03 -5.85e-02 0.994
## 20135  -3.11e-02 -2.26e-02 -1.85e-02  1.71e-03 -9.69e-03 -6.12e-02 0.994
## 18602  -1.59e-02  3.73e-03  2.79e-02 -8.77e-03 -1.52e-02 -5.52e-02 0.995
## 86048  -7.32e-04  8.86e-04  4.18e-04  7.27e-04  1.96e-04  2.59e-03 1.004
## 114017  1.59e-03  2.55e-03  9.53e-04 -2.52e-03 -5.03e-04  8.88e-03 1.004
## 129967 -5.91e-03 -6.91e-03  5.54e-03  5.82e-04  6.51e-04  1.45e-02 1.004
## 118876 -2.83e-02  1.33e-02  6.07e-03 -5.86e-03 -1.63e-02  5.65e-02 1.005
## 11466  -2.20e-03 -9.51e-03  7.30e-03 -1.21e-03  8.01e-03  2.71e-02 1.006
## 17676   3.41e-04  1.38e-02 -1.42e-02 -4.09e-03  6.11e-03  2.67e-02 1.002
## 41723  -8.18e-03  6.05e-03  3.23e-03  1.08e-04  1.90e-05  2.30e-02 1.004
## 94146   1.06e-02  1.48e-02 -2.17e-02  3.02e-03 -2.06e-02  4.33e-02 1.003
## 80535   5.32e-03 -2.41e-02 -1.65e-02 -3.51e-03 -3.85e-02  6.63e-02 1.001
## 49399   3.60e-03  9.86e-03  6.31e-03 -9.39e-03  1.63e-03  3.33e-02 1.003
## 98615  -9.17e-03 -1.68e-02 -2.23e-02  9.27e-03 -1.29e-02 -5.17e-02 0.994
## 102638 -1.70e-03  5.97e-03 -6.63e-03  8.22e-04 -2.31e-03  1.29e-02 1.004
## 49520   2.57e-03  4.43e-03  3.14e-03  2.88e-05  9.67e-04  1.07e-02 1.003
## 130523  1.06e-02  7.38e-03  5.54e-03  5.12e-04  2.06e-03  3.16e-02 1.004
## 76588   2.59e-02  2.12e-02 -1.77e-02  1.44e-02 -1.89e-02 -8.58e-02 1.002
## 109721  5.80e-04 -1.22e-02  8.24e-03 -3.90e-03  1.18e-03  1.86e-02 1.003
## 83125  -1.50e-02 -9.68e-03 -1.06e-02  8.65e-03 -1.03e-02 -6.10e-02 1.000
## 126044 -3.53e-03  2.31e-03  1.70e-03  1.39e-04 -1.06e-03  7.85e-03 1.005
## 117982 -5.54e-03 -5.77e-03 -6.81e-03 -8.95e-04  1.31e-03  1.60e-02 1.003
## 23292   1.46e-03 -2.30e-02 -1.92e-02  1.77e-02 -7.17e-03 -6.42e-02 0.996
## 85408  -2.35e-03  2.11e-03  4.13e-03  7.43e-03  2.51e-03  1.79e-02 1.004
## 89459   2.08e-03 -2.02e-02 -1.52e-02  8.86e-04 -4.02e-02  5.67e-02 1.002
## 90403  -9.07e-03  6.63e-03  2.88e-03  1.08e-02  1.12e-03  2.64e-02 1.004
## 20253  -1.51e-02  8.94e-03  8.70e-03 -3.99e-03  1.23e-02  2.92e-02 1.004
## 31270   1.22e-02 -1.16e-02  1.25e-02 -3.84e-03  8.37e-03  3.37e-02 1.003
## 37425   5.86e-03 -8.19e-03  8.05e-03  3.92e-04  3.85e-03  1.81e-02 1.003
## 89152  -3.21e-02 -2.09e-02  2.08e-02 -1.78e-02 -2.86e-02  8.02e-02 1.003
## 127634  3.30e-02  1.92e-02  1.70e-02  2.27e-02 -1.91e-02 -7.61e-02 0.999
## 88764  -2.52e-02 -1.46e-02 -2.27e-02  1.18e-03 -8.14e-03 -7.18e-02 0.994
## 2852    2.73e-03 -2.09e-03 -7.17e-03 -3.26e-03 -2.23e-04  2.06e-02 1.005
## 37410  -3.18e-03  7.54e-03 -1.23e-02 -2.16e-03  5.29e-03  2.00e-02 1.002
## 119113  2.78e-03 -6.76e-03  5.22e-03 -2.49e-03  8.24e-04  1.20e-02 1.003
## 45327  -9.92e-03 -1.04e-02 -6.92e-03 -4.86e-03  3.29e-03  2.67e-02 1.003
## 16884   4.62e-03  5.27e-03  2.46e-03 -5.45e-03  1.16e-04  1.77e-02 1.004
## 78424  -3.71e-03 -1.57e-02 -1.33e-02  8.15e-03  1.85e-02 -6.16e-02 1.000
## 76931   2.22e-02  3.28e-02  2.42e-02  1.92e-02 -3.27e-03 -7.56e-02 0.994
## 112181  1.97e-02  1.73e-02 -1.83e-02  3.13e-02  3.09e-02  6.52e-02 1.004
## 77307  -9.42e-03 -1.27e-02  9.81e-03 -1.30e-03  2.76e-03  3.53e-02 1.003
## 114078  1.12e-02  8.68e-04  3.14e-02  1.87e-02 -7.42e-03 -7.49e-02 0.996
## 73298  -6.00e-03 -3.70e-03 -5.96e-03  2.82e-03 -5.15e-04  1.54e-02 1.003
## 4781    1.70e-03  6.89e-03  4.22e-03 -3.00e-03 -2.20e-02  3.67e-02 1.005
## 23578   6.97e-03 -2.05e-02 -1.62e-02 -5.21e-03 -2.86e-02  5.18e-02 1.002
## 83642   2.07e-03  2.23e-03  1.60e-03 -4.07e-04 -1.37e-03  6.53e-03 1.004
## 106915  1.69e-02  6.70e-03  4.10e-03  5.85e-03  4.78e-03  2.94e-02 1.004
## 22717  -3.00e-03 -3.57e-02  4.34e-02  8.04e-03 -3.80e-03 -6.90e-02 0.994
## 112152 -9.57e-03 -2.64e-03  6.49e-03 -2.66e-03  2.81e-03  1.45e-02 1.003
## 36463  -5.28e-03  7.93e-03  4.11e-03 -7.54e-03  5.54e-03  2.82e-02 1.003
## 77259   2.04e-02 -2.11e-03 -1.18e-02  3.12e-03  7.75e-03  3.20e-02 1.003
## 35807  -1.38e-04 -1.51e-02  7.48e-03  9.38e-04  3.76e-03  2.79e-02 1.004
## 77027   2.88e-02 -2.30e-02 -1.28e-02  3.34e-03  1.02e-02 -7.64e-02 0.996
## 61770  -5.85e-05  2.16e-03  1.30e-03 -1.42e-03 -7.48e-05  5.63e-03 1.003
## 97237  -9.31e-03  1.25e-02  7.58e-03 -6.20e-03  1.03e-02  4.58e-02 1.002
## 91309  -6.37e-03  3.21e-03  2.38e-03 -6.80e-06  1.14e-05  9.93e-03 1.004
## 110627 -1.01e-02  1.71e-02 -1.76e-02 -1.00e-02  2.22e-03  3.80e-02 1.002
## 113347 -8.70e-03  4.64e-03  3.57e-03 -8.47e-03 -1.07e-03  3.20e-02 1.005
## 53637  -8.38e-03  1.32e-02  1.01e-02 -9.57e-03 -7.77e-03  4.28e-02 1.001
## 64632   4.51e-03  4.33e-03  3.84e-03  1.00e-03  3.60e-04  1.30e-02 1.003
## 50672  -5.74e-03  7.30e-03  6.60e-03 -6.73e-03  7.66e-03  2.04e-02 1.003
## 88216   1.14e-02  2.14e-02  2.85e-02 -3.07e-03 -2.06e-02 -7.81e-02 1.000
## 89975  -5.86e-03  9.91e-03 -1.01e-02 -4.58e-03  1.21e-03  1.81e-02 1.003
## 72127  -2.27e-02 -1.34e-02 -1.67e-02  4.50e-03 -1.77e-02 -7.63e-02 0.999
## 61976  -1.04e-02 -4.55e-03  6.21e-03  7.83e-04 -3.36e-03  2.47e-02 1.003
## 122146 -1.09e-03 -3.96e-03  4.45e-03  9.51e-04  1.03e-03  1.00e-02 1.004
## 15715  -1.55e-02 -2.54e-02  3.32e-02  1.40e-02  1.48e-02 -8.27e-02 1.000
## 19143  -1.38e-02 -1.64e-02  1.99e-02 -7.22e-03  1.81e-02 -5.26e-02 1.003
## 48408  -1.65e-04  3.76e-03  2.52e-03 -4.20e-04  6.49e-04  1.04e-02 1.003
## 24939   2.67e-03 -6.29e-03  6.12e-03  3.08e-03 -1.12e-04  1.68e-02 1.003
## 14178   1.56e-02  4.07e-02 -3.65e-02  4.27e-06 -8.06e-03 -7.87e-02 0.992
## 127215 -1.09e-02  9.81e-03  4.17e-03  1.07e-02 -7.62e-03  4.88e-02 1.005
## 4214   -1.65e-03  1.32e-03  8.29e-03  8.43e-03 -2.89e-02  6.22e-02 1.005
## 116341  2.64e-03  6.21e-04  9.68e-03  1.18e-03  9.20e-03  2.34e-02 1.002
## 52229  -1.34e-02  4.80e-02 -2.54e-02  4.01e-03  1.08e-04 -9.90e-02 0.995
## 54258   3.83e-03 -7.69e-03  3.94e-03 -7.50e-04 -4.55e-04  1.42e-02 1.004
## 109991 -2.21e-02 -3.49e-02  4.15e-02 -8.59e-03 -3.83e-03 -7.26e-02 0.995
## 37671   2.75e-02 -2.71e-02 -2.59e-02  2.42e-03 -4.76e-02 -8.94e-02 0.996
## 107065 -7.34e-03  5.60e-03 -8.84e-03 -1.59e-03  1.63e-03  1.67e-02 1.003
## 34212  -7.74e-04 -1.21e-03  1.03e-03  4.60e-04 -2.55e-04  3.11e-03 1.005
```

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## 65299   6.25e-03 -3.03e-04  4.27e-03  2.91e-04 -1.46e-03  1.31e-02 1.003
## 18678  -1.41e-04 -3.27e-03  3.83e-03  1.69e-03  7.89e-04  8.50e-03 1.003
## 112878 -7.57e-03 -1.90e-02  9.24e-03 -1.65e-02  7.31e-03  5.78e-02 1.005
## 67785   1.88e-03  5.12e-03  1.49e-03 -5.81e-03 -1.93e-02  2.79e-02 1.007
## 21470  -6.83e-03 -1.91e-02 -2.03e-02  1.84e-02 -1.55e-02 -7.56e-02 0.994
## 96118  -1.89e-02 -2.35e-02  1.59e-02 -1.03e-02  1.93e-02  7.99e-02 1.004
## 124449 -9.87e-03  3.37e-03  7.47e-03 -5.36e-05  7.28e-03  2.38e-02 1.004
## 22611   5.95e-03  4.04e-02 -2.67e-02  1.45e-02  2.23e-02 -9.67e-02 0.998
## 56814   4.33e-03  7.07e-04 -9.35e-03 -1.02e-03 -1.53e-03  1.81e-02 1.003
## 127211  1.52e-02  6.13e-03  2.87e-03  5.22e-03 -3.84e-03  3.36e-02 1.004
## 52964  -8.47e-03 -2.22e-02 -2.27e-02  6.93e-03 -2.44e-02 -7.12e-02 0.996
## 103598 -7.69e-03  1.31e-02 -1.25e-02 -7.02e-03  4.43e-03  2.57e-02 1.003
## 15124  -6.24e-04 -6.68e-04  1.26e-03 -3.51e-04 -1.25e-03  4.85e-03 1.004
## 117672  2.56e-03 -3.74e-02  5.64e-02 -8.11e-02  3.14e-03 -1.25e-01 0.995
## 108834  8.55e-03  6.19e-03  6.00e-03  2.62e-03  4.46e-03  1.94e-02 1.003
## 109876 -1.41e-03 -1.65e-03  3.22e-03  8.05e-05  3.55e-04  1.05e-02 1.004
## 13472  -5.88e-04  1.50e-03  9.59e-04  6.76e-04 -1.06e-04  5.70e-03 1.005
## 57687  -1.62e-02 -8.96e-03 -7.93e-03 -8.43e-03  3.62e-03  3.06e-02 1.004
## 29695  -5.31e-03 -9.15e-03  5.07e-03 -1.98e-03  2.70e-03  3.03e-02 1.004
## 125587 -3.51e-03 -1.84e-03 -6.83e-03 -5.60e-03 -2.90e-04  1.99e-02 1.004
## 15308  -2.07e-02  3.69e-02  3.20e-02 -1.19e-02 -1.57e-03 -7.14e-02 0.994
## 18429  -6.19e-03 -4.21e-03  7.05e-03  9.52e-04  5.12e-03  1.52e-02 1.003
## 5592   -1.91e-03  7.36e-03  4.56e-03  6.69e-05  1.22e-02  3.28e-02 1.006
## 1342   -4.33e-04  1.78e-03  1.08e-03  4.68e-04  9.11e-05  6.48e-03 1.005
## 34912  -3.59e-03  6.33e-03  4.26e-03  2.11e-03  4.85e-03  1.86e-02 1.004
## 124936 -1.24e-03 -4.63e-03 -1.27e-02 -2.76e-03  2.55e-03  2.98e-02 1.002
## 9961    3.07e-03 -8.44e-03  5.38e-03 -2.03e-03  4.36e-04  1.90e-02 1.005
## 87643  -2.48e-02 -1.88e-02 -1.22e-02  1.05e-02  3.11e-02 -7.04e-02 0.997
## 43206  -8.47e-03  2.99e-03  5.32e-03 -6.00e-03  1.95e-03  2.09e-02 1.004
## 121367 -1.73e-02  1.81e-02  1.77e-02 -5.98e-03 -2.23e-02  8.57e-02 1.001
## 56961  -1.43e-02  8.45e-03 -2.27e-02  7.47e-03 -3.96e-03 -5.93e-02 0.994
## 36590   2.14e-03  1.29e-02 -1.32e-02 -6.55e-04  6.18e-03  2.41e-02 1.002
## 11143  -2.22e-03  1.21e-03  6.41e-04 -5.77e-04  1.44e-04  5.09e-03 1.006
## 92961  -4.56e-04  6.15e-03 -7.35e-03  2.31e-04 -1.16e-03  1.30e-02 1.004
## 29561   1.81e-02  1.88e-02  3.22e-02  2.02e-02 -2.32e-03 -6.95e-02 0.994
## 83146   5.86e-03  4.02e-03  3.28e-03  3.03e-04 -8.57e-04  1.33e-02 1.003
## 55192  -1.20e-02 -2.28e-02 -1.68e-02  8.86e-03 -4.32e-03 -6.29e-02 0.994
## 10113   7.82e-04  7.53e-04 -7.30e-03  1.05e-03 -4.52e-04  1.77e-02 1.005
## 46081   2.49e-02  2.21e-02 -1.71e-02 -2.68e-02 -3.36e-02 -9.49e-02 0.998
## 13759  -2.40e-04 -3.27e-04 -1.78e-04 -1.27e-04  2.44e-04 -1.59e-03 1.006
## 48404  -8.63e-03 -1.76e-03 -6.95e-03 -1.12e-03  1.55e-03  1.61e-02 1.003
## 61866   6.57e-03 -3.82e-02  4.45e-02  8.27e-03  8.69e-03 -8.93e-02 0.995
## 6078    2.06e-03 -3.58e-03  2.50e-03 -1.11e-03 -1.42e-05  9.52e-03 1.005
## 103391  7.12e-03 -1.72e-02 -2.12e-02 -3.51e-03 -9.96e-03 -5.15e-02 0.993
## 122954  4.90e-03 -3.58e-02  4.79e-02 -8.46e-03 -2.84e-03 -8.51e-02 0.995
## 65931   1.34e-03 -1.69e-03  6.25e-04  2.12e-03  2.06e-04  3.50e-03 1.005
## 92166   1.44e-02 -2.36e-02 -2.17e-02  4.46e-04 -1.90e-02 -6.60e-02 0.996
## 9016    2.48e-05 -5.04e-04 -2.58e-04 -1.25e-04  1.78e-04 -1.98e-03 1.005
## 5758    4.32e-04 -1.89e-03  1.55e-03 -3.86e-04 -7.18e-04  7.12e-03 1.005
## 49854  -1.88e-03 -6.55e-03  5.19e-03 -2.31e-03 -5.37e-04  1.12e-02 1.004
## 9259   -5.04e-04  1.33e-02  9.20e-03 -4.23e-03 -2.26e-02  7.03e-02 1.005
## 77457  -3.71e-04  8.48e-03 -1.20e-02  2.96e-03  1.95e-03  2.10e-02 1.004
## 80940  -4.15e-02  5.12e-03  3.21e-02 -1.52e-03  3.12e-04 -7.16e-02 0.995
## 56515   1.58e-02  6.02e-03  4.84e-03 -7.57e-04  9.29e-04  2.69e-02 1.004
## 84493   1.70e-04 -9.01e-03 -9.00e-03  2.29e-03  4.03e-03  1.97e-02 1.002
## 77553   8.64e-04  9.19e-03 -1.01e-02  1.86e-03 -6.46e-04  1.76e-02 1.003
## 109522 -3.21e-03  1.77e-03 -8.76e-03  2.26e-03  3.13e-04  1.91e-02 1.004
## 72781  -1.22e-02 -1.17e-02 -1.07e-02 -5.95e-03 -2.70e-02  4.03e-02 1.005
## 29832   7.49e-03 -8.30e-03  6.66e-03 -2.44e-03  1.31e-03  2.13e-02 1.003
## 118419 -4.20e-03  6.51e-03  9.00e-03 -8.08e-03  5.80e-03  2.43e-02 1.002
## 54937  -1.59e-02 -8.73e-03 -2.21e-02 -3.01e-02 -3.09e-03 -6.21e-02 0.992
## 59790   5.20e-04  6.87e-03  4.71e-03 -4.85e-03  5.29e-04  1.88e-02 1.003
## 59518   2.40e-02 -1.39e-02  7.54e-03  4.68e-03 -6.29e-03  3.77e-02 1.004
## 100728 -8.93e-04 -3.09e-03  3.52e-03 -1.64e-03 -5.04e-04  1.07e-02 1.003
## 88375  -4.35e-03 -4.32e-03 -6.82e-03 -9.01e-04 -1.20e-03  1.66e-02 1.003
## 103387  2.96e-03 -3.61e-03  7.12e-03  3.65e-03  4.49e-03  1.48e-02 1.003
## 92257  -2.45e-03 -9.89e-03 -2.06e-02 -1.71e-02 -5.56e-03 -6.10e-02 0.992
## 99717  -1.27e-02 -2.17e-03  6.84e-03 -4.21e-03  2.88e-03  1.93e-02 1.004
## 30843  -1.32e-02  1.62e-02 -1.93e-02 -6.28e-03 -2.84e-02  4.70e-02 1.003
## 74345  -4.96e-04 -1.88e-03  1.27e-03 -5.41e-04 -1.18e-03  4.71e-03 1.005
## 114035  2.68e-02  9.22e-04  2.71e-02  1.13e-02 -1.46e-02 -5.83e-02 0.995
## 59632  -8.17e-02  3.63e-02  2.25e-02 -1.12e-02 -3.28e-03 -1.08e-01 0.999
## 41911  -2.78e-03  1.37e-02  9.83e-03  2.57e-03 -1.39e-02  4.88e-02 1.001
## 50160  -7.03e-05 -6.57e-03  2.93e-03  3.66e-03 -8.01e-03  1.53e-02 1.006
## 5294    3.12e-03  6.21e-03 -7.94e-03  1.03e-03 -1.30e-03  1.96e-02 1.005
## 8861    1.36e-03  6.47e-03 -8.75e-03 -1.49e-03 -2.74e-04  2.05e-02 1.005
## 73513   9.93e-03  4.71e-03  2.97e-03 -1.04e-03  5.59e-04  1.67e-02 1.004
## 70969  -1.38e-03  5.82e-03  3.55e-03  9.92e-04  8.75e-04  2.15e-02 1.004
## 71592  -3.15e-03 -1.62e-04  4.99e-03  4.59e-03 -1.02e-03  2.23e-02 1.003
## 112131  1.53e-03  1.45e-03  2.02e-04  1.46e-03  1.68e-03  7.54e-03 1.006
## 1912   -9.58e-03  1.66e-02 -2.04e-02 -8.91e-04 -1.98e-02  5.33e-02 1.004
## 37797  -8.30e-03 -1.26e-02  1.17e-02  2.57e-03  1.44e-02  2.98e-02 1.004
## 73786  -2.25e-02  1.81e-02  2.88e-02 -1.35e-03  3.54e-02 -6.86e-02 0.998
## 96545   7.40e-03 -2.89e-02  3.81e-02  8.35e-03  1.22e-02 -6.93e-02 0.998
## 128957 -1.81e-02 -1.36e-02 -7.61e-03 -2.18e-04  1.69e-02  4.56e-02 1.004
## 44844  -2.02e-03  3.48e-03  1.65e-03 -4.28e-04  2.31e-03  1.28e-02 1.004
## 10621  -4.11e-02  2.78e-02 -2.42e-02  1.30e-02  3.16e-03 -1.27e-01 0.995
## 80986  -1.06e-03 -2.68e-03 -4.59e-03  1.21e-03 -2.57e-03  1.09e-02 1.004
## 809    -9.97e-03  1.01e-02 -8.36e-03 -5.31e-03  9.37e-03  3.07e-02 1.006
## 119819  2.48e-02 -2.21e-02 -2.23e-02  2.64e-02 -2.10e-02 -8.26e-02 0.994
## 63962   3.15e-03 -1.57e-02 -1.12e-02 -5.98e-03  6.13e-03  3.48e-02 1.002
## 126221  1.65e-02 -2.15e-02  3.05e-02  4.11e-03 -4.26e-02 -1.01e-01 1.005
## 53508  -5.00e-03  7.97e-03 -8.73e-03  5.62e-03 -1.85e-03  1.92e-02 1.004
## 89670   1.11e-02 -9.80e-03  7.26e-03  4.07e-03  5.34e-03  2.47e-02 1.004
## 40664  -2.81e-02 -2.92e-02  3.70e-02  1.17e-02 -2.10e-03 -6.86e-02 0.997
## 49044   1.83e-05  4.30e-03  3.65e-03 -5.36e-04  6.20e-04  1.08e-02 1.003
## 49407  -1.26e-03  3.29e-03  1.49e-03  5.52e-03  5.29e-04  1.13e-02 1.004
## 124577 -2.09e-03 -1.88e-02  2.18e-02  5.15e-03  2.30e-02 -6.39e-02 1.003
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## 109437 -1.68e-02 -1.26e-02 -8.52e-03 -3.18e-03  1.16e-02  3.36e-02 1.003
## 118322 -7.11e-03 -7.63e-03 -1.75e-02 -7.10e-03  3.65e-03  4.45e-02 1.004
## 33908   1.01e-02  8.55e-03  7.84e-03  5.55e-04  4.37e-03  2.69e-02 1.002
## 65131  -1.09e-02  6.31e-03  5.26e-03 -4.43e-03  2.67e-03  1.90e-02 1.004
## 6161   -1.13e-02 -2.90e-03  7.77e-03 -1.04e-02 -6.46e-03  4.17e-02 1.007
## 67950   3.13e-03  2.94e-03  3.97e-03 -1.35e-03 -2.60e-04  1.07e-02 1.003
## 8375   -7.99e-03  5.95e-03 -8.30e-03 -7.42e-03  3.72e-03  2.79e-02 1.005
## 109514 -5.93e-03  5.77e-03  3.34e-03  2.91e-03  4.63e-04  1.99e-02 1.004
## 13073  -1.47e-02  6.60e-03 -1.80e-02 -1.60e-03  4.05e-02 -1.36e-01 0.999
## 1474   -1.44e-03  1.14e-03  5.49e-04  1.18e-04 -1.17e-06  4.28e-03 1.006
## 33127  -1.11e-02 -4.41e-05 -7.69e-03 -6.66e-03  1.02e-03  1.77e-02 1.003
## 38731  -1.96e-02 -2.00e-02 -6.49e-03 -2.23e-02  4.34e-02 -8.92e-02 0.997
## 96623  -4.12e-03 -8.69e-03  6.71e-03  3.00e-03  1.07e-03  1.63e-02 1.003
## 117184  1.39e-02 -1.05e-02 -8.24e-03  2.05e-03  4.42e-04  2.37e-02 1.003
## 71492   9.34e-03  4.25e-03  2.43e-03  3.86e-03 -7.21e-04  1.68e-02 1.004
## 97244  -4.86e-02 -3.40e-03 -1.10e-02  1.19e-03 -7.86e-03 -8.38e-02 0.997
## 118289 -1.70e-03 -6.41e-03 -1.13e-02  6.21e-03  6.50e-04  2.60e-02 1.003
## 80071   7.86e-03  3.50e-03  2.79e-03  5.26e-03 -1.11e-03  1.41e-02 1.004
## 38767  -1.55e-02  2.04e-02 -1.77e-02  5.73e-03 -4.13e-03 -6.33e-02 0.998
## 40439  -4.09e-04 -5.69e-03  5.12e-03 -1.59e-03  7.25e-04  1.04e-02 1.003
## 121927 -9.30e-04  9.16e-03 -1.06e-02  2.96e-03  9.23e-04  1.69e-02 1.003
## 77122   2.76e-02 -3.33e-02  1.85e-02  1.86e-02 -1.46e-02  7.21e-02 1.002
## 40220   3.30e-03 -7.20e-03 -7.36e-03 -2.74e-03 -5.95e-04  1.68e-02 1.003
## 118071  1.23e-02  6.99e-03  5.01e-03 -2.35e-03  1.28e-04  2.36e-02 1.003
## 61948   1.03e-03 -3.86e-03  2.03e-03  5.82e-03 -1.70e-04  1.14e-02 1.004
## 58962  -3.95e-03 -5.31e-03  4.40e-03 -3.70e-04  1.04e-03  1.02e-02 1.004
## 25333   2.06e-02 -1.06e-02 -9.69e-03  1.11e-02  8.74e-03  3.49e-02 1.004
## 56762   6.57e-03  7.99e-03  4.47e-03 -1.17e-03 -5.36e-03  2.62e-02 1.002
## 60895  -1.47e-03 -4.92e-03 -4.55e-03  1.07e-04 -6.31e-04  1.17e-02 1.004
## 8559   -2.67e-02  3.47e-02  3.00e-02  2.28e-02  3.80e-03 -1.09e-01 0.997
## 100407 -4.43e-02  3.21e-02  2.72e-02 -8.16e-03  3.67e-02 -8.16e-02 0.999
## 31141  -3.79e-03  4.26e-03  2.46e-03 -1.21e-03  6.66e-04  1.21e-02 1.004
## 72755  -2.63e-03 -2.64e-03 -5.45e-03 -9.38e-04  1.53e-03  1.20e-02 1.004
## 85116  -3.73e-03  1.48e-03  2.95e-03 -5.61e-04  6.64e-04  7.60e-03 1.003
## 54468  -2.66e-02 -3.16e-02  3.36e-02  2.16e-03 -1.84e-02 -7.08e-02 0.997
## 49473   2.23e-03  2.37e-03  3.28e-04 -2.13e-03  1.16e-03  1.08e-02 1.005
## 74873   1.23e-03 -1.74e-03  1.53e-03  1.02e-04  2.43e-04  5.37e-03 1.004
## 119852  1.50e-03  1.17e-02  1.57e-02  2.83e-04 -5.66e-02 -9.94e-02 1.002
## 27129  -2.50e-03  4.43e-03  3.44e-03 -1.87e-03  1.33e-03  1.06e-02 1.003
## 17372  -1.21e-02 -4.35e-03 -8.85e-03 -8.90e-03  6.20e-03  2.89e-02 1.004
## 50146   9.76e-03  5.01e-02 -3.79e-02  4.69e-03 -4.30e-03 -7.74e-02 0.992
## 23373   2.18e-02  1.50e-02  2.54e-02  1.52e-02  1.01e-02 -7.91e-02 0.999
## 96720  -6.56e-03 -5.91e-03 -7.26e-03 -9.62e-04  1.40e-03  1.84e-02 1.004
## 104557  1.51e-02  8.42e-03  8.33e-03  1.12e-03  7.24e-03  2.98e-02 1.003
## 16381  -8.92e-03  6.15e-03  3.08e-03 -4.44e-03 -6.09e-03  2.09e-02 1.004
## 72561  -2.77e-03  3.85e-03  3.04e-03 -1.25e-03 -3.59e-04  1.03e-02 1.003
## 11043  -1.02e-02  1.35e-03  6.74e-03 -8.05e-03 -2.90e-02  5.02e-02 1.006
## 109461 -4.12e-02 -3.02e-02  3.96e-02  6.43e-03 -4.42e-03 -8.41e-02 0.998
## 66275  -8.80e-03 -5.49e-03 -8.30e-03 -2.36e-03  4.37e-03  2.14e-02 1.003
## 88213   6.04e-03  9.12e-03  8.71e-03 -5.24e-03  7.41e-03  2.63e-02 1.002
## 41180  -1.04e-03  5.56e-03 -9.55e-03 -1.46e-03  1.00e-03  1.56e-02 1.003
## 125104 -1.88e-02  9.22e-03  8.75e-03  7.25e-03  1.31e-02  3.71e-02 1.005
## 82278   1.51e-03  1.03e-02 -1.05e-02 -4.81e-03  7.25e-04  2.00e-02 1.003
## 10870  -1.35e-03 -2.91e-03  1.89e-03 -1.84e-03  2.70e-05  7.09e-03 1.005
## 42272   2.10e-02 -2.55e-02 -2.09e-02 -1.84e-03 -5.55e-02 -1.00e-01 0.999
## 89808  -3.63e-03  9.10e-03  6.03e-03 -1.58e-03 -7.52e-03  3.76e-02 1.004
## 1532   -3.47e-03 -9.28e-03 -1.08e-02 -9.74e-03 -4.89e-03  3.90e-02 1.006
## 2534   -1.42e-03  5.55e-03  6.70e-04  8.89e-03 -5.93e-03  2.80e-02 1.006
## 83697  -6.02e-03  4.10e-03  3.02e-03 -2.29e-03  1.01e-03  9.88e-03 1.003
## 6873   -3.25e-03  1.18e-03 -6.59e-03 -5.44e-03 -6.36e-05  1.80e-02 1.005
## 37790  -2.58e-02 -2.30e-02 -2.19e-02 -2.26e-02 -1.30e-02 -7.46e-02 0.994
## 18769   8.83e-04  6.96e-03  5.62e-03 -4.82e-03  2.91e-03  1.54e-02 1.002
## 66580  -9.97e-04 -1.07e-03  6.14e-04 -2.12e-04  4.57e-05  2.97e-03 1.005
## 5837    3.31e-03 -7.46e-03 -8.98e-03 -1.57e-04 -1.52e-04  2.85e-02 1.004
## 73300  -2.13e-03 -2.79e-03  3.95e-03 -2.90e-03  5.35e-04  1.21e-02 1.004
## 101729 -4.77e-04 -2.33e-02 -1.38e-02 -1.66e-03  8.13e-02 -1.04e-01 0.996
## 51884   1.93e-02  3.51e-02 -2.50e-02  2.08e-02  2.44e-02 -7.57e-02 0.996
## 77747  -4.81e-03 -6.03e-03 -5.83e-03 -2.71e-03 -2.52e-03  1.90e-02 1.004
## 23573  -2.22e-03  6.56e-03 -1.84e-02  1.03e-02  2.47e-02 -5.47e-02 0.997
## 64891  -6.41e-02  3.84e-03 -1.83e-02 -5.17e-03  1.37e-04 -8.28e-02 0.996
## 36244   3.13e-04 -1.52e-02 -1.67e-02 -3.77e-03 -2.73e-02  5.24e-02 1.002
## 59116  -2.97e-02 -2.11e-02  2.83e-02 -6.34e-03 -2.24e-02 -6.48e-02 0.998
## 57944  -7.85e-03  1.28e-02  7.53e-03  1.62e-02  1.09e-02  6.69e-02 1.002
## 21260   1.46e-02  2.34e-02  1.93e-02  5.33e-03  3.89e-02 -8.43e-02 1.001
## 96392  -2.79e-02 -1.33e-02  3.95e-02 -5.31e-03  3.98e-02 -8.83e-02 1.000
## 57163   3.84e-03 -3.41e-04  2.40e-03 -5.62e-04 -9.04e-03  1.75e-02 1.005
## 7961   -8.36e-03  1.68e-02  2.41e-02  4.78e-03 -3.09e-02 -9.89e-02 0.997
## 31758  -1.55e-02  2.05e-02 -1.75e-02 -9.37e-04  1.81e-02  4.91e-02 1.002
## 25254  -3.59e-03 -1.37e-02 -7.90e-03 -4.39e-04  1.62e-02  3.61e-02 1.003
## 101119  2.17e-03  6.93e-04  1.52e-03  4.73e-05 -3.45e-04  5.81e-03 1.003
## 25431  -7.89e-04 -4.73e-03  4.69e-03 -2.50e-03  9.81e-04  1.01e-02 1.003
## 46252   2.09e-02  2.84e-02 -2.93e-02  3.36e-02 -3.97e-03 -7.22e-02 0.994
## 127584 -1.10e-02 -2.06e-02 -1.52e-02 -1.50e-03 -3.46e-02  6.24e-02 1.002
## 82055   3.85e-04 -4.35e-03 -4.38e-03  5.58e-03  1.56e-04  1.12e-02 1.005
## 127262  2.97e-03  5.06e-03  3.47e-03  1.76e-03 -2.54e-03  2.01e-02 1.004
## 36330  -9.96e-03  4.54e-02 -3.81e-02  7.50e-03 -2.95e-02 -8.78e-02 0.995
## 69641  -4.22e-03 -3.43e-03  1.25e-02 -2.12e-03 -4.24e-03  4.49e-02 1.003
## 127268 -3.40e-03  1.13e-02 -1.18e-02 -5.56e-04  2.34e-03  2.59e-02 1.003
## 66703  -3.80e-03 -3.59e-03  3.96e-03 -2.58e-04 -2.00e-04  8.83e-03 1.004
## 116103  3.83e-03 -6.21e-03  4.34e-03  3.00e-03 -9.48e-04  1.19e-02 1.004
## 69186   1.11e-02 -5.67e-03 -8.29e-03  2.29e-03  7.85e-04  2.11e-02 1.003
## 74862  -3.44e-05  8.72e-03  2.25e-02  6.58e-05  3.95e-03 -5.19e-02 1.000
## 45431   2.17e-04  1.96e-03  4.29e-04 -5.87e-04  3.43e-04  7.25e-03 1.005
## 25597  -1.87e-03  8.11e-03  3.82e-03 -1.74e-03  3.56e-03  2.74e-02 1.003
## 70876   5.47e-04 -1.33e-02  9.60e-03 -4.40e-03 -2.71e-04  3.21e-02 1.003
## 102708 -1.28e-03  1.63e-03  1.20e-03 -5.38e-04 -1.29e-03  4.73e-03 1.004
## 104459  4.33e-03 -1.72e-03 -1.29e-02 -3.13e-03  1.12e-03  2.27e-02 1.002
## 59786   7.18e-03 -7.56e-03 -1.04e-02  4.49e-04  1.90e-03  2.55e-02 1.003
```

```
## 9440    6.80e-04  1.44e-02 -1.99e-02 -8.03e-03 -3.78e-02  6.13e-02 1.007
## 104896  1.57e-03 -6.43e-03 -9.20e-03 -1.62e-03  5.63e-03  2.03e-02 1.002
## 35559  -8.80e-04 -6.61e-04 -9.60e-03 -4.12e-03  1.09e-03  1.72e-02 1.003
## 113481 -5.30e-04  3.03e-03  2.17e-03  4.27e-03 -3.10e-04  9.79e-03 1.004
## 113789  9.43e-03 -9.27e-03 -1.78e-02  8.70e-03  2.18e-02  5.19e-02 1.005
## 89416   1.51e-03  1.92e-03  1.41e-03  3.21e-04 -1.72e-03  6.07e-03 1.004
## 118420  9.76e-03  4.35e-03  2.03e-03  1.95e-03  2.00e-04  1.84e-02 1.004
## 129111  1.58e-02  8.79e-03  7.45e-03  1.43e-02  1.36e-02  4.44e-02 1.005
## 105737  2.15e-02 -8.93e-03 -1.39e-02  2.88e-03 -1.82e-03  3.76e-02 1.003
## 115100  4.53e-02  3.93e-02 -4.08e-02  1.16e-02 -4.24e-03 -9.36e-02 0.992
## 108273  3.66e-03  4.35e-03  1.53e-03 -2.24e-03  1.52e-03  1.95e-02 1.005
## 48352  -4.80e-03  7.39e-03 -1.25e-02 -4.17e-04  7.27e-04  2.54e-02 1.004
## 65175   5.10e-03 -6.02e-03  2.38e-03  4.71e-03  1.84e-04  1.51e-02 1.005
## 47621  -6.57e-03 -1.32e-02  1.08e-02 -4.77e-04 -3.82e-03  3.23e-02 1.003
## 49445   5.33e-03  3.86e-03  1.28e-03 -2.95e-03 -5.98e-04  1.90e-02 1.005
## 128267 -1.16e-02  1.01e-02 -9.47e-03  1.28e-03 -1.56e-03  2.66e-02 1.004
## 105115 -2.06e-03 -3.01e-02  2.84e-02  1.13e-02 -2.32e-02 -6.35e-02 0.998
## 25104   1.89e-03 -1.39e-02  9.57e-03  8.48e-03 -2.28e-03  3.25e-02 1.002
## 49337   5.06e-03  1.31e-02 -1.30e-02  1.60e-03  9.49e-03  2.87e-02 1.003
## 18090  -2.95e-03  4.11e-03  1.43e-03  9.79e-03 -2.19e-03  1.93e-02 1.005
## 94640  -8.01e-03  8.71e-03  5.62e-03 -6.44e-03 -1.40e-02  2.82e-02 1.003
## 16227  -3.92e-03  4.67e-03  2.83e-03 -4.15e-03  1.16e-03  1.19e-02 1.003
## 6677   -1.01e-03  4.08e-03  3.20e-03 -9.67e-04  1.03e-03  1.75e-02 1.005
## 83055  -1.93e-02  1.85e-02  1.76e-02  9.44e-03 -4.98e-02 -9.12e-02 1.001
## 23464   1.54e-03  1.60e-03  1.66e-03 -4.52e-04 -4.40e-04  7.16e-03 1.004
## 126328  1.53e-03  1.39e-02 -1.42e-02  3.34e-03  6.41e-03  3.21e-02 1.003
## 104672  6.83e-04 -7.38e-03  7.43e-03  1.61e-03  2.52e-03  1.51e-02 1.003
## 40083  -2.43e-02 -2.27e-02 -2.04e-02 -6.81e-03 -3.10e-02  8.98e-02 1.001
## 32669  -1.89e-02 -2.14e-02 -1.38e-02 -6.81e-02 -3.19e-03 -9.35e-02 0.994
## 5892   -1.24e-03  1.79e-03 -3.04e-05 -7.68e-04  1.02e-02  1.60e-02 1.014
## 19445  -2.40e-03 -2.73e-03  3.72e-03  1.45e-03  4.22e-04  7.75e-03 1.003
## 48549   8.50e-03 -1.32e-02 -1.04e-02  1.71e-03  1.75e-03  2.48e-02 1.002
## 99048  -2.09e-03 -3.93e-03 -8.00e-03 -3.97e-03 -4.37e-04  2.01e-02 1.004
## 79122  -7.88e-03 -2.01e-03  7.00e-03 -8.13e-03 -4.55e-03  2.56e-02 1.003
## 23958  -7.03e-03 -7.84e-03  8.30e-03 -3.81e-03  4.43e-03  1.74e-02 1.003
## 122808  1.96e-02  1.82e-02  2.82e-02  1.15e-02  5.60e-03 -7.08e-02 0.994
## 19432  -3.09e-02  3.93e-02 -2.12e-02 -2.52e-02  1.43e-02 -1.10e-01 0.991
## 71707  -1.09e-02 -8.48e-03 -1.05e-02 -8.21e-03  2.51e-02  4.82e-02 1.002
## 29539  -9.37e-03  6.02e-03  5.51e-03 -4.80e-04  3.97e-03  1.81e-02 1.004
## 96672  -4.62e-04 -1.39e-02 -1.04e-02  9.00e-03  1.75e-03 -5.72e-02 1.001
## 51694   1.01e-03 -2.48e-05  1.23e-03  6.51e-04 -2.80e-04  3.98e-03 1.003
## 73345  -1.56e-02 -1.90e-03 -7.20e-03  1.17e-05  8.13e-03  2.58e-02 1.004
## 120501  1.19e-02  6.65e-03  4.39e-03 -4.59e-05 -1.01e-03  2.38e-02 1.003
## 103246 -4.53e-03 -2.19e-03 -7.58e-03 -1.94e-03  1.37e-03  1.51e-02 1.003
## 69545  -2.05e-03 -6.71e-03  3.97e-03 -2.58e-03  1.39e-03  1.25e-02 1.004
## 113627  3.44e-03 -4.45e-03  4.16e-03 -2.86e-03  5.96e-04  1.39e-02 1.003
## 90483   7.71e-03  6.73e-03  5.77e-03 -2.34e-05  4.42e-03  1.80e-02 1.003
## 50161   8.57e-03 -1.33e-02  6.28e-03 -1.95e-03 -8.12e-03  2.60e-02 1.004
## 53067  -1.15e-02 -5.54e-03 -9.93e-03 -4.01e-03  2.38e-03  2.28e-02 1.003
## 101265  4.56e-03  4.63e-03  2.98e-03 -6.53e-04 -5.16e-04  1.50e-02 1.004
## 5430    1.06e-02  1.28e-02 -1.88e-02  1.24e-02 -3.10e-02  5.30e-02 1.006
## 77335  -6.38e-03  1.54e-02  2.61e-02  1.18e-03  4.79e-03 -5.75e-02 0.999
## 3619    4.67e-03  3.35e-03 -1.92e-02  1.30e-02  3.43e-02 -1.08e-01 1.002
## 63604   5.83e-03 -5.00e-03 -5.54e-03  3.01e-03 -2.91e-03  1.35e-02 1.004
## 14210  -7.66e-03 -1.15e-02  5.95e-03 -7.78e-03  3.34e-03  3.28e-02 1.004
## 84495   2.53e-03 -5.23e-03  5.24e-03 -1.80e-03 -7.57e-04  1.14e-02 1.003
## 119749 -3.91e-03  3.22e-03  2.44e-03  2.03e-03 -1.64e-04  9.00e-03 1.004
## 4636    1.62e-03 -9.52e-04  1.10e-03 -7.72e-04 -1.00e-03  1.47e-02 1.007
## 111563 -2.89e-03  3.62e-03 -9.37e-03 -2.44e-03  1.36e-03  1.56e-02 1.003
## 100313 -1.39e-03  5.62e-03 -9.76e-03 -2.84e-03  8.97e-04  1.55e-02 1.003
## 93762  -1.81e-02 -2.96e-02  4.01e-02  3.43e-03  7.31e-03 -7.90e-02 0.997
## 81760   2.84e-03 -6.62e-03 -6.54e-03  8.01e-03 -2.76e-03  1.89e-02 1.004
## 59566  -1.13e-03  9.79e-04  4.20e-04  1.80e-04 -6.17e-04  3.28e-03 1.005
## 121997 -6.30e-04  6.57e-03  6.26e-03 -1.41e-03  5.90e-03  1.77e-02 1.003
## 29701  -5.62e-03 -2.80e-02  4.20e-02  1.38e-02 -3.37e-02 -9.39e-02 0.999
## 85855   1.14e-02  1.23e-02 -1.88e-02 -1.77e-03 -1.17e-02  3.72e-02 1.004
## 88894   1.93e-02  1.69e-02 -1.85e-02 -5.68e-03  1.52e-02  5.02e-02 1.003
## 109483 -1.83e-02  3.55e-02  3.00e-02  2.40e-03 -2.71e-03 -7.15e-02 0.994
## 52086   3.77e-03  4.25e-03  1.48e-03  2.45e-03 -1.48e-04  1.44e-02 1.004
## 93336  -2.88e-03  9.44e-03 -1.09e-02 -1.23e-03 -2.17e-03  2.20e-02 1.004
## 101231  2.41e-02 -2.30e-02 -1.71e-02  2.52e-02  7.08e-02 -9.45e-02 0.998
## 27056  -5.04e-03  5.01e-03  4.97e-03 -8.35e-03 -4.41e-04  2.19e-02 1.003
## 44560  -9.09e-04 -2.96e-04  4.87e-04  4.90e-05 -4.37e-04  2.28e-03 1.004
## 64895  -2.43e-02  9.29e-03 -1.55e-02  3.29e-03  2.00e-03 -6.79e-02 0.996
## 106325 -7.76e-03 -8.57e-03 -1.03e-02 -3.04e-03  1.18e-03  2.73e-02 1.003
## 77117   6.03e-04 -3.85e-03  2.18e-03  5.44e-03 -1.75e-04  1.17e-02 1.004
## 72714  -2.25e-03  1.19e-02 -1.25e-02  3.32e-03  3.07e-03  2.64e-02 1.003
## 79388   6.86e-04  1.89e-03  9.30e-04  2.47e-04  3.29e-04  5.59e-03 1.004
## 61485  -3.52e-02  6.28e-03  2.64e-02 -3.24e-02 -1.52e-02 -7.23e-02 0.998
## 76483   5.61e-03 -3.17e-02  4.11e-02  1.23e-02  5.33e-02 -9.18e-02 0.998
## 112234 -8.49e-03  7.13e-03  4.56e-03  1.76e-02  8.89e-03  3.14e-02 1.005
## 14098   4.82e-03  4.65e-03  3.75e-03 -2.52e-03  1.53e-03  2.02e-02 1.005
## 4489   -5.01e-03 -2.95e-03 -3.36e-03 -2.70e-04 -7.04e-04  1.41e-02 1.006
## 77447  -1.72e-02  1.52e-02 -2.33e-02  1.98e-02  4.41e-03 -8.03e-02 0.993
## 14464  -1.75e-02  1.18e-02  8.79e-03 -6.70e-04 -2.46e-02  4.29e-02 1.003
## 96295   1.88e-04  1.33e-02 -1.24e-02 -2.49e-03  9.22e-03  2.73e-02 1.003
## 23749   5.93e-02 -3.95e-02  4.01e-02  3.08e-02 -7.10e-03 -1.00e-01 0.997
## 59784   2.57e-03  9.43e-03  7.26e-03 -2.62e-03  1.30e-02  3.11e-02 1.003
## 91877   2.31e-03 -6.60e-03  4.98e-03 -1.63e-03  7.91e-04  1.15e-02 1.003
## 17716   3.61e-03  1.04e-02 -1.08e-02 -3.67e-03  1.61e-03  2.16e-02 1.003
## 35336   6.63e-04  1.43e-04  1.09e-03  6.91e-04 -1.37e-03  5.32e-03 1.004
## 30181  -1.22e-02 -6.23e-03 -1.22e-02 -5.45e-03  9.89e-03  3.58e-02 1.003
## 48062   6.80e-03 -1.09e-02  7.76e-03  1.24e-03  6.15e-04  2.00e-02 1.003
## 60337  -2.36e-02 -1.71e-02 -1.35e-02  8.60e-03  3.77e-02 -6.80e-02 0.999
## 30259  -4.94e-03  4.38e-03  2.77e-03 -2.60e-03  1.18e-03  1.07e-02 1.003
## 98167  -3.35e-03  9.55e-03 -1.06e-02 -4.13e-03  7.07e-05  1.81e-02 1.003
## 65568   2.47e-02  1.14e-02 -1.78e-02  2.02e-02 -4.97e-04  3.87e-02 1.004
## 18494   1.57e-02  1.11e-02  1.19e-02  2.56e-03  2.04e-02  4.55e-02 1.003
```

```
## 118302 -1.77e-02 -1.28e-02  3.50e-02  7.16e-04 -2.45e-02 -9.15e-02 1.002
## 20550   3.64e-02 -3.95e-02  4.31e-02 -7.28e-03 -4.60e-03 -7.76e-02 0.994
## 78413  -1.60e-04 -1.29e-02 -1.51e-02  2.77e-02 -8.47e-03  5.33e-02 1.005
## 87893   8.39e-03 -9.79e-03 -7.56e-03  3.66e-05  8.70e-05  1.94e-02 1.003
## 80866  -2.39e-02 -2.31e-02 -2.15e-02  5.54e-03 -1.20e-02 -6.52e-02 0.994
## 104921 -1.38e-03  4.50e-03  3.36e-03 -1.91e-03  1.25e-03  1.03e-02 1.003
## 36474  -5.45e-03 -5.58e-03  4.63e-03 -3.19e-03  1.69e-04  1.07e-02 1.004
## 44606   1.59e-02  5.16e-02 -3.69e-02  3.23e-04  9.10e-04 -8.03e-02 0.992
## 61878   1.26e-04 -4.95e-03 -7.55e-03 -1.77e-03 -1.27e-03  1.72e-02 1.003
## 2563   -7.68e-04  1.20e-03 -7.22e-04 -1.24e-03  2.76e-04 -3.97e-03 1.005
## 7206    8.84e-04 -2.34e-02  3.81e-02  2.87e-02  2.39e-02 -1.02e-01 1.001
## 43241   1.21e-04  8.17e-03  4.05e-03 -1.14e-02 -4.30e-04  2.75e-02 1.004
## 80114  -7.28e-03 -1.70e-02  1.42e-02 -6.51e-03 -2.35e-02  4.30e-02 1.003
## 48454  -4.31e-02  2.35e-02  1.98e-02 -9.25e-03 -3.02e-02 -7.87e-02 0.999
## 36375   2.52e-02 -2.34e-02  3.33e-02  7.95e-03  5.53e-02 -8.23e-02 0.999
## 87444  -6.13e-02 -1.89e-02 -1.40e-02 -1.46e-02 -1.55e-02 -9.34e-02 0.998
## 3622    1.09e-03 -9.91e-04 -4.25e-04  5.15e-04  1.05e-03 -4.45e-03 1.006
## 106619  1.71e-04  3.93e-03  2.87e-03 -1.43e-03  1.94e-04  1.10e-02 1.003
## 31108   6.08e-03 -2.19e-02  1.40e-02 -7.78e-03 -1.28e-02  5.15e-02 1.003
## 5681    1.56e-05  2.35e-03  1.11e-03 -1.61e-03  3.98e-05  9.73e-03 1.005
## 89197   2.67e-03 -6.67e-03  5.99e-03  5.97e-04 -2.27e-03  2.22e-02 1.003
## 12234   3.96e-03  3.50e-03  2.84e-03  5.74e-03  1.68e-03  1.70e-02 1.005
## 1864    1.21e-03  2.60e-03 -4.17e-03 -7.15e-04 -1.62e-03  1.03e-02 1.005
## 51951  -1.14e-02  8.63e-03  4.97e-03 -1.09e-02 -1.18e-03  2.80e-02 1.003
## 12333  -9.11e-03 -9.93e-03 -6.34e-03 -7.13e-03  1.39e-02  3.91e-02 1.005
## 22141  -7.83e-03 -1.54e-02  9.63e-03 -5.10e-03 -1.30e-02  2.99e-02 1.003
## 88655   6.60e-05 -3.32e-03  1.19e-03  9.01e-03 -2.42e-05  1.17e-02 1.008
## 47255   1.67e-02  1.25e-02  8.79e-03  8.65e-04 -4.02e-02  9.11e-02 1.006
## 11547  -5.37e-04  1.96e-03  1.22e-03 -1.57e-05  2.14e-04  7.04e-03 1.005
## 25737   6.14e-03  9.60e-03 -1.09e-02  3.35e-03  1.21e-03  2.08e-02 1.003
## 42453   8.70e-04  2.25e-03  1.14e-03 -6.13e-04 -1.56e-03  7.40e-03 1.004
## 11433  -4.75e-03 -1.75e-02 -7.53e-03  4.67e-02  1.25e-02 -1.60e-01 0.998
## 63066  -8.22e-04  5.54e-03  1.05e-03 -1.01e-02 -1.69e-04  2.69e-02 1.006
## 124264  6.66e-04 -5.91e-03 -8.01e-03 -5.16e-03  4.13e-03  2.36e-02 1.005
## 91432  -6.54e-03 -4.03e-03 -1.24e-02 -4.01e-04 -1.47e-04  2.87e-02 1.003
## 106237 -4.41e-03 -8.55e-03 -8.63e-03 -3.02e-03  4.76e-03  2.02e-02 1.002
## 94756  -1.47e-03  6.90e-03  5.39e-03 -2.28e-03  3.34e-03  1.48e-02 1.003
## 111750 -1.96e-03  5.62e-03 -6.02e-03  2.68e-03 -3.07e-03  1.35e-02 1.004
## 55494   1.99e-02  1.21e-02  1.58e-02  4.44e-03  3.42e-02  7.27e-02 1.004
## 57324  -1.64e-04 -5.41e-03  4.42e-03  1.08e-03  4.84e-04  8.93e-03 1.003
## 40377  -1.01e-02 -4.16e-03 -5.85e-03  1.01e-03  2.11e-04  1.96e-02 1.005
## 104329  3.37e-03 -5.24e-03 -9.27e-03  7.58e-03  6.07e-04  1.87e-02 1.003
## 10104  -1.72e-03  8.23e-03  5.09e-03 -1.18e-02 -8.80e-03  4.31e-02 1.006
## 115172  3.30e-02 -1.15e-02 -2.67e-02  1.31e-02 -1.39e-02 -6.65e-02 0.993
## 27449  -2.63e-02  1.70e-02 -1.56e-02 -9.03e-03  4.23e-03  4.17e-02 1.003
## 71190   9.09e-03 -9.90e-03 -7.80e-03 -5.18e-04  7.22e-04  2.10e-02 1.003
## 84077  -2.07e-02  1.43e-02  1.96e-02  4.51e-04  1.77e-02 -5.53e-02 1.001
## 30825   2.29e-03  7.09e-03  5.57e-03 -7.77e-03  1.96e-03  1.83e-02 1.003
## 117914 -2.60e-02  1.38e-04  3.87e-02 -2.56e-03 -3.20e-02 -9.22e-02 0.999
## 50776   9.61e-03  4.22e-03  3.68e-03  8.70e-04 -1.06e-03  1.54e-02 1.004
## 25428   4.89e-03  2.59e-03  3.19e-03  8.49e-06  1.09e-04  1.10e-02 1.003
## 85673  -1.47e-02 -1.27e-02 -1.51e-02 -1.04e-02  2.66e-03  5.57e-02 1.003
## 44378   6.41e-03 -2.93e-03  1.58e-03 -1.82e-03 -3.17e-03  2.08e-02 1.006
## 110982  6.74e-03 -6.78e-03  5.06e-03  3.67e-03 -2.24e-03  1.50e-02 1.004
## 125084 -1.57e-03 -2.50e-03  2.48e-03  5.39e-04 -2.55e-04  8.14e-03 1.005
## 22345  -1.85e-04 -6.17e-03  5.39e-03  3.32e-03 -1.03e-03  2.04e-02 1.003
## 18875   1.26e-02  1.21e-02 -1.49e-02  7.20e-03  3.40e-03  2.68e-02 1.003
## 21780  -3.98e-03  3.65e-03 -6.04e-03 -2.12e-03 -1.42e-03  1.23e-02 1.004
## 35015   4.22e-04  2.34e-02  2.32e-02  4.48e-03 -2.14e-02 -6.57e-02 0.996
## 82195   2.89e-03  1.68e-03  4.50e-03 -1.29e-03  4.65e-04  1.19e-02 1.003
## 28777  -2.49e-02 -3.27e-03 -1.72e-02 -2.12e-02 -1.06e-02  6.33e-02 1.005
## 80349  -5.18e-03  6.49e-03  5.08e-03 -3.01e-03  2.43e-03  1.52e-02 1.003
## 98007   1.62e-02 -6.28e-03  8.84e-03 -4.40e-03  2.12e-03  3.60e-02 1.003
## 110171  1.98e-03 -4.72e-03  4.98e-03  6.48e-04  1.06e-04  1.07e-02 1.003
## 56972  -1.51e-02 -2.21e-02 -6.46e-03 -2.31e-02 -2.84e-02 -1.06e-01 0.995
## 55345  -2.25e-02  4.21e-02 -3.16e-02  4.83e-03 -3.14e-02 -9.31e-02 0.997
## 34529  -2.99e-03  1.53e-03  2.26e-03  1.84e-03  4.37e-03  1.90e-02 1.004
## 20090  -3.55e-02  2.94e-02  2.10e-02 -4.74e-03 -7.60e-03 -6.86e-02 0.998
## 5281   -1.47e-02  8.78e-03  7.85e-03  4.08e-03  2.07e-02  4.25e-02 1.007
## 46986  -2.05e-03 -1.76e-02 -1.26e-02  5.48e-03  4.46e-02 -1.09e-01 1.003
## 98065   1.24e-02  1.64e-02 -1.69e-02 -3.13e-03  1.20e-02  3.78e-02 1.002
## 40368  -1.44e-03 -4.43e-03  4.46e-03 -1.36e-03  7.92e-04  8.78e-03 1.003
## 26008  -3.05e-04 -3.46e-03  4.39e-03 -1.05e-03 -3.42e-04  9.07e-03 1.003
## 25243   2.47e-02  1.62e-02  2.50e-02  5.40e-03 -1.40e-02 -5.98e-02 0.995
## 81668  -6.66e-04 -2.99e-04  3.85e-04  2.80e-04  2.53e-04  1.67e-03 1.004
## 8561   -1.39e-02 -1.84e-02 -1.17e-02  1.84e-02  2.09e-02 -9.13e-02 1.001
## 69698   4.74e-03  2.46e-03  4.33e-03  1.23e-03  1.35e-03  1.84e-02 1.003
## 59075  -8.12e-03 -7.22e-03 -1.35e-02 -1.90e-03  2.06e-02 -6.03e-02 1.004
## 75569   1.35e-03  4.60e-03 -1.28e-02  5.88e-04  4.00e-03  2.12e-02 1.002
## 35514   5.43e-03 -3.06e-03  2.51e-03  2.20e-03 -1.28e-03  9.72e-03 1.005
## 126972  9.90e-03 -2.53e-03 -1.52e-02 -2.49e-03  9.10e-04  3.58e-02 1.003
## 405    -2.16e-04  6.39e-06  4.22e-04  1.20e-03 -9.26e-05  2.52e-03 1.005
## 38698  -9.41e-03  1.33e-02 -1.14e-02 -6.56e-03  7.97e-03  2.71e-02 1.003
## 47632   6.69e-03  6.93e-03  3.20e-03 -8.42e-03 -2.56e-04  3.08e-02 1.004
## 67821   1.66e-03  4.69e-04  1.20e-03  6.28e-04 -4.68e-04  4.81e-03 1.003
## 87924  -3.22e-02 -1.01e-03 -2.12e-02  1.50e-03  8.06e-03 -8.39e-02 0.993
## 22414   6.08e-03 -9.49e-03  7.23e-03  3.69e-04  3.23e-03  2.05e-02 1.004
## 5883    3.70e-04 -7.83e-04 -4.87e-04 -2.48e-04  6.60e-04 -3.23e-03 1.005
## 5680    6.10e-03 -2.72e-02 -2.10e-02 -1.35e-02 -2.78e-02 -1.10e-01 0.996
## 19039  -4.72e-03  3.73e-03  7.47e-03  6.01e-03 -6.49e-03  3.34e-02 1.002
## 111161 -2.42e-02 -2.40e-02 -1.90e-02  1.42e-02 -1.14e-02 -7.18e-02 0.995
## 101179  2.69e-04  1.29e-02  1.08e-02  6.72e-03 -2.59e-03  6.98e-02 1.002
## 121217 -2.66e-02 -2.49e-02  3.47e-02 -5.08e-03  5.46e-02 -8.04e-02 1.000
## 70471  -9.03e-03 -5.36e-03  6.05e-03 -7.32e-03  1.16e-03  2.42e-02 1.004
## 112001 -1.02e-03 -8.25e-03  7.52e-03 -2.70e-03  3.91e-03  2.01e-02 1.004
## 130277  2.00e-02 -1.62e-02 -1.18e-02  3.76e-03  2.45e-03  3.85e-02 1.003
## 71100  -9.02e-03  5.32e-03  4.45e-03 -6.52e-03  2.20e-03  1.98e-02 1.003
## 127744 -6.99e-04 -1.08e-03 -9.15e-03 -2.91e-03 -1.27e-03  2.31e-02 1.003
```

```
## 24222   2.43e-03  1.57e-03  2.82e-02 -1.23e-03  4.18e-02 -7.70e-02 1.001
## 122114  9.00e-04 -4.56e-03  4.20e-03 -2.38e-03 -1.12e-05  1.25e-02 1.004
## 58762  -2.41e-03 -1.03e-03  1.80e-03  2.32e-03  2.00e-03  1.12e-02 1.005
## 39961   2.65e-02  4.65e-02 -1.97e-02 -3.37e-02 -7.79e-03 -1.33e-01 0.991
## 54886  -2.68e-03  1.23e-02 -2.02e-02 -9.69e-03 -3.50e-03  3.78e-02 1.002
## 127271  3.19e-03  6.44e-03  3.51e-03  5.07e-04 -7.88e-03  2.84e-02 1.004
## 79839   2.35e-03  2.09e-03  6.64e-04  3.66e-04 -5.34e-04  7.57e-03 1.004
## 114462 -3.74e-02 -2.39e-02 -1.86e-02  1.92e-02 -9.37e-03 -9.31e-02 0.996
## 113840  1.24e-02 -8.51e-03 -9.10e-03  4.10e-03 -5.66e-04  2.36e-02 1.004
## 125072 -2.54e-03 -3.90e-03  3.07e-03 -1.25e-03 -1.15e-03  8.67e-03 1.005
## 25698  -2.85e-03  1.32e-02 -1.24e-02 -5.10e-03  6.18e-03  2.51e-02 1.003
## 75293  -1.82e-02  1.78e-02 -2.09e-02 -1.20e-02 -1.31e-02  6.08e-02 1.004
## 116582 -1.14e-02  1.04e-02  5.37e-03  6.06e-03  1.75e-03  3.64e-02 1.003
## 98362  -1.52e-02  8.35e-03  8.18e-03 -5.98e-04  9.85e-03  3.02e-02 1.004
## 65367   4.85e-04  1.89e-03  1.23e-03 -7.44e-04 -6.86e-04  5.27e-03 1.003
## 56520  -7.18e-03  1.05e-02  4.19e-03 -7.20e-03 -6.93e-04  4.19e-02 1.003
## 59936   2.68e-04  4.55e-03  2.19e-03 -3.32e-03 -1.44e-04  1.32e-02 1.004
## 47646   3.17e-02  8.60e-03  6.57e-03  4.78e-03  9.60e-03  4.57e-02 1.004
## 72303   7.16e-04  4.55e-03  2.65e-03  1.46e-02  1.76e-03  2.11e-02 1.005
## 19534  -2.14e-02 -2.41e-03 -8.63e-03  7.65e-04  1.74e-02  3.75e-02 1.004
## 128351 -5.32e-03 -6.46e-03  6.45e-03 -3.08e-03  1.67e-05  1.59e-02 1.004
## 56     -6.64e-03 -3.63e-03 -9.25e-03 -5.26e-03  1.00e-03  3.02e-02 1.005
## 79018   5.26e-03 -7.27e-03 -7.75e-03 -1.61e-03  9.95e-04  1.84e-02 1.003
## 42768  -4.69e-03 -1.10e-02  9.58e-03 -4.25e-03 -2.19e-02  3.20e-02 1.003
## 1449    5.10e-03  5.15e-03  1.45e-03  4.26e-04 -3.39e-03  2.53e-02 1.006
## 6113    9.11e-04  4.22e-04 -9.41e-04  2.74e-04  7.93e-04 -3.93e-03 1.005
## 22418  -1.01e-03 -6.96e-04  6.55e-04  7.22e-05 -1.21e-04  2.09e-03 1.005
## 97080   1.03e-02 -1.94e-02  3.29e-02  1.52e-02 -8.81e-03 -5.30e-02 0.996
## 71393   3.12e-04  7.32e-03  4.62e-03 -5.35e-03  3.42e-03  2.00e-02 1.003
## 122421 -1.77e-02  5.20e-02 -3.54e-02  7.48e-03  1.37e-03 -7.74e-02 0.992
## 90578   3.59e-03 -1.61e-02 -1.42e-02 -5.04e-03  3.01e-02 -7.03e-02 1.000
## 7292   -6.29e-04 -2.54e-04 -2.31e-04 -8.98e-04  4.09e-04 -3.46e-03 1.006
## 37362   1.66e-02  2.27e-02 -2.70e-02  2.38e-02 -3.73e-02  8.00e-02 1.002
## 61702  -1.23e-02  6.92e-03  3.40e-03 -5.66e-04  6.05e-03  3.01e-02 1.004
## 65645  -1.29e-03  1.46e-03  6.51e-04 -3.44e-04  6.26e-04  4.31e-03 1.004
## 3351    2.60e-04 -1.20e-03  1.24e-03  1.10e-03 -2.31e-04  5.05e-03 1.005
## 17560   1.85e-02  2.59e-02  3.13e-02  4.16e-03 -4.95e-03 -6.93e-02 0.994
## 14909  -3.78e-03 -9.92e-03  7.71e-03  1.36e-03  3.40e-03  1.55e-02 1.003
## 103402  3.55e-03 -8.92e-03  7.60e-03  4.17e-03 -1.48e-02  2.82e-02 1.003
## 116563  4.53e-03 -9.17e-03  6.71e-03 -1.10e-03 -3.06e-03  2.50e-02 1.004
## 91141   1.52e-04 -5.91e-03  4.47e-03 -4.41e-04  6.38e-04  9.29e-03 1.003
## 4066   -6.81e-04  2.35e-04  3.47e-03 -9.33e-03 -3.97e-03  2.93e-02 1.006
## 108126 -1.04e-03  1.98e-03  1.46e-03 -9.61e-04 -1.09e-03  5.38e-03 1.004
## 9872   -4.62e-05 -9.49e-05 -4.88e-05  5.87e-05  3.44e-05 -4.50e-04 1.006
## 56358  -3.19e-02 -5.78e-03 -1.62e-02  1.43e-02  3.62e-03 -7.78e-02 0.995
## 75135  -7.01e-04  1.42e-03  6.53e-04 -7.45e-04  9.01e-04  4.60e-03 1.004
## 106953  8.84e-04 -6.57e-03 -6.92e-03 -1.89e-03  1.32e-03  1.74e-02 1.003
## 70984  -5.34e-02  4.69e-02 -2.80e-02  1.15e-02 -6.25e-03 -9.80e-02 0.996
## 100732  7.75e-05  8.38e-04  1.77e-03 -1.41e-03 -9.47e-04  5.37e-03 1.003
## 102541  6.55e-03  1.26e-02 -1.37e-02  1.90e-03  4.88e-03  2.48e-02 1.002
## 55943  -7.70e-04 -1.57e-03  9.91e-04 -1.12e-04 -2.13e-04  2.76e-03 1.004
## 74925   2.38e-02 -8.78e-03 -2.67e-02  1.08e-02 -4.80e-02 -9.81e-02 1.001
## 52547   2.27e-04 -4.57e-03 -8.60e-03 -3.13e-03 -2.82e-03  2.20e-02 1.004
## 17441  -5.49e-03  5.04e-03  5.60e-03  8.62e-03 -2.38e-02  3.38e-02 1.004
## 83510   3.24e-03 -4.00e-03 -9.54e-03 -1.64e-04  4.57e-03  2.18e-02 1.002
## 29100  -6.44e-04 -7.53e-03  4.50e-03 -2.68e-03  8.20e-04  1.26e-02 1.004
## 32807  -8.40e-03 -1.46e-02  1.93e-02 -7.77e-04 -1.99e-02  5.93e-02 1.001
## 58844   2.18e-04 -3.00e-03 -6.15e-03  1.48e-03  1.63e-03  1.40e-02 1.004
## 73433  -3.45e-03  1.87e-03 -6.03e-03 -5.63e-06 -1.24e-03  1.26e-02 1.005
## 84307  -3.92e-03 -3.83e-03 -1.03e-02 -6.49e-03  2.48e-03  2.44e-02 1.003
## 36006  -1.65e-02  1.06e-02  7.85e-03  4.62e-03 -2.22e-02  4.06e-02 1.003
## 77511  -1.68e-03  1.26e-03  9.04e-04 -1.45e-03  7.91e-04  5.45e-03 1.004
## 18328   3.24e-02 -1.96e-02 -1.18e-02  1.66e-02 -1.20e-02 -7.05e-02 0.999
## 2520   -1.15e-02  6.87e-03  4.58e-03  5.93e-04  7.12e-05  2.83e-02 1.005
## 78215   1.48e-02  1.90e-02 -2.45e-02  9.48e-03 -3.97e-02  5.90e-02 1.002
## 106959  9.28e-03  1.33e-02 -1.71e-02 -3.72e-03  8.20e-04  3.46e-02 1.003
## 123480 -2.27e-02 -1.28e-02 -1.11e-02 -5.40e-04  2.87e-03 -7.20e-02 1.001
## 21637  -2.64e-03 -8.09e-03 -1.11e-02 -7.18e-03  9.27e-03  3.03e-02 1.002
## 33327  -1.10e-02  9.05e-03  6.37e-03  7.02e-04  1.01e-02  2.83e-02 1.004
## 121621 -1.13e-03  4.14e-03  2.73e-03  6.37e-04  9.92e-04  9.39e-03 1.003
## 79817  -1.69e-02 -1.82e-02  1.13e-02 -1.50e-03  1.31e-02  7.86e-02 1.004
## 17126   1.55e-03  3.25e-03  3.11e-03 -8.83e-04  4.96e-04  1.37e-02 1.004
## 38185   1.81e-03 -7.99e-04 -8.42e-03  9.61e-03 -2.44e-03  1.99e-02 1.004
## 67994  -7.27e-03  5.02e-03 -1.43e-02  1.84e-03  2.62e-02  4.69e-02 1.012
## 121511  5.53e-03 -2.94e-03 -7.86e-03  7.16e-04  1.23e-03  1.87e-02 1.003
## 62020  -1.85e-02 -2.18e-02 -1.51e-02 -5.60e-03 -3.45e-02  6.86e-02 1.002
## 25898  -9.10e-05 -3.17e-04  1.29e-03  1.12e-03 -1.12e-03  4.01e-03 1.004
## 73609  -1.04e-02 -9.39e-03 -2.65e-02  6.83e-03  1.49e-03  7.47e-02 1.000
## 119314 -2.61e-02 -1.42e-02 -1.13e-02 -1.63e-02  1.96e-02  5.75e-02 1.003
## 14327  -1.75e-02  4.65e-02 -3.68e-02  1.20e-02 -1.82e-02 -7.68e-02 0.994
## 74850  -2.17e-02  2.69e-02 -2.21e-02  1.09e-02  2.28e-03 -8.05e-02 0.997
## 38525   2.90e-02 -2.92e-02 -1.77e-02  7.06e-03 -7.69e-03 -6.80e-02 0.992
## 62654  -9.52e-03  2.30e-02 -2.17e-02  6.19e-03  3.41e-02 -6.63e-02 1.000
## 19385  -7.93e-03 -7.05e-03  7.04e-03 -4.03e-03  4.84e-03  1.96e-02 1.004
## 15192   1.10e-02 -4.19e-02  4.71e-02 -5.69e-03  6.43e-03 -9.81e-02 0.993
## 112359 -2.66e-03 -8.66e-03 -8.62e-03 -1.27e-03  4.96e-03  2.00e-02 1.002
## 84246  -1.35e-03 -5.53e-03  4.78e-03 -1.57e-03 -8.58e-04  1.10e-02 1.004
## 37507   2.31e-03  6.83e-03  5.32e-03 -2.07e-03  2.59e-03  1.52e-02 1.002
## 115657  9.32e-03  6.49e-03  4.24e-03  1.85e-03  2.45e-03  2.18e-02 1.003
## 126451 -4.07e-03  7.69e-03  5.05e-03 -3.22e-03 -2.41e-02  3.56e-02 1.005
## 2989   -6.74e-03  5.13e-02 -3.39e-02 -2.70e-03 -6.75e-03 -1.13e-01 0.994
## 45956  -3.14e-03 -1.93e-02 -1.09e-02  8.17e-03 -2.50e-03 -6.58e-02 0.998
## 64771  -2.74e-02 -1.34e-02 -9.53e-03 -5.40e-03  2.47e-02  5.96e-02 1.005
## 72353  -4.16e-04  1.61e-03  3.70e-03 -4.62e-04  6.71e-04  8.26e-03 1.003
## 82999   6.45e-03  9.75e-03 -1.16e-02 -1.36e-03 -3.80e-04  1.96e-02 1.003
## 12647   1.06e-03  4.44e-03  3.33e-03 -2.96e-03  6.78e-04  1.98e-02 1.005
## 10501  -4.70e-04 -3.00e-02 -2.50e-02  6.57e-03 -3.35e-02 -1.19e-01 0.994
## 108957 -2.45e-03 -7.98e-03 -6.44e-03  1.93e-03 -8.13e-04  1.75e-02 1.003
```

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## 84895  -5.57e-03 -3.72e-03 -6.38e-03  3.18e-03  6.69e-04  1.47e-02 1.003
## 41355  -4.63e-03  4.13e-03  3.14e-03 -2.60e-03  4.90e-04  9.46e-03 1.003
## 13738  -9.50e-03 -3.19e-03  5.73e-03 -5.78e-03 -1.28e-02  3.01e-02 1.005
## 90692   3.30e-02 -1.39e-02  3.23e-02 -1.28e-02 -1.47e-02 -6.47e-02 0.995
## 12415  -4.36e-02  3.05e-02  2.73e-02  9.86e-03 -1.74e-02 -1.13e-01 0.999
## 19080   2.53e-02  1.84e-02 -3.01e-02  1.71e-02 -1.62e-02 -6.42e-02 0.996
## 40841   5.34e-03 -3.31e-03 -9.47e-03 -4.40e-03  7.14e-04  1.78e-02 1.003
## 17035  -7.01e-03 -2.73e-02 -1.92e-02  1.32e-02 -1.97e-02 -8.03e-02 0.995
## 79711  -1.12e-02 -1.08e-02 -8.17e-03 -8.06e-03  2.55e-03  2.79e-02 1.003
## 83690  -3.73e-03 -1.62e-03  3.36e-03  7.42e-04  2.73e-04  7.47e-03 1.003
## 15676   2.54e-02  1.99e-02 -2.84e-02  1.75e-03 -9.03e-03 -6.76e-02 0.996
## 26420  -4.68e-03  8.44e-03  5.14e-03  3.24e-04 -1.40e-02  2.63e-02 1.003
## 15357  -5.95e-03 -3.84e-03 -8.23e-03 -7.11e-03 -1.02e-03  2.10e-02 1.004
## 112932  7.91e-03 -2.24e-02  2.89e-02 -1.38e-02  6.83e-03 -5.88e-02 1.001
## 123306 -6.29e-03  1.03e-02 -1.37e-02 -3.00e-03  4.95e-03  3.07e-02 1.004
## 71928  -1.33e-03  8.18e-03 -1.12e-02  5.18e-03  1.25e-03  1.90e-02 1.004
## 94682   8.11e-03  1.12e-02 -2.58e-02 -4.88e-03 -1.15e-02  5.58e-02 1.000
## 87626  -8.33e-03 -6.55e-03  7.89e-03 -6.65e-03  3.38e-03  1.65e-02 1.003
## 106705  1.62e-02 -8.86e-03 -1.44e-02  1.70e-02  9.33e-03  4.08e-02 1.003
## 88468   1.07e-03  4.21e-03  3.51e-03 -5.79e-04 -1.43e-04  1.01e-02 1.003
## 23662   2.99e-02 -2.17e-02 -1.48e-02 -1.15e-02  3.57e-02 -7.52e-02 0.998
## 84432  -1.24e-02  2.33e-02  1.82e-02 -3.17e-03  1.78e-02 -5.47e-02 1.001
## 77522   3.63e-03 -2.15e-03 -6.16e-03 -2.18e-04 -2.09e-03  1.24e-02 1.003
## 46059  -1.86e-02  4.22e-02 -2.08e-02  3.81e-03  2.14e-02 -1.06e-01 0.999
## 94614   3.48e-02  2.92e-02 -2.72e-02  3.36e-02 -2.33e-03 -9.32e-02 0.992
## 126950 -1.12e-02  7.70e-03  6.88e-03 -1.56e-02 -2.67e-03  5.14e-02 1.005
## 148     5.17e-03  2.41e-03  1.32e-03  6.01e-04 -3.30e-04  1.18e-02 1.005
## 52368   1.76e-03 -6.86e-03 -6.92e-03  2.14e-03 -2.03e-03  1.77e-02 1.003
## 15034  -2.72e-02  5.07e-02 -2.05e-02 -5.92e-02 -1.21e-02 -1.35e-01 0.991
## 111506 -1.63e-02 -1.17e-02  1.07e-02  3.05e-03  9.42e-03  2.92e-02 1.004
## 43129   1.33e-02 -2.25e-02 -1.45e-02  2.03e-02  2.96e-02 -1.03e-01 0.999
## 22631   1.12e-02 -8.61e-03 -9.35e-03 -4.55e-03  1.00e-04  2.31e-02 1.003
## 83481  -1.46e-02 -2.46e-02  3.63e-02  8.35e-03  4.79e-03 -7.67e-02 1.001
## 32691   1.11e-02 -1.25e-02 -1.00e-02  9.59e-03  1.44e-02 -5.99e-02 1.004
## 3715    7.68e-03 -2.13e-02  1.55e-02  1.10e-03 -2.94e-02  8.13e-02 1.004
## 9761    4.15e-02  3.57e-02  3.02e-02  9.17e-03  8.90e-04 -1.24e-01 0.993
## 37332   2.01e-02  1.15e-02  7.05e-03  2.09e-02 -7.60e-03  5.46e-02 1.002
## 68730  -1.16e-02 -4.63e-03 -1.70e-02 -2.41e-04 -1.94e-02  4.71e-02 1.004
## 69054  -2.31e-03  1.02e-02  2.76e-03  3.77e-02 -2.97e-03  5.92e-02 1.004
## 47723   4.72e-03 -9.81e-03  2.45e-03 -6.99e-03  2.19e-02  3.96e-02 1.012
## 75750   2.43e-03  2.93e-03  3.49e-03 -2.40e-03  4.34e-04  9.67e-03 1.003
## 110849  7.67e-03  3.14e-02 -2.40e-02  7.02e-04  5.48e-03 -8.29e-02 0.995
## 8647   -3.77e-04 -2.74e-03  1.96e-03 -7.65e-04 -4.67e-04  6.72e-03 1.006
## 75318   5.23e-03 -5.17e-03  4.87e-03  2.70e-03  7.55e-04  1.23e-02 1.004
## 62057   2.19e-02 -2.41e-02 -7.56e-03 -3.79e-02  4.83e-02 -1.04e-01 0.997
## 22983  -4.44e-04  4.88e-03  2.98e-03 -4.01e-03  2.11e-04  1.39e-02 1.004
## 73566   1.07e-02 -1.94e-03 -1.14e-02 -4.13e-04  3.62e-03  2.36e-02 1.002
## 68894  -6.42e-03 -2.06e-02  1.41e-02 -1.09e-02  7.22e-03  4.80e-02 1.002
## 119099  6.44e-03 -5.28e-03 -8.19e-03 -1.19e-03  1.02e-03  1.85e-02 1.003
## 26799   2.37e-02  4.72e-02 -3.28e-02 -3.21e-02 -1.46e-02 -1.02e-01 0.994
## 114209 -5.21e-03  4.65e-03  3.18e-03 -4.54e-03  1.35e-03  1.13e-02 1.003
## 26849   8.78e-03 -9.98e-03 -9.24e-03  1.36e-03  4.52e-03  2.36e-02 1.002
## 76370  -1.65e-03 -6.76e-04  1.65e-03 -1.22e-03 -8.33e-04  4.37e-03 1.004
## 64940  -3.02e-02  2.94e-02  1.86e-02  4.79e-04 -2.35e-02 -6.84e-02 0.998
## 22200  -2.48e-03 -8.03e-04  5.59e-03 -1.84e-03  3.96e-03  1.82e-02 1.003
## 65035   8.31e-03  3.83e-02 -3.31e-02 -1.19e-02 -1.64e-02 -6.99e-02 0.994
## 99073  -1.20e-02  1.32e-02 -1.18e-02 -7.29e-03  5.84e-03  2.60e-02 1.003
## 109804  2.22e-03 -4.34e-03 -4.77e-03  3.19e-03 -3.50e-03  1.21e-02 1.004
## 32538  -3.89e-03  6.80e-03  3.83e-03 -3.27e-03 -1.44e-03  2.31e-02 1.003
## 85310   2.56e-03 -9.86e-03 -1.02e-02 -2.38e-03  2.07e-03  2.27e-02 1.002
## 46980   5.49e-03 -3.09e-02  4.03e-02  2.26e-02 -1.88e-03 -9.10e-02 0.998
## 5432    2.95e-03 -2.07e-03 -5.49e-03  2.87e-04 -1.90e-03  1.82e-02 1.005
## 35450  -3.56e-02  4.98e-02 -3.22e-02 -2.27e-02 -9.01e-03 -7.77e-02 0.994
## 61237   1.08e-03 -2.70e-03  1.62e-03  1.01e-03 -1.14e-03  4.67e-03 1.004
## 59531  -4.53e-03 -1.12e-02  5.79e-03  1.16e-02  2.78e-03  2.76e-02 1.004
## 111695 -1.08e-02 -3.14e-03 -5.67e-03 -4.68e-03  2.00e-03  1.90e-02 1.004
## 64065   1.46e-02  3.75e-02 -2.11e-02  1.52e-03  3.34e-02 -8.40e-02 0.998
## 41241  -9.92e-03  2.52e-03  5.30e-03 -1.24e-03  2.46e-03  1.55e-02 1.003
## 81661  -2.72e-03 -2.11e-03  5.31e-03 -1.01e-03 -2.08e-02  2.65e-02 1.004
## 71561   8.00e-03  5.42e-03  1.96e-03 -3.05e-03  6.97e-03  2.71e-02 1.005
## 13489  -7.49e-04  3.23e-02  2.90e-02  9.99e-03  2.16e-02 -1.23e-01 1.000
## 38377  -2.93e-03 -8.94e-03  8.32e-03 -3.75e-03  2.98e-03  1.68e-02 1.003
## 68166  -2.28e-02  1.88e-02  3.85e-02  3.80e-03  1.96e-03 -8.67e-02 0.995
## 44335   1.14e-02  9.63e-04 -9.71e-03 -5.49e-04  1.00e-03  2.19e-02 1.003
## 21483  -2.02e-03 -4.06e-03  8.86e-03 -6.94e-03 -1.21e-03  4.28e-02 1.004
## 2162    4.99e-05  6.71e-04 -4.10e-04  4.32e-04  9.95e-06 -1.94e-03 1.005
## 57151  -3.79e-02 -2.07e-02 -2.16e-02 -8.84e-03 -3.37e-02 -8.06e-02 0.997
## 129674  1.45e-02 -4.77e-03 -1.25e-02 -4.04e-03  4.24e-03  4.26e-02 1.004
## 128958  3.46e-03  2.11e-03  3.59e-02  9.31e-03  5.30e-03 -9.49e-02 0.994
## 68087  -1.40e-03 -9.02e-04  1.18e-03 -5.53e-04 -3.34e-04  3.09e-03 1.004
## 67709   2.46e-03 -4.50e-03  2.09e-03 -2.40e-03  1.26e-03  9.91e-03 1.005
## 42624   7.07e-05 -2.32e-02 -2.46e-04 -6.16e-02 -1.22e-01 -2.02e-01 0.999
## 17559  -7.82e-03  7.82e-03  4.32e-03 -6.97e-04 -3.76e-03  2.45e-02 1.003
## 117621  1.78e-03 -5.84e-03  4.23e-03 -7.09e-04 -2.25e-03  1.41e-02 1.004
## 16043   2.86e-03  7.06e-03  5.19e-03 -5.98e-03  1.17e-03  1.84e-02 1.003
## 61632  -2.95e-02  5.67e-03  2.93e-02 -4.28e-03  5.56e-02 -7.74e-02 0.999
## 95853   1.69e-03 -8.70e-03  6.81e-03  1.07e-03  2.65e-03  1.86e-02 1.004
## 50579  -4.91e-03  6.56e-03  7.63e-03 -5.44e-03  8.97e-03  2.97e-02 1.003
## 40896  -2.65e-03 -1.87e-03  3.58e-03  1.78e-04  9.22e-04  8.24e-03 1.003
## 74049  -3.86e-04  7.06e-03  2.76e-03 -3.98e-03  1.80e-02  3.55e-02 1.005
## 14542   3.26e-03  2.33e-02 -3.41e-02  4.40e-03 -5.25e-03 -6.99e-02 0.992
## 60940   8.87e-03 -2.75e-03 -1.76e-02 -3.12e-03 -3.38e-02  4.56e-02 1.003
## 111613  8.68e-03 -1.06e-02  1.26e-02 -1.67e-03  1.54e-02  3.20e-02 1.003
## 30131   2.81e-02  2.74e-02 -2.90e-02  3.19e-02 -1.34e-03 -8.13e-02 0.995
## 26883  -1.01e-02  8.72e-03  4.57e-03 -5.49e-03 -9.82e-04  2.74e-02 1.003
## 83595   1.60e-02 -1.96e-02  1.33e-02  9.90e-03 -2.86e-02  4.70e-02 1.003
## 67729  -2.05e-03 -1.80e-03  2.99e-03  2.79e-03  7.40e-05  7.51e-03 1.003
## 59086  -1.66e-02  3.20e-02  2.92e-02  8.78e-03  1.19e-02 -8.73e-02 0.998
```

```
## 17813  -2.66e-03 -7.10e-03  9.69e-03  9.71e-03  2.66e-03  3.56e-02 1.004
## 32204  -9.36e-04  7.77e-03  3.30e-02  2.81e-02  1.29e-03 -8.30e-02 0.997
## 25373   7.65e-03  4.29e-03  3.73e-03  2.40e-03  4.60e-04  1.45e-02 1.004
## 35161  -2.67e-04 -4.12e-03  3.26e-03  5.74e-04 -5.90e-04  1.04e-02 1.004
## 20405  -4.20e-05  3.31e-02  3.40e-02  2.15e-04 -4.67e-02 -1.08e-01 0.999
## 38139   1.79e-03  5.52e-03  2.79e-03  3.20e-03 -1.17e-02  2.19e-02 1.004
## 87254   2.08e-02 -4.62e-04  1.04e-02 -1.22e-02 -7.31e-03  6.18e-02 1.004
## 49003   4.01e-03 -8.45e-03 -7.29e-03  3.31e-03 -4.60e-03  2.35e-02 1.004
## 85672  -4.50e-03  6.03e-03  3.55e-03 -1.53e-03  9.32e-04  2.29e-02 1.004
## 102554 -5.32e-03 -1.06e-02  1.08e-02 -4.16e-03  1.43e-02  3.17e-02 1.004
## 107197  2.83e-03 -5.20e-03  4.10e-03  5.25e-04  3.82e-05  1.13e-02 1.003
## 118512 -2.75e-02  2.35e-02 -2.55e-02 -4.45e-03 -1.14e-02  6.01e-02 1.001
## 46227  -2.89e-02 -1.48e-02 -1.13e-02 -1.07e-02  2.35e-02 -7.47e-02 1.001
## 54256   7.50e-03 -2.84e-03  1.58e-03 -1.51e-04 -4.40e-04  1.26e-02 1.006
## 53387  -1.27e-03 -1.61e-03  1.41e-03 -5.41e-04 -1.01e-03  3.79e-03 1.004
## 104362  1.72e-03  6.89e-03  4.40e-03 -1.70e-04  4.48e-03  1.96e-02 1.003
## 77949  -5.69e-03 -3.59e-03 -7.54e-03 -9.12e-04 -1.22e-03  1.85e-02 1.004
## 53917  -3.80e-03 -2.27e-03 -1.07e-02 -4.50e-03 -2.01e-04  2.48e-02 1.004
## 123292  2.26e-03  3.32e-03  2.42e-03  3.63e-05 -8.17e-04  1.23e-02 1.004
## 75710  -3.06e-03 -5.14e-03  3.60e-03  3.56e-05 -6.49e-04  1.06e-02 1.004
## 81888  -2.28e-02 -1.04e-02 -1.28e-02 -1.07e-02 -1.96e-02  4.34e-02 1.003
## 19323   5.30e-02  2.45e-02  2.36e-02  2.35e-02  3.51e-02 -1.23e-01 1.002
## 45418  -1.48e-02  3.76e-02 -2.09e-02 -3.59e-02  1.91e-02 -7.42e-02 1.000
## 76667  -4.99e-03  9.63e-03  8.73e-03 -3.24e-03  1.23e-02  2.81e-02 1.003
## 116293 -2.22e-03  4.38e-03  3.45e-03 -2.43e-03  6.96e-04  9.58e-03 1.003
## 16577  -3.85e-03  3.54e-03  2.05e-03  1.56e-03  9.04e-04  8.88e-03 1.003
## 30580   2.78e-02 -3.02e-02  3.26e-02  1.90e-02  1.18e-02 -8.29e-02 0.999
## 1584    2.10e-05  4.90e-05  2.14e-05 -2.45e-05 -4.11e-05  2.09e-04 1.006
## 87688  -8.22e-03  9.25e-03 -9.74e-03 -3.78e-03  3.35e-04  1.84e-02 1.003
## 77825  -1.36e-02  9.00e-03  5.58e-03  7.99e-03 -6.88e-03  3.76e-02 1.004
## 26099  -1.99e-03  6.28e-03  6.11e-03 -7.74e-04  4.17e-03  1.79e-02 1.003
## 46575   5.47e-03 -1.09e-02  7.32e-03  2.69e-03  3.21e-03  2.10e-02 1.004
## 108799 -4.28e-03  1.18e-02  1.93e-02 -6.02e-03  2.16e-02 -6.81e-02 1.002
## 23778   3.80e-03 -1.37e-02 -1.11e-02 -4.74e-03  1.91e-02  4.60e-02 1.004
## 10782   3.96e-03  2.48e-03  1.15e-03 -2.80e-04 -9.30e-04  1.15e-02 1.006
## 29569   1.25e-03  3.01e-02 -3.03e-02 -9.01e-03 -1.34e-02 -6.54e-02 0.994
## 64901  -6.98e-03  6.15e-03  5.33e-03 -2.11e-03  2.60e-03  1.75e-02 1.003
## 95630  -2.20e-02 -2.22e-03 -1.43e-02  7.10e-04  2.32e-02 -7.17e-02 1.003
## 29686   2.11e-03 -9.37e-03 -9.11e-03 -1.36e-03  4.09e-03  2.08e-02 1.002
## 56139   5.27e-03 -2.71e-02 -1.52e-02  1.21e-02 -6.72e-03 -6.93e-02 0.992
## 69734   3.05e-03 -1.12e-02  6.13e-03  7.15e-04 -2.72e-03  2.74e-02 1.004
## 21336  -7.22e-03  7.88e-03 -9.35e-03  5.34e-03  6.28e-04  1.76e-02 1.004
## 11231   2.79e-04 -4.85e-04 -9.83e-05  3.83e-04 -3.77e-04 -2.48e-03 1.007
## 21201  -9.32e-03  2.58e-02  2.39e-02 -1.65e-03 -1.00e-02 -6.19e-02 0.996
## 29475  -1.59e-03 -8.19e-03 -7.73e-03  4.05e-03  1.21e-03  1.83e-02 1.004
## 30951  -6.97e-03  1.88e-02  1.20e-02  7.17e-05  2.45e-02 -5.46e-02 1.003
## 121689 -2.27e-02 -6.47e-03  1.05e-02 -1.35e-02 -9.60e-03  4.72e-02 1.005
## 93671   4.69e-03 -4.42e-03  4.72e-03 -2.46e-03  3.20e-04  1.11e-02 1.003
## 27412  -1.74e-03 -1.02e-03  3.59e-03 -4.14e-03  1.04e-03  1.11e-02 1.003
## 52411  -6.89e-03 -1.83e-02  9.59e-03  1.16e-02  2.25e-03  3.59e-02 1.003
## 31560   3.76e-03 -1.43e-02  9.43e-03  1.13e-03 -1.72e-02  3.16e-02 1.003
## 17337   1.44e-03 -1.84e-02  1.60e-02  1.40e-03 -5.27e-03 -6.54e-02 1.004
## 66608   3.90e-02  4.51e-02 -3.51e-02  8.60e-03 -1.15e-02 -7.88e-02 0.994
## 29030  -5.50e-03 -6.49e-03  4.53e-03 -4.75e-03  1.00e-03  1.30e-02 1.004
## 84534   1.13e-02  7.60e-03 -1.31e-02 -2.96e-03 -3.21e-03  2.89e-02 1.004
## 86365  -4.53e-03 -2.08e-03 -4.03e-03  3.90e-04 -1.29e-03  1.03e-02 1.004
## 99622  -1.99e-03  1.58e-03  6.61e-04 -1.00e-03 -3.62e-04  4.89e-03 1.005
## 3500   -2.18e-03 -3.49e-03 -4.98e-03 -1.62e-03 -8.31e-04  1.65e-02 1.005
## 80410   5.18e-03 -7.08e-03 -1.07e-02 -5.91e-03  3.84e-03  2.22e-02 1.002
## 21724  -3.01e-03 -8.75e-03  6.62e-03 -4.05e-03  1.48e-03  1.91e-02 1.003
## 61085  -8.24e-03  6.63e-03  5.55e-03 -2.32e-03  4.90e-03  1.60e-02 1.003
## 94252  -6.07e-03  3.36e-02  3.63e-02  1.64e-02  4.86e-02 -1.13e-01 0.998
## 12287   2.94e-03 -2.46e-02 -8.78e-03  2.76e-02 -2.28e-02 -1.19e-01 0.996
## 40726  -2.32e-02  1.18e-02  1.00e-02 -3.54e-04 -2.62e-02  6.99e-02 1.004
## 113059  2.22e-02 -2.59e-02 -2.34e-02  1.23e-02 -3.05e-02 -7.17e-02 0.996
## 94255  -1.80e-02  3.09e-02  2.53e-02 -1.76e-02  6.92e-02 -9.03e-02 1.000
## 113334 -1.81e-02 -9.45e-03 -7.83e-03 -6.48e-03  4.51e-03  2.98e-02 1.004
## 125122  2.37e-02 -2.83e-02 -2.10e-02 -1.12e-02 -2.02e-02 -1.01e-01 0.995
## 20278   1.86e-02  3.16e-02 -3.50e-02 -2.47e-02 -1.54e-02 -8.16e-02 0.993
## 44067   2.20e-03  2.28e-03  1.13e-03  1.23e-04 -1.74e-03  8.05e-03 1.004
## 77566   8.69e-03  1.38e-03  4.02e-03  8.65e-04  7.58e-04  1.38e-02 1.003
## 91513  -9.37e-04  3.46e-04  4.48e-04  2.73e-04 -5.87e-04  2.70e-03 1.004
## 70927  -4.38e-04 -7.41e-03  3.86e-03 -1.97e-03  1.48e-03  1.38e-02 1.004
## 61035  -3.76e-03  1.31e-02 -1.51e-02 -3.23e-03  1.68e-03  2.51e-02 1.002
## 55497   4.54e-03  4.39e-03  2.61e-03 -1.77e-03 -1.94e-03  1.59e-02 1.004
## 117969 -1.33e-02  1.16e-02  8.54e-03 -7.04e-03 -1.87e-02  3.68e-02 1.002
## 80145  -1.53e-03 -2.90e-03 -4.72e-03 -1.58e-03 -3.92e-03  1.23e-02 1.004
## 30635  -5.92e-03 -8.80e-05 -1.09e-02 -2.62e-03  4.22e-03  2.53e-02 1.003
## 104081  8.01e-03 -4.39e-03  4.53e-03  3.69e-03  5.64e-04  1.31e-02 1.004
## 54048   7.52e-03  8.75e-03  6.19e-03  5.75e-03  9.46e-03  2.98e-02 1.003
## 121786  1.29e-02  7.46e-03 -1.96e-02 -6.28e-03 -1.72e-03  6.07e-02 1.002
## 112578 -5.03e-03 -5.24e-03  4.05e-03 -7.25e-04  9.70e-04  9.91e-03 1.004
## 84249   1.08e-03  2.50e-03  1.45e-03 -2.23e-03  1.52e-04  7.40e-03 1.004
## 26450  -1.33e-02 -5.93e-03  1.11e-02 -6.00e-03  9.26e-03  2.63e-02 1.003
## 67031   6.17e-03  3.73e-03  2.23e-03  5.09e-03 -1.99e-03  1.49e-02 1.004
## 94595  -3.93e-02 -2.33e-02 -2.23e-02 -5.52e-03 -2.35e-02 -7.98e-02 0.995
## 21448   3.06e-04  4.68e-03 -6.75e-03  4.34e-03 -1.70e-04  1.20e-02 1.004
## 48373   2.17e-02  1.50e-02 -1.76e-02  8.65e-03  9.69e-03  4.31e-02 1.003
## 38886  -9.45e-04  1.82e-03  1.38e-03 -1.29e-04 -1.06e-03  5.44e-03 1.004
## 87516  -9.74e-03 -2.39e-02 -2.03e-02  2.31e-02 -9.11e-03 -6.19e-02 0.994
## 105540  1.31e-02 -6.07e-03  1.10e-02 -3.15e-03  2.63e-03  3.35e-02 1.003
## 102508  3.30e-03  1.68e-02  1.07e-02 -1.31e-02 -3.19e-02  8.43e-02 1.004
## 123094 -1.34e-02  8.54e-03 -1.27e-02 -9.22e-03  4.75e-03  2.94e-02 1.003
## 52266   4.62e-03  4.24e-03  3.11e-03 -1.35e-03  2.34e-04  1.16e-02 1.003
## 22048   5.92e-03 -2.17e-02 -8.34e-03  1.86e-03  2.11e-02 -9.00e-02 0.999
## 35605   2.41e-02 -2.51e-02 -2.36e-02  2.05e-02 -2.40e-02 -6.93e-02 0.996
## 71211   1.24e-02 -3.78e-02  4.00e-02  1.31e-02 -3.96e-03 -6.73e-02 0.994
## 20157  -9.40e-03 -9.22e-03 -8.16e-03 -8.50e-04  5.98e-03  2.73e-02 1.004
```

```
## 112608 -7.72e-04  1.32e-02  9.16e-03 -4.68e-03 -5.05e-03  4.26e-02 1.001
## 101919  2.01e-03 -2.65e-03 -7.49e-03  4.17e-03  1.17e-03  1.65e-02 1.003
## 50173   7.90e-03  4.98e-03  3.30e-03 -2.43e-03 -5.59e-04  1.82e-02 1.004
## 123315 -4.10e-03 -2.84e-02 -1.77e-02  5.99e-03 -2.31e-03 -9.75e-02 0.994
## 117924 -7.82e-03 -7.10e-03  8.06e-03 -9.05e-03  1.55e-03  2.17e-02 1.003
## 33774  -1.25e-02 -1.04e-02 -9.99e-03 -5.40e-03  1.59e-02 -5.66e-02 1.003
## 2385   -6.46e-04  6.75e-03  6.21e-03 -1.27e-03  1.16e-02  2.88e-02 1.005
## 27955   1.28e-02 -3.33e-03  3.98e-03  7.39e-04 -7.03e-04  1.91e-02 1.004
## 103541 -8.38e-03  6.03e-03  3.68e-03  4.97e-05  8.41e-04  1.97e-02 1.004
## 25236  -1.45e-03  7.99e-03  4.65e-03 -2.49e-03 -6.32e-03  2.48e-02 1.003
## 101516 -4.47e-03  7.19e-03  2.19e-02  1.25e-03 -3.17e-02 -8.42e-02 0.999
## 70706  -4.91e-03  4.71e-03  1.88e-03  2.33e-03  7.82e-04  1.91e-02 1.004
## 21789   4.64e-02  7.08e-03  3.00e-02  2.97e-02 -6.49e-03 -7.66e-02 0.994
## 32070  -5.80e-03  4.03e-04  2.15e-03  1.26e-03  8.87e-04  9.77e-03 1.004
## 115269  2.48e-03  1.52e-02 -2.08e-02  4.36e-03 -2.28e-02  4.09e-02 1.003
## 26325  -1.69e-02  9.54e-03  6.73e-03 -9.83e-03 -2.36e-02  3.72e-02 1.004
## 48602  -1.33e-02  4.85e-02 -3.44e-02 -1.62e-02 -1.29e-02 -7.17e-02 0.994
## 130498 -2.05e-03 -8.49e-03  8.47e-03  2.66e-03  2.79e-03  2.21e-02 1.003
## 112117 -1.09e-03  4.51e-03  6.51e-03 -3.62e-03  3.68e-03  1.65e-02 1.003
## 130215  3.06e-02  5.66e-03  7.57e-03 -4.27e-03  6.61e-03  5.73e-02 1.003
## 52532   2.99e-02 -2.94e-02 -2.03e-02  1.35e-02 -5.66e-03 -6.53e-02 0.992
## 24857   4.87e-03  2.57e-03 -2.28e-02  1.48e-03 -2.78e-02  6.23e-02 1.001
## 12981  -3.92e-03  1.05e-03 -5.53e-03 -4.86e-04 -1.65e-03  1.61e-02 1.006
## 61155  -1.45e-02 -6.65e-04 -1.80e-02 -1.05e-02  7.23e-03  4.65e-02 1.004
## 128453  5.44e-03  1.41e-03  4.72e-03  3.91e-03 -3.83e-04  1.60e-02 1.004
## 56639  -6.77e-04 -6.73e-04  1.28e-03  2.57e-04 -3.80e-04  3.63e-03 1.004
## 109580  3.99e-02 -2.70e-02 -2.01e-02  2.60e-02 -7.50e-04 -1.03e-01 0.998
## 69579  -4.62e-03  8.39e-03  5.46e-03 -4.61e-03 -1.44e-02  2.84e-02 1.003
## 96159   1.81e-02 -1.20e-02  9.00e-03  2.25e-03  3.43e-03  2.56e-02 1.004
## 40282  -1.13e-02 -2.06e-02 -1.31e-02  3.66e-03  4.15e-02 -7.31e-02 0.997
## 109541  1.28e-02  1.82e-02 -3.11e-02  3.33e-03 -3.22e-02 -7.73e-02 0.996
## 8277    1.16e-02 -9.19e-03  7.10e-03 -4.23e-03  9.33e-04  3.57e-02 1.005
## 70278   4.56e-02  2.12e-02 -2.97e-02  2.87e-02 -8.67e-03 -8.78e-02 0.994
## 61212   2.51e-02 -3.50e-03  5.80e-03  6.70e-03  1.10e-04  3.43e-02 1.005
## 72142   2.38e-02  2.26e-02  2.95e-02  2.75e-03  1.30e-02 -7.48e-02 0.998
## 116091  7.24e-03 -1.05e-02  8.78e-03 -1.34e-03  4.37e-03  2.14e-02 1.003
## 8892    3.02e-02  2.05e-02 -2.82e-02 -3.88e-03 -2.17e-02  8.29e-02 1.003
## 108782 -3.58e-03 -5.75e-04  3.86e-03 -1.51e-03  1.16e-03  8.77e-03 1.003
## 55599   1.43e-02 -1.75e-02 -1.26e-02 -1.34e-02  1.18e-02 -6.10e-02 0.999
## 49269  -5.45e-02 -3.28e-02  4.91e-02 -2.83e-02  5.06e-03 -1.01e-01 0.996
## 69490  -6.28e-04 -6.50e-03 -8.86e-03 -8.94e-04  2.85e-03  2.40e-02 1.003
## 77826   3.06e-03  2.91e-03  1.66e-03  6.43e-03  4.93e-04  1.16e-02 1.004
## 89309   7.19e-03 -5.78e-03 -8.98e-03  1.78e-03 -1.61e-04  1.79e-02 1.003
## 100671 -1.99e-02 -2.59e-02  3.33e-02 -8.39e-03 -4.40e-04 -7.33e-02 0.999
## 104371 -8.40e-03 -1.42e-02  9.19e-03 -1.00e-02 -2.41e-02  6.85e-02 1.008
## 113250 -2.83e-03  2.66e-03  6.24e-03 -6.10e-03  2.57e-03  1.43e-02 1.002
## 22309  -2.93e-03  6.70e-03  4.38e-03  1.03e-03  6.08e-03  2.03e-02 1.004
## 6392   -1.41e-03 -4.74e-03  2.44e-03 -2.65e-03  1.74e-02  3.22e-02 1.009
## 67245  -4.45e-03 -2.06e-03 -4.91e-03 -1.53e-03 -1.14e-03  1.26e-02 1.005
## 68046  -5.35e-04 -6.59e-04  9.71e-04  2.97e-04 -5.64e-05  2.74e-03 1.003
## 113208  5.91e-03 -2.90e-03  3.46e-03 -1.17e-03 -1.50e-03  1.56e-02 1.004
## 27821  -2.66e-03 -4.76e-04  3.41e-03 -4.08e-03  2.74e-04  1.17e-02 1.004
## 32759  -1.25e-02 -4.13e-03  7.43e-03 -7.39e-03  3.48e-03  1.95e-02 1.004
## 25821   3.38e-03 -7.74e-03  5.41e-03 -4.72e-04  2.07e-04  1.17e-02 1.003
## 64563   2.02e-02 -2.50e-02 -1.83e-02 -1.96e-02 -7.44e-03 -7.80e-02 0.994
## 99992  -4.43e-03 -5.02e-03  6.56e-03  1.11e-03 -4.57e-03  2.27e-02 1.003
## 78986  -8.31e-03  9.99e-03 -1.11e-02 -5.01e-03  1.53e-03  2.11e-02 1.003
## 62390   9.13e-03  6.03e-03  5.80e-03  1.07e-03  2.19e-03  2.13e-02 1.003
## 120064  1.15e-03  1.47e-03  3.25e-04  8.71e-04  1.62e-03  6.72e-03 1.005
## 130513  7.71e-03 -1.04e-02  6.41e-03  8.03e-03 -1.59e-02  3.14e-02 1.004
## 128229 -4.19e-03 -2.12e-02 -1.61e-02 -1.26e-03 -2.52e-02  5.80e-02 1.002
## 88195   1.28e-03  5.10e-03  1.58e-03 -3.17e-03  1.19e-02  2.67e-02 1.005
## 126333 -6.32e-03  8.82e-03  6.30e-03  2.18e-03 -1.97e-02  3.90e-02 1.004
## 38213   1.54e-02 -2.99e-02 -2.28e-02 -2.55e-03 -8.74e-03 -7.22e-02 0.992
## 57183   5.66e-03  2.40e-03  1.40e-03  1.42e-03  1.24e-02  2.82e-02 1.007
## 130705  3.12e-04  8.02e-04 -7.72e-03  4.18e-03  1.69e-04  1.79e-02 1.004
## 45560  -5.26e-04  9.28e-03  7.26e-03 -1.38e-03  1.43e-02  3.12e-02 1.004
## 22485   1.51e-02 -1.88e-02  1.30e-02 -4.55e-03  1.90e-03  3.44e-02 1.003
## 96114   9.60e-04 -1.12e-02  8.44e-03 -4.30e-04  2.80e-03  1.74e-02 1.003
## 20546  -1.08e-03 -1.91e-03  1.04e-03  5.35e-03 -2.04e-05  1.45e-02 1.006
## 53727  -5.22e-04 -1.69e-02  1.02e-02  2.02e-03 -2.49e-02  3.62e-02 1.004
## 77943  -3.45e-02  1.15e-02  2.99e-02  1.45e-03 -2.79e-03 -8.75e-02 0.997
## 64883  -1.60e-03 -9.34e-04 -9.28e-03 -1.95e-03  1.32e-02  2.93e-02 1.008
## 53353  -1.13e-03  6.88e-04  8.49e-04 -1.54e-03 -4.83e-04  5.28e-03 1.004
## 17370  -8.08e-03  8.61e-03  4.17e-03 -8.45e-03  6.13e-03  3.00e-02 1.003
## 32278   4.51e-03  6.71e-03  6.63e-03 -3.02e-03  5.20e-03  1.95e-02 1.003
## 24494   4.32e-03 -6.68e-03  6.06e-03  7.59e-03  3.18e-03  1.98e-02 1.004
## 17447  -1.37e-02 -1.62e-03 -9.13e-03 -8.07e-03  7.27e-03  2.93e-02 1.004
## 24100  -2.31e-03 -3.73e-03 -3.95e-03  2.97e-03 -2.13e-03  1.24e-02 1.005
## 120179 -7.63e-03 -2.31e-03  7.03e-03  2.01e-03 -1.56e-02  2.61e-02 1.003
## 89145  -7.02e-03  8.53e-04  4.11e-03 -5.88e-03 -1.52e-04  2.28e-02 1.004
## 42737   6.18e-03 -6.08e-03 -6.54e-03  2.43e-02 -1.56e-03  2.78e-02 1.012
## 10076  -4.16e-03 -6.16e-03  3.33e-03 -1.44e-03 -1.71e-02  2.58e-02 1.008
## 42392  -4.37e-03 -1.28e-03  3.03e-03 -2.22e-04 -1.04e-03  1.04e-02 1.004
## 1480    4.10e-03  1.40e-02 -1.85e-02  1.16e-03 -2.78e-02  5.20e-02 1.005
## 49216  -3.38e-03  4.04e-03  3.77e-03  7.71e-04 -2.58e-04  2.09e-02 1.003
## 21697   4.53e-04  1.82e-02  1.30e-02  4.81e-03  1.78e-02 -5.30e-02 1.003
## 96667  -1.53e-03  1.27e-03  8.15e-04 -3.49e-04 -4.13e-04  3.53e-03 1.004
## 32238   1.59e-02 -6.59e-03 -8.88e-03  2.49e-03 -2.45e-03  2.41e-02 1.004
## 7529   -6.82e-04  1.28e-02 -1.77e-02 -2.84e-03 -1.76e-02  4.45e-02 1.005
## 44459  -4.29e-03  7.60e-03  3.67e-03 -4.14e-03  7.41e-03  2.79e-02 1.003
## 86128  -3.38e-03 -8.42e-03  9.16e-03 -2.03e-03 -2.48e-02  3.29e-02 1.003
## 11904  -9.97e-04  2.92e-03 -3.88e-03 -1.44e-03 -6.17e-05  9.21e-03 1.006
## 18722   1.96e-02  8.21e-03  5.43e-03  7.72e-03 -2.54e-02  4.10e-02 1.004
## 61756   3.98e-02 -3.36e-02 -1.84e-02  9.45e-03 -5.27e-03 -9.57e-02 0.992
## 7800    3.19e-03 -1.17e-02  5.10e-03  1.71e-03  1.22e-04  2.79e-02 1.005
## 48502  -1.23e-03  1.88e-03  1.00e-03 -1.55e-03  4.52e-04  5.02e-03 1.004
## 116455 -6.25e-03 -9.43e-03  7.80e-03 -2.30e-04  3.83e-03  1.61e-02 1.003
```

```
## 123460  1.48e-02 -1.24e-02 -8.91e-03  3.88e-04 -1.59e-03  3.06e-02 1.004
## 49946   1.36e-02 -7.95e-03 -9.99e-03  3.88e-03  2.20e-03  2.91e-02 1.003
## 48802   6.14e-04  4.34e-04 -1.37e-04  2.83e-03  4.93e-03  1.13e-02 1.010
## 79468  -5.29e-02  3.37e-02  2.76e-02 -4.75e-03 -4.48e-03 -9.26e-02 0.998
## 18763   3.98e-03 -2.75e-03  3.98e-03  1.32e-03  5.53e-04  9.35e-03 1.003
## 124018  3.04e-03  4.97e-02 -3.66e-02  1.29e-02  6.58e-04 -9.24e-02 0.994
## 80889   6.53e-04 -2.98e-03  2.34e-03 -1.43e-03 -7.52e-04  6.02e-03 1.004
## 86002  -4.65e-03 -2.47e-03  3.37e-03 -9.56e-05  2.53e-04  8.19e-03 1.003
## 4017   -8.52e-03  6.65e-03  3.65e-03  3.19e-03  6.04e-03  2.68e-02 1.006
## 62352   1.24e-03 -2.27e-02 -1.02e-02 -6.52e-02  8.81e-03 -1.07e-01 0.995
## 52940   2.19e-02  3.51e-02 -2.38e-02  7.73e-03  9.10e-03 -7.08e-02 0.999
## 5276   -1.33e-03  7.23e-04  3.92e-04  3.38e-04 -1.02e-04  3.89e-03 1.006
## 92485  -1.83e-03  1.25e-03  5.96e-04  6.59e-03  1.31e-03  1.12e-02 1.006
## 38052  -2.58e-02 -2.66e-02 -9.41e-03  3.26e-02  7.62e-04 -1.03e-01 0.994
## 31797   1.83e-03 -4.74e-03 -5.06e-03 -1.82e-03 -4.16e-03  1.37e-02 1.004
## 93659  -2.15e-04 -1.24e-03  1.04e-03  6.51e-04 -5.98e-04  2.89e-03 1.004
## 65453   4.64e-03 -2.54e-03  2.61e-03 -8.42e-04 -9.51e-04  8.84e-03 1.004
## 21689  -4.81e-03  7.06e-03  5.51e-03 -2.80e-03  4.32e-03  1.68e-02 1.003
## 79048  -1.05e-03 -2.69e-03  1.39e-03 -1.54e-03  9.63e-04  6.04e-03 1.005
## 59119   1.70e-02 -1.96e-03 -1.39e-02  1.23e-03  1.36e-02  3.86e-02 1.002
## 21487  -6.61e-03 -1.44e-02  8.00e-03  7.40e-03 -1.04e-02  2.77e-02 1.004
## 125662  2.99e-04 -8.03e-03 -9.06e-03 -3.29e-03  1.99e-03  2.58e-02 1.003
## 94335  -7.59e-03 -5.67e-03 -9.06e-03  3.22e-03  3.48e-03  1.98e-02 1.003
## 5201   -4.19e-03 -3.91e-03  5.24e-03 -7.29e-03 -2.67e-02  4.21e-02 1.007
## 23703  -1.58e-03 -6.40e-03  5.37e-03 -1.89e-03  1.17e-03  1.20e-02 1.004
## 52904   1.92e-03 -1.34e-03  2.11e-03 -8.11e-04 -7.89e-04  6.02e-03 1.004
## 56733  -6.86e-03  8.78e-03  6.78e-03  1.21e-03  1.19e-02  2.94e-02 1.004
## 64184   2.25e-02  8.10e-03  8.86e-03  4.62e-03  1.20e-02  3.68e-02 1.003
## 56207   1.49e-02 -1.41e-02 -1.89e-02  3.24e-03 -1.48e-02  6.00e-02 1.004
## 87968   2.76e-03  6.88e-03 -9.54e-03 -3.74e-03  1.63e-03  1.87e-02 1.004
## 9965   -6.36e-04  1.72e-03  7.73e-04 -8.37e-05 -4.02e-04  6.63e-03 1.005
## 6293    2.62e-02 -2.41e-02  3.27e-02 -4.46e-02  2.11e-02 -1.10e-01 1.005
## 100611  1.19e-02 -9.36e-03  8.62e-03 -1.98e-03  1.78e-03  2.37e-02 1.004
## 56477  -3.75e-03 -1.47e-03  2.81e-03 -4.29e-04 -2.75e-04  9.54e-03 1.004
## 123208 -1.54e-03  5.30e-03  4.60e-03 -2.15e-03  1.80e-04  1.57e-02 1.003
## 49295  -1.57e-03  1.61e-03  1.08e-03 -3.98e-04 -4.85e-04  4.28e-03 1.004
## 115026 -5.50e-03 -2.27e-02  4.15e-02  2.10e-03 -6.73e-04 -8.39e-02 0.995
## 38835   1.01e-02  1.82e-02 -2.50e-02 -1.71e-03 -1.32e-02  4.75e-02 1.001
## 1435   -6.93e-03  5.92e-03  2.30e-03 -1.07e-02  9.54e-03  3.23e-02 1.007
## 39794   2.76e-02 -2.67e-02 -2.48e-02  2.13e-02 -3.60e-02 -7.83e-02 0.996
## 128564  1.58e-02  5.52e-03  4.78e-03  2.91e-04  8.49e-04  2.50e-02 1.004
## 9982   -2.84e-02  7.84e-03  9.10e-03 -1.52e-02 -2.01e-02  8.04e-02 1.005
## 77379  -1.46e-02  1.21e-02 -1.88e-02 -1.09e-02  3.41e-02 -6.28e-02 1.000
## 49006  -3.44e-02  3.71e-02 -2.28e-02  3.54e-04  3.20e-02 -1.02e-01 1.002
## 37446  -8.38e-04  4.47e-03  2.63e-03 -3.41e-03 -1.08e-03  1.33e-02 1.004
## 10287  -1.12e-02  1.07e-02  2.43e-03 -1.73e-02  3.00e-03  5.21e-02 1.006
## 48902  -9.14e-04 -5.05e-03 -4.46e-03  8.83e-05 -1.39e-03  1.14e-02 1.004
## 30280  -1.32e-02 -1.43e-02  1.53e-02  5.29e-03 -7.29e-03  6.25e-02 1.001
## 114664  5.48e-03 -3.22e-03  2.47e-03  1.19e-02  1.35e-04  1.39e-02 1.006
## 91769   1.20e-02  1.14e-02  8.99e-03  7.63e-03 -1.15e-02  4.60e-02 1.001
## 6566    3.38e-03 -3.40e-03 -7.62e-03 -4.29e-03 -1.11e-03  2.22e-02 1.005
## 71895   7.00e-04  4.42e-03  2.70e-03 -1.48e-03 -9.28e-04  1.27e-02 1.004
## 97436   2.96e-03 -1.13e-02  8.92e-03 -9.21e-05  3.48e-03  1.93e-02 1.003
## 36918  -1.29e-03  1.20e-02  6.31e-03  2.28e-02 -2.93e-03  5.43e-02 1.003
## 57447  -8.55e-03  5.24e-03  3.94e-03  8.35e-03  4.29e-03  1.84e-02 1.004
## 28453  -5.62e-03  2.83e-03  2.82e-03 -8.03e-04  1.15e-03  9.48e-03 1.003
## 107384 -8.61e-03  9.29e-03 -1.01e-02 -3.70e-04  1.52e-03  1.90e-02 1.003
## 7994   -1.64e-03  1.71e-03  1.08e-03 -2.70e-04  2.70e-04  6.03e-03 1.005
## 130638  2.11e-02  9.68e-03 -2.84e-02 -7.55e-03 -2.17e-03  7.56e-02 1.003
## 32901  -1.37e-02  3.59e-02  2.89e-02 -8.29e-03 -1.98e-03 -6.75e-02 0.994
## 50823  -2.07e-03  7.00e-03  4.72e-03 -5.61e-03  2.61e-03  2.01e-02 1.003
## 116190  4.14e-02 -2.12e-02 -1.10e-02  1.94e-02 -4.02e-04 -9.90e-02 1.002
## 47295  -8.84e-03  1.02e-03  3.95e-03  5.54e-03  3.40e-03  1.74e-02 1.004
## 15682  -7.39e-03 -9.86e-03  8.05e-03 -3.79e-03  2.74e-03  1.77e-02 1.004
## 128998 -6.91e-03 -1.90e-02 -2.03e-02 -6.93e-04 -4.82e-02  9.51e-02 1.003
## 96137  -1.73e-02  8.63e-03  1.62e-02 -2.72e-04  1.47e-02 -6.12e-02 1.004
## 129223  4.41e-03 -3.32e-03  6.06e-03 -8.72e-04  1.11e-03  1.64e-02 1.003
## 20959   1.64e-03  4.21e-03 -6.99e-03  5.69e-03 -2.56e-03  1.53e-02 1.005
## 21954  -1.71e-03 -7.06e-04  1.74e-03 -1.52e-03 -8.67e-04  4.65e-03 1.004
## 26232  -3.71e-03  8.04e-03  3.75e-03 -8.28e-04  3.57e-03  2.71e-02 1.003
## 51474  -1.11e-02 -6.74e-03 -5.00e-03 -4.72e-03 -6.07e-04  1.91e-02 1.004
## 66961  -2.07e-03  1.94e-03  1.30e-03 -1.86e-03 -4.56e-04  5.09e-03 1.004
## 73892  -9.73e-04 -1.28e-03  1.11e-03  1.11e-04 -9.42e-04  3.11e-03 1.004
## 113586  6.72e-03 -3.28e-02  3.57e-02  1.05e-02 -7.72e-03 -6.28e-02 0.996
## 114386 -5.33e-04  3.87e-03  2.76e-03  2.56e-03  9.79e-04  9.46e-03 1.003
## 84524  -4.90e-03  1.33e-02 -1.32e-02 -3.76e-03  5.80e-03  2.33e-02 1.002
## 50651   3.59e-03 -9.72e-04 -8.82e-03  3.89e-03  9.24e-04  1.57e-02 1.003
## 108492  2.45e-03  6.49e-03 -8.21e-03  7.95e-04 -4.15e-03  1.72e-02 1.005
## 91976   4.94e-04 -2.19e-03  1.00e-03  9.89e-04  4.03e-04  4.03e-03 1.004
## 78115  -1.15e-02 -2.64e-02 -4.36e-03 -1.11e-01 -1.48e-02 -1.56e-01 0.992
## 79006   2.04e-02  3.35e-02  2.75e-02  7.68e-03 -5.82e-03 -7.29e-02 0.994
## 80555   6.29e-03 -6.32e-03 -5.93e-03  3.41e-03 -3.99e-04  1.47e-02 1.004
## 116312  9.55e-03  6.39e-03  5.94e-03  1.58e-03  4.56e-03  1.91e-02 1.003
## 114401 -3.06e-03 -1.24e-03  7.27e-03 -2.89e-03  4.31e-03  1.42e-02 1.003
## 20769  -1.99e-03  9.73e-03  6.02e-03 -6.23e-03 -1.32e-02  4.66e-02 1.004
## 77439  -1.56e-03 -4.81e-03 -8.74e-03  1.95e-03  1.28e-03  1.72e-02 1.003
## 23123  -3.42e-03 -3.43e-03 -9.42e-03  4.42e-04  4.68e-03  1.88e-02 1.002
## 130583  1.86e-02  5.61e-03  2.66e-03 -1.76e-03 -2.33e-04  3.08e-02 1.005
## 108256  6.19e-03  6.09e-04 -9.56e-03  9.97e-03  5.64e-04  1.80e-02 1.003
## 93057  -5.30e-03  9.66e-03 -1.01e-02 -2.56e-03  1.13e-03  1.74e-02 1.003
## 58539   1.63e-02  4.73e-03  1.11e-03  4.93e-04  1.41e-02  3.54e-02 1.007
## 122901  1.76e-03  4.37e-03  2.42e-03 -8.77e-04  8.84e-04  1.18e-02 1.003
## 8560    8.67e-03  9.11e-04  5.69e-03  2.96e-03  1.36e-02  3.59e-02 1.007
## 104729 -1.77e-02  1.20e-02  6.52e-03 -6.10e-03  1.14e-04  4.63e-02 1.004
## 17719   6.44e-03  7.90e-03  7.80e-03  8.37e-03  9.56e-03  2.66e-02 1.003
## 61414   3.16e-02 -3.76e-02  3.11e-02  2.40e-02 -2.71e-02 -8.09e-02 0.996
## 68033  -1.26e-02  2.98e-02  4.29e-02 -9.37e-03 -2.74e-03 -1.09e-01 0.995
## 71488   3.49e-02  3.33e-02 -3.06e-02  1.20e-02 -1.91e-02 -9.25e-02 0.996
```

```
## 36925  -4.14e-03 -7.00e-03  6.36e-03  2.81e-02 -2.95e-03  3.81e-02 1.006
## 28046   1.45e-03  1.58e-02 -1.54e-02  1.81e-03  1.31e-02  3.45e-02 1.002
## 118602  1.56e-02 -1.28e-02 -1.04e-02  3.19e-03  1.41e-02  3.83e-02 1.002
## 127559 -7.33e-03  5.34e-03  3.69e-03 -1.99e-03  2.00e-03  1.64e-02 1.004
## 5199   -4.30e-03 -7.29e-03 -6.70e-03 -5.34e-03  3.72e-03  2.75e-02 1.005
## 55783  -5.27e-03  6.68e-03  5.81e-03 -3.53e-03  4.29e-03  1.53e-02 1.003
## 127394 -2.18e-04 -2.72e-03  1.85e-03  5.17e-04 -8.49e-05  9.91e-03 1.005
## 25140   1.28e-02  1.19e-02  8.01e-03 -5.12e-03 -1.54e-02  5.20e-02 1.003
## 67827  -1.29e-03 -1.81e-03  4.14e-04 -6.58e-04  4.91e-03  8.53e-03 1.014
## 46283  -2.78e-03  1.97e-02 -2.30e-02 -9.72e-03 -3.54e-02  5.85e-02 1.002
## 20006   6.66e-03  1.90e-02 -1.08e-02 -5.34e-02 -8.76e-02 -1.54e-01 0.998
## 119154  1.44e-02  3.89e-02 -2.52e-02  2.20e-02  1.09e-02 -9.61e-02 0.998
## 93047   1.68e-03 -3.28e-03  3.28e-03  5.08e-03 -6.59e-04  9.68e-03 1.004
## 63669  -1.33e-03 -2.11e-03  7.70e-04 -1.01e-03  6.90e-03  1.10e-02 1.013
## 128345 -2.76e-03 -2.97e-03  2.37e-03 -7.04e-04  3.74e-04  8.18e-03 1.005
## 86469   1.15e-02  6.22e-03  6.48e-03 -6.59e-04  2.56e-03  2.46e-02 1.004
## 127854 -2.45e-03 -3.65e-03 -5.83e-03 -2.09e-03 -4.04e-03  1.74e-02 1.004
## 50108  -4.41e-03  3.58e-03  1.01e-03 -1.29e-04  3.49e-03  2.25e-02 1.005
## 32589   1.79e-02 -2.99e-02  3.59e-02  5.00e-03  3.77e-02 -7.68e-02 0.998
## 86854   3.29e-02  8.20e-03  8.99e-03  2.88e-02  8.38e-03  5.63e-02 1.004
## 100666  1.35e-02  1.27e-02 -1.49e-02  2.88e-04  3.28e-03  2.90e-02 1.003
## 23532  -1.88e-03  2.14e-03  1.03e-03 -1.88e-03 -5.91e-04  7.03e-03 1.005
## 54711   7.52e-03 -7.58e-03 -7.71e-03  2.30e-03 -9.42e-04  1.77e-02 1.003
## 39269  -2.32e-03  2.54e-03  1.68e-02 -1.51e-02  1.77e-02 -5.84e-02 1.005
## 20605  -1.21e-02 -3.24e-05 -8.43e-03  1.31e-03  6.56e-03  2.25e-02 1.003
## 24962   3.14e-02 -6.23e-03 -3.05e-02 -3.96e-03 -4.36e-03  8.66e-02 1.000
## 26923   7.83e-03 -2.66e-02 -2.38e-02 -5.61e-03 -2.09e-02 -6.53e-02 0.994
## 23644  -2.85e-03 -2.66e-03 -2.04e-02 -1.70e-03  4.35e-03  4.14e-02 1.001
## 27283  -1.13e-03 -4.19e-03  3.45e-03  4.38e-03  4.36e-04  9.04e-03 1.004
## 91469  -3.40e-03 -2.56e-03  5.50e-03  1.69e-03  3.90e-03  1.65e-02 1.003
## 87997   7.69e-03 -8.40e-03  8.64e-03 -1.22e-03  4.01e-03  1.84e-02 1.003
## 77151   4.15e-03 -4.47e-03  2.38e-03 -1.10e-03 -1.67e-03  9.92e-03 1.005
## 128784 -4.80e-03  1.55e-02  1.19e-02 -2.51e-03  1.54e-03  7.11e-02 1.001
## 46210   1.60e-04  1.71e-03  4.11e-03 -1.58e-03  6.45e-04  9.59e-03 1.003
## 65806   3.71e-03 -3.50e-03  2.22e-03  7.26e-04 -1.47e-03  7.19e-03 1.004
## 95578   1.44e-03  2.32e-03  1.44e-03 -8.36e-04 -3.02e-04  6.70e-03 1.004
## 126010 -1.25e-02  1.08e-02 -1.05e-02 -3.59e-03  9.39e-04  2.54e-02 1.004
## 117877 -4.53e-02  6.60e-04 -1.66e-02  1.03e-02  2.01e-02 -1.07e-01 0.992
## 19661   6.65e-04 -9.36e-03  3.64e-03 -1.26e-03  1.32e-02  2.67e-02 1.007
## 7824   -9.24e-04  1.28e-03  9.83e-04 -6.72e-04 -4.18e-04  6.71e-03 1.005
## 118171 -1.87e-02 -3.20e-02  3.31e-02  1.32e-03 -1.63e-02 -6.57e-02 0.996
## 38673  -3.65e-03  2.08e-02 -2.39e-02  3.26e-03 -2.54e-02  6.35e-02 1.003
## 30546   6.53e-03  5.68e-03  2.72e-03 -3.63e-03 -3.29e-03  2.39e-02 1.004
## 105945 -5.21e-04  4.05e-03  3.54e-03 -1.35e-03 -1.32e-03  1.20e-02 1.004
## 101582  3.67e-03  1.15e-02  6.37e-03 -5.09e-03 -1.16e-03  4.69e-02 1.003
## 63286  -7.10e-03 -2.01e-02  1.51e-02 -9.16e-03 -2.51e-02  5.63e-02 1.002
## 72016  -4.28e-03  1.01e-02 -1.10e-02 -7.26e-03 -3.13e-03  2.57e-02 1.004
## 101014 -4.82e-03  5.94e-03  4.64e-03  1.87e-03  2.37e-03  1.46e-02 1.003
## 35378   4.90e-03  4.58e-03  1.64e-03  2.68e-04 -1.73e-04  1.59e-02 1.004
## 38979  -7.97e-04  1.32e-02 -1.69e-02 -3.71e-03  1.05e-02  3.85e-02 1.003
## 102161 -7.45e-03  3.40e-02  3.18e-02  7.73e-03  5.19e-03 -9.86e-02 0.998
## 122328  1.77e-02 -7.71e-03  9.55e-03  7.75e-03  1.73e-02  4.59e-02 1.006
## 73717  -2.44e-04 -8.77e-04 -1.08e-02 -3.22e-03  5.12e-03  1.88e-02 1.002
## 123484 -4.13e-03  6.61e-03 -1.23e-02 -3.23e-03 -6.38e-05  2.75e-02 1.004
## 25040   1.83e-02  1.53e-02 -2.27e-02  1.53e-04 -1.81e-02  4.47e-02 1.002
## 20350   1.14e-02 -2.37e-02 -1.83e-02  2.25e-03 -2.72e-02  7.38e-02 1.001
## 63020   2.65e-03 -2.77e-03  1.57e-03  1.99e-03 -3.30e-04  5.57e-03 1.004
## 60556  -3.50e-03 -6.76e-03  5.28e-03  5.38e-04  1.94e-04  1.87e-02 1.004
## 15810  -1.71e-02  1.02e-02  6.50e-03  8.85e-03 -1.10e-02  3.55e-02 1.003
## 116357  3.14e-02  8.51e-03  3.59e-02 -5.20e-02  1.65e-02 -1.15e-01 1.000
## 57058  -2.31e-03  9.17e-03  7.10e-03 -3.05e-04  1.41e-02  3.06e-02 1.004
## 70770   3.32e-04  6.66e-05  5.71e-03 -7.42e-03  3.82e-03  2.76e-02 1.003
## 57822  -1.39e-03 -1.37e-03  1.18e-03 -8.51e-04  2.97e-04  3.69e-03 1.004
## 105124  7.56e-03 -8.41e-03  7.09e-03  5.57e-03  1.91e-03  1.64e-02 1.003
## 130462  3.18e-03  1.12e-02 -1.26e-02 -2.97e-03  9.15e-05  2.58e-02 1.003
## 53159  -3.70e-02  4.28e-02 -2.82e-02  9.35e-03 -1.45e-02 -9.36e-02 0.998
## 49903   7.33e-03  9.62e-03 -1.14e-02  2.27e-04 -7.07e-04  1.99e-02 1.003
## 26509  -6.34e-03 -1.45e-02  3.85e-02 -1.47e-02  8.00e-03 -6.78e-02 0.998
## 15264   7.62e-04  4.01e-03  2.70e-03 -1.19e-03  7.09e-04  1.01e-02 1.003
## 4339   -9.22e-04  1.78e-03  9.26e-04 -4.26e-04 -2.24e-04  6.69e-03 1.005
## 73689   6.94e-03 -6.56e-04 -1.03e-02 -5.38e-03 -9.24e-04  2.37e-02 1.003
## 128455  9.14e-04  1.37e-02 -1.38e-02  2.16e-03  4.63e-03  3.43e-02 1.003
## 60535   4.02e-03 -1.20e-02 -8.34e-03  3.71e-04  4.82e-03  2.27e-02 1.002
## 100949 -5.87e-03  3.95e-03  3.06e-03 -2.13e-03  4.40e-04  9.82e-03 1.003
## 14989  -3.01e-03 -3.58e-04  2.96e-03  1.36e-04  5.06e-04  1.04e-02 1.004
## 21074  -3.42e-03 -4.40e-03 -7.87e-03 -2.25e-03  1.01e-03  1.50e-02 1.003
## 128818 -1.58e-02 -1.52e-02  9.41e-03 -4.30e-03  2.12e-04  3.81e-02 1.005
## 43064   1.36e-02  8.37e-03  2.89e-03 -4.06e-03  3.56e-02  6.09e-02 1.006
## 100425 -1.06e-03  8.87e-03 -9.96e-03  5.69e-03  1.27e-03  1.82e-02 1.003
## 1922   -2.89e-04  6.81e-03  3.36e-03  2.46e-03 -1.41e-02  3.19e-02 1.005
## 4535    3.34e-03 -6.52e-03  3.98e-03  2.98e-03  7.95e-04  1.72e-02 1.006
## 88788  -2.83e-04  1.36e-03  1.68e-05  5.01e-04  8.84e-04  6.45e-03 1.006
## 47734  -6.15e-03 -8.44e-03  6.79e-03  4.64e-03  2.12e-03  1.81e-02 1.004
## 97900  -2.38e-03 -1.35e-02 -1.30e-02  3.88e-04  1.83e-02 -6.54e-02 1.002
## 10424  -4.73e-04 -8.13e-04  1.77e-03 -4.71e-04 -4.81e-05  6.26e-03 1.005
## 22929  -5.93e-04 -1.31e-02  7.90e-03 -2.34e-03 -2.58e-02  3.32e-02 1.005
## 65535  -8.73e-04  1.53e-04  4.54e-04 -7.09e-04  7.37e-04  5.63e-03 1.005
## 125020 -3.12e-02  1.78e-02  2.76e-02  4.83e-03 -3.60e-03 -8.88e-02 0.998
## 105101 -7.73e-03 -3.68e-02  3.98e-02 -9.22e-03 -5.23e-03 -7.45e-02 0.994
## 79458  -3.88e-03  8.56e-03  6.10e-03  6.84e-04 -3.40e-03  3.34e-02 1.003
## 50345  -9.11e-03  1.23e-02 -1.20e-02 -1.87e-03  3.43e-03  2.70e-02 1.003
## 82461  -2.00e-02 -1.64e-02 -1.94e-02 -1.61e-02  1.59e-02  6.75e-02 1.002
## 56982   2.97e-02 -3.51e-02  3.46e-02  1.07e-02 -9.22e-03 -7.66e-02 0.996
## 51271   2.08e-03 -2.63e-03  2.11e-03 -1.68e-03 -1.82e-03  8.18e-03 1.004
## 18898   3.56e-02  9.04e-03  3.46e-02  9.46e-03 -5.51e-03 -7.02e-02 0.994
## 92311  -3.49e-02 -2.32e-02 -9.58e-03 -3.43e-03 -1.44e-03 -9.64e-02 0.994
## 119456  2.15e-03  2.33e-03  5.92e-03 -2.11e-03  2.11e-03  1.34e-02 1.002
## 80479  -2.89e-03  3.08e-03  2.00e-03  3.16e-03  3.87e-04  8.48e-03 1.003
```

```
## 3031   -3.70e-03 -3.33e-03 -6.98e-03  3.46e-03  4.03e-03  2.41e-02 1.005
## 89329  -1.27e-02 -3.26e-02  3.47e-02 -9.75e-04 -1.61e-02 -6.45e-02 0.996
## 126664 -8.10e-03 -4.15e-03  5.09e-03 -4.65e-04  8.19e-04  1.42e-02 1.004
## 26542  -3.89e-02  3.76e-02  3.33e-02 -2.74e-02  1.59e-02 -1.01e-01 0.995
## 66022  -1.31e-03 -6.29e-03  3.99e-03  6.51e-04  5.01e-04  9.15e-03 1.003
## 44851  -6.50e-04 -2.33e-03  1.70e-03 -1.26e-03 -2.12e-05  4.51e-03 1.004
## 115398  2.02e-02 -1.78e-02  2.07e-02 -5.46e-04  2.29e-02 -7.99e-02 1.006
## 96323   5.29e-04 -1.13e-03  1.57e-03 -1.00e-03  9.36e-05  4.62e-03 1.003
## 31473  -4.65e-03 -2.49e-03 -8.52e-03 -4.27e-03  1.12e-03  1.56e-02 1.003
## 126688  1.96e-02 -1.58e-02 -1.06e-02  3.97e-03  3.56e-03  3.83e-02 1.003
## 29049  -3.57e-03 -4.29e-03  3.72e-03 -9.91e-04  1.88e-04  1.09e-02 1.004
## 115607 -9.08e-04  4.11e-03  3.33e-03 -2.52e-03 -5.39e-04  1.14e-02 1.003
## 47939  -6.41e-03  7.24e-03  5.32e-03 -4.85e-03  2.71e-03  1.73e-02 1.003
## 83431   1.26e-02  3.70e-03 -1.23e-02 -2.48e-03  2.69e-03  2.97e-02 1.003
## 106256  1.22e-04  3.85e-04  2.05e-04  1.42e-03 -1.91e-04  1.82e-03 1.005
## 5302    5.77e-04  4.91e-03  2.84e-03 -3.38e-03 -1.03e-03  2.09e-02 1.005
## 86113  -8.12e-03 -2.42e-02  1.50e-02 -2.90e-03  7.79e-04  4.71e-02 1.002
## 566     2.81e-02 -2.19e-02 -1.77e-02  8.17e-03 -3.36e-02  9.70e-02 1.006
## 990    -1.24e-02  9.11e-03  2.73e-03 -4.15e-03  9.15e-03  4.72e-02 1.006
## 111778 -5.70e-04 -4.77e-03  4.35e-03 -2.31e-03  6.84e-05  1.08e-02 1.003
## 30919   1.87e-02 -2.46e-03 -2.04e-02  7.03e-03 -5.75e-03 -7.14e-02 0.992
## 15901  -1.73e-03 -2.80e-02 -2.11e-02  5.96e-03 -5.62e-03 -6.11e-02 0.992
## 106331  4.30e-02  2.54e-02  1.73e-02  1.26e-02 -3.40e-02 -8.74e-02 0.998
## 118084 -7.01e-03  7.77e-03  2.78e-03  2.27e-02  1.29e-02  4.18e-02 1.005
## 101097 -4.99e-03 -2.72e-03  4.78e-03 -4.33e-03  8.83e-04  1.06e-02 1.004
## 94705   2.29e-02 -2.74e-02  2.91e-02  2.69e-02  3.81e-03 -9.30e-02 1.002
## 63329  -6.10e-04 -1.14e-02 -8.00e-03 -5.19e-03  7.56e-03  2.52e-02 1.003
## 33618  -5.03e-03  7.39e-03 -9.24e-03 -3.38e-03 -8.50e-04  1.76e-02 1.003
## 12319   7.15e-02  3.30e-02 -2.56e-02  6.98e-02 -1.48e-02 -1.79e-01 0.994
## 87229  -1.82e-03 -7.24e-03  3.33e-03 -5.43e-03  9.49e-04  1.77e-02 1.005
## 106063  1.49e-03 -6.65e-04  2.14e-03 -7.02e-04 -2.31e-03  6.53e-03 1.004
## 86630  -1.43e-03  6.29e-03  6.13e-03 -2.11e-03  2.93e-03  1.91e-02 1.003
## 67671   1.36e-03  2.53e-03  1.11e-03 -3.01e-03  1.26e-03  9.29e-03 1.004
## 2120    5.18e-04  8.47e-04 -7.26e-04  4.47e-04  5.73e-04 -3.73e-03 1.006
## 103826  1.21e-03  8.48e-03  2.59e-02  7.04e-03 -2.14e-02 -6.47e-02 0.996
## 86206  -3.92e-03 -2.94e-03  4.05e-03 -2.45e-03  2.68e-04  8.87e-03 1.003
## 68972  -2.16e-02 -1.80e-02 -1.33e-02 -6.33e-03  6.56e-02 -9.36e-02 0.998
## 44715   2.08e-03  3.33e-02  3.32e-02  1.37e-02  1.31e-02 -9.04e-02 0.997
## 70001  -1.51e-03  1.67e-03  1.09e-03 -5.56e-04 -3.62e-04  4.33e-03 1.004
## 78826  -3.03e-04 -2.59e-03  1.11e-03  6.14e-03  1.17e-04  7.41e-03 1.008
## 106799  1.39e-02  4.75e-03 -2.00e-02 -8.25e-03 -9.78e-03  5.28e-02 1.003
## 114249  3.64e-03 -9.46e-03  3.42e-02  1.26e-02  1.26e-02 -6.44e-02 0.998
## 74176  -2.10e-03  9.67e-03 -9.83e-03 -1.79e-04  1.65e-03  1.89e-02 1.003
## 77802  -4.94e-03  6.15e-03  1.36e-02  3.59e-03  9.13e-03 -4.92e-02 1.004
## 111899 -1.63e-03 -6.59e-03  4.94e-03 -1.55e-03  9.95e-04  1.07e-02 1.004
## 110056  2.33e-03  1.80e-03  5.52e-03  5.29e-03  2.49e-03  1.45e-02 1.003
## 59015  -5.18e-03  3.36e-02 -1.78e-02  1.19e-02  9.95e-03 -7.36e-02 1.000
## 107729  4.28e-03  1.14e-02  8.23e-03 -3.88e-04 -2.04e-02  4.12e-02 1.002
## 130432 -2.88e-03  7.06e-03  4.53e-03 -1.51e-03  1.79e-03  2.91e-02 1.004
## 67510  -7.33e-04  3.86e-03  2.05e-03  2.12e-03 -7.35e-05  1.09e-02 1.004
## 57365   1.46e-02 -1.86e-02 -7.81e-03  1.62e-02 -8.26e-03 -7.72e-02 1.000
## 9701   -2.10e-04  6.88e-03  5.62e-03 -8.93e-04  5.17e-03  2.70e-02 1.004
## 88921  -1.52e-02  3.86e-03  8.36e-03  2.73e-03  9.99e-03  2.58e-02 1.004
## 128346 -4.46e-03  7.01e-03  4.46e-03 -8.72e-04  1.83e-03  2.87e-02 1.004
## 90114  -1.94e-03  1.78e-03  1.29e-03 -1.07e-03 -8.56e-04  4.92e-03 1.004
## 31068  -5.40e-03  5.78e-03 -1.24e-02  4.47e-03  1.58e-02  3.17e-02 1.002
## 49681   1.12e-02 -5.08e-03  7.36e-03 -1.17e-03  1.49e-03  2.16e-02 1.003
## 59861   1.36e-03  8.83e-03  9.45e-03 -2.32e-03  1.54e-02  3.08e-02 1.003
## 70847   1.61e-03  3.07e-05  1.87e-03  1.25e-04 -1.61e-03  5.66e-03 1.004
## 103706  3.64e-03  1.18e-03  7.05e-06  1.48e-03  1.09e-03  1.06e-02 1.006
## 119914  4.39e-04 -2.49e-03  1.97e-03  1.86e-05 -4.80e-04  5.66e-03 1.004
## 8644   -1.46e-03 -3.87e-03 -4.56e-03 -6.80e-05 -3.34e-04  1.50e-02 1.005
## 76419  -2.93e-03 -5.91e-03 -8.00e-03 -5.55e-03 -3.29e-04  2.07e-02 1.004
## 38737  -7.49e-03 -7.38e-03 -1.01e-02 -4.60e-03  1.18e-02  3.06e-02 1.002
## 6891    1.41e-02 -1.79e-02 -1.64e-02 -3.69e-03 -1.09e-02  5.54e-02 1.004
## 22119   4.80e-03 -5.96e-03 -1.75e-02 -3.17e-03  2.77e-02  5.38e-02 1.006
## 51452   5.20e-03 -2.50e-02 -1.62e-02  1.55e-02  1.96e-03 -7.15e-02 0.995
## 63280  -2.74e-02  1.40e-02  1.14e-02  1.57e-02 -1.02e-02  7.02e-02 1.003
## 12354   1.42e-02  6.46e-03  3.56e-03  4.05e-03  8.32e-04  3.60e-02 1.006
## 99334  -1.93e-03  4.05e-03  3.27e-03 -6.51e-04  9.88e-05  9.20e-03 1.003
## 106612  1.99e-02  6.15e-03 -1.52e-02  6.26e-03  1.84e-03  2.95e-02 1.003
## 47404  -1.08e-02  1.31e-02 -1.21e-02 -9.02e-03  3.72e-03  2.91e-02 1.003
## 22802   1.93e-03  2.86e-03  7.42e-04  2.63e-02 -1.04e-03  2.93e-02 1.011
## 86200   2.44e-02 -3.42e-02 -2.66e-02  5.66e-03 -1.75e-02  1.10e-01 1.000
## 28445   1.25e-03  3.22e-03  1.08e-03  3.24e-03  2.29e-03  1.45e-02 1.005
## 47593  -9.07e-03  7.05e-03  3.70e-03 -7.23e-03 -1.68e-03  2.78e-02 1.004
## 80183  -2.30e-04 -1.17e-03  1.29e-03  3.12e-04 -4.72e-04  3.23e-03 1.003
## 104628 -1.82e-03  1.05e-02 -1.14e-02 -5.40e-03  5.21e-04  2.42e-02 1.004
## 129787  1.47e-02  2.04e-02 -2.31e-02 -3.78e-03  5.80e-02 -9.03e-02 0.998
## 19442   5.74e-03  8.90e-03  8.04e-03 -3.13e-03  4.21e-03  2.60e-02 1.002
## 130517 -3.70e-02  3.03e-02  2.54e-02  4.60e-03 -1.01e-02 -9.09e-02 0.999
## 67283  -1.61e-03  1.67e-02  2.70e-02  1.25e-02  4.57e-02 -7.17e-02 0.998
## 54983   1.86e-02 -1.42e-02 -9.14e-03  7.95e-03  1.63e-02 -6.80e-02 1.004
## 63073  -3.18e-02  1.03e-02  1.15e-02 -1.22e-02  1.61e-02 -5.37e-02 1.006
## 92366   3.55e-03 -4.88e-03 -7.65e-03  2.69e-04  1.14e-03  1.70e-02 1.003
## 78608  -9.18e-03 -8.06e-03 -1.60e-02  2.30e-02  1.24e-02 -8.77e-02 0.996
## 10242   2.06e-03 -4.96e-03  5.39e-03 -2.00e-03  3.80e-03  1.77e-02 1.005
## 82365  -9.03e-04  3.45e-03  1.09e-03  4.14e-03  5.44e-05  1.15e-02 1.004
## 14737   8.22e-03  3.07e-03  3.22e-03  1.32e-03 -4.09e-04  1.69e-02 1.004
## 66718  -4.59e-03  2.86e-02  3.39e-02  1.20e-02  9.15e-03 -8.51e-02 0.993
## 12353  -5.85e-03 -2.15e-03 -3.77e-03 -2.93e-03 -1.24e-03  1.62e-02 1.006
## 94023   1.09e-03  3.70e-03  3.05e-03  4.25e-03  1.01e-03  1.16e-02 1.004
## 107091 -1.73e-03  9.37e-03 -1.23e-02 -3.50e-03 -8.27e-04  2.50e-02 1.004
## 89960   7.97e-04  1.93e-03  5.59e-04  2.00e-04 -1.87e-04  6.69e-03 1.004
## 27394   1.14e-02 -1.53e-02 -1.10e-02  2.58e-03  8.34e-03 -5.84e-02 1.001
## 116294 -1.60e-03 -4.64e-03  4.34e-03 -3.06e-03  2.15e-04  1.10e-02 1.004
## 57136   6.71e-03 -2.62e-02 -2.17e-02  8.90e-03 -1.58e-02 -5.57e-02 0.994
## 84913   1.03e-02  3.95e-03  5.43e-03  2.76e-03  2.11e-03  1.72e-02 1.003
```

```
## 92117   1.90e-03 -4.99e-03  4.74e-03 -1.94e-04 -9.98e-04  1.10e-02 1.003
## 103226  1.06e-02 -7.00e-03 -1.48e-02  1.96e-03  1.16e-02 -6.44e-02 0.995
## 115950 -6.56e-05 -1.66e-03  8.44e-04  7.23e-04  1.85e-04  2.85e-03 1.004
## 21823  -3.74e-02 -2.40e-02  3.28e-02  8.22e-04  6.08e-02 -9.03e-02 1.001
## 79592   2.12e-03  2.59e-03  1.58e-03 -2.09e-03 -1.22e-04  7.97e-03 1.004
## 1147   -1.65e-04 -5.45e-04 -5.26e-04 -8.95e-04  5.13e-04 -3.43e-03 1.006
## 42865  -3.85e-02 -2.05e-02 -5.17e-03  1.06e-02 -7.38e-02 -1.47e-01 0.998
## 124357  1.27e-02  5.07e-03 -1.61e-02  1.26e-02 -6.83e-03 -6.43e-02 1.000
## 109406  1.11e-03 -7.56e-03  7.87e-03 -6.77e-04  2.74e-03  1.57e-02 1.003
## 82609  -3.19e-02 -2.98e-02  3.58e-02 -4.30e-03 -8.10e-03 -6.44e-02 0.996
## 82541  -8.68e-04 -3.26e-02  3.56e-02  1.99e-02 -5.78e-03 -6.58e-02 0.997
## 67797  -2.25e-03  3.91e-02  3.98e-02 -1.97e-02  5.40e-02 -1.16e-01 0.996
## 58345  -2.98e-03  3.70e-03  2.82e-03  2.45e-04  1.52e-05  8.83e-03 1.003
## 23255   3.71e-04  1.73e-03 -1.18e-02 -6.45e-03  3.71e-03  2.01e-02 1.002
## 43058   2.45e-05  6.42e-03  4.49e-03 -1.46e-03  1.54e-03  2.11e-02 1.004
## 82493  -8.45e-03 -1.64e-02 -1.28e-02 -2.80e-03  1.49e-02  5.13e-02 1.003
## 81547   2.10e-02  1.38e-02  1.20e-02  4.08e-03 -1.42e-02  6.37e-02 1.001
## 113005  1.59e-02 -2.81e-02  3.50e-02 -8.93e-03 -1.60e-02 -6.99e-02 0.996
## 48076  -6.73e-03 -7.87e-03  6.02e-03  6.99e-03  2.46e-03  1.69e-02 1.005
## 53892  -4.24e-03 -7.45e-03 -6.75e-03  4.35e-03  8.93e-04  1.68e-02 1.003
## 20394   2.84e-03  3.29e-02  2.21e-02 -7.08e-03 -1.20e-02 -6.88e-02 0.995
## 54438  -6.25e-04 -5.45e-03  4.51e-03  2.34e-04  5.45e-04  8.94e-03 1.003
## 53607  -4.28e-03 -2.73e-03  3.51e-03 -9.89e-04  5.01e-04  8.36e-03 1.003
## 78395   3.73e-03 -3.53e-03  1.38e-03 -2.44e-03  2.75e-03  1.93e-02 1.007
## 89215   2.48e-02 -2.39e-02  2.83e-02  1.42e-02 -7.26e-03 -6.46e-02 1.001
## 17515  -1.33e-03 -2.82e-03  3.25e-03  1.16e-04  2.97e-04  1.06e-02 1.004
## 66058  -1.09e-03 -4.03e-03  3.91e-03  1.81e-03  5.16e-04  8.03e-03 1.003
## 32227   3.25e-02 -3.01e-02 -1.80e-02  1.23e-02 -7.67e-03 -7.51e-02 0.992
## 36891   3.20e-02 -1.32e-02 -2.30e-02 -1.61e-02 -1.70e-02 -8.84e-02 0.994
## 101747  3.64e-04  6.60e-03 -7.90e-03 -1.39e-03 -7.40e-04  1.46e-02 1.004
## 48438  -3.03e-03 -3.53e-02  4.21e-02 -2.00e-02  7.14e-03 -7.95e-02 0.994
## 124781  1.27e-02  7.47e-03  7.92e-03 -1.52e-03  5.29e-03  2.99e-02 1.004
## 71365  -6.43e-03 -5.36e-03  4.46e-03  4.38e-03 -9.46e-04  2.35e-02 1.005
## 56926   1.08e-03 -6.94e-03  3.38e-03 -9.93e-04  1.66e-05  1.42e-02 1.005
## 38898  -9.72e-03  6.24e-03  5.00e-03 -2.13e-03  2.85e-03  1.65e-02 1.003
## 22849  -1.77e-03  1.38e-03  2.10e-03  1.28e-03 -5.57e-04  1.01e-02 1.004
## 80436   1.59e-02  1.72e-03  2.45e-02 -3.10e-02 -3.66e-02 -7.83e-02 0.997
## 67892   1.65e-02 -3.89e-02  3.90e-02  9.53e-03 -6.88e-03 -7.43e-02 0.994
## 24468   2.19e-02 -1.05e-02 -1.60e-02 -1.51e-02 -4.85e-03 -8.59e-02 0.992
## 12348  -6.08e-05  7.30e-04 -8.14e-04 -4.95e-04  5.74e-04 -3.50e-03 1.005
## 123782  5.25e-03 -6.63e-03 -1.00e-02 -5.80e-03  1.04e-03  2.65e-02 1.003
## 112780  1.10e-02 -4.43e-04  5.57e-03 -3.96e-03 -3.32e-03  2.78e-02 1.003
## 47550  -1.92e-02 -8.69e-03 -5.68e-03 -6.23e-03  5.55e-03  2.89e-02 1.004
## 50080  -4.79e-04  2.15e-03  1.45e-03 -1.51e-03 -6.64e-04  5.47e-03 1.003
## 30331   5.92e-03 -5.42e-03  3.56e-03  8.11e-04 -8.10e-04  1.40e-02 1.004
## 72720  -2.89e-02 -3.32e-02  3.97e-02 -7.99e-03  1.07e-02 -8.25e-02 0.995
## 92871  -9.00e-03  1.70e-02 -2.20e-02 -3.39e-03 -3.34e-02  5.35e-02 1.004
## 63361  -8.25e-02 -2.40e-02  3.89e-02 -9.21e-03  7.12e-03 -1.07e-01 1.000
## 122946  3.71e-03 -1.80e-03  8.28e-03  4.42e-03  1.10e-02  2.74e-02 1.003
## 101616 -1.32e-02  4.78e-02 -3.28e-02 -1.71e-02 -1.03e-02 -9.66e-02 0.994
## 103196 -9.26e-03 -2.13e-02 -1.69e-02 -3.91e-03 -2.64e-02  8.37e-02 1.003
## 73906  -2.82e-03  1.29e-03  2.04e-03  2.64e-03 -8.02e-04  9.61e-03 1.004
## 29797   3.01e-02 -2.73e-02 -2.16e-02  4.92e-03 -1.29e-02 -6.24e-02 0.993
## 52078  -1.74e-02  1.31e-02 -1.29e-02 -1.33e-03  3.64e-03  2.87e-02 1.003
## 76367  -3.39e-02  3.12e-02  2.48e-02 -2.20e-04  5.87e-02 -8.84e-02 1.000
## 33668  -1.51e-03  4.28e-03  2.39e-03 -1.03e-04  5.11e-04  1.20e-02 1.004
## 41915  -1.02e-02 -2.58e-02 -2.46e-02  1.64e-02 -2.44e-02 -7.19e-02 0.994
## 130327  2.23e-02 -1.78e-02 -1.27e-02  2.52e-03  1.43e-02  5.67e-02 1.004
## 76595   5.92e-03  4.82e-03  6.73e-03 -5.35e-03  4.67e-03  1.78e-02 1.003
## 65694  -1.49e-02  8.39e-03 -2.34e-02  6.63e-03 -4.99e-03 -5.72e-02 0.994
## 79930   7.97e-05  8.74e-04  1.59e-04  7.78e-03  7.60e-05  8.54e-03 1.011
## 106027  2.19e-02 -1.82e-02 -1.37e-02 -5.12e-04 -1.12e-03  4.89e-02 1.003
## 126193 -8.25e-03  4.71e-03  3.87e-03 -1.26e-03  1.36e-04  1.57e-02 1.004
## 92054  -4.39e-03 -5.75e-03 -8.45e-03 -4.09e-03  6.33e-03  2.10e-02 1.002
## 115717 -2.48e-02 -4.18e-03  3.32e-02 -6.44e-03 -4.44e-03 -7.05e-02 0.994
## 59935  -8.92e-03  1.26e-02 -1.27e-02 -1.75e-03  3.93e-03  2.38e-02 1.003
## 19908   1.04e-02 -2.24e-02  2.59e-02  2.59e-03  1.43e-02 -5.42e-02 1.001
## 22306   6.38e-04  4.38e-03  2.70e-03 -4.96e-05  4.63e-05  1.28e-02 1.004
## 11175  -2.07e-04  2.39e-03 -1.31e-03 -1.53e-03  7.52e-04 -5.68e-03 1.006
## 52277  -4.17e-02  2.82e-02 -2.04e-02 -2.36e-02  4.91e-02 -8.21e-02 0.999
## 56579  -1.96e-03 -4.40e-03  4.37e-03 -2.00e-03  1.36e-04  9.09e-03 1.003
## 64360  -2.12e-02  1.01e-02  1.09e-02 -5.05e-03  1.66e-02 -5.30e-02 1.005
## 46859   1.61e-02  1.38e-02 -1.65e-02 -3.50e-03  3.45e-03  3.29e-02 1.003
## 28988  -8.09e-03 -3.63e-03 -6.46e-03 -1.19e-03  7.62e-04  1.51e-02 1.003
## 129431  2.16e-02 -3.00e-02 -1.53e-02  2.87e-02 -1.78e-02 -1.09e-01 0.992
## 91879  -7.03e-03  5.34e-04  2.99e-03 -1.74e-03  1.52e-04  9.84e-03 1.004
## 89647  -5.93e-03 -1.39e-02  1.33e-02 -1.09e-02 -1.97e-02  3.84e-02 1.002
## 56483   1.36e-02 -8.22e-03  2.61e-02  3.12e-03  4.57e-02 -7.11e-02 1.000
## 70762   1.47e-04  2.50e-03  5.36e-03 -3.76e-04 -4.83e-03  2.26e-02 1.002
## 88155   1.11e-03  3.08e-03 -8.41e-03  8.84e-04  1.43e-03  1.72e-02 1.005
## 21281  -3.87e-03  6.69e-03  5.94e-03 -5.54e-04  7.57e-03  1.92e-02 1.003
## 106338  1.47e-02 -1.39e-02 -1.62e-02 -1.55e-02  4.71e-02 -7.50e-02 0.998
## 87288  -1.54e-02  1.58e-02 -1.88e-02  4.80e-04 -3.90e-02  5.61e-02 1.005
## 4946    2.23e-04  2.73e-04  1.40e-04 -1.78e-04 -8.21e-05  1.17e-03 1.005
## 105824  2.36e-02 -2.23e-02 -1.33e-02 -2.29e-02  4.47e-02 -8.31e-02 0.996
## 23697   2.43e-02  1.05e-02 -2.19e-02  1.85e-02  3.36e-02 -6.78e-02 0.998
## 28490  -7.28e-03  9.29e-03 -8.96e-03 -4.56e-04  1.28e-03  1.84e-02 1.003
## 69815  -7.66e-03 -1.65e-03 -1.84e-02 -2.69e-04 -1.94e-02  5.99e-02 1.004
## 105652 -1.92e-02 -9.49e-03  1.19e-02 -6.93e-03  1.33e-02  3.37e-02 1.005
## 117532 -8.83e-03 -6.73e-03  5.53e-03  2.92e-03 -1.87e-03  2.23e-02 1.004
## 52190   4.92e-02 -2.77e-02 -2.33e-02  1.64e-02 -2.28e-02 -8.11e-02 0.996
## 103954  1.19e-02  9.37e-03 -1.23e-02  4.65e-03 -9.26e-05  2.18e-02 1.003
## 97626   3.58e-03 -6.11e-03 -5.18e-03  5.14e-05 -2.32e-03  1.30e-02 1.004
## 7195   -8.79e-04  4.25e-03  2.54e-03  2.89e-05  2.83e-03  1.62e-02 1.005
## 121038  3.71e-04 -8.43e-03 -6.75e-03 -1.84e-04  1.13e-03  1.70e-02 1.003
## 130315 -2.98e-02  3.05e-02 -2.89e-02 -1.46e-02 -1.10e-02 -1.01e-01 0.996
## 103679 -5.44e-03  1.08e-02  6.03e-03 -9.45e-03  7.48e-03  3.61e-02 1.002
## 115867 -6.41e-03  1.63e-02 -2.35e-02  1.25e-02 -1.55e-02  6.21e-02 1.005
```

```
## 40171   1.48e-02 -1.08e-02  9.85e-03 -5.74e-03 -1.25e-02  4.77e-02 1.004
## 75108  -6.45e-03  7.28e-03  6.67e-03 -1.26e-02 -2.88e-04  3.40e-02 1.003
## 113622  1.44e-04 -5.23e-03 -5.71e-03 -1.93e-03 -1.59e-03  1.57e-02 1.005
## 125738  2.05e-02 -2.06e-02  9.37e-03  1.52e-03  3.06e-02  6.57e-02 1.005
## 55156  -5.37e-03 -1.16e-02 -1.65e-02 -8.57e-03 -7.19e-03  4.79e-02 1.004
## 73835  -2.63e-03 -1.60e-03  2.30e-03  1.59e-03  1.07e-04  9.70e-03 1.004
## 94729  -1.48e-03 -1.28e-02 -1.27e-02  8.75e-03 -6.23e-03  3.92e-02 1.005
## 32352   9.73e-03  1.04e-02 -1.26e-02 -2.41e-03 -1.53e-03  2.73e-02 1.004
## 75      1.33e-04 -1.41e-04  7.46e-05 -9.29e-06 -6.58e-05  3.99e-04 1.007
## 52326  -2.21e-02 -9.49e-03  2.94e-02 -1.47e-03 -7.39e-03 -6.99e-02 0.996
## 62898   1.17e-03 -6.93e-03  1.16e-02  3.14e-04  1.54e-02  2.84e-02 1.003
## 103358  8.67e-04  4.28e-03  3.29e-03  4.24e-04  1.05e-03  1.03e-02 1.003
## 23674  -7.95e-03  1.13e-02 -1.40e-02 -8.27e-03  2.37e-02 -6.61e-02 1.000
## 118202  5.40e-03  1.25e-02 -1.34e-02  1.06e-03  4.07e-03  2.60e-02 1.003
## 78728   1.48e-03 -1.23e-03  1.84e-03 -9.58e-05 -9.33e-04  4.93e-03 1.003
## 105325 -8.29e-04 -9.19e-03 -9.53e-03 -4.01e-04  3.69e-04  2.59e-02 1.004
## 69572   2.40e-03 -1.90e-03  1.49e-03  9.40e-04  1.69e-04  5.61e-03 1.004
## 35027   7.57e-04  3.18e-03  1.81e-02 -2.31e-02  2.15e-02 -5.70e-02 1.002
## 33907   1.51e-03 -2.02e-03 -1.98e-02 -1.17e-03  2.44e-02  5.57e-02 1.006
## 129912 -2.88e-03  2.91e-03  2.12e-03 -7.25e-04 -5.48e-04  9.97e-03 1.005
## 108858  4.70e-04 -2.68e-03 -8.32e-03 -3.15e-03  1.23e-03  1.60e-02 1.003
## 16481   4.21e-03  9.20e-03  7.29e-03  1.02e-02  6.68e-03  3.74e-02 1.004
## 17752  -4.03e-04  1.80e-03  2.26e-03 -9.91e-04  1.56e-04  1.24e-02 1.004
## 66940   3.78e-02 -2.66e-02 -2.67e-02  3.81e-03 -3.60e-02 -9.11e-02 0.996
## 19577  -3.36e-03  9.27e-03 -9.07e-03  9.62e-04  2.91e-04  1.86e-02 1.003
## 70798  -1.63e-02  1.49e-02 -1.87e-02 -3.90e-03 -1.08e-02  4.30e-02 1.004
## 122379 -1.45e-02  7.51e-04 -9.89e-03 -4.94e-03  6.23e-03  2.78e-02 1.004
## 58661   1.77e-02  4.04e-02 -3.06e-02 -1.18e-03 -2.49e-02 -8.76e-02 0.996
## 95979   3.91e-02  1.20e-04  2.98e-02  8.95e-03 -7.08e-03 -8.84e-02 0.998
## 69488   3.61e-02  4.81e-03 -2.11e-02 -1.61e-02  5.04e-02 -8.46e-02 0.998
## 56475  -3.75e-04  1.28e-02 -1.37e-02 -2.38e-03  3.74e-03  2.36e-02 1.002
## 30035   3.51e-03 -2.96e-02  4.91e-02 -5.25e-02  1.80e-02 -1.06e-01 0.999
## 66388   1.05e-02 -3.56e-03  6.99e-03 -1.30e-02 -1.83e-03  4.50e-02 1.003
## 43814  -4.70e-03  2.67e-02  2.90e-02 -2.25e-03 -4.56e-03 -6.67e-02 0.994
## 29186   7.29e-03  1.56e-02 -2.21e-02 -1.61e-03 -5.02e-03  4.13e-02 1.002
## 113368  4.46e-04 -1.57e-03  1.76e-03 -2.28e-04 -1.28e-03  4.70e-03 1.004
## 10794   7.07e-03 -1.19e-02 -8.06e-03  1.08e-03  1.37e-02  4.00e-02 1.005
## 37245  -4.40e-04 -1.60e-03  6.47e-03  1.18e-03  3.19e-03  1.17e-02 1.002
## 56694  -6.44e-03  4.50e-03  2.23e-03 -2.78e-03 -1.42e-02  2.07e-02 1.006
## 83658   9.87e-03 -7.93e-03  5.87e-03 -1.29e-03  6.43e-04  1.66e-02 1.004
## 44863  -7.08e-03  9.69e-03  3.88e-03 -1.37e-02 -1.08e-02  3.50e-02 1.004
## 32054   1.59e-03 -2.33e-03  4.87e-03 -1.66e-03  7.25e-04  1.03e-02 1.003
## 75497  -1.30e-03  2.13e-03  5.39e-04 -2.35e-03  5.54e-04  7.86e-03 1.005
## 50891  -1.30e-02 -2.17e-02  2.66e-02  1.04e-02  3.21e-02 -8.91e-02 1.004
## 112711 -2.33e-03  1.73e-03 -5.25e-03  2.12e-03 -2.91e-03  1.07e-02 1.004
## 69352   1.52e-02 -3.03e-02 -2.07e-02  5.02e-03  1.71e-02 -8.29e-02 0.990
## 3594   -1.26e-03  1.89e-03  9.18e-04 -1.35e-03  2.63e-04  8.20e-03 1.005
## 110338  4.98e-03 -3.04e-03 -8.45e-03 -6.41e-04  9.96e-04  1.70e-02 1.003
## 1301   -5.69e-02 -2.49e-02 -2.11e-02  9.48e-03 -2.31e-02 -1.24e-01 0.996
## 69817  -9.16e-03  5.47e-02 -3.30e-02 -2.20e-02  1.57e-03 -8.84e-02 0.992
## 5765    1.74e-02 -8.02e-03  3.93e-03  1.14e-03  4.05e-03  3.83e-02 1.007
## 17733   9.36e-03 -2.63e-02  2.82e-02  5.99e-04  3.99e-02 -8.32e-02 1.001
## 114442 -1.55e-02 -1.84e-02 -9.90e-03 -7.83e-03  3.80e-02  8.20e-02 1.003
## 65139  -4.41e-02 -2.65e-02  3.98e-02  5.86e-03  6.78e-02 -1.03e-01 1.000
## 15121  -1.84e-02  1.83e-02  1.24e-02 -7.72e-04  2.05e-02 -5.70e-02 1.004
## 99344  -1.22e-03 -2.01e-03  4.14e-03 -6.23e-04  1.03e-03  8.62e-03 1.003
## 110742 -1.09e-02  4.16e-02 -3.38e-02  7.33e-03 -5.68e-03 -7.22e-02 0.992
## 70855   3.37e-02  1.44e-02  1.35e-02  5.08e-03 -2.46e-02  7.39e-02 1.001
## 127344  1.56e-03 -5.08e-03  3.48e-03  6.78e-04 -8.92e-04  1.10e-02 1.005
## 97978   1.20e-02  1.28e-02  1.61e-02  2.16e-03  3.88e-02  6.92e-02 1.004
## 99749   7.51e-04 -7.29e-03  4.62e-03 -1.46e-03  2.12e-04  1.17e-02 1.004
## 7932    3.34e-02  2.74e-02  3.03e-02  3.35e-03  4.50e-02 -1.14e-01 1.000
## 45416  -1.51e-03  1.40e-03  8.43e-04  1.89e-05 -1.08e-04  3.85e-03 1.004
## 82720   3.95e-04 -1.11e-02 -7.84e-03  6.49e-03  4.87e-03  2.22e-02 1.003
## 78478  -4.96e-02  2.73e-02  2.53e-02 -1.94e-02 -1.34e-02 -7.55e-02 0.997
## 108918 -8.19e-04  5.44e-03  6.32e-03 -7.87e-03  3.25e-03  2.00e-02 1.003
## 126973  9.74e-03 -2.55e-02  1.78e-02 -4.68e-03 -3.61e-03  6.71e-02 1.004
## 40547  -1.56e-02  9.82e-03  2.04e-02 -4.46e-03 -3.42e-02 -7.29e-02 0.998
## 32703   3.95e-03 -1.87e-02  9.25e-03 -6.08e-03 -2.11e-02  6.19e-02 1.007
## 44187   6.77e-04  1.73e-04  2.49e-03 -2.33e-03 -1.23e-04  1.33e-02 1.004
## 57715   3.87e-02 -2.86e-02  3.65e-02 -3.78e-02 -2.39e-02 -1.00e-01 0.998
## 36556   2.14e-03 -3.35e-03  8.10e-03 -3.98e-03 -1.35e-02  4.53e-02 1.004
## 113490 -1.63e-03 -5.22e-04 -8.13e-03  9.56e-04  1.21e-03  1.46e-02 1.003
## 25344   1.13e-03 -6.37e-03 -8.32e-03 -1.96e-03  4.91e-03  2.41e-02 1.003
## 113945  4.02e-03 -1.73e-02  1.03e-02  1.43e-02 -7.85e-03  3.42e-02 1.003
## 116374 -1.34e-02 -5.22e-03 -9.02e-03 -6.85e-03  3.93e-03  2.27e-02 1.003
## 115588 -1.20e-03  1.35e-03  6.75e-04 -6.42e-05  3.19e-04  3.62e-03 1.004
## 25395   1.11e-02  1.44e-02 -3.01e-02  5.40e-03 -1.23e-02 -5.92e-02 0.993
## 332    -1.40e-02  9.61e-03  9.07e-03 -5.05e-03  2.29e-02  4.47e-02 1.007
## 20514   4.56e-03 -8.17e-03  6.86e-03  3.91e-03  1.37e-03  1.63e-02 1.003
## 6482    7.11e-03  6.47e-03  4.32e-03  5.30e-03  1.05e-02  3.08e-02 1.006
## 44551  -1.04e-02  7.12e-05 -6.74e-03 -4.21e-03  1.24e-04  1.67e-02 1.003
## 101484  5.60e-03 -2.59e-02 -1.85e-02  7.20e-03 -3.13e-02  1.03e-01 1.002
## 58809  -2.95e-03 -8.72e-03  4.97e-03 -4.17e-03  2.11e-03  2.19e-02 1.004
## 77865  -1.71e-03  6.84e-03  6.35e-03 -3.28e-03  6.37e-03  1.77e-02 1.003
## 78336   2.52e-02 -5.94e-04 -1.30e-02  8.50e-03 -5.10e-04  3.14e-02 1.004
## 77648   2.94e-03 -6.81e-03 -7.23e-03  3.85e-04  1.09e-03  1.72e-02 1.003
## 98559   7.89e-03  1.71e-02 -2.47e-02  4.07e-03 -8.93e-03  5.10e-02 1.002
## 84634   7.17e-04 -1.24e-03 -1.00e-02 -2.49e-03  1.49e-03  1.83e-02 1.003
## 51801   4.16e-03  1.42e-03  2.86e-03 -9.94e-04 -1.65e-03  1.44e-02 1.004
## 10318   2.78e-03  5.41e-03  9.62e-04  3.50e-03 -6.70e-03  3.16e-02 1.006
## 49215   2.42e-02 -3.11e-02 -2.12e-02  1.41e-02  1.55e-02 -8.49e-02 0.990
## 28880  -4.80e-03  6.91e-03  4.22e-03  1.53e-04 -7.23e-04  2.04e-02 1.003
## 45623   3.59e-02  1.48e-02  1.22e-02 -4.59e-03 -1.85e-02  7.85e-02 1.001
## 25262  -1.72e-03  9.09e-03  8.75e-03 -2.13e-03  1.17e-02  2.52e-02 1.003
## 92162   2.44e-03  2.13e-02 -2.61e-02  5.06e-03 -3.11e-02  6.80e-02 1.001
## 6608    1.15e-02  4.32e-04 -1.03e-02 -7.48e-04  5.55e-04  3.29e-02 1.005
## 96468  -4.22e-04 -7.26e-03  4.19e-03 -2.73e-03  1.36e-03  1.30e-02 1.004
```

```
## 80451   3.55e-03  4.18e-03  2.85e-03 -1.51e-03  6.38e-04  1.13e-02 1.003
## 108732 -1.22e-02  9.67e-03  2.44e-03  7.50e-03  7.03e-03  4.05e-02 1.004
## 113813  1.40e-02  7.41e-03 -1.36e-02 -1.71e-03 -3.01e-03  3.07e-02 1.004
## 13108  -1.05e-02  5.20e-03  2.75e-03 -9.21e-03 -1.20e-03  2.44e-02 1.007
## 41332   1.86e-02 -1.43e-02  3.90e-02 -2.42e-03 -5.27e-03 -6.53e-02 0.994
## 76628  -4.49e-04 -7.65e-03  5.26e-03 -4.29e-03  9.25e-04  1.26e-02 1.004
## 52506  -7.76e-03  6.56e-03 -8.58e-03  1.22e-03 -8.47e-04  1.80e-02 1.004
## 106445  3.53e-03  2.66e-03  1.95e-03 -1.43e-03 -1.34e-03  8.81e-03 1.004
## 100109  2.02e-03 -5.87e-03  7.21e-03 -3.50e-04 -9.71e-03  2.38e-02 1.002
## 26162  -9.35e-04 -8.28e-03 -6.07e-03  2.25e-05 -1.60e-03  1.72e-02 1.003
## 41842  -8.69e-03 -3.45e-03 -5.65e-03  9.35e-04 -9.67e-04  1.67e-02 1.004
## 93985  -1.40e-02 -1.74e-02 -2.37e-02 -8.61e-03 -1.54e-02  1.02e-01 1.000
## 114791 -8.97e-04  2.20e-02  3.88e-02 -1.34e-02  1.25e-02 -9.92e-02 0.997
## 46187   8.55e-03 -1.45e-02  1.22e-02 -2.15e-03  5.07e-03  2.95e-02 1.003
## 63897  -2.29e-03  6.12e-03 -9.31e-03 -3.39e-03  4.41e-03  2.20e-02 1.006
## 105995  4.44e-03  5.15e-03 -1.11e-02  3.20e-03  7.89e-04  1.77e-02 1.003
## 93835  -1.28e-02 -9.71e-03 -6.32e-03 -5.11e-03  5.12e-03  2.61e-02 1.003
## 85371  -3.03e-02  4.22e-02 -3.31e-02  9.83e-03 -2.40e-02 -7.88e-02 0.997
## 29447   3.33e-04 -6.56e-03 -6.84e-03 -2.09e-03  7.73e-04  1.64e-02 1.003
## 9703    3.60e-03  1.99e-03  7.70e-04  2.00e-03 -8.17e-04  9.76e-03 1.006
## 51876  -1.55e-02 -4.25e-04  8.51e-03 -4.07e-03  9.61e-03  3.03e-02 1.004
## 39531  -2.27e-02 -9.07e-03 -1.22e-02 -5.57e-04  2.70e-02  6.82e-02 1.002
## 33207   9.42e-03  6.53e-03  6.10e-03  1.23e-04  4.66e-03  1.93e-02 1.003
## 84304  -2.23e-02  3.63e-02 -2.30e-02  4.13e-03 -8.44e-03 -8.75e-02 0.993
## 45817   4.05e-02 -2.00e-02 -1.44e-02  1.93e-02  3.14e-03 -7.10e-02 0.999
## 126640 -8.47e-03  1.01e-02  1.02e-02 -2.40e-03  1.30e-02  3.40e-02 1.003
## 34191  -8.34e-03 -2.55e-03  7.65e-03 -7.75e-04 -1.21e-02  4.27e-02 1.004
## 108462  2.20e-03  2.30e-03  1.70e-03 -1.61e-05 -1.36e-03  7.24e-03 1.004
## 107826  2.32e-02 -1.53e-02 -1.16e-02 -3.14e-03  3.82e-02 -7.90e-02 0.998
## 27928   4.92e-03  6.15e-03  3.80e-03  3.20e-03  1.49e-03  1.99e-02 1.003
## 62903   1.60e-03  6.27e-03 -7.69e-03 -1.14e-04 -2.16e-03  1.33e-02 1.004
## 128542  9.68e-03 -1.70e-02  1.53e-02 -1.42e-02 -2.64e-03  8.48e-02 1.002
## 80683  -2.16e-03  4.00e-03  3.17e-03 -2.02e-03 -3.44e-04  1.06e-02 1.003
## 17698   1.42e-02  3.10e-02 -3.32e-02 -2.14e-03 -1.22e-02 -6.68e-02 0.993
## 81464  -1.13e-02 -1.18e-02  1.43e-02 -3.15e-03 -9.65e-03  4.15e-02 1.001
## 118643 -1.05e-02  7.45e-03  1.94e-02  3.61e-03 -5.56e-04 -6.69e-02 1.000
## 93411   1.48e-02 -4.69e-03  6.53e-03 -2.24e-03  1.85e-03  2.53e-02 1.004
## 99867   2.39e-03  1.53e-03  3.77e-03 -2.76e-04  6.13e-04  8.87e-03 1.003
## 44925   5.13e-03 -6.51e-03  4.07e-03 -2.48e-03 -1.36e-02  2.77e-02 1.005
## 128142 -6.24e-03  3.98e-03 -9.57e-03 -2.86e-03  1.05e-04  2.20e-02 1.003
## 83712   2.04e-02 -2.44e-02  3.02e-02  1.27e-02  7.69e-03 -6.96e-02 1.002
## 14739  -5.33e-03 -5.39e-03 -5.83e-03  4.90e-03 -9.42e-04  1.60e-02 1.004
## 90599  -9.88e-03 -1.55e-02  1.02e-02 -1.50e-02 -2.11e-03  4.25e-02 1.005
## 116481  7.00e-03  3.86e-02 -3.32e-02 -7.94e-02 -3.98e-02 -1.21e-01 0.997
## 76811   1.30e-02 -7.65e-03 -6.48e-03  3.29e-03 -2.62e-03  1.92e-02 1.005
## 12077  -1.04e-02 -9.31e-03 -1.46e-02 -1.71e-02 -1.38e-02  6.06e-02 1.007
## 176     4.15e-03  6.97e-03 -8.26e-03  7.57e-04  8.92e-04  2.12e-02 1.005
## 6980    1.28e-02  6.56e-03  5.66e-03  5.05e-03  7.80e-03  3.23e-02 1.005
## 117138 -9.97e-03 -1.97e-03 -6.62e-03 -5.19e-03 -9.57e-04  1.89e-02 1.004
## 60074   1.85e-02  4.13e-02 -2.63e-02  3.09e-02  1.91e-02 -1.12e-01 0.999
## 114618 -2.04e-03 -2.53e-02  3.64e-02 -5.40e-03 -1.68e-02 -7.62e-02 1.000
## 118359 -2.33e-02  2.83e-02 -3.03e-02  7.62e-03 -3.09e-02 -9.99e-02 0.995
## 76596  -5.38e-04 -1.96e-02 -1.55e-02  1.65e-03 -3.30e-02  5.26e-02 1.002
## 49912  -1.28e-02 -3.63e-02  3.85e-02  4.39e-03 -5.36e-03 -7.46e-02 0.995
## 48415  -2.18e-03  3.82e-03  9.45e-03 -2.79e-03  9.22e-03  2.36e-02 1.002
## 34280   6.30e-03 -2.15e-02 -1.15e-02  2.68e-03  5.64e-03 -6.59e-02 0.996
## 99941   7.09e-05  5.84e-04  8.82e-04  1.52e-04  6.60e-04  5.08e-03 1.004
## 109625 -4.48e-02 -1.68e-02 -1.10e-02 -1.94e-02  4.84e-02 -8.30e-02 0.997
## 79744  -9.01e-03  6.25e-03  3.70e-03  4.18e-04  2.63e-03  1.80e-02 1.004
## 80501   9.95e-04 -5.84e-03  4.74e-03  3.60e-04  4.72e-04  9.52e-03 1.003
## 1954   -1.03e-02 -1.26e-02 -8.12e-03 -9.10e-04  2.40e-02  5.30e-02 1.005
## 86304   2.23e-03 -3.96e-03  2.29e-03 -1.53e-03 -2.58e-03  8.84e-03 1.005
## 25030  -2.36e-03  1.65e-03  1.08e-03 -1.19e-03 -2.33e-04  4.57e-03 1.004
## 5591   -2.17e-02  3.35e-02  3.28e-02  9.67e-03 -6.92e-03 -1.12e-01 0.996
## 29288  -4.43e-03 -1.57e-03  3.33e-03  1.01e-04  2.56e-05  8.18e-03 1.003
## 45347  -1.51e-03  1.51e-03  8.21e-04 -2.95e-04 -1.33e-03  4.92e-03 1.005
## 128870 -7.09e-03  4.57e-03  3.36e-03 -5.55e-04  1.08e-03  1.48e-02 1.004
## 128006 -1.49e-03 -6.46e-03  5.50e-03 -6.76e-04  7.76e-04  1.85e-02 1.005
## 23062   1.37e-02 -1.95e-02 -8.64e-03  1.69e-02  1.11e-02 -7.78e-02 1.001
## 86712   3.65e-02 -2.05e-02  3.70e-02  1.97e-02  3.35e-03 -8.34e-02 0.997
## 113314 -9.70e-03 -2.46e-02  3.38e-02 -1.01e-02  6.17e-03 -7.75e-02 1.001
## 34036  -2.94e-03  4.30e-03  2.41e-03 -2.00e-03  1.08e-03  1.10e-02 1.003
## 93097   1.01e-02 -1.43e-02 -5.42e-03 -2.75e-02 -1.38e-02 -1.12e-01 0.997
## 129508  3.33e-05 -3.87e-03  2.21e-03 -1.49e-04  1.58e-03  9.80e-03 1.005
## 94719   5.45e-03 -2.41e-03 -7.28e-03  2.20e-03  8.76e-04  1.56e-02 1.004
## 119958 -2.96e-03 -4.19e-03 -8.40e-03 -5.15e-03 -1.81e-03  2.09e-02 1.004
## 35914   4.15e-03  4.09e-03  3.58e-03  6.85e-04 -1.08e-03  1.22e-02 1.003
## 89085   1.38e-02 -1.06e-02 -9.51e-03  2.12e-03  3.77e-03  2.73e-02 1.003
## 74798   8.27e-03  9.77e-03  4.54e-03  1.07e-03  1.21e-02  4.09e-02 1.003
## 44114   2.26e-02 -2.92e-02 -2.59e-02  1.85e-02  8.82e-03 -8.63e-02 0.992
## 94071   4.92e-02  1.00e-02 -1.89e-02  3.98e-02  1.01e-02 -1.14e-01 0.996
## 86245   3.54e-02  2.73e-02 -3.69e-02  5.87e-03 -2.76e-02  1.09e-01 0.999
## 97174  -8.76e-04  6.51e-03  4.37e-03 -3.45e-03  7.70e-04  1.93e-02 1.003
## 70565   2.61e-02 -1.69e-02 -1.35e-02  1.14e-02  1.44e-02 -6.35e-02 1.001
## 15670  -3.81e-03 -1.11e-02 -8.23e-03 -5.13e-03  6.52e-03  2.49e-02 1.003
## 78249  -2.77e-02 -1.92e-02  4.14e-02  1.00e-02  1.40e-02 -9.33e-02 0.996
## 113311 -3.17e-03  6.99e-03  5.20e-03 -6.26e-04  3.52e-03  1.76e-02 1.003
## 65179   1.68e-02 -1.93e-03 -9.38e-03  1.40e-02  2.24e-02 -1.28e-01 0.998
## 58540  -4.05e-03 -2.26e-04 -4.87e-03 -2.30e-03 -3.58e-03  1.21e-02 1.004
## 31852   6.98e-04  1.76e-03  6.39e-04  9.29e-04 -6.04e-04  5.98e-03 1.004
## 101845 -3.29e-03 -1.74e-03  3.04e-03 -2.52e-03 -7.12e-04  1.18e-02 1.004
## 61139  -1.41e-02 -2.29e-02 -2.31e-02  5.68e-03 -3.51e-02 -7.31e-02 0.996
## 59620   1.06e-02 -7.39e-03 -9.96e-03  1.93e-03  4.78e-03  2.35e-02 1.002
## 101751 -1.52e-02  1.75e-02 -1.59e-02  6.02e-04  2.04e-02  5.33e-02 1.005
## 37373  -4.39e-03 -5.52e-03 -1.58e-02 -1.04e-03 -2.83e-02  4.03e-02 1.003
## 53809   1.19e-02  6.36e-03  5.38e-03  1.10e-03  2.49e-03  1.94e-02 1.003
## 66051  -1.91e-02  1.07e-02  7.11e-03 -1.04e-02 -1.63e-03  3.81e-02 1.003
## 115489 -1.33e-03 -8.87e-03  8.31e-03 -1.52e-03  4.21e-03  1.56e-02 1.003
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## 57972  -4.95e-03 -3.09e-03  6.67e-03  2.84e-04  2.33e-03  1.58e-02 1.003
## 97718   2.53e-04 -6.75e-04  3.23e-04  1.19e-03  2.41e-05  1.73e-03 1.005
## 38729  -1.81e-02 -1.51e-02 -1.11e-02  2.37e-03  9.09e-03 -5.54e-02 1.000
## 82935   3.90e-03  6.73e-04  7.85e-03  9.67e-04  7.73e-03  2.65e-02 1.003
## 524    -1.38e-02  7.75e-03  5.83e-03 -4.45e-03  9.45e-03  3.36e-02 1.007
## 129381  4.08e-02  2.26e-02  2.33e-02 -2.30e-02 -2.03e-02 -9.17e-02 0.997
## 120363  5.63e-03 -3.77e-03 -6.21e-03 -1.43e-03 -2.15e-03  1.50e-02 1.004
## 107168  4.38e-03  3.43e-03 -9.35e-03 -3.62e-04  1.34e-03  1.82e-02 1.003
## 41876  -1.93e-03  4.89e-04  4.03e-03 -3.62e-03  9.01e-04  8.61e-03 1.003
## 69679   2.03e-02 -3.13e-02  2.88e-02  1.14e-02 -1.97e-02 -6.90e-02 0.998
## 45146  -5.03e-04 -1.41e-03  1.58e-03 -1.08e-03 -1.63e-04  4.06e-03 1.003
## 123089 -7.02e-03  4.59e-03  5.95e-03 -4.17e-03  3.29e-03  1.57e-02 1.003
## 107372  3.32e-03 -9.41e-03 -7.09e-03 -3.19e-03 -1.64e-03  2.05e-02 1.003
## 120407 -8.56e-03 -5.96e-03 -1.06e-02 -1.65e-03  1.79e-02  3.91e-02 1.003
## 69274  -2.95e-03 -1.08e-02  8.44e-03 -2.81e-03  3.52e-03  1.64e-02 1.003
## 111976 -4.32e-03  2.65e-03  3.04e-03  9.01e-04  1.15e-03  9.60e-03 1.004
## 120824  8.31e-03 -2.65e-03 -7.92e-03 -1.87e-03  1.48e-04  1.93e-02 1.004
## 120379 -2.55e-02  6.66e-03 -2.37e-02 -1.13e-02 -1.49e-02 -7.11e-02 0.997
## 20876  -5.45e-03  1.20e-02  1.26e-02 -5.64e-03  2.50e-02  4.39e-02 1.003
## 69542   1.96e-03  1.30e-02 -1.87e-02 -1.99e-03 -3.88e-03  4.08e-02 1.004
## 71884  -1.61e-02 -8.42e-03  6.24e-03 -8.74e-03 -5.82e-03  3.53e-02 1.005
## 42772   1.29e-03  1.11e-02  2.32e-03 -1.11e-02  1.69e-02  5.39e-02 1.004
## 15578  -5.29e-04 -3.25e-02  3.64e-02  3.75e-03 -8.09e-03 -5.71e-02 0.996
## 3385    4.47e-03  1.87e-03  1.17e-03  3.38e-03 -3.28e-04  9.70e-03 1.005
## 89335  -5.87e-03  8.83e-03 -9.63e-03 -8.93e-04 -7.58e-04  1.88e-02 1.003
## 67272  -9.65e-04  6.28e-03 -7.01e-03 -1.64e-03 -4.25e-03  1.45e-02 1.004
## 69627   1.76e-02  5.23e-03 -1.54e-02  1.45e-02 -7.45e-03 -7.25e-02 1.002
## 67879  -8.26e-03 -5.33e-03 -5.92e-03 -4.22e-03  1.73e-03  1.78e-02 1.003
## 107731  1.43e-02 -1.61e-02  1.03e-02  6.01e-03 -2.97e-02  4.15e-02 1.004
## 73418  -3.66e-03  2.27e-02  1.66e-02 -2.44e-02  1.50e-02 -6.82e-02 1.003
## 116728  9.63e-03  6.04e-03  3.16e-03  1.20e-04 -1.34e-02  2.58e-02 1.004
## 29210  -1.05e-02 -6.74e-03 -5.03e-03 -4.79e-03  7.30e-04  1.86e-02 1.004
## 99361   6.58e-04  4.30e-03  3.11e-03 -5.48e-04  7.70e-04  9.09e-03 1.003
## 20516   1.49e-02  5.06e-03 -2.53e-02  2.35e-02 -6.60e-03 -6.35e-02 0.996
## 93510  -5.68e-04 -1.90e-03 -3.45e-03  6.49e-03 -2.09e-04  9.40e-03 1.005
## 53528  -3.02e-02  1.31e-02  9.82e-03  3.21e-03 -1.25e-02  5.13e-02 1.003
## 102440  1.91e-03 -8.73e-03 -8.04e-03 -1.43e-03  8.77e-03  2.50e-02 1.003
## 52761  -1.59e-02 -2.00e-02 -2.26e-02 -7.28e-04 -4.22e-02 -8.21e-02 0.999
## 98556  -3.30e-02 -2.66e-02 -1.17e-02  1.97e-03  3.26e-04 -8.89e-02 0.993
## 125302  3.73e-02  3.82e-03 -3.28e-02  6.44e-03 -2.08e-02 -8.85e-02 0.995
## 69063   5.89e-03  4.79e-03  3.17e-03 -2.31e-03  8.24e-04  1.38e-02 1.003
## 106885 -5.81e-03 -4.35e-03  3.61e-03  7.05e-03  1.54e-02  3.18e-02 1.006
## 111797  3.85e-04 -6.39e-03 -6.98e-03  1.95e-03  1.07e-03  1.60e-02 1.003
## 84297   8.85e-03 -3.83e-03  3.64e-03  1.71e-02  5.51e-03  3.02e-02 1.004
## 122740 -1.03e-03 -7.57e-03  3.18e-03  2.49e-04  2.08e-04  1.85e-02 1.006
## 129021 -2.02e-02  2.06e-03  9.36e-03 -6.42e-04  1.12e-02  4.04e-02 1.006
## 27582  -1.09e-02 -5.10e-03 -8.28e-03 -5.30e-03  6.35e-03  2.20e-02 1.003
## 12148   2.40e-02  1.68e-02 -2.47e-02  1.71e-03 -1.59e-02  6.69e-02 1.004
## 5726   -5.67e-04  6.60e-03  5.58e-03  9.76e-04  6.92e-03  2.63e-02 1.005
## 43123   2.47e-03 -1.23e-02 -8.27e-03 -2.89e-03  2.56e-03  2.66e-02 1.003
## 48158   1.57e-02 -8.58e-03  5.40e-03 -1.60e-03 -2.13e-03  2.35e-02 1.005
## 5838    1.85e-03  2.45e-03  1.33e-03 -1.05e-03 -5.77e-04  1.02e-02 1.005
## 126070  3.48e-03  2.70e-04  4.61e-03 -2.15e-03 -2.26e-03  2.01e-02 1.004
## 37670  -2.80e-03 -7.96e-03 -6.83e-03  1.95e-03  2.54e-04  1.63e-02 1.003
## 112431  1.31e-02 -1.02e-02 -9.45e-03  8.11e-03  5.14e-03  2.59e-02 1.003
## 22330  -5.77e-04 -3.98e-03  6.37e-03 -2.14e-03  1.24e-03  1.57e-02 1.003
## 1465   -2.46e-03 -4.55e-03  2.32e-03 -6.20e-03  2.21e-02  3.66e-02 1.012
## 109904  1.33e-02 -1.28e-02  9.32e-03  3.38e-03  6.07e-03  2.50e-02 1.004
## 94666   1.25e-02  6.43e-03  5.79e-03  1.23e-03  3.73e-03  2.03e-02 1.003
## 42041  -2.89e-03 -8.19e-03  7.84e-03  1.11e-03  4.02e-03  1.59e-02 1.003
## 101474  9.81e-03  6.01e-03  5.47e-03  2.82e-03  2.57e-03  1.92e-02 1.003
## 118808 -1.65e-02  1.77e-02  1.46e-02  5.12e-03 -2.37e-02  8.35e-02 1.003
## 41667   1.54e-02  3.98e-03  3.24e-03  4.67e-03 -7.13e-04  1.89e-02 1.004
## 114848 -6.27e-03 -1.23e-03 -9.40e-03  2.68e-02  2.05e-03  3.26e-02 1.006
## 53803  -4.39e-03  4.51e-02 -2.98e-02 -1.75e-02 -3.39e-03 -7.55e-02 0.992
## 79169   3.85e-02 -1.98e-02 -1.67e-02  1.96e-02  2.79e-02 -7.47e-02 1.000
## 25096   6.02e-03 -1.95e-03  2.93e-03  2.02e-02  1.20e-03  2.37e-02 1.006
## 36259  -7.18e-03 -4.77e-03 -1.59e-02  1.06e-02  2.07e-02  4.56e-02 1.005
## 67874  -7.71e-03 -7.01e-03 -5.62e-03 -1.61e-03  1.54e-03  1.74e-02 1.003
## 74641   1.34e-02  4.66e-03  1.98e-03  1.83e-03 -5.02e-04  2.09e-02 1.005
## 58106   2.08e-03 -1.16e-03  3.92e-03  1.51e-03  4.75e-04  8.22e-03 1.003
## 69983   1.98e-02  3.40e-03  4.26e-02 -3.73e-02  3.88e-03 -1.03e-01 0.997
## 28623   6.65e-03  1.35e-02 -1.79e-02 -7.33e-03 -1.34e-03  3.59e-02 1.003
## 39798  -1.27e-03  9.12e-03 -1.94e-02 -3.44e-03 -1.91e-02  3.93e-02 1.002
## 60494  -2.97e-03  4.31e-03  2.95e-03 -2.19e-03  9.95e-04  9.12e-03 1.003
## 122449  1.06e-03 -1.54e-02  1.24e-02 -1.34e-04  8.16e-03  2.66e-02 1.003
## 105979  2.38e-03  4.67e-03  6.29e-03 -9.98e-04  5.48e-03  1.60e-02 1.003
## 101382 -2.53e-04 -2.89e-02 -1.96e-02  1.87e-02  1.60e-02 -9.85e-02 0.993
## 91115   4.23e-03  4.40e-03  3.19e-03 -1.89e-03  4.56e-04  1.11e-02 1.003
## 54206  -1.28e-02  7.80e-04  4.53e-03 -7.24e-03 -9.73e-03  2.32e-02 1.004
## 16348  -1.96e-02 -1.17e-02  1.63e-02 -1.30e-02 -8.19e-04  5.39e-02 1.004
## 56760   2.90e-02 -2.12e-02 -2.10e-02 -5.22e-04 -1.66e-02  6.32e-02 1.001
## 76190   2.32e-03 -2.83e-02  3.96e-02 -6.94e-03  1.27e-02 -6.94e-02 0.998
## 98374  -3.35e-04 -4.69e-04 -1.12e-02 -4.80e-03  3.59e-03  2.78e-02 1.003
## 40809  -8.28e-04  3.03e-03  1.40e-03  5.03e-03 -5.81e-04  1.04e-02 1.004
## 19230   1.02e-03 -5.90e-03  4.92e-03 -1.83e-04  6.23e-04  1.00e-02 1.003
## 68267   2.90e-02 -8.58e-03 -1.75e-02  1.66e-02  6.34e-02 -1.04e-01 0.995
## 46236   2.36e-02  3.25e-04 -1.26e-02 -6.48e-04  4.02e-03  3.41e-02 1.003
## 91426  -3.70e-03 -6.01e-03  4.98e-03 -2.61e-03  4.10e-05  1.07e-02 1.004
## 60983   9.10e-04  2.22e-03  1.31e-03 -1.78e-03  1.72e-05  6.07e-03 1.003
## 38315  -1.03e-02  2.11e-02  2.24e-02 -3.00e-03  3.32e-02 -6.01e-02 0.999
## 84892   3.83e-04  6.91e-04  1.39e-03 -1.14e-04 -4.07e-04  4.54e-03 1.003
## 26598  -4.08e-02  1.68e-02 -2.31e-02  3.86e-03 -2.12e-03 -6.75e-02 0.995
## 23361  -1.25e-03 -5.40e-03  3.45e-03  1.72e-03 -9.01e-04  1.05e-02 1.004
## 27231  -4.49e-03 -3.30e-02  3.41e-02  9.47e-03 -1.40e-02 -5.93e-02 0.996
## 11120   3.02e-02 -3.54e-02 -2.08e-02  3.54e-02  1.41e-02 -1.35e-01 0.990
## 77638  -3.28e-04 -5.76e-03  4.03e-03 -3.34e-03 -6.44e-04  1.29e-02 1.004
## 60967  -7.22e-04  1.23e-03  5.94e-04  7.78e-04 -9.49e-04  4.08e-03 1.004
```

```
## 118699 -2.14e-03  1.82e-03  1.36e-03 -1.18e-03 -8.37e-04  5.34e-03 1.004
## 58321   8.78e-03  1.91e-02  3.29e-02  1.10e-02  1.79e-02 -8.46e-02 0.992
## 45287   3.80e-04  1.69e-03  1.25e-03  9.64e-04 -1.39e-03  5.04e-03 1.004
## 51312   4.24e-04 -1.09e-04  2.88e-03  3.88e-03 -4.66e-04  8.96e-03 1.003
## 105368 -4.06e-03 -6.22e-03  6.86e-03 -3.60e-03  3.30e-03  1.83e-02 1.004
## 78335   1.36e-03 -2.71e-03 -7.62e-03  1.10e-05  4.16e-04  1.51e-02 1.003
## 46290   3.04e-02 -2.42e-02  1.01e-02  1.53e-03 -1.24e-02  5.46e-02 1.004
## 94551  -6.25e-05  3.23e-03 -9.39e-03 -3.36e-03 -5.33e-04  1.57e-02 1.003
## 73359   3.17e-03 -1.63e-02 -1.67e-02 -2.83e-03 -2.78e-02  5.12e-02 1.002
## 38257  -3.32e-02  2.19e-02 -2.66e-02 -2.63e-03 -1.33e-02 -6.52e-02 0.996
## 30543   3.14e-03 -1.43e-02  9.23e-03  2.49e-04 -1.63e-02  2.93e-02 1.003
## 102039  1.73e-03  3.05e-03 -4.74e-04  2.72e-02  1.64e-02  3.88e-02 1.014
## 66143   4.54e-03 -3.60e-03  3.90e-03  1.09e-03  1.11e-04  1.35e-02 1.004
## 83233  -1.30e-03 -1.16e-03  9.69e-04 -2.83e-04 -1.93e-04  2.63e-03 1.004
## 123757  2.12e-02 -1.11e-02  8.47e-03  2.39e-03  1.14e-03  3.74e-02 1.005
## 114460  1.39e-03 -2.86e-03 -8.12e-03  8.21e-04  2.85e-04  1.38e-02 1.003
## 103981  4.37e-03  9.49e-03 -1.13e-02 -2.77e-03 -1.57e-03  2.18e-02 1.003
## 9092    3.40e-02  4.06e-02 -1.82e-02  3.41e-02 -1.68e-02 -1.30e-01 0.999
## 77966   5.72e-03  6.13e-03  4.73e-03 -1.35e-03  1.35e-03  2.05e-02 1.003
## 55937  -1.31e-03 -1.38e-02  1.07e-02  1.93e-03 -7.03e-03  3.13e-02 1.002
## 24185  -5.61e-03  6.53e-03  3.26e-03  3.29e-03  2.04e-03  1.95e-02 1.004
## 125223  9.25e-05 -1.35e-03  5.96e-03 -3.83e-03  9.08e-05  1.54e-02 1.003
## 53785  -2.23e-02 -2.93e-02  2.83e-02 -2.62e-03 -3.55e-02 -8.06e-02 0.999
## 117988 -1.23e-02 -2.01e-02 -1.29e-02 -7.01e-03  4.83e-02 -7.38e-02 0.997
## 116965 -1.45e-03  4.44e-03  3.30e-02  8.63e-03  6.80e-03 -6.49e-02 0.998
## 81767  -1.04e-02 -5.83e-04  7.08e-03 -6.84e-03  4.43e-03  1.63e-02 1.003
## 1262   -4.53e-03 -1.33e-02  9.91e-03  8.09e-03 -2.42e-02  4.70e-02 1.006
## 71062  -1.61e-02 -3.54e-03  3.32e-02  3.52e-03  6.44e-03 -6.43e-02 0.994
## 21742   5.07e-03 -5.58e-03  4.87e-03  1.03e-04  5.05e-04  1.12e-02 1.003
## 104481 -3.82e-03 -9.96e-03 -1.09e-02 -1.96e-02  2.34e-02 -8.53e-02 1.004
## 80837   3.48e-03  1.50e-03  3.81e-03 -3.59e-03  5.37e-04  1.06e-02 1.003
## 103788  1.98e-02 -3.44e-02 -1.61e-02  2.07e-02  1.29e-02 -1.08e-01 0.991
## 71885  -1.55e-02  2.92e-02  3.26e-02  1.06e-02  1.58e-02 -8.49e-02 0.993
## 46300  -5.80e-03 -8.34e-04 -9.99e-03  1.16e-02  4.22e-03  2.16e-02 1.003
## 63462   2.94e-04  5.75e-04 -2.20e-04 -6.43e-04 -4.61e-04 -1.71e-03 1.006
## 125862 -2.92e-04 -1.35e-03  2.08e-03  1.78e-03 -1.07e-03  6.97e-03 1.004
## 60098   9.93e-03  8.46e-03  5.46e-03 -2.75e-03 -1.62e-02  3.07e-02 1.003
## 60961   9.44e-03 -1.24e-02  1.13e-02 -8.98e-04  1.72e-02  3.79e-02 1.005
## 25314  -9.20e-03  6.06e-03  4.30e-03 -3.36e-04  1.88e-03  1.69e-02 1.003
## 86101  -2.14e-02  2.38e-02  1.87e-02 -1.11e-03  1.22e-02 -5.63e-02 1.001
## 16236   2.74e-03 -1.43e-02 -1.05e-02  1.17e-02  3.10e-03 -5.70e-02 1.001
## 67256  -6.96e-03 -5.80e-04 -8.48e-03 -1.97e-03  1.30e-03  1.65e-02 1.003
## 93344  -1.90e-02  2.12e-02 -2.59e-02 -7.53e-03  1.94e-03  6.73e-02 1.002
## 73954   6.62e-03  4.24e-03  3.68e-03 -1.06e-03 -1.30e-03  1.47e-02 1.004
## 35444   2.77e-03  1.95e-03  9.72e-04  7.27e-04  2.58e-04  6.40e-03 1.004
## 12797   6.46e-05  1.79e-03  1.30e-03  2.42e-04 -3.77e-04  7.16e-03 1.005
## 11486  -3.88e-03  1.01e-02 -9.75e-03 -2.94e-03  6.39e-03  2.81e-02 1.005
## 90445   6.91e-04  2.06e-03  1.28e-03 -6.95e-05 -3.36e-04  5.71e-03 1.004
## 28891  -2.16e-03 -3.64e-03  3.45e-03  3.23e-05 -8.57e-04  1.03e-02 1.004
## 31731   4.02e-03  4.38e-03  2.38e-03 -7.31e-04 -9.69e-04  1.38e-02 1.004
## 94660  -2.86e-02  7.13e-03 -2.44e-02 -1.11e-02 -2.63e-02 -9.40e-02 0.997
## 97621   2.78e-04 -2.01e-03  1.30e-03  1.21e-03 -5.14e-04  3.81e-03 1.004
## 79866   5.45e-02  1.14e-02  1.19e-02  1.11e-02 -1.90e-02  9.05e-02 1.002
## 23817  -1.27e-03 -4.56e-03 -8.03e-03 -6.05e-04  1.08e-03  1.56e-02 1.003
## 74617  -1.84e-02  9.05e-03  5.03e-03 -8.07e-03 -3.58e-03  3.00e-02 1.004
## 122281 -3.48e-03  3.93e-03  2.96e-03  5.69e-04  1.20e-03  9.77e-03 1.003
## 53731  -2.77e-04  1.48e-03  7.17e-04  5.81e-04  2.91e-04  4.13e-03 1.004
## 39801   1.63e-02  5.03e-03 -2.92e-02  1.05e-02 -1.72e-02 -5.42e-02 0.993
## 42278  -3.44e-03 -8.04e-03  1.22e-02  7.93e-03 -8.51e-03  4.91e-02 1.002
## 82856   8.74e-03  6.56e-03  4.81e-03  1.38e-03  3.98e-03  2.29e-02 1.004
## 68598   6.97e-03  8.80e-03  4.08e-03  9.90e-03  1.09e-02  3.72e-02 1.003
## 112815  1.08e-02  2.42e-03 -9.64e-03  4.51e-03 -3.94e-03  2.30e-02 1.004
## 97952  -1.02e-03  1.58e-03  3.67e-03 -1.83e-03  3.10e-04  8.00e-03 1.003
## 72571  -5.64e-03  3.55e-03  2.55e-03 -5.84e-04  3.92e-04  9.26e-03 1.004
## 28767   1.07e-02  6.67e-03  5.93e-03 -2.82e-03  3.05e-03  1.99e-02 1.003
## 68497  -2.11e-02 -1.50e-02  1.82e-02 -6.24e-03 -3.01e-02  5.71e-02 1.003
## 21019   3.44e-02 -4.44e-03  1.67e-02  7.12e-03  1.84e-02 -6.27e-02 1.003
## 52670  -5.59e-03 -7.30e-03 -6.87e-03 -4.48e-03 -1.33e-03  2.05e-02 1.004
## 69288  -4.06e-03  5.79e-03 -6.51e-03 -1.96e-03 -2.15e-03  1.28e-02 1.004
## 68427  -1.08e-03  1.99e-03  1.36e-03 -1.49e-03 -6.91e-04  5.03e-03 1.003
## 94691  -1.69e-02 -3.29e-02  3.86e-02 -2.00e-03 -7.53e-03 -8.10e-02 0.997
## 107134  3.15e-03  6.27e-03  3.45e-03 -3.33e-04 -1.62e-02  2.48e-02 1.004
## 17025   3.45e-02  3.07e-02 -3.26e-02 -2.11e-02 -1.36e-02 -7.59e-02 0.993
## 58225   2.31e-03  5.90e-03  3.37e-03  5.02e-03 -2.16e-02  2.80e-02 1.004
## 60674  -2.01e-02  1.09e-02  3.66e-03 -1.89e-02  1.78e-02  5.35e-02 1.006
## 96126  -1.91e-03  9.95e-04  1.10e-03 -6.94e-04 -1.04e-03  4.12e-03 1.004
## 22344   5.13e-02  2.53e-02  3.78e-02  8.14e-03 -2.06e-02 -1.16e-01 0.997
## 35068  -4.13e-03  5.45e-03 -1.06e-02 -3.21e-03  1.27e-03  1.69e-02 1.003
## 86517  -7.54e-04 -7.74e-04  2.07e-03  2.89e-03  1.83e-05  1.10e-02 1.004
## 81539  -1.35e-03  9.10e-03 -9.63e-03  1.79e-03 -6.69e-04  1.76e-02 1.003
## 87400   2.92e-03  6.19e-03  4.27e-03 -2.56e-03  1.07e-03  2.19e-02 1.003
## 109978 -1.86e-02 -2.56e-02 -1.80e-02  3.83e-03 -1.29e-02 -7.90e-02 0.995
## 94667   6.55e-04 -3.43e-03  2.20e-03 -1.29e-03 -6.14e-04  5.66e-03 1.004
## 30211  -3.38e-03  7.28e-03  4.67e-03  1.39e-02 -2.36e-02  3.54e-02 1.004
## 52642  -1.21e-02 -2.89e-02  1.90e-02  4.17e-03 -5.75e-03  6.87e-02 1.002
## 83584   6.93e-03 -8.62e-03  8.20e-03 -1.91e-03  2.65e-03  1.70e-02 1.003
## 99603   3.47e-02  1.05e-02 -3.31e-02  1.84e-02 -3.49e-02 -7.84e-02 0.996
## 72996   2.46e-02 -4.05e-02  5.14e-02  3.85e-02 -1.32e-02 -1.05e-01 0.993
## 18489   4.79e-03 -3.34e-02  3.40e-02  2.43e-03 -1.15e-02 -6.48e-02 0.996
## 14533   3.64e-02  1.24e-02 -2.34e-02  3.89e-03 -5.70e-03 -8.48e-02 0.994
## 122006  1.30e-03  9.50e-03 -1.11e-02  3.31e-03  3.09e-04  2.29e-02 1.004
## 26327  -6.21e-03 -6.15e-03  7.57e-03 -1.05e-03  3.43e-03  1.63e-02 1.003
## 3514   -2.05e-02  2.02e-02  3.01e-02  1.30e-02 -4.32e-03 -1.07e-01 0.996
## 59480   7.31e-03  6.66e-03  6.12e-03  1.30e-03  6.87e-03  2.07e-02 1.003
## 118501  1.10e-02 -2.03e-02 -1.41e-02  5.40e-03 -1.27e-03  5.27e-02 1.002
## 57670   2.44e-03 -3.13e-03 -5.25e-03  2.96e-03 -2.17e-03  1.18e-02 1.004
## 127520 -1.77e-02  1.05e-02  2.40e-02  1.56e-03 -1.42e-02 -6.61e-02 0.997
## 130179 -1.67e-03 -7.05e-03 -5.61e-03 -4.78e-03 -2.79e-03  1.88e-02 1.004
```

```
## 9252   -1.83e-03  1.10e-03  8.07e-04 -1.94e-04 -2.28e-04  4.51e-03 1.006
## 88933   2.33e-02  1.28e-02 -1.68e-02 -9.85e-04  1.96e-03  3.61e-02 1.003
## 8833   -1.48e-02  2.22e-02  2.70e-02  4.59e-03 -4.27e-02 -1.17e-01 0.998
## 103180  2.80e-03  3.89e-03  3.09e-03  3.92e-03  9.11e-04  1.14e-02 1.003
## 118741 -1.78e-03  3.35e-03  7.37e-03 -6.71e-03  4.48e-03  3.14e-02 1.002
## 52580   1.90e-03  3.43e-02  2.56e-02  6.68e-03 -1.95e-03 -6.94e-02 0.994
## 83836   3.40e-03  7.14e-04 -3.90e-03  2.55e-02 -1.28e-03  2.62e-02 1.080
## 88432  -1.15e-02 -7.00e-04  6.99e-03 -6.32e-03  2.96e-03  1.92e-02 1.004
## 74440  -9.78e-04  3.93e-03  2.56e-03  1.16e-03  7.95e-04  8.43e-03 1.003
## 6102    3.04e-05 -5.29e-03 -9.75e-03  1.32e-03  1.27e-02  3.82e-02 1.005
## 72007   1.09e-02 -4.54e-03  3.85e-03  3.83e-03 -1.73e-03  1.70e-02 1.004
## 130365  3.56e-04 -1.01e-02  6.05e-03 -6.31e-03  2.36e-03  2.10e-02 1.004
## 33344  -9.04e-03 -2.16e-02  1.26e-02  6.96e-02 -2.75e-02  9.73e-02 1.008
## 48500   1.94e-02  3.82e-02 -3.45e-02  2.58e-02 -9.25e-03 -8.10e-02 0.994
## 15205  -2.74e-03 -2.50e-03 -5.75e-03  1.99e-03  2.08e-03  1.55e-02 1.006
## 84907   1.05e-04  1.24e-03  2.06e-03 -1.74e-03  2.06e-03  1.50e-02 1.004
## 60121  -1.45e-03 -1.47e-03 -1.24e-02 -1.62e-03  1.13e-03  2.28e-02 1.002
## 28342  -3.34e-03 -6.76e-03 -1.46e-02  1.66e-03  3.42e-02 -1.02e-01 0.999
## 129396 -1.78e-02  1.05e-02  7.88e-03 -9.16e-03 -2.57e-02  4.47e-02 1.004
## 67246   3.35e-03  7.10e-03  3.84e-03  5.10e-03 -4.51e-03  2.57e-02 1.003
## 52309  -4.39e-02 -1.46e-02 -1.28e-02 -1.15e-03  4.83e-02 -8.04e-02 1.000
## 118183 -1.88e-03 -1.87e-02  6.65e-03 -1.47e-02  3.10e-02  6.38e-02 1.007
## 112428 -1.52e-04 -4.85e-03  4.17e-03 -2.00e-03  4.02e-04  1.10e-02 1.003
## 122904  1.23e-02 -2.29e-02  2.69e-02  1.03e-02  4.45e-03 -6.46e-02 1.002
## 13356  -4.14e-04  5.66e-04  1.17e-03  5.47e-04 -1.42e-04  5.50e-03 1.005
## 66226  -5.03e-04 -1.64e-02 -1.09e-02 -1.58e-02  5.41e-03 -5.72e-02 0.999
## 71747   1.32e-03 -2.85e-03  2.59e-03  1.97e-02 -5.63e-03  3.16e-02 1.005
## 129404 -1.01e-02 -2.03e-03 -8.46e-03 -2.17e-03 -2.64e-03  2.73e-02 1.005
## 87443   1.31e-02  1.27e-02 -1.68e-02 -3.46e-04  8.99e-04  3.08e-02 1.003
## 10942  -1.71e-03  4.14e-03  8.56e-04  6.79e-03  7.82e-03  2.56e-02 1.007
## 49790   4.71e-03  7.00e-03 -9.02e-03 -2.93e-03 -7.24e-04  1.67e-02 1.004
## 90714   2.75e-04  2.15e-03  1.21e-03 -4.80e-04 -2.02e-03  7.22e-03 1.004
## 110735 -4.74e-03  3.86e-03  2.75e-03  2.23e-04  1.16e-03  9.57e-03 1.003
## 46152   1.37e-02  1.28e-02  1.63e-02  1.03e-02 -2.91e-02 -6.55e-02 0.999
## 92747   4.82e-03  1.25e-02  9.71e-03  1.71e-05 -1.19e-02  4.22e-02 1.001
## 125772 -8.02e-03 -6.63e-03  1.07e-02  1.16e-03  1.25e-02  3.57e-02 1.004
## 61022   1.75e-03 -2.27e-03  1.33e-03  3.44e-04  7.04e-04  5.45e-03 1.004
## 55127   7.27e-04  1.57e-02 -1.75e-02  9.06e-03 -1.38e-02 -7.49e-02 0.996
## 115490 -1.33e-02  1.31e-02 -1.34e-02 -4.17e-03  3.14e-03  2.56e-02 1.003
## 73415   1.59e-03  2.40e-03  1.08e-03 -1.39e-03 -1.30e-03  7.96e-03 1.004
## 98305   2.33e-04  6.19e-03 -8.07e-03  2.55e-04 -2.44e-03  1.56e-02 1.004
## 110069 -1.63e-03  1.85e-03  1.33e-03 -9.04e-04 -7.59e-04  5.13e-03 1.004
## 41933  -6.17e-04  9.41e-03 -1.02e-02 -1.40e-03 -9.58e-04  1.81e-02 1.003
## 124473  4.31e-02 -2.59e-02 -1.48e-02  1.25e-02  4.12e-02 -1.05e-01 0.996
## 16193  -1.29e-02  8.98e-03  8.56e-03 -3.81e-03  1.08e-02  2.71e-02 1.003
## 23765  -1.24e-02  7.90e-03  4.05e-03  6.69e-04 -1.56e-03  2.54e-02 1.003
## 434    -1.33e-03  2.14e-03  1.14e-03 -1.44e-03  5.76e-04  8.17e-03 1.006
## 102628  1.51e-02 -1.34e-02 -1.27e-02  7.87e-03  5.36e-03  3.40e-02 1.002
## 74514  -2.18e-03 -5.65e-03  4.35e-03  1.08e-03  9.12e-04  9.90e-03 1.004
## 53839   3.01e-03  8.11e-04 -7.13e-03 -1.99e-03 -9.29e-04  1.39e-02 1.004
## 73274   4.83e-03 -9.13e-03 -7.55e-03  5.10e-03 -6.14e-04  1.92e-02 1.004
## 23586  -8.13e-03 -3.46e-03 -6.62e-03  6.22e-03  8.82e-04  1.68e-02 1.004
## 101926  2.10e-03 -1.92e-03 -6.01e-03  7.78e-04 -1.03e-03  1.24e-02 1.004
## 39184  -1.14e-03  3.80e-03  3.00e-03  2.19e-03  7.49e-04  9.57e-03 1.003
## 102967  1.27e-03  1.22e-02 -1.36e-02  6.89e-03  4.68e-03  2.97e-02 1.004
## 100778 -1.76e-02  1.69e-02 -1.93e-02 -1.20e-02 -1.44e-02  4.23e-02 1.003
## 110256  3.87e-02  1.17e-02  1.62e-02 -1.27e-02 -5.78e-02 -9.93e-02 1.000
## 115324  5.87e-02  6.87e-03  3.01e-02  2.45e-02 -5.25e-03 -8.25e-02 0.994
## 6399    1.12e-02 -3.50e-02  3.35e-02  1.43e-02 -2.44e-02 -9.87e-02 0.998
## 47507  -4.00e-03  8.86e-03  9.15e-03 -4.62e-03  1.14e-02  2.86e-02 1.003
## 17383   1.87e-02  8.01e-03  5.46e-03  1.51e-03 -2.18e-02  3.69e-02 1.003
## 66844   3.79e-02  2.17e-02  2.80e-02  9.90e-03 -1.24e-02 -8.39e-02 0.996
## 47366  -4.70e-03  6.75e-03  5.93e-03 -4.15e-03  4.39e-03  1.55e-02 1.003
## 67565  -3.09e-03 -8.03e-03 -6.47e-03 -1.72e-03  7.19e-04  1.57e-02 1.003
## 64997   1.30e-02  6.23e-03  6.63e-03 -6.94e-04  2.60e-03  2.60e-02 1.004
## 125746  2.90e-02  1.43e-02 -1.92e-02  3.19e-04  1.35e-03  5.34e-02 1.004
## 111070  1.87e-02  2.42e-02 -2.96e-02  2.94e-03 -2.27e-02  8.86e-02 1.002
## 103780  1.72e-02  2.25e-02  3.84e-02 -9.83e-02 -1.86e-04 -1.24e-01 0.994
## 42697   7.75e-03 -1.72e-02  9.23e-03  1.49e-02 -2.37e-02  3.84e-02 1.004
## 9737    6.22e-04 -6.62e-04 -2.84e-04  5.42e-04  4.65e-04 -2.62e-03 1.006
## 86402  -4.39e-03 -2.06e-03  4.78e-03  3.70e-03 -2.07e-02  2.68e-02 1.005
## 72972  -3.11e-03  3.88e-03  3.15e-03 -1.45e-03 -5.50e-04  1.06e-02 1.003
## 89660  -2.48e-03 -6.78e-03  7.78e-03 -3.84e-04  3.46e-03  1.55e-02 1.003
## 100826 -8.21e-03  1.06e-02  4.22e-03  8.84e-03 -1.33e-02  3.91e-02 1.003
## 17755  -1.18e-02  1.68e-02 -1.37e-02 -3.62e-03  1.99e-02  3.98e-02 1.003
## 43822  -7.69e-04 -2.93e-03 -5.22e-03 -1.16e-03 -1.40e-03  1.07e-02 1.003
## 113970  2.34e-03  7.38e-03  6.02e-03 -4.33e-03  5.02e-03  1.99e-02 1.003
## 99701   1.19e-02 -1.46e-02  8.26e-03 -3.56e-03 -4.77e-04  2.67e-02 1.004
## 120233 -9.82e-03  1.27e-02 -1.14e-02 -2.26e-03  6.38e-03  2.54e-02 1.003
## 112447 -1.05e-03  1.21e-03  3.22e-04 -2.91e-05  1.23e-03  4.91e-03 1.005
## 121275 -1.06e-02  1.51e-02  1.19e-02 -2.49e-04 -2.34e-02  6.37e-02 1.003
## 55679  -2.01e-03  1.44e-02 -2.08e-02 -3.64e-03  8.90e-03  4.16e-02 1.003
## 70401  -3.97e-04 -5.36e-03  3.00e-03  3.06e-03 -1.15e-03  1.09e-02 1.005
## 19244  -5.44e-03 -2.85e-04 -8.13e-03 -2.94e-03  1.17e-03  1.46e-02 1.003
## 105189  2.86e-03 -1.14e-02  5.75e-03 -7.44e-03 -8.31e-03  3.97e-02 1.006
## 98877   9.35e-03  3.89e-03  3.38e-03  3.87e-03 -1.20e-03  1.49e-02 1.004
## 50517  -1.00e-03 -2.70e-02 -1.67e-02  3.52e-02 -6.65e-03 -7.37e-02 0.993
## 39835  -3.50e-03 -2.00e-02  1.22e-02  3.59e-03 -3.14e-02  5.34e-02 1.004
## 6153   -2.85e-03 -3.27e-03  4.72e-03 -3.81e-03  1.56e-03  1.61e-02 1.005
## 97297   4.62e-04  3.84e-03  1.89e-03 -2.11e-03  2.46e-03  1.45e-02 1.004
## 18303   4.93e-03 -3.57e-03 -5.73e-03 -8.65e-04 -2.78e-03  1.57e-02 1.004
## 15222  -1.16e-03  1.17e-03  6.70e-04 -8.56e-05 -2.07e-05  3.26e-03 1.004
## 91300   4.74e-03  4.38e-03  2.61e-03  2.65e-04 -1.16e-03  1.41e-02 1.004
## 124346 -2.41e-04 -3.56e-03 -7.07e-03 -3.36e-04 -4.26e-03  1.99e-02 1.005
## 19630   3.10e-02 -3.62e-02  3.36e-02  1.57e-02 -1.61e-02 -6.78e-02 0.996
## 70799   3.82e-02 -6.51e-03  3.57e-02  2.75e-02 -2.23e-03 -8.03e-02 0.994
## 27865   1.32e-02  5.99e-03  3.92e-03  5.92e-03 -5.79e-04  2.29e-02 1.003
## 58563   8.09e-04  6.98e-03  3.69e-03  1.72e-02 -1.36e-02  2.96e-02 1.004
```

```
## 53207   3.64e-02  7.16e-03  2.32e-02 -1.29e-02 -2.69e-02 -7.20e-02 0.997
## 51368   1.22e-02  4.07e-02 -2.47e-02  2.06e-02  2.87e-02 -9.54e-02 0.995
## 89916   3.44e-02 -2.10e-02 -1.27e-02  5.01e-03 -1.12e-02 -8.45e-02 0.998
## 54121   1.07e-02 -3.25e-02  3.59e-02  2.65e-02 -5.87e-03 -7.52e-02 0.997
## 39785  -5.72e-03  1.24e-02 -1.28e-02 -8.25e-05  3.80e-03  2.36e-02 1.003
## 74883  -7.45e-03 -1.08e-02 -7.36e-03 -3.84e-03  3.01e-03  2.59e-02 1.003
## 11857   3.68e-02 -2.37e-02 -1.75e-02  1.29e-02  4.20e-02 -1.16e-01 1.002
## 24555  -9.64e-03  1.65e-02 -1.51e-02  1.73e-03  1.38e-02  3.53e-02 1.002
## 77257  -2.38e-02 -1.42e-02 -1.16e-02  6.96e-03  1.18e-02 -6.01e-02 1.000
## 34889  -1.95e-04  1.78e-04  3.91e-05  3.63e-04  1.71e-04  1.19e-03 1.005
## 46019  -1.39e-02  3.76e-02 -1.87e-02  6.28e-03  3.87e-02 -1.00e-01 0.997
## 77370  -1.08e-02 -8.33e-03  7.66e-03 -1.87e-03  4.70e-03  1.82e-02 1.004
## 64850   7.85e-03  4.24e-03  6.17e-03  3.65e-05  3.63e-03  1.66e-02 1.003
## 64476   4.59e-03  4.64e-03  1.77e-03 -2.10e-03  3.62e-04  2.00e-02 1.004
## 11993  -2.33e-02 -3.45e-02  4.25e-02 -3.68e-03 -4.58e-03 -1.03e-01 0.996
## 4669    4.47e-02  4.26e-02 -3.56e-02  1.96e-02 -3.70e-02 -1.33e-01 0.996
## 20158  -2.53e-02  3.50e-03 -1.38e-02 -5.83e-03  3.10e-04  3.96e-02 1.003
## 120640 -9.24e-03  5.31e-03  2.26e-03  6.22e-03 -5.63e-04  2.52e-02 1.005
## 65400   3.64e-02  2.54e-02  3.09e-02  9.07e-03 -4.99e-03 -7.30e-02 0.994
## 102135 -3.69e-03 -1.09e-02 -7.11e-03 -2.34e-03  5.87e-03  2.35e-02 1.003
## 27308   1.40e-02 -1.17e-02  9.08e-03 -1.49e-03  2.37e-03  2.40e-02 1.004
## 125863  1.57e-03  2.16e-03  3.91e-04  2.03e-03  1.17e-03  1.05e-02 1.005
## 66737  -7.65e-03 -3.49e-03 -1.02e-02  5.76e-04  1.78e-02  3.38e-02 1.003
## 68467   1.41e-02 -1.76e-02 -1.59e-02 -5.72e-03 -8.49e-03  4.35e-02 1.003
## 28646   4.15e-03  7.10e-03 -1.23e-02  7.36e-04  5.76e-03  2.14e-02 1.002
## 59877  -1.82e-02  1.44e-02 -1.47e-02 -8.27e-03  1.86e-02  4.53e-02 1.004
## 123815 -4.08e-03  5.41e-03  4.34e-03 -4.37e-03  9.96e-04  1.55e-02 1.003
## 116210 -7.30e-04  7.90e-03  3.79e-03 -8.84e-03  1.06e-02  3.17e-02 1.004
## 2281   -4.45e-03 -3.56e-03 -7.78e-03 -6.38e-04  3.01e-03  2.49e-02 1.005
## 54016   1.10e-03  4.25e-03  2.70e-03 -1.64e-06 -1.14e-03  1.28e-02 1.004
## 57757  -4.94e-03  8.06e-04  6.40e-03  6.13e-04  5.23e-03  1.43e-02 1.003
## 88429  -3.77e-03 -9.36e-03 -1.02e-02 -2.84e-03  1.54e-03  2.67e-02 1.003
## 3045   -2.62e-03 -5.90e-03 -7.01e-03  9.08e-03  3.97e-04  2.42e-02 1.005
## 9254   -5.23e-03 -2.18e-03 -7.54e-03  3.60e-03  2.15e-03  2.27e-02 1.004
## 116796  5.56e-03 -9.83e-03  7.96e-03  3.57e-03  2.54e-03  1.79e-02 1.003
## 102908 -1.08e-04  3.93e-03  2.86e-03 -1.49e-03  2.09e-04  1.09e-02 1.003
## 87594  -6.24e-03  3.46e-02 -3.67e-02  4.23e-03 -4.62e-02 -8.97e-02 0.996
## 112410 -9.20e-04  4.72e-03  3.13e-03 -3.35e-03 -3.14e-04  1.39e-02 1.004
## 37749  -1.36e-02 -8.40e-03  1.96e-02 -5.62e-03  1.36e-02 -4.85e-02 1.002
## 101687  2.89e-02 -2.19e-02 -2.01e-02  4.48e-05 -4.43e-02  7.74e-02 1.003
## 111024 -1.58e-03  1.05e-03  5.59e-04 -5.50e-05 -1.08e-03  3.73e-03 1.005
## 60759   8.77e-04  1.30e-03  7.38e-04  1.49e-03 -3.61e-04  4.14e-03 1.004
## 52628  -4.40e-04 -3.90e-04  3.04e-04  1.57e-04 -1.40e-04  9.42e-04 1.004
## 119948  7.76e-04 -1.05e-03  1.86e-03 -2.83e-05 -4.74e-04  5.81e-03 1.004
## 69956   4.30e-03  2.61e-03  1.84e-03 -5.94e-04 -1.10e-03  9.19e-03 1.004
## 94769  -2.73e-03 -8.70e-03 -1.10e-02 -3.56e-03  6.50e-04  3.03e-02 1.003
## 75412   9.06e-03  1.00e-02 -1.18e-02 -2.82e-03 -6.92e-04  2.18e-02 1.003
## 15747  -6.18e-03 -3.85e-03 -6.66e-03 -2.55e-03  1.11e-03  1.54e-02 1.003
## 112253 -2.75e-02 -2.84e-02  2.89e-02 -9.46e-03 -3.17e-02 -7.49e-02 0.998
## 82839  -7.10e-03 -2.03e-02  1.29e-02 -5.96e-03 -3.43e-02  5.33e-02 1.004
## 78885   1.24e-03 -7.64e-03  3.84e-03  2.38e-03 -1.21e-02  2.48e-02 1.005
## 52419  -1.35e-03 -1.13e-02 -8.51e-03  3.85e-04  5.60e-03  2.28e-02 1.003
## 119806 -4.79e-03  3.67e-03  2.02e-03  8.94e-04  6.06e-04  1.11e-02 1.004
## 30435  -7.00e-03  1.26e-02 -1.63e-02 -1.94e-03 -2.41e-04  3.39e-02 1.004
## 54551   1.19e-02 -3.21e-02  4.11e-02  2.17e-02  4.68e-02 -8.98e-02 0.997
## 92877   4.30e-03 -8.78e-03 -1.73e-02 -2.34e-03  3.22e-02  5.78e-02 1.006
## 117607  1.28e-02  1.09e-02  8.95e-03  3.90e-03  1.64e-02 -5.41e-02 1.005
## 52898   1.31e-02 -2.87e-02 -2.45e-02  1.65e-02  3.20e-03 -7.25e-02 0.992
## 59685  -7.47e-03  2.41e-03 -1.20e-02 -3.96e-03  2.59e-03  2.62e-02 1.003
## 30322   6.88e-04 -1.78e-02 -1.48e-02 -5.42e-03  3.41e-02 -7.85e-02 1.001
## 92209  -1.53e-03  1.02e-02 -1.19e-02 -6.26e-03  1.26e-03  1.99e-02 1.003
## 48437   1.81e-02  6.02e-03  5.99e-03  6.67e-04  1.84e-03  2.77e-02 1.004
## 67243   2.35e-02  3.27e-02 -3.07e-02  1.24e-02 -1.33e-02 -8.73e-02 1.001
## 100887 -9.82e-04  1.15e-03  7.54e-04  8.02e-04 -4.29e-04  3.36e-03 1.004
## 96342   8.32e-03  4.29e-03  2.50e-03 -1.07e-03  1.02e-03  1.54e-02 1.004
## 42002  -2.54e-02 -2.12e-02 -2.25e-02 -4.47e-03 -6.14e-02 -1.12e-01 1.001
## 36818  -2.69e-03 -1.09e-02 -9.92e-03  1.86e-02 -1.43e-04  3.07e-02 1.004
## 27181   1.12e-02  5.30e-03  2.37e-03  8.40e-02 -3.49e-03  9.13e-02 1.022
## 40527  -6.09e-03  1.25e-02  1.10e-02 -9.11e-03  3.15e-02  5.27e-02 1.005
## 102387  3.81e-02 -5.55e-03  3.40e-02  1.19e-02 -4.16e-03 -7.64e-02 0.996
## 51067  -4.17e-03 -1.05e-02 -7.92e-03  6.41e-03  4.99e-03  2.17e-02 1.003
## 124510  9.91e-03  3.72e-02 -2.39e-02  2.51e-03  1.19e-02 -7.59e-02 0.999
## 87256  -3.28e-02  2.07e-02  1.36e-02 -8.90e-03  2.09e-02 -6.19e-02 1.004
## 33169   2.94e-04 -4.26e-03  2.91e-03  1.87e-03 -2.38e-05  1.16e-02 1.004
## 121870 -1.71e-02  3.20e-02 -2.21e-02  1.89e-02  6.20e-04 -9.36e-02 0.993
## 101172 -3.00e-03 -7.15e-03  4.55e-03 -3.90e-03  8.32e-04  1.33e-02 1.004
## 20662   2.31e-04 -1.81e-02 -1.93e-02 -1.08e-03 -1.56e-02  5.27e-02 1.000
## 84879  -3.55e-03  4.14e-03  2.15e-03 -3.29e-03  1.74e-03  1.24e-02 1.004
## 123759 -1.42e-03 -6.17e-04 -7.32e-03 -1.42e-03 -2.78e-04  1.63e-02 1.004
## 95313  -2.53e-05 -1.12e-03  5.53e-04  8.85e-04  7.44e-05  2.02e-03 1.004
## 124742  9.56e-03  7.90e-03 -1.19e-02  1.10e-03  2.07e-03  2.63e-02 1.005
## 118455  3.66e-03 -1.78e-02  2.33e-02  9.28e-03 -2.33e-03 -5.68e-02 1.003
## 23818  -7.37e-03 -1.44e-02 -1.61e-02  1.74e-02 -3.04e-02  5.22e-02 1.002
## 68141   4.54e-02 -1.94e-02 -1.57e-02  4.35e-03  5.69e-03  7.00e-02 1.003
## 64756  -1.00e-02 -1.16e-02 -1.06e-02 -4.31e-03 -8.21e-04  3.10e-02 1.003
## 10541  -1.63e-02 -3.49e-02  3.72e-02  8.38e-04 -3.98e-02 -1.16e-01 0.999
## 75766   1.31e-02  6.23e-03  5.02e-03 -3.08e-03  1.12e-03  2.57e-02 1.003
## 42012  -1.56e-03  1.36e-02 -1.37e-02  1.53e-03  2.66e-02  5.27e-02 1.004
## 121054  1.06e-02 -6.55e-03  8.22e-03  1.80e-03  4.06e-03  1.98e-02 1.003
## 75103   1.26e-02  3.55e-02  2.68e-02  1.26e-02  5.96e-03 -7.89e-02 0.994
## 11686   1.44e-02  9.59e-03 -1.72e-02  3.19e-03  9.60e-03  5.73e-02 1.004
## 30846  -6.16e-03  3.32e-03  2.52e-03  1.15e-04  1.56e-05  9.65e-03 1.004
## 92663   5.91e-04  3.56e-03  2.63e-03  3.41e-03  8.36e-05  8.66e-03 1.003
## 24827   2.01e-02 -1.12e-02 -1.78e-02  8.51e-03 -1.64e-02  5.98e-02 1.004
## 14312   1.34e-02  4.11e-03  6.67e-03  1.97e-03  5.21e-03  2.23e-02 1.003
## 44598  -4.21e-03 -5.34e-03  4.13e-03 -5.68e-04  2.29e-04  9.22e-03 1.004
## 68359  -1.39e-02 -1.77e-02 -1.53e-02  3.46e-03 -1.82e-02  4.63e-02 1.002
## 55374   2.98e-02  1.74e-02  3.01e-02  1.57e-02 -4.36e-03 -8.29e-02 0.996
```

```
## 103841 -1.88e-02 -3.18e-03  2.66e-02 -5.66e-03 -8.19e-03 -6.33e-02 0.998
## 10244   2.10e-03  4.59e-03  3.10e-03 -2.35e-03  2.66e-04  1.95e-02 1.005
## 94748   1.62e-03  4.19e-03  2.35e-03  1.35e-03 -1.87e-04  1.21e-02 1.004
## 115130 -2.32e-03  5.01e-03  5.56e-03 -5.01e-03  1.50e-03  1.65e-02 1.003
## 99247  -1.23e-04 -1.68e-03  1.39e-03 -1.27e-04 -4.89e-04  3.70e-03 1.004
## 17313  -5.58e-04 -1.65e-03  6.63e-03 -8.08e-04  2.85e-03  1.20e-02 1.002
## 91667  -2.02e-03  9.02e-03 -9.93e-03  3.21e-03  7.45e-04  1.68e-02 1.003
## 102621  2.72e-03 -8.20e-03  2.54e-03  3.22e-03  1.50e-02  2.74e-02 1.010
## 64348   6.74e-03 -9.63e-03 -6.89e-03 -8.24e-04 -1.96e-03  2.01e-02 1.003
## 117514  1.21e-02  4.55e-02 -3.41e-02  8.31e-03 -1.17e-02 -7.03e-02 0.994
## 75503  -2.31e-03 -8.27e-03 -6.33e-03 -2.97e-03 -2.73e-04  1.63e-02 1.003
## 118986 -2.79e-02 -3.78e-03 -2.14e-02 -1.52e-02 -3.86e-02  1.02e-01 1.007
## 14891  -3.80e-02  3.62e-02  2.73e-02 -7.48e-03 -2.83e-03 -8.03e-02 0.995
## 129700  2.53e-03 -4.65e-03  5.99e-03  1.83e-03 -5.25e-04  1.54e-02 1.004
## 25169  -2.24e-03  3.74e-03  2.68e-03  1.94e-03  8.07e-04  8.65e-03 1.003
## 49385   1.03e-02 -3.08e-02 -2.12e-02  1.41e-02  1.33e-02 -7.78e-02 0.990
## 83590  -2.18e-02  3.24e-03 -1.07e-02 -1.79e-03 -1.49e-02 -7.58e-02 1.002
## 108218  2.98e-02  5.50e-03  2.06e-02  1.42e-02 -3.48e-02 -7.71e-02 0.998
## 125497 -1.87e-03  8.16e-03  5.07e-03  1.40e-03 -3.31e-03  3.48e-02 1.003
## 36072  -2.14e-03  1.71e-02 -1.92e-02  2.55e-03  1.66e-02 -5.47e-02 0.999
## 38415  -1.83e-02  1.40e-03 -1.13e-02 -1.04e-02  2.04e-02  4.38e-02 1.004
## 7032    8.94e-03 -8.98e-03 -1.05e-02  3.36e-03  1.09e-02  4.07e-02 1.005
## 70461   1.88e-03  1.96e-03  1.17e-03  2.18e-04 -3.44e-04  5.53e-03 1.003
## 84282   1.17e-02 -1.67e-02  6.82e-03 -5.59e-03  2.02e-02  4.39e-02 1.006
## 100709  1.94e-02  9.56e-03  7.59e-03  2.53e-03 -2.12e-02  4.35e-02 1.002
## 42777   1.21e-02  6.84e-03  6.07e-03 -2.26e-03  4.04e-03  2.10e-02 1.003
## 81438  -8.31e-03  4.38e-03  1.17e-03  2.45e-03  1.50e-02  3.52e-02 1.006
## 77799  -2.22e-02 -2.05e-04  1.71e-02 -7.31e-04  1.53e-02 -5.00e-02 1.003
## 87948  -5.29e-03  8.74e-03 -9.44e-03  2.79e-04 -1.24e-03  1.88e-02 1.003
## 112517 -3.12e-03 -8.33e-03 -1.13e-02 -3.32e-03  2.21e-03  2.77e-02 1.003
## 78027   2.06e-03 -2.73e-03  1.36e-03  1.20e-03  4.52e-04  5.67e-03 1.004
## 88079   5.51e-03 -9.55e-03 -7.33e-03 -9.51e-04 -1.05e-03  1.86e-02 1.003
## 36770  -9.75e-03 -4.79e-03  7.96e-03 -5.88e-03 -1.34e-02  2.66e-02 1.003
## 105166  1.62e-02 -2.22e-02  3.91e-02  2.32e-02 -5.31e-03 -6.87e-02 0.994
## 61288   5.86e-03 -2.11e-02  1.12e-02 -1.35e-03  3.22e-03  3.70e-02 1.003
## 83122   1.64e-03  1.28e-03  8.36e-04  7.01e-05  1.02e-03  7.13e-03 1.004
## 118121  4.84e-03  4.71e-03  2.96e-03 -1.40e-03 -6.33e-04  1.51e-02 1.004
## 24960  -7.74e-03  1.44e-02  1.11e-02  1.11e-03 -2.02e-02  5.53e-02 1.002
## 4021   -1.34e-03 -1.53e-03 -3.31e-04 -6.84e-03  2.73e-04 -1.03e-02 1.007
## 97350  -1.71e-02 -1.27e-02 -1.18e-02 -4.26e-03  3.53e-03  4.00e-02 1.003
## 22844   5.38e-03 -3.92e-02  4.36e-02  1.21e-02  2.67e-04 -8.81e-02 0.995
## 105276 -2.46e-04 -1.04e-02 -7.51e-03  1.05e-02  8.88e-03  2.79e-02 1.004
## 59286  -1.68e-02  1.18e-02  1.19e-02 -6.04e-03  1.68e-02  4.07e-02 1.003
## 92187  -4.86e-03  2.14e-02  1.86e-02 -6.62e-03 -3.91e-03 -6.16e-02 1.003
## 122654 -1.14e-02 -1.15e-02  1.97e-02 -8.88e-03 -1.09e-04  6.08e-02 1.003
## 96273   4.50e-04  1.27e-04  1.75e-03 -9.20e-04 -8.01e-04  4.94e-03 1.003
## 101106  1.87e-02 -2.89e-02 -1.86e-02  3.74e-02 -7.60e-03 -7.21e-02 0.993
## 98206   2.23e-02  1.27e-03  6.16e-03  8.23e-03  3.84e-03  2.74e-02 1.004
## 127537  3.38e-03  1.15e-02 -1.48e-02 -2.74e-04  2.72e-04  3.16e-02 1.004
## 62004   2.17e-02  8.81e-03  8.60e-03  2.24e-03  9.96e-03  3.58e-02 1.003
## 2609   -3.46e-05 -2.40e-05 -2.75e-05  2.53e-05  3.82e-05 -2.51e-04 1.005
## 24042   2.62e-02  2.14e-02  2.70e-02  1.26e-02 -1.72e-02 -8.06e-02 0.996
## 61337  -2.73e-03  3.85e-03  2.84e-03  1.43e-03  1.11e-03  9.49e-03 1.003
## 75448  -3.32e-03 -3.34e-03  3.37e-03 -1.83e-04 -6.34e-04  1.01e-02 1.004
## 97542   7.77e-03  6.23e-03  5.83e-03  7.39e-04  3.18e-03  1.85e-02 1.003
## 107078 -9.18e-03 -6.95e-03 -5.42e-03 -4.48e-03  1.66e-03  1.86e-02 1.004
## 60744  -1.40e-03 -5.72e-03 -7.43e-03  3.62e-04 -6.11e-04  1.92e-02 1.004
## 66923   5.62e-04 -3.85e-03  9.20e-03  5.31e-06  1.33e-02  2.93e-02 1.003
## 80703   3.65e-02 -4.26e-03 -1.71e-02  2.01e-03  1.24e-02  5.89e-02 1.002
## 1314    5.83e-05 -5.55e-05  4.34e-05 -7.78e-06 -3.81e-05  1.92e-04 1.006
## 61011  -7.70e-04 -6.82e-03  9.74e-03 -3.20e-03  8.57e-03  2.91e-02 1.003
## 97380  -3.01e-03  3.61e-03  2.71e-03  7.10e-04  4.97e-05  8.70e-03 1.003
## 107438 -7.39e-03  7.14e-03  5.11e-03 -7.24e-03  1.66e-03  1.79e-02 1.003
## 35497   1.76e-02  1.35e-02 -2.25e-02  1.20e-02  6.23e-02 -8.41e-02 0.997
## 30467   1.61e-02 -2.21e-02 -1.38e-02 -4.73e-03  4.32e-02 -7.31e-02 0.996
## 108097 -3.44e-03  1.18e-03 -7.56e-03  1.91e-04 -2.68e-03  1.79e-02 1.003
## 99562   2.31e-02 -1.80e-02 -1.17e-02  6.52e-03 -1.52e-02 -7.49e-02 0.999
## 117234  2.63e-03  8.50e-03  5.10e-03 -8.18e-04 -1.26e-02  2.69e-02 1.003
## 32327   8.65e-04 -3.19e-03  2.07e-03 -1.78e-05 -3.55e-04  6.07e-03 1.004
## 90090   7.74e-03 -6.78e-03  7.87e-03  5.39e-03 -2.38e-02  3.34e-02 1.003
## 118711 -1.32e-02  1.69e-02 -1.44e-02 -2.97e-03  1.60e-02  3.72e-02 1.003
## 83795   9.98e-03  6.25e-04 -1.28e-02  8.85e-03  2.42e-03  2.19e-02 1.002
## 37151   1.30e-03 -4.91e-03  5.20e-03 -2.08e-03  1.06e-03  1.11e-02 1.003
## 85884  -3.68e-03 -2.09e-03 -4.70e-03  6.52e-05 -2.39e-03  1.21e-02 1.005
## 23177   6.63e-03 -1.23e-02 -8.35e-03 -3.82e-04  5.68e-03  2.42e-02 1.003
## 78979  -3.55e-03 -2.01e-02  4.18e-02 -6.44e-03 -3.48e-03 -6.59e-02 0.994
## 47481  -2.81e-02  3.18e-02  2.59e-02  1.17e-02 -6.91e-03 -8.40e-02 0.997
## 17625  -2.06e-03 -5.78e-03 -1.57e-02 -1.00e-03 -3.90e-02  4.81e-02 1.003
## 73794  -1.79e-03 -6.18e-03  6.26e-03 -3.60e-03 -7.80e-04  2.08e-02 1.003
## 10783  -1.29e-03 -3.35e-03  1.21e-03 -4.02e-03 -2.59e-04  1.42e-02 1.009
## 84617  -4.56e-03 -8.40e-03  6.50e-03 -6.89e-03 -3.42e-03  2.85e-02 1.004
## 39789   9.91e-03 -2.05e-02 -1.46e-02  6.93e-03  3.31e-02 -6.95e-02 0.998
## 81876  -6.19e-03  6.42e-03  5.31e-03 -4.67e-03  2.39e-03  1.80e-02 1.003
## 13570  -1.41e-03  1.92e-03  1.36e-03 -1.27e-03 -2.06e-04  7.24e-03 1.005
## 39972  -3.94e-02 -2.51e-02 -1.72e-02 -8.75e-03 -2.35e-02 -9.46e-02 0.995
## 74780  -2.64e-03 -7.88e-03 -6.21e-03  1.68e-03 -7.06e-04  1.58e-02 1.003
## 36608  -1.00e-02  1.06e-02 -1.12e-02 -5.35e-03  7.66e-03  2.46e-02 1.003
## 30385  -2.96e-03  2.84e-02  1.80e-02  5.46e-03 -2.59e-02 -6.30e-02 0.997
## 83926   2.16e-02 -2.97e-02 -1.99e-02  2.23e-02 -7.93e-03 -6.90e-02 0.992
## 47193   3.02e-02 -3.49e-02  3.13e-02  1.46e-02 -3.26e-02 -8.84e-02 0.998
## 100024 -4.49e-03  4.12e-03  2.94e-03 -1.60e-03  9.74e-04  9.13e-03 1.003
## 39267  -2.00e-03  7.62e-03 -1.11e-02 -3.42e-03  1.12e-03  1.72e-02 1.003
## 89411   1.29e-03  2.25e-03 -1.27e-02  2.51e-03  1.46e-02  3.01e-02 1.002
## 10563   3.55e-03 -9.14e-03 -6.56e-03 -1.30e-03  1.45e-03  2.95e-02 1.005
## 113673  5.13e-03  3.26e-03 -9.57e-03  1.56e-03  1.17e-03  1.77e-02 1.003
## 25219  -7.57e-03  5.44e-03  4.16e-03  5.79e-03  2.80e-03  1.56e-02 1.003
## 47719   2.64e-03 -9.09e-03 -1.12e-02 -6.97e-03  2.40e-03  2.86e-02 1.003
## 24266  -4.31e-03  1.05e-02 -1.46e-02 -8.09e-03  6.53e-04  3.41e-02 1.005
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## 53050  -7.49e-04  5.48e-03  3.71e-03  6.55e-03  1.35e-03  2.01e-02 1.004
## 95576   2.70e-03 -7.59e-03  5.21e-03 -3.07e-04  4.44e-04  1.12e-02 1.003
## 87163   2.87e-03 -8.50e-04  3.94e-03 -4.53e-03  3.22e-04  1.46e-02 1.004
## 30046  -1.96e-02  1.32e-02 -1.65e-02 -1.49e-03  2.92e-02  6.12e-02 1.004
## 92272  -3.94e-02 -2.04e-02  2.99e-02 -3.01e-03  2.86e-02 -6.84e-02 1.001
## 14575   5.15e-02 -2.87e-02 -2.56e-02  1.21e-02 -3.84e-02 -9.02e-02 0.996
## 4626   -9.98e-03 -9.35e-03 -9.52e-03 -1.56e-03  9.55e-03  4.32e-02 1.006
## 80407  -2.95e-02 -2.63e-02 -2.12e-02  1.98e-02 -6.12e-03 -7.65e-02 0.993
## 129796 -1.43e-03 -2.58e-03  2.45e-03  4.75e-04 -8.32e-05  8.16e-03 1.004
## 79438  -1.34e-03  2.37e-04  1.47e-03 -6.59e-04 -7.51e-04  4.31e-03 1.004
## 26901  -4.56e-03 -6.09e-03 -7.45e-03  2.08e-04  9.08e-04  1.55e-02 1.003
## 119325  2.07e-03  6.34e-03 -9.93e-03  6.87e-03 -1.00e-03  1.72e-02 1.003
## 116493 -2.83e-03  6.23e-03  4.97e-03 -7.09e-04  2.32e-03  1.49e-02 1.003
## 89443  -1.81e-02 -1.21e-02 -1.02e-02 -7.41e-03  1.86e-02  4.70e-02 1.002
## 40374   2.45e-02  1.60e-02 -2.34e-02  2.20e-03 -2.53e-02  5.23e-02 1.003
## 14037   2.16e-03 -1.42e-03 -6.63e-04  5.09e-04  1.01e-03 -5.75e-03 1.006
## 81604  -9.68e-03 -2.70e-02  3.57e-02 -8.72e-03  4.99e-02 -7.78e-02 0.999
## 88650  -6.85e-02  2.71e-02 -1.21e-02 -1.06e-02  4.42e-02 -1.18e-01 0.997
## 36620   4.92e-03  1.25e-02 -1.41e-02  3.16e-03  3.55e-03  3.19e-02 1.004
## 3980    8.34e-04  1.73e-03 -1.32e-03 -1.62e-03  5.35e-04 -6.30e-03 1.005
## 26643   2.25e-02  7.57e-03  3.71e-02  1.22e-02 -1.74e-03 -8.48e-02 0.994
## 62512   1.07e-02 -2.17e-02 -1.55e-02  1.66e-02  6.04e-02 -8.27e-02 0.997
## 41337   3.06e-03 -2.72e-02 -1.92e-02 -3.63e-04 -3.35e-03 -5.72e-02 0.992
## 16951   1.49e-03  6.78e-03  5.96e-03 -5.87e-03  2.95e-03  1.74e-02 1.003
## 105484  3.46e-03  4.91e-03  3.18e-03 -2.28e-03  5.07e-04  1.60e-02 1.004
## 97882   2.78e-03  4.24e-02 -2.77e-02  6.28e-03  7.44e-02 -9.83e-02 0.998
## 37109  -4.85e-03  3.85e-03  2.05e-03 -3.94e-05  1.03e-03  1.05e-02 1.004
## 111979 -7.88e-04 -2.01e-03  4.73e-03 -2.11e-03  1.18e-03  1.02e-02 1.003
## 5022   -1.37e-02  1.43e-02  1.04e-02 -1.28e-02 -2.34e-02  7.25e-02 1.006
## 45161   2.96e-02  3.34e-02 -2.36e-02 -3.05e-03  8.08e-03 -7.43e-02 0.997
## 104369 -8.51e-03 -2.70e-03  4.55e-03 -1.95e-03  4.87e-04  2.00e-02 1.004
## 74401   1.19e-03  9.70e-03 -1.03e-02  8.62e-04  1.47e-03  1.92e-02 1.003
## 56626  -1.25e-03 -1.29e-03  1.36e-03 -4.26e-04 -1.02e-03  3.67e-03 1.004
## 61244   5.36e-03  1.80e-02  3.27e-02  6.38e-03 -1.14e-02 -7.72e-02 0.998
## 88483  -5.18e-03  9.10e-03 -1.01e-02 -1.53e-03  1.14e-04  1.74e-02 1.003
## 63772   1.40e-02  9.40e-03 -1.18e-02  1.81e-03 -3.44e-03  2.67e-02 1.004
## 26393   3.15e-03  9.89e-03 -1.11e-02 -1.90e-03  4.13e-04  1.83e-02 1.003
## 122081 -9.31e-04  3.48e-02  3.32e-02 -3.57e-02  9.70e-03 -9.38e-02 0.997
## 105144 -8.01e-03 -3.71e-04 -6.93e-03 -1.37e-03 -1.44e-03  1.75e-02 1.004
## 43718  -2.70e-04 -3.51e-04  1.48e-04  3.21e-04  3.28e-04  1.37e-03 1.006
## 64050  -1.72e-03 -8.19e-03  6.70e-03  1.54e-04  1.36e-03  2.00e-02 1.004
## 69413   1.11e-03  1.05e-02  6.29e-03  1.70e-02 -3.11e-03  4.79e-02 1.004
## 5849    2.55e-02 -4.02e-03  3.37e-03  2.10e-03 -2.01e-02  4.67e-02 1.007
## 71719  -1.59e-03  1.83e-03  1.03e-03 -1.30e-03 -1.98e-03  6.28e-03 1.005
## 59354   9.40e-03  5.48e-03  3.39e-03  1.05e-02 -3.42e-04  2.12e-02 1.003
## 55483  -1.54e-03 -6.64e-03  4.45e-03 -3.83e-03  3.69e-04  1.35e-02 1.004
## 76380   1.27e-02 -1.27e-02 -1.05e-02 -2.94e-03  3.65e-03  3.28e-02 1.003
## 22440  -1.28e-03 -1.45e-02  1.60e-02  1.80e-02 -5.30e-02  1.11e-01 1.008
## 11704  -4.91e-03 -5.73e-03  4.56e-03 -2.11e-03  1.59e-03  1.47e-02 1.005
## 129428 -3.04e-03 -8.04e-03 -9.36e-03 -6.03e-03  2.51e-03  2.56e-02 1.004
## 50574   3.35e-03 -6.91e-03  5.07e-03 -2.56e-03  3.29e-04  1.16e-02 1.003
## 22666  -5.07e-03  4.23e-03  2.81e-03 -1.78e-03  1.21e-03  1.01e-02 1.003
## 15843   1.97e-03  4.31e-03  2.62e-03 -4.33e-04 -1.24e-03  1.30e-02 1.004
## 37241   6.37e-03 -1.15e-02  8.26e-03 -3.48e-03  5.83e-03  2.50e-02 1.004
## 62287   5.50e-02 -1.54e-02  2.43e-02  2.04e-02 -2.74e-02 -9.13e-02 1.000
## 45214   7.41e-03  3.84e-03  2.80e-03  2.84e-03 -1.43e-04  1.26e-02 1.003
## 4932    2.27e-03 -1.61e-02  7.90e-03  1.00e-02 -8.10e-03  3.76e-02 1.005
## 58901   8.01e-03  6.57e-03 -8.58e-03  4.58e-04 -4.89e-03  1.81e-02 1.004
## 20133  -1.08e-04  6.55e-03  3.10e-03  1.45e-03 -3.77e-03  2.72e-02 1.004
## 112813 -6.78e-03  9.48e-03 -9.18e-03 -4.97e-03 -2.20e-03  2.16e-02 1.004
## 75322  -2.91e-02 -2.37e-02  3.04e-02 -4.56e-05 -3.78e-02 -8.92e-02 0.999
## 6466   -1.41e-04 -6.84e-04 -3.72e-04 -5.70e-04  5.17e-04 -3.07e-03 1.005
## 27976  -1.62e-03  4.54e-03 -1.16e-02  1.06e-03  5.50e-03  1.90e-02 1.002
## 121339  2.99e-03 -4.89e-03  4.70e-03  1.62e-03  8.31e-04  1.07e-02 1.003
## 82770  -2.34e-03  1.92e-03  1.24e-03 -1.97e-03 -1.65e-04  5.18e-03 1.004
## 123597  8.23e-03  1.17e-02  1.21e-02 -4.80e-03  9.97e-04  5.77e-02 1.003
## 32732  -2.15e-03 -1.43e-02 -8.69e-03 -2.32e-03  1.35e-02  3.37e-02 1.002
## 7659    1.52e-02 -6.10e-03  3.15e-02  1.83e-02 -8.96e-03 -1.14e-01 0.996
## 79536   1.24e-03  5.53e-03 -8.08e-03  1.69e-03 -1.77e-03  1.55e-02 1.005
## 70492   3.48e-02  1.83e-02  3.31e-02 -2.15e-03 -2.99e-03 -9.37e-02 0.996
## 33078  -2.88e-03 -2.35e-02 -6.14e-03 -1.03e-02 -5.45e-02 -1.24e-01 0.995
## 40663  -2.52e-03 -7.74e-03 -6.02e-03  1.19e-03  7.67e-04  1.60e-02 1.003
## 6217   -5.17e-05 -3.79e-04 -1.95e-04 -7.46e-05  1.38e-04 -1.51e-03 1.005
## 102116  3.98e-02  1.33e-02  2.00e-02  1.73e-02 -2.27e-02 -7.09e-02 0.997
## 34017   2.16e-02 -1.71e-02 -1.08e-02  3.11e-03  1.30e-02  4.08e-02 1.002
## 68133   6.65e-03  4.05e-03  3.52e-03  7.48e-04 -1.44e-03  1.42e-02 1.004
## 64342   4.37e-02 -2.80e-02 -2.21e-02  2.25e-02 -3.71e-02  1.11e-01 1.000
## 55596   1.31e-02  1.64e-03  6.30e-03  4.32e-04  2.18e-03  2.00e-02 1.003
## 125650 -2.26e-02  1.59e-02  8.60e-03 -2.15e-02 -2.33e-03  6.66e-02 1.003
## 45626   1.43e-02  5.76e-03  3.96e-03  1.00e-02  3.11e-03  2.57e-02 1.004
## 81023   3.46e-02 -7.86e-03 -1.52e-02  5.43e-04  5.82e-03  4.72e-02 1.002
## 12460   3.51e-03 -5.98e-03 -4.91e-03 -7.04e-05  2.13e-04  1.83e-02 1.005
## 63948  -1.46e-03 -1.03e-02  8.03e-03  1.30e-03  2.19e-03  1.85e-02 1.004
## 84187   2.94e-02  5.78e-03  2.80e-02  2.46e-02  1.64e-03 -8.09e-02 0.999
## 70214   1.85e-02 -3.84e-03  1.47e-02  3.23e-03  2.38e-02  4.73e-02 1.003
## 89079   1.04e-02  3.69e-02 -2.60e-02  1.40e-02  3.44e-02 -7.56e-02 0.998
## 11662  -1.28e-02 -2.68e-02 -2.09e-02 -1.24e-02 -1.27e-02 -1.08e-01 0.994
## 27266   1.48e-03 -9.07e-03 -7.73e-03 -1.19e-03  4.55e-04  1.82e-02 1.003
## 12272  -5.41e-02 -1.80e-02 -5.92e-03 -3.40e-02  6.89e-03 -1.26e-01 0.997
## 44681  -7.42e-03  4.46e-03  2.11e-03 -4.12e-03  6.95e-04  1.35e-02 1.004
## 49397  -1.03e-02 -5.09e-03 -6.45e-03  1.70e-04  1.16e-03  1.76e-02 1.004
## 62917  -5.01e-03 -7.49e-03 -6.52e-03  2.13e-03  4.09e-04  1.62e-02 1.003
## 60671  -1.01e-04 -5.02e-03 -8.94e-03 -3.93e-03  9.53e-04  1.73e-02 1.003
## 70539  -3.51e-02 -1.34e-02 -1.20e-02 -2.14e-04  2.63e-02 -6.48e-02 1.001
## 14719   2.11e-02  1.02e-03  2.73e-02 -6.11e-03 -2.11e-02 -6.24e-02 0.995
## 82086   1.49e-02 -1.31e-02  9.06e-03  1.65e-03 -1.91e-02  3.38e-02 1.003
## 126463  5.88e-03  7.06e-03  6.30e-03  6.00e-05  2.89e-03  2.50e-02 1.003
## 35315  -1.06e-02  1.84e-02  1.55e-02 -2.17e-03 -4.27e-02 -8.79e-02 1.001
```

```
## 14986  -3.53e-02 -1.18e-02 -2.05e-02  1.84e-03 -1.95e-02  7.99e-02 1.001
## 96007   2.17e-04 -1.80e-03  7.39e-04  9.54e-04  5.60e-04  3.68e-03 1.005
## 26978  -4.39e-03 -3.96e-03  3.95e-03 -2.72e-03  6.09e-04  9.61e-03 1.003
## 1504   -1.82e-04  5.40e-04 -2.54e-04  1.48e-04 -2.10e-04 -2.10e-03 1.006
## 118362  1.08e-02  1.08e-02 -1.32e-02 -3.63e-03 -6.43e-05  2.91e-02 1.004
## 24697  -5.55e-03  7.24e-03  4.57e-03 -3.17e-03 -4.55e-04  2.09e-02 1.003
## 32363  -1.79e-02  1.05e-02  2.83e-02 -3.17e-03 -1.16e-02 -5.82e-02 0.996
## 26282  -5.41e-03 -9.05e-03  5.82e-03  1.24e-03 -1.41e-02  2.31e-02 1.004
## 89862  -1.48e-02 -1.74e-02 -1.05e-02  6.62e-03 -9.26e-03 -6.51e-02 0.998
## 95734  -1.76e-02 -8.54e-03 -9.78e-03  4.01e-03  9.94e-03  4.09e-02 1.004
## 37347   1.42e-02 -8.02e-03 -1.56e-02  2.49e-02  4.81e-03 -6.72e-02 0.996
## 56228  -2.59e-03  8.92e-03 -9.96e-03  2.08e-03 -6.48e-05  1.64e-02 1.003
## 96218   2.46e-03  8.99e-04  1.10e-03  2.68e-03 -1.52e-03  5.70e-03 1.004
## 122382 -1.26e-02  9.45e-03  6.67e-03 -2.98e-03 -2.84e-02  3.83e-02 1.004
## 104709 -2.31e-02  2.88e-02  1.87e-02  1.34e-04 -2.48e-02 -6.79e-02 0.998
## 4274   -1.79e-02 -1.11e-02  6.06e-03 -2.23e-02  9.52e-03  5.56e-02 1.008
## 127593  1.26e-02  5.69e-03  4.50e-03 -2.42e-03  1.24e-03  2.32e-02 1.004
## 46185  -8.31e-03  4.30e-02 -2.61e-02 -4.28e-03  6.06e-02 -9.05e-02 0.997
## 82932   1.92e-03  6.61e-03  5.09e-03  9.59e-05  2.52e-03  1.45e-02 1.002
## 74649  -2.99e-02 -2.16e-02 -1.89e-02  1.57e-02 -6.09e-03 -7.56e-02 0.995
## 19635  -3.06e-02 -2.17e-02  3.10e-02 -1.36e-02  2.90e-02 -6.63e-02 1.000
## 90371  -2.48e-03  4.39e-03  2.10e-03 -3.01e-03  1.27e-03  1.38e-02 1.004
## 30434  -1.23e-02  4.50e-02 -2.55e-02  2.71e-02  1.69e-02 -1.07e-01 0.997
## 59812  -1.82e-03  6.23e-04  1.23e-03 -1.06e-03 -8.87e-04  4.12e-03 1.004
## 53498  -7.02e-04 -6.49e-04  9.60e-04  1.44e-04  1.11e-04  2.90e-03 1.003
## 54205  -2.06e-03  1.68e-03  9.35e-04 -1.33e-03 -1.66e-03  5.77e-03 1.005
## 111207  6.59e-03  1.39e-02  1.47e-02 -9.99e-03  2.05e-02 -6.82e-02 1.004
## 26700  -9.38e-04  2.09e-03  1.49e-03 -1.01e-03 -6.83e-04  5.91e-03 1.004
## 28435   2.98e-03  4.72e-03  2.94e-03 -2.46e-03  8.76e-04  1.26e-02 1.003
## 34219  -2.49e-03 -1.21e-02  6.58e-03 -8.84e-03 -2.44e-03  2.91e-02 1.005
## 71398  -1.72e-03  1.68e-03  1.19e-03 -1.19e-03 -9.56e-04  4.74e-03 1.004
## 73397   8.97e-03  3.93e-03  3.22e-03  3.98e-03 -5.30e-04  1.38e-02 1.004
## 71979   1.42e-03  2.42e-03  1.37e-03 -1.69e-03  1.71e-04  7.26e-03 1.004
## 74452  -2.78e-03  8.94e-03 -9.85e-03  1.06e-03 -7.02e-04  1.72e-02 1.003
## 119547  1.63e-02  7.23e-03  3.24e-03 -1.58e-04 -1.45e-03  3.13e-02 1.004
## 48976  -2.09e-03  8.15e-03  8.32e-03  3.43e-03  1.07e-02  2.74e-02 1.003
## 18069   1.02e-02 -9.38e-03 -1.26e-02  1.46e-02  6.64e-03  3.26e-02 1.002
## 30459   3.81e-02 -2.17e-02 -1.58e-02  2.60e-03  3.62e-02 -7.74e-02 0.998
## 56512   2.45e-02 -2.20e-02 -1.38e-02 -2.03e-02  1.32e-02 -9.91e-02 0.997
## 126818 -3.36e-05 -1.26e-02  5.27e-03  3.97e-03  3.07e-02  5.14e-02 1.009
## 16375  -7.98e-03 -1.72e-02 -2.36e-02 -9.69e-03  1.65e-02  7.82e-02 1.003
## 16388  -3.26e-03 -3.42e-03  1.42e-03  4.63e-03 -9.97e-05  1.16e-02 1.006
## 115595  1.97e-03  1.08e-02  6.97e-03 -2.45e-03 -7.49e-03  3.22e-02 1.002
## 11215  -1.91e-02 -1.18e-02 -7.87e-03 -4.32e-03  2.19e-02  5.39e-02 1.006
## 101796  6.46e-03  9.62e-03 -1.15e-02  3.16e-03  1.02e-03  2.02e-02 1.003
## 129639 -1.22e-02 -1.40e-02 -9.95e-03  1.04e-04 -1.58e-02 -7.19e-02 1.001
## 3341   -8.12e-03  9.42e-03 -9.56e-03  4.27e-05  5.70e-03  2.78e-02 1.006
## 8532    4.53e-03  9.23e-03  8.24e-03  5.06e-03  1.37e-02  4.30e-02 1.005
## 70632  -5.33e-03 -1.08e-02  9.29e-03  4.47e-04 -2.39e-02  3.29e-02 1.004
## 36980  -1.61e-02 -7.73e-03  1.12e-02 -4.30e-03  1.08e-02  2.74e-02 1.004
## 36508  -1.35e-02  1.36e-02 -1.15e-02 -6.35e-03  9.59e-03  2.96e-02 1.003
## 608    -1.14e-02 -8.56e-03 -7.86e-03  2.19e-03  1.12e-02  3.65e-02 1.006
## 1938   -5.87e-04  8.88e-04  4.34e-04  1.36e-03 -1.10e-04  5.15e-03 1.006
## 42194  -1.42e-03  7.40e-03 -1.39e-02 -5.69e-03  1.94e-03  2.29e-02 1.002
## 14525   1.14e-02  5.38e-03  2.67e-03  8.47e-04 -8.53e-03  2.63e-02 1.004
## 99797   2.55e-03  3.37e-03 -6.81e-03  1.39e-03 -3.42e-03  1.28e-02 1.004
## 127269  3.69e-04 -4.15e-03  2.91e-03 -6.73e-04  3.15e-04  9.52e-03 1.004
## 112162 -9.02e-03  1.47e-02 -1.87e-02 -8.11e-03 -3.61e-02  5.27e-02 1.006
## 95018  -8.45e-03 -1.10e-02  6.97e-03 -5.70e-03  1.80e-04  2.42e-02 1.004
## 78651  -1.09e-02 -5.00e-03 -9.72e-03 -5.42e-03  1.78e-03  2.95e-02 1.004
## 69708   5.59e-03  1.13e-02  8.63e-03  5.87e-03 -6.56e-03  4.58e-02 1.002
## 78865   5.79e-03  4.20e-03  2.91e-03 -2.67e-03  7.13e-04  1.46e-02 1.004
## 98563   3.03e-03 -5.48e-03  3.44e-02  1.98e-03 -2.77e-03 -5.63e-02 0.994
## 113205  1.06e-02 -9.01e-03  4.90e-03  4.70e-03  2.15e-04  1.64e-02 1.004
## 38685   9.77e-03  4.08e-03 -1.24e-02  5.79e-04  5.24e-03  2.26e-02 1.002
## 104063  5.63e-03  2.28e-02  2.28e-02  5.98e-03 -2.42e-02 -7.13e-02 0.996
## 75366  -3.45e-02  1.26e-02  2.63e-02  6.78e-03 -5.39e-03 -7.23e-02 0.997
## 543    -5.30e-03 -8.46e-03  6.56e-03  1.13e-03  7.27e-03  2.51e-02 1.006
## 64153   4.65e-04  4.05e-03  1.99e-03  5.23e-04 -4.32e-04  1.14e-02 1.003
## 117083  6.17e-02 -2.86e-02 -1.99e-02  3.33e-02 -2.45e-02 -1.14e-01 1.001
## 94834  -2.87e-03  1.62e-03  3.54e-03 -1.84e-03  3.74e-04  8.00e-03 1.003
## 27446  -2.26e-03 -5.78e-03  3.45e-03 -5.38e-03  6.26e-04  1.52e-02 1.005
## 55893   4.84e-03  6.54e-03  3.57e-03 -4.85e-03 -1.29e-02  2.51e-02 1.004
## 117611 -4.80e-03 -4.93e-03  3.41e-03 -1.58e-03 -9.65e-04  1.17e-02 1.005
## 31870   9.75e-03  8.90e-03  2.34e-02  2.52e-03  4.12e-02 -6.47e-02 1.000
## 81039   4.86e-03  2.80e-03  1.45e-03 -1.28e-03 -2.29e-03  1.12e-02 1.005
## 41474   3.13e-03 -7.06e-03  2.31e-03  5.55e-03  1.78e-03  1.67e-02 1.006
## 39222  -3.90e-04 -5.72e-03  7.72e-03  7.03e-03 -2.24e-02  3.04e-02 1.003
## 35350  -1.39e-02  1.54e-02  8.70e-03  1.04e-02 -7.62e-03  7.09e-02 1.002
## 48318   1.49e-03 -5.73e-03 -4.89e-03 -6.00e-04 -2.11e-03  1.22e-02 1.004
## 39268  -1.38e-03  2.45e-03  5.94e-03  1.61e-03 -1.43e-02  2.52e-02 1.003
## 112741 -6.53e-03  8.05e-03 -1.03e-02 -5.67e-03  1.64e-03  1.87e-02 1.003
## 59289  -6.12e-03  3.56e-02 -2.55e-02  4.93e-03  1.27e-02 -8.37e-02 0.997
## 122007  2.18e-03 -8.99e-03  5.85e-03  2.93e-03 -5.89e-03  2.98e-02 1.005
## 96372  -1.72e-02  2.93e-03 -2.18e-02 -1.75e-02 -6.69e-03  5.90e-02 1.003
## 14598   8.18e-03  2.71e-02 -2.78e-02  2.01e-02 -7.67e-04 -7.12e-02 0.996
## 65819  -9.79e-03  1.31e-02 -1.62e-02 -4.31e-03  1.86e-02 -5.89e-02 1.003
## 79695  -1.44e-02  7.90e-03  2.60e-03 -1.13e-02 -3.73e-03  3.50e-02 1.006
## 106250 -2.35e-02  1.78e-02  2.23e-02 -1.82e-02 -2.13e-02 -6.46e-02 0.997
## 38570   4.14e-04 -3.97e-03 -1.30e-02  4.47e-03  1.83e-02  3.87e-02 1.007
## 33607   1.30e-02 -1.69e-02 -9.42e-03 -3.71e-02  2.75e-02 -8.68e-02 1.003
## 48304   3.85e-04  1.52e-03  1.10e-03  1.11e-03 -1.45e-03  4.80e-03 1.004
## 20104   5.55e-03 -4.12e-03  2.77e-03  9.09e-03 -1.85e-04  1.42e-02 1.005
## 19227  -3.77e-03  6.81e-03 -2.65e-02  9.90e-03 -5.23e-03 -5.36e-02 0.992
## 126984  1.97e-02 -2.21e-02  2.68e-02 -6.33e-04  2.35e-02 -7.95e-02 1.003
## 3777   -2.05e-04  6.87e-03 -7.85e-03 -3.45e-03 -4.64e-04  1.94e-02 1.005
## 94613   5.79e-03 -7.21e-04 -6.28e-03  1.24e-04 -3.40e-03  1.62e-02 1.004
## 75702   1.49e-03 -1.55e-03  1.01e-03  2.34e-03 -5.01e-04  3.85e-03 1.004
```

```
## 42903   2.13e-02  1.62e-02 -1.90e-02  1.82e-02  1.07e-02  5.55e-02 1.004
## 12617  -5.21e-04 -2.12e-03  1.17e-03  2.96e-04 -1.26e-05  4.97e-03 1.005
## 16800  -2.46e-03  2.21e-02  1.72e-02 -4.44e-03  2.45e-02 -6.15e-02 1.001
## 80273   8.48e-03 -8.07e-03  3.80e-03  4.04e-03 -1.35e-03  1.62e-02 1.005
## 27860   3.62e-03 -8.89e-03 -7.10e-03  2.65e-03  6.24e-05  1.62e-02 1.003
## 37859   5.93e-03 -1.68e-02 -1.47e-02  3.90e-03 -2.54e-02  4.37e-02 1.003
## 65144   1.38e-03 -3.33e-02  3.41e-02  6.95e-03 -1.30e-02 -5.91e-02 0.996
## 107608 -5.46e-03  7.15e-03  2.65e-03 -4.44e-03 -2.18e-02  3.18e-02 1.005
## 1680   -3.42e-02 -3.56e-02  5.30e-02  2.09e-02  9.66e-03 -1.38e-01 0.997
## 127935 -4.75e-03  7.28e-03 -8.49e-03 -2.38e-03 -3.58e-04  1.81e-02 1.004
## 7231    1.02e-04  2.44e-04  1.92e-03 -1.91e-03  1.83e-04  8.56e-03 1.005
## 65966   3.64e-03  6.97e-03  6.13e-03 -3.78e-03  4.70e-03  1.68e-02 1.003
## 55764  -8.78e-03 -2.34e-02  2.58e-02  8.18e-03  1.40e-02 -7.22e-02 1.001
## 22023  -3.02e-03  8.85e-03  7.90e-03 -1.51e-03  5.63e-03  2.33e-02 1.002
## 43214  -1.38e-03  1.96e-02 -2.69e-02 -6.95e-03 -9.53e-03 -7.07e-02 0.996
## 11924   6.14e-03  1.22e-02 -1.52e-02  1.45e-02  3.07e-03  4.04e-02 1.005
## 56750   1.46e-03  1.61e-03  4.58e-03  6.01e-03 -4.05e-03  2.70e-02 1.003
## 83171  -1.27e-02  5.23e-04 -1.06e-02 -4.40e-03  5.06e-03  2.66e-02 1.003
## 109524 -4.66e-03 -1.09e-02 -7.12e-03 -2.20e-03  4.43e-03  2.42e-02 1.003
## 110468 -2.15e-03 -1.86e-03 -1.66e-02 -1.45e-03 -3.41e-02  4.49e-02 1.003
## 45121   2.49e-02  2.84e-02  2.70e-02  1.83e-02  1.24e-02 -7.77e-02 0.998
## 38475   1.09e-02  1.64e-02 -2.22e-02 -3.24e-03 -2.06e-02  4.53e-02 1.002
## 64374   2.40e-03  9.47e-04  2.14e-03 -1.80e-03 -9.30e-04  7.81e-03 1.004
## 26248  -9.96e-03  8.26e-03  3.92e-03 -3.04e-03  3.86e-03  2.78e-02 1.003
## 36206   7.80e-03 -5.86e-03  4.51e-03 -2.02e-03 -1.47e-03  1.65e-02 1.004
## 113193 -6.22e-04  2.96e-02  2.22e-02 -3.13e-03 -2.11e-03 -6.41e-02 0.998
## 100500  8.25e-04 -1.12e-02 -9.16e-03 -4.92e-03  3.23e-03  2.96e-02 1.003
## 46515   1.77e-02  8.20e-03  7.62e-03  7.68e-04  2.51e-03  3.36e-02 1.003
## 113380  2.40e-03  6.20e-03  5.49e-03  2.95e-04  2.87e-03  1.59e-02 1.003
## 85531   2.21e-03 -2.45e-02  1.13e-02  8.98e-03  2.06e-02  5.70e-02 1.004
## 72383   2.26e-03 -3.72e-03  4.81e-03 -7.08e-04  9.63e-04  1.04e-02 1.003
## 64685  -5.26e-03  5.75e-03  1.53e-03  1.28e-02  1.37e-02  3.19e-02 1.006
## 14905  -1.00e-03  1.67e-03  7.63e-05 -6.62e-05  8.52e-03  1.37e-02 1.012
## 17582   3.51e-03 -2.34e-03  3.53e-03 -9.05e-04  1.63e-03  2.06e-02 1.004
## 13149   6.71e-03  5.84e-03  1.29e-03  5.58e-03 -1.42e-02  3.41e-02 1.006
## 26864   3.52e-03  1.08e-02  8.87e-03 -1.75e-03 -2.94e-02  4.30e-02 1.002
## 92468  -1.32e-02  2.40e-02 -2.08e-02  5.53e-03  2.46e-02 -6.74e-02 1.000
## 82919  -2.61e-02 -1.49e-02 -1.66e-02  2.37e-03 -5.72e-03 -7.68e-02 0.993
## 9317    3.51e-02  5.15e-02 -3.69e-02 -2.59e-02 -1.23e-02 -1.30e-01 0.993
## 26441   2.79e-03  4.10e-03  3.56e-03  1.53e-04 -9.65e-04  1.16e-02 1.003
## 101258 -1.14e-03 -3.49e-04  1.30e-03 -1.53e-03  3.90e-04  4.36e-03 1.004
## 119520  8.39e-03 -1.34e-02  1.15e-02  7.25e-03  8.87e-03  2.78e-02 1.003
## 128292  5.04e-03  8.15e-03 -1.48e-02 -6.73e-03  4.47e-03  3.17e-02 1.002
## 98917   2.82e-03  3.63e-03  2.62e-03  4.98e-03  4.19e-04  9.95e-03 1.003
## 89878   4.70e-03  5.73e-03 -1.06e-02 -2.81e-03  1.24e-03  1.87e-02 1.003
## 99519   6.54e-03 -5.92e-03  4.99e-03 -3.73e-04 -7.98e-05  1.21e-02 1.003
## 79193   3.02e-04 -1.14e-02  8.82e-03 -2.96e-03  4.10e-03  1.83e-02 1.003
## 36179  -2.26e-02 -3.10e-02  3.45e-02  4.20e-03 -1.14e-02 -6.16e-02 0.996
## 34869   1.38e-02  2.80e-03 -1.75e-02 -6.26e-03  8.09e-03  4.64e-02 1.003
## 120880  2.66e-03  7.81e-03  6.40e-03  1.41e-02  4.12e-03  2.57e-02 1.003
## 3945   -2.33e-02 -1.57e-03 -2.44e-02  5.57e-03 -2.41e-03 -1.11e-01 0.992
## 25612  -9.28e-03  3.05e-03  5.94e-03 -5.86e-03  2.68e-03  1.57e-02 1.003
## 62555   3.31e-02 -3.66e-02  3.38e-02  1.15e-03 -1.76e-02 -7.26e-02 0.996
## 96499   9.36e-03 -9.53e-03 -7.16e-03  3.29e-03  7.82e-04  2.12e-02 1.003
## 68907  -4.16e-02  1.64e-03 -1.12e-02 -1.61e-02  4.27e-02 -8.52e-02 1.000
## 44865   7.58e-03 -7.08e-03 -6.93e-03 -9.47e-04  8.90e-04  1.88e-02 1.005
## 107885 -8.37e-03 -9.92e-03 -1.87e-02 -6.19e-03  1.15e-03  4.71e-02 1.002
## 65539  -5.12e-02  1.84e-02 -2.61e-02  2.37e-03 -5.17e-03 -8.29e-02 0.995
## 22135  -5.52e-03 -1.99e-02  1.33e-02  3.60e-03 -1.68e-02  4.88e-02 1.004
## 63814  -2.91e-03 -6.35e-04  4.41e-03 -3.19e-03  7.96e-04  9.29e-03 1.003
## 7925    6.50e-03 -1.97e-03  2.71e-03  2.85e-03 -1.13e-02  2.29e-02 1.006
## 127120  3.04e-03  5.83e-03 -1.20e-02  4.03e-03  1.48e-03  2.33e-02 1.003
## 48872  -1.75e-03  1.50e-03  8.67e-04 -1.35e-03  1.85e-04  4.29e-03 1.004
## 59892   2.80e-02 -1.91e-03  7.93e-03  8.94e-03 -4.10e-02  6.27e-02 1.004
## 47432  -4.21e-02  3.20e-02 -2.69e-02  6.31e-03 -3.02e-03 -9.65e-02 0.995
## 107597 -2.14e-03 -2.13e-03  4.02e-03 -2.06e-03 -3.14e-04  9.84e-03 1.003
## 49679  -1.52e-03  8.15e-03 -1.01e-02  5.22e-03 -6.95e-04  1.84e-02 1.003
## 130572  9.97e-03  3.44e-03 -1.22e-02 -2.91e-03  6.81e-04  2.60e-02 1.003
## 11505  -3.88e-02 -2.76e-02  4.81e-02 -1.01e-03 -1.17e-02 -1.22e-01 0.999
## 64104   2.62e-03  2.15e-03  1.37e-03  5.11e-04 -6.72e-04  6.53e-03 1.004
## 123942 -1.31e-03  1.27e-02  1.24e-02  1.18e-02 -3.18e-02  6.81e-02 1.003
## 102586 -1.37e-02  1.12e-02  6.57e-03 -7.77e-03  1.60e-03  3.43e-02 1.002
## 10559   5.04e-02 -4.13e-02  3.99e-02  2.49e-04 -1.38e-02 -1.23e-01 0.996
## 54649  -1.20e-02 -9.09e-03 -8.14e-03 -7.02e-03  7.50e-03  3.04e-02 1.004
## 99210  -2.20e-03 -4.20e-03  4.47e-03  2.03e-03  1.88e-04  2.46e-02 1.004
## 117791 -1.84e-03  1.60e-03  9.24e-04 -9.93e-04  8.83e-05  4.14e-03 1.004
## 69785   3.31e-03 -9.46e-03 -1.27e-02  1.43e-03 -7.00e-04  3.01e-02 1.003
## 78677   6.64e-03 -2.65e-03 -7.95e-03 -3.17e-03  1.47e-03  1.81e-02 1.004
## 2689    7.31e-04  2.40e-02  3.58e-02 -1.04e-02  2.84e-02 -1.26e-01 1.000
## 62956   2.67e-03 -1.62e-02  8.37e-03 -8.53e-03  6.71e-03  3.37e-02 1.004
## 93611   4.90e-04  9.93e-03 -1.09e-02 -2.57e-03  8.63e-04  1.79e-02 1.003
## 105004 -5.07e-03  3.39e-03  1.65e-03 -1.55e-03  2.37e-03  1.28e-02 1.005
## 61827   9.24e-03  4.62e-03  1.80e-03 -3.50e-03 -6.74e-05  2.01e-02 1.004
## 93612   3.52e-03 -9.41e-03  8.05e-03  2.75e-03  3.48e-03  1.65e-02 1.003
## 49949   9.83e-03 -6.63e-03  5.52e-03 -1.82e-03 -1.25e-03  1.70e-02 1.004
## 106706 -5.53e-04  8.84e-03  9.08e-03 -2.70e-03  1.24e-02  2.75e-02 1.003
## 23244   1.61e-02  9.28e-03 -1.27e-02  8.71e-03  3.87e-04  2.60e-02 1.004
## 95078   5.16e-03  1.12e-02  2.73e-03  1.39e-03  2.08e-02  6.30e-02 1.004
## 12488   2.33e-04 -1.43e-03  1.65e-03  4.27e-04  1.30e-04  6.19e-03 1.005
## 97480  -9.51e-03 -1.13e-02 -9.20e-03 -6.53e-03  1.79e-03  2.65e-02 1.003
## 69308   8.38e-04 -6.67e-03 -9.60e-03 -3.10e-03  3.60e-03  2.08e-02 1.002
## 1194   -2.13e-02  1.47e-02 -1.19e-02  1.32e-02  2.66e-02  5.74e-02 1.008
## 117305  5.63e-03  6.15e-03  4.38e-03  3.44e-03  2.42e-03  2.12e-02 1.004
## 22230   6.26e-03 -1.07e-03 -1.60e-02 -5.21e-03 -1.79e-03  5.15e-02 1.003
## 105510 -3.37e-04 -1.68e-03  1.27e-03 -7.19e-04  2.61e-04  3.96e-03 1.004
## 61030  -2.08e-02  1.60e-02  2.04e-02  2.63e-03 -2.63e-02 -6.22e-02 0.998
## 646    -5.98e-03  6.39e-03 -6.96e-03 -3.51e-03  1.71e-04  1.78e-02 1.005
## 80191   9.06e-03 -8.90e-03 -2.32e-02 -2.41e-03 -2.54e-03  5.35e-02 1.000
```

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## 90750  -2.60e-03 -3.77e-03  3.60e-03  1.01e-03  1.06e-04  8.06e-03 1.003
## 72330   1.16e-02 -9.28e-03  8.41e-03 -1.42e-03  2.28e-03  2.08e-02 1.003
## 6322    4.01e-04 -4.38e-04  2.18e-04 -1.12e-04 -8.35e-05  1.07e-03 1.006
## 121358  2.58e-03 -7.69e-03  5.84e-03 -2.16e-03  6.18e-04  1.28e-02 1.004
## 75067  -1.10e-03 -1.73e-03  1.17e-03 -3.91e-04 -2.22e-04  3.06e-03 1.004
## 104859 -1.20e-02  1.30e-02 -1.19e-02 -4.22e-03  6.11e-03  2.48e-02 1.003
## 105910 -2.66e-02  1.97e-02  2.78e-02 -2.43e-03 -4.96e-03 -6.16e-02 0.996
## 114469 -1.01e-02  1.69e-02 -1.39e-02 -8.08e-03  1.78e-02  3.79e-02 1.003
## 61677   6.69e-03 -1.01e-02 -8.82e-03 -3.58e-03  5.67e-04  2.13e-02 1.003
## 98245   2.14e-02  1.89e-02 -2.54e-02  1.32e-03 -3.08e-02  5.60e-02 1.001
## 93588  -9.24e-03  8.85e-03 -9.71e-03 -3.03e-03  5.86e-04  1.97e-02 1.004
## 101308  3.80e-02  1.51e-02 -2.57e-02 -1.97e-02 -3.34e-02 -1.04e-01 1.001
## 54083  -2.54e-03  7.13e-03  4.51e-03 -2.62e-03 -6.49e-04  2.03e-02 1.003
## 98715   2.10e-02  1.78e-02 -2.42e-02  1.53e-02  5.52e-02 -8.08e-02 0.999
## 100759  1.43e-04  4.37e-03  3.89e-03 -1.76e-03 -3.06e-04  1.14e-02 1.003
## 86953  -9.73e-03  7.69e-03  2.91e-03 -8.99e-03 -2.42e-03  2.95e-02 1.005
## 25451  -4.54e-03 -9.43e-03 -9.64e-03  1.59e-02  2.82e-03  3.03e-02 1.005
## 39733  -2.18e-03  8.20e-03  6.51e-03  6.54e-03  1.22e-02  3.05e-02 1.004
## 47439   8.41e-03  6.99e-03  3.07e-03 -5.90e-03 -1.04e-03  2.89e-02 1.004
## 125939 -4.47e-03  3.18e-02 -2.19e-02 -1.57e-02  4.15e-02 -9.97e-02 0.996
## 26789   2.13e-02  2.84e-02  2.15e-02 -5.25e-03 -7.67e-03 -6.55e-02 0.997
## 16045   2.78e-02  1.44e-02  2.20e-02  2.17e-02 -2.31e-02 -6.94e-02 0.996
## 87267  -1.56e-02 -6.44e-03 -7.03e-03  3.13e-03  7.01e-03  2.60e-02 1.004
## 85045   1.30e-02 -9.92e-03 -8.78e-03  1.47e-02 -1.68e-05  2.61e-02 1.005
## 105502 -5.72e-04 -4.29e-03 -9.42e-03 -1.04e-03 -1.14e-04  2.08e-02 1.004
## 49563   5.03e-03 -3.03e-03  1.80e-03  5.17e-04 -1.13e-03  9.63e-03 1.005
## 61074  -2.04e-02 -9.16e-04 -1.70e-02  2.41e-02  2.32e-03 -8.02e-02 0.997
## 8440    1.80e-02  7.95e-03  3.32e-03 -9.77e-03  1.05e-02  5.12e-02 1.005
## 64892   2.06e-02  4.93e-03  1.99e-02  7.80e-03 -5.27e-02 -9.14e-02 1.000
## 74319  -7.71e-03  1.18e-02  1.19e-02 -5.37e-03  1.57e-02  3.84e-02 1.003
## 57831  -8.73e-04  6.07e-03  3.20e-03  1.30e-03 -7.82e-04  2.35e-02 1.004
## 71564   7.34e-03  1.22e-02  1.49e-02  8.11e-03  2.70e-02  6.43e-02 1.004
## 45636   3.98e-02  1.11e-02 -2.00e-02  1.52e-02  3.16e-02 -8.40e-02 1.003
## 89683   6.26e-03 -1.96e-02  1.12e-02 -4.18e-03 -1.67e-02  5.27e-02 1.005
## 52351  -1.25e-02  1.27e-02 -1.79e-02  9.30e-03  1.32e-02 -6.28e-02 0.998
## 62019   2.53e-03  9.17e-04  2.89e-04  1.24e-03  4.96e-04  6.93e-03 1.005
## 119726 -4.34e-03 -1.06e-03 -4.41e-03 -4.11e-04 -1.12e-03  1.24e-02 1.004
## 67787   4.52e-03 -8.23e-03  4.72e-03  2.51e-05 -2.11e-02  2.73e-02 1.007
## 55909  -1.50e-02  1.31e-02 -1.11e-02 -8.10e-03  5.74e-03  2.83e-02 1.003
## 66239  -2.89e-02  3.77e-03 -1.05e-02  8.56e-03 -6.21e-02 -1.15e-01 1.000
## 48956   1.76e-03  1.51e-02 -2.07e-02 -3.05e-03 -1.99e-02  4.49e-02 1.003
## 52861   1.72e-02  2.63e-02 -3.11e-02  3.97e-03 -2.68e-02  8.24e-02 1.000
## 27165  -1.00e-02  7.63e-03  3.94e-03 -9.52e-04  9.39e-04  2.54e-02 1.003
## 64090   2.14e-02  1.61e-02  1.47e-02  1.75e-03 -5.37e-02 -9.75e-02 1.003
## 102990  2.59e-03 -1.07e-02  6.46e-03  3.56e-04 -1.61e-02  2.59e-02 1.004
## 103996 -1.63e-03  2.25e-03  3.94e-03 -4.58e-03 -7.18e-03  2.10e-02 1.003
## 69887   5.93e-03 -6.45e-03  2.09e-03  3.41e-03  1.92e-02  3.15e-02 1.010
## 47301   1.63e-02 -1.83e-02 -1.44e-02 -4.37e-03 -7.37e-03  4.91e-02 1.003
## 69230   4.80e-03 -7.98e-03  4.38e-03  1.24e-03  2.92e-04  1.33e-02 1.004
## 43126  -4.07e-03  5.02e-03  1.94e-03  3.86e-03 -6.81e-04  1.86e-02 1.004
## 33570   1.06e-02 -1.23e-02 -9.17e-03  9.23e-03  1.49e-02 -6.18e-02 1.004
## 28919   4.68e-03  1.32e-02  1.04e-02  4.50e-04 -1.71e-02  6.94e-02 1.005
## 56683   6.20e-03 -5.44e-03 -7.91e-03 -1.60e-03 -9.44e-04  1.75e-02 1.003
## 25635  -5.74e-02 -1.72e-02 -5.25e-03 -8.85e-03  3.34e-02 -9.68e-02 0.998
## 102788 -2.71e-03  4.60e-03  2.90e-03 -3.26e-03  1.13e-03  1.10e-02 1.003
## 42153  -2.06e-03  6.69e-03  6.45e-03 -3.53e-03  5.34e-03  1.80e-02 1.003
## 65758   7.19e-03  4.60e-03  2.87e-03  1.29e-03  1.88e-04  1.69e-02 1.004
## 127024  5.74e-02  6.98e-03  2.51e-02  2.71e-02 -1.10e-02 -9.22e-02 0.997
## 73627   6.05e-02  1.49e-02  2.71e-02  1.10e-02 -5.32e-03 -9.13e-02 0.994
## 23833  -1.65e-02 -1.27e-02 -9.83e-03  4.58e-03  1.14e-02 -5.78e-02 1.002
## 98196  -7.02e-03  5.49e-03  4.16e-03  5.67e-03  2.65e-03  1.54e-02 1.003
## 65693   9.67e-03  4.41e-03  3.61e-03 -3.52e-04 -2.86e-04  1.48e-02 1.003
## 79629  -5.50e-04  6.34e-03  6.05e-03 -2.61e-03  2.79e-03  1.88e-02 1.003
## 87435  -1.37e-02  2.07e-02  2.06e-02 -1.93e-02 -3.58e-02 -8.42e-02 1.000
## 26406   1.37e-02 -1.09e-02 -9.24e-03  8.62e-04  7.66e-05  2.40e-02 1.003
## 44833  -7.20e-03  9.90e-03 -1.11e-02 -5.55e-03  1.51e-03  1.97e-02 1.003
## 51192  -3.80e-02 -2.53e-02 -1.97e-02  8.32e-03 -5.15e-03 -7.60e-02 0.993
## 69914   3.13e-03 -1.47e-02 -8.65e-03 -8.67e-04  1.57e-02  3.57e-02 1.003
## 9113    2.94e-02 -2.73e-02 -2.57e-02  1.74e-02 -5.30e-02 -1.20e-01 0.998
## 12498  -1.39e-02 -3.20e-02 -1.86e-02  8.15e-03  1.57e-02 -1.29e-01 0.990
## 42604  -1.06e-02 -2.23e-03  6.26e-03 -8.20e-03  1.92e-03  2.19e-02 1.004
## 98375   5.93e-03 -3.48e-03  1.84e-03  1.98e-04  8.32e-04  9.59e-03 1.005
## 127598  4.98e-03  4.94e-03  3.21e-03  2.98e-03 -2.30e-03  2.04e-02 1.004
## 55948  -7.85e-03 -3.47e-02  4.36e-02 -4.33e-03 -5.40e-04 -6.89e-02 0.994
## 106752 -1.04e-02  7.09e-03 -1.23e-02  2.66e-03  2.67e-03  2.20e-02 1.003
## 103776  3.39e-03  1.33e-02 -1.33e-02 -5.16e-03  5.77e-03  2.60e-02 1.002
## 84445  -1.56e-03  3.74e-03  1.90e-03  1.45e-03 -4.25e-04  1.05e-02 1.004
## 113137  1.35e-02 -1.59e-02  1.28e-02  1.58e-03 -2.41e-02  4.09e-02 1.002
## 18808   2.98e-03  4.73e-03 -1.06e-02  1.73e-03  1.35e-04  1.67e-02 1.003
## 80573   7.88e-03 -3.58e-03 -9.68e-03 -2.30e-03  4.30e-04  1.81e-02 1.003
## 80964   1.20e-02 -1.37e-02 -1.07e-02  1.98e-03  1.41e-03  2.65e-02 1.003
## 114299  1.30e-03  2.01e-03  1.34e-03  7.55e-04 -7.05e-04  6.09e-03 1.004
## 84673  -7.03e-04  7.90e-03  3.97e-03  3.24e-03 -2.86e-03  2.50e-02 1.003
## 69849   1.30e-02  3.55e-03  9.88e-04  4.25e-04 -1.07e-03  2.32e-02 1.006
## 30346  -3.39e-03  3.90e-03  2.90e-03 -1.48e-03  2.35e-04  9.29e-03 1.003
## 110406 -1.23e-02 -2.79e-02 -2.30e-02 -3.94e-03 -7.60e-03 -7.57e-02 0.992
## 115270 -8.76e-03 -8.01e-03 -7.56e-03 -4.71e-03  4.39e-03  2.36e-02 1.003
## 70810   1.23e-02 -1.04e-02 -8.11e-03 -5.30e-04  5.85e-04  2.31e-02 1.003
## 87713   3.39e-04  3.28e-03  1.93e-03  6.27e-03  6.18e-04  1.02e-02 1.004
## 11923   7.44e-03  2.08e-02  2.73e-02  1.41e-02  2.28e-02 -9.74e-02 1.000
## 47367   4.22e-03 -6.38e-03 -1.06e-02  6.34e-03  1.03e-03  2.92e-02 1.004
## 18815  -3.04e-03 -6.46e-03  3.91e-02 -8.45e-02  6.43e-02 -1.20e-01 1.000
## 65997  -7.17e-04 -1.44e-03  9.29e-04  6.51e-05 -3.20e-04  2.56e-03 1.004
## 40266  -2.89e-03 -7.68e-03 -1.06e-02  1.83e-02  1.01e-02  3.36e-02 1.003
## 11065  -1.06e-05 -7.72e-04  9.16e-04  5.51e-04 -3.17e-04  5.82e-03 1.005
## 97605   1.51e-03  1.16e-03  1.11e-03  9.59e-04 -2.60e-04  4.78e-03 1.003
## 116089  5.51e-03  6.87e-03  6.24e-03 -4.89e-03  3.82e-03  1.80e-02 1.003
## 119379  2.10e-03  4.43e-03  2.31e-03 -1.45e-03  9.08e-04  1.32e-02 1.003
```

```
## 58213   2.96e-02  4.89e-02 -3.91e-02  6.12e-03 -8.82e-03 -8.78e-02 0.992
## 90153   5.84e-03 -1.22e-02 -7.76e-03  2.93e-03  2.76e-03  2.81e-02 1.003
## 11863   2.76e-03  6.70e-03  3.68e-03 -5.93e-03 -1.25e-02  3.26e-02 1.005
## 38480  -5.15e-03  6.94e-03  1.51e-03  1.33e-02 -5.26e-03  3.03e-02 1.004
## 13376   1.08e-03 -4.29e-03  5.65e-03 -2.00e-03 -1.46e-02  3.07e-02 1.005
## 6296    1.67e-03  1.85e-03  1.36e-03  1.01e-03 -7.06e-04  8.43e-03 1.005
## 3621   -5.26e-04  1.32e-03  1.77e-03 -4.82e-03  1.15e-03  1.90e-02 1.006
## 83905   1.57e-02  9.42e-03 -1.18e-02  3.69e-03 -2.76e-03  2.65e-02 1.004
## 13679  -8.05e-05 -9.00e-03 -7.93e-03  1.72e-03 -5.07e-04  2.90e-02 1.005
## 70158  -7.21e-04 -1.63e-02 -1.04e-02  1.51e-02 -1.67e-02 -6.72e-02 1.000
## 106881  3.69e-04 -6.94e-03  1.04e-02  1.26e-02 -2.12e-02  4.02e-02 1.003
## 17986   1.60e-02 -2.30e-02 -1.26e-02  3.77e-03  1.75e-02 -7.01e-02 0.996
## 127768 -1.79e-04 -2.46e-03  2.23e-03  2.58e-03 -5.35e-04  7.95e-03 1.005
## 116420  1.08e-02  3.26e-03 -2.94e-02  1.02e-02 -3.90e-02 -7.95e-02 0.996
## 29491  -8.31e-04  1.11e-04  3.89e-04  3.07e-04 -4.60e-05  2.69e-03 1.004
## 16722  -1.58e-03 -1.83e-02 -8.45e-03  1.41e-02  1.62e-02 -7.84e-02 1.001
## 57778  -3.41e-03  1.24e-02 -1.49e-02  3.03e-03  1.80e-03  2.87e-02 1.003
## 120906 -7.05e-03  3.43e-03  2.46e-03 -1.09e-03  4.24e-04  9.95e-03 1.004
## 58441  -2.47e-04 -3.41e-04  1.88e-04  3.09e-04 -4.89e-05  9.68e-04 1.005
## 38727   5.74e-03  1.50e-03  4.12e-03 -4.95e-04  6.15e-04  1.15e-02 1.003
## 106943 -2.35e-03  6.16e-03  3.15e-03 -2.61e-03 -9.17e-03  2.09e-02 1.003
## 65658  -1.99e-02 -2.07e-02 -1.69e-02 -2.27e-03 -1.59e-03 -6.63e-02 0.997
## 49559  -3.35e-04  4.34e-03  3.29e-03 -1.18e-03  7.78e-04  9.22e-03 1.003
## 127459  7.38e-04  8.42e-03  5.43e-03 -2.93e-03 -3.48e-03  3.62e-02 1.003
## 56222   1.91e-02 -1.68e-02  1.22e-02  1.25e-02  1.39e-02  3.88e-02 1.005
## 68645  -2.33e-03  8.05e-03  4.32e-03 -7.55e-03  3.01e-03  2.74e-02 1.003
## 115735  6.60e-03  1.01e-02 -1.17e-02 -4.93e-04  1.15e-03  2.10e-02 1.003
## 128594  8.03e-04  5.54e-03  4.03e-03 -4.38e-03  1.71e-03  1.66e-02 1.003
## 21526  -1.29e-03  3.43e-03  2.61e-03  4.01e-03  6.52e-04  9.46e-03 1.004
## 71520  -3.75e-03 -4.69e-03  3.69e-03 -2.55e-03 -6.23e-04  1.15e-02 1.004
## 85892  -2.20e-03  5.62e-03 -9.69e-03 -5.22e-03  1.39e-04  1.61e-02 1.003
## 92135  -8.31e-03 -2.66e-02  4.40e-02 -2.54e-02  4.31e-05 -7.05e-02 0.994
## 107818  1.44e-03  6.62e-04 -5.38e-05  2.87e-03  9.63e-04  5.06e-03 1.007
## 124488 -3.88e-02 -1.87e-02  2.83e-02 -8.52e-03  2.31e-02 -7.23e-02 1.002
## 57213  -1.41e-02  8.32e-03 -1.43e-02 -8.41e-03  2.32e-02  4.77e-02 1.002
## 123230 -8.57e-03 -1.53e-02 -8.96e-03 -2.85e-04  1.26e-02  4.35e-02 1.003
## 103866  2.47e-03  5.16e-03  1.47e-03 -2.62e-03  1.29e-02  2.81e-02 1.006
## 111461  1.93e-02 -3.02e-02 -2.27e-02  2.42e-02 -8.93e-03 -7.09e-02 0.992
## 108702 -4.88e-03  3.95e-02  3.18e-02 -4.47e-02  7.56e-03 -9.25e-02 0.994
## 56067   4.17e-03  1.16e-02 -2.04e-02 -3.85e-03  3.84e-02 -6.69e-02 1.000
## 69070  -6.29e-04  1.29e-02  1.09e-02 -3.51e-04 -2.07e-02  4.57e-02 1.001
## 72808  -2.34e-03 -4.60e-03 -3.82e-03  5.43e-04 -2.26e-03  1.16e-02 1.004
## 97857  -3.79e-03  9.80e-03 -1.06e-02 -4.98e-03  5.29e-04  1.78e-02 1.003
## 20842   8.29e-05  1.61e-03 -7.65e-03  1.90e-02 -1.56e-03  2.33e-02 1.008
## 66851  -8.65e-04  7.41e-03  2.42e-03  1.22e-02  2.73e-02  5.01e-02 1.006
## 62179   4.44e-03  1.28e-02 -1.30e-02 -4.14e-03  3.44e-03  3.01e-02 1.003
## 58179   1.06e-02  4.23e-03  2.82e-03 -9.48e-04  5.99e-04  1.66e-02 1.004
## 39998  -7.92e-03  6.16e-03  5.45e-03  1.83e-03  7.74e-03  2.01e-02 1.004
## 117751 -3.58e-03 -1.59e-02 -1.38e-02 -3.72e-03 -1.87e-02  3.89e-02 1.003
## 1108    8.69e-04  3.23e-04 -6.84e-05  7.92e-03  3.00e-04  8.39e-03 1.038
## 46886  -3.21e-02  3.24e-02 -2.22e-02  3.04e-03  9.21e-03 -8.73e-02 0.996
## 34764  -1.60e-02  1.89e-02  1.50e-02  7.84e-04 -4.55e-02 -8.38e-02 1.001
## 35439   9.75e-04  4.04e-03  3.19e-03 -5.04e-04 -2.57e-04  9.90e-03 1.003
## 2245   -1.05e-04  1.88e-04 -1.93e-04  1.10e-04  1.60e-04 -8.66e-04 1.005
## 130344 -8.65e-03 -6.58e-03 -7.83e-03  2.27e-03  1.81e-03  2.26e-02 1.004
## 65985  -1.37e-03  2.51e-02 -1.65e-02  6.61e-03 -3.00e-02 -7.99e-02 1.000
## 62170  -2.64e-02 -2.10e-02 -1.90e-02 -1.13e-03 -1.62e-02 -6.63e-02 0.997
## 41341  -5.49e-04  3.19e-04  3.86e-03 -4.07e-04  4.91e-04  7.80e-03 1.003
## 124792  3.88e-03  1.53e-02  2.01e-02  9.30e-03 -1.15e-02 -6.76e-02 0.999
## 58487   2.07e-03  3.72e-03 -7.78e-03 -2.55e-03 -5.84e-04  1.37e-02 1.004
## 82879   1.96e-03  1.39e-02  1.22e-02 -5.28e-03 -2.75e-02  5.16e-02 1.001
## 6650    9.34e-03  1.08e-02  5.68e-03  7.80e-03 -1.00e-02  5.57e-02 1.004
## 25556   1.18e-02  1.43e-02  1.17e-02  2.42e-03  9.12e-03  6.32e-02 1.003
## 3433    1.55e-03  2.57e-04  1.42e-03 -8.24e-04 -1.99e-04  9.21e-03 1.005
## 2171   -9.22e-03  9.36e-03  6.34e-03 -4.87e-03 -2.13e-02  4.39e-02 1.005
## 56386  -8.99e-03 -1.04e-02 -1.66e-02  5.78e-03 -3.22e-02  4.92e-02 1.002
## 11431  -5.82e-04  4.23e-03 -1.58e-02 -3.10e-03 -2.86e-02  4.82e-02 1.005
## 30155  -2.30e-02 -1.07e-02 -1.30e-02 -2.66e-03 -6.51e-03  4.88e-02 1.004
## 2783    5.68e-03  1.01e-02 -1.10e-02  2.83e-03  6.69e-03  3.13e-02 1.005
## 73730   7.10e-03 -4.42e-03  5.50e-03 -1.58e-03  9.11e-04  1.43e-02 1.004
## 95928  -6.84e-03  4.96e-03  2.35e-03 -7.70e-03  6.44e-04  1.54e-02 1.004
## 8340    1.05e-02  2.76e-02 -3.05e-02  1.29e-02 -3.44e-02 -1.17e-01 0.996
## 64657  -7.65e-03  9.93e-03  6.08e-03 -8.17e-03  7.06e-03  3.75e-02 1.003
## 71580   3.69e-02 -3.18e-02 -2.41e-02  1.90e-02 -1.02e-02 -7.85e-02 0.992
## 92222   1.18e-02  9.64e-03 -2.26e-02  4.26e-03 -3.22e-02  1.43e-01 1.018
## 26635   1.96e-02 -2.38e-02 -1.12e-02  1.77e-02  6.42e-02 -9.74e-02 0.998
## 15186   1.12e-02 -4.95e-03  4.53e-03  4.58e-03 -8.02e-04  1.50e-02 1.004
## 5266    7.70e-03  1.04e-02 -1.57e-02 -6.80e-03 -3.34e-03  4.39e-02 1.006
## 79857   9.75e-03  4.07e-03  3.48e-03 -1.22e-03 -2.39e-04  2.68e-02 1.004
## 43117   7.56e-05  8.57e-03  6.76e-03  5.11e-03  1.45e-02  3.14e-02 1.004
## 90394   1.34e-02 -6.60e-04  5.58e-03  1.25e-03 -1.45e-03  2.37e-02 1.003
## 122567  2.07e-02  4.98e-02 -3.83e-02  2.12e-03 -5.96e-03 -8.11e-02 0.992
## 121674 -1.46e-03 -3.77e-03  2.25e-03  5.00e-03  1.45e-04  9.33e-03 1.005
## 6168    4.55e-04  1.10e-03 -8.66e-04  4.25e-04  5.00e-04 -3.28e-03 1.005
## 15925  -1.78e-03  7.10e-03  1.97e-03 -2.17e-03  2.42e-02  4.12e-02 1.006
## 45823   3.36e-02  9.92e-03 -1.80e-02  1.47e-02 -6.53e-03 -6.79e-02 0.999
## 17426   7.93e-03 -1.91e-02 -1.44e-02  3.49e-03  3.52e-02 -6.46e-02 0.998
## 31906  -4.36e-02  4.39e-03 -1.37e-02 -6.79e-03  1.39e-02 -7.90e-02 0.997
## 7980    2.02e-03 -8.39e-03  5.47e-03 -8.52e-03  8.85e-04  3.09e-02 1.005
## 49900   1.31e-03  4.02e-04  8.01e-04  1.62e-03  2.66e-04  4.33e-03 1.004
## 13104   8.56e-05 -1.61e-04 -4.19e-05  3.12e-04 -1.70e-04 -8.94e-04 1.007
## 66338  -2.78e-02  2.65e-02  1.48e-02  9.89e-04 -2.76e-02 -7.27e-02 1.000
## 21291   1.13e-02  2.12e-03  6.10e-03  1.80e-03  2.85e-03  2.00e-02 1.003
## 93961  -1.28e-04 -5.38e-04  7.47e-04  1.12e-03 -2.93e-04  2.36e-03 1.004
## 118629 -1.26e-02  2.85e-02 -2.88e-02  5.82e-03 -1.05e-02 -6.40e-02 0.996
## 20678   4.03e-03 -8.53e-03 -7.79e-03  1.52e-03 -2.47e-03  2.13e-02 1.004
## 24527  -2.05e-03  1.08e-02  6.95e-03 -1.04e-02 -1.59e-02  5.23e-02 1.005
## 19273  -2.49e-02 -2.36e-02 -2.28e-02 -2.37e-02 -1.83e-02 -7.61e-02 0.994
```

```
## 129030  4.25e-04  6.30e-03  4.13e-03  1.14e-02  1.16e-03  2.50e-02 1.004
## 74061  -3.05e-03  3.64e-04  3.98e-03 -1.67e-03 -1.11e-03  1.05e-02 1.004
## 64727   4.29e-03 -5.60e-03  4.65e-03 -6.62e-04  5.29e-04  1.08e-02 1.003
## 65368   3.18e-02  2.06e-02 -2.88e-02  1.62e-02 -2.91e-02  6.90e-02 1.001
## 63181   1.09e-03 -5.63e-03 -4.57e-03 -4.04e-04 -3.19e-03  1.26e-02 1.004
## 43216  -3.64e-02  1.80e-02  2.86e-02  6.39e-03 -7.06e-03 -8.28e-02 0.997
## 31174   7.69e-03  7.09e-03 -8.37e-03  1.01e-03 -2.60e-03  2.02e-02 1.005
## 75953  -1.07e-02 -9.25e-03  7.68e-03 -4.76e-03  2.28e-03  2.00e-02 1.004
## 66548  -5.23e-04 -8.92e-04  1.77e-03 -9.22e-04 -4.65e-04  4.81e-03 1.004
## 113906 -2.92e-03  3.80e-02 -2.43e-02 -8.95e-02 -2.85e-03 -1.18e-01 0.992
## 20590  -8.43e-03  1.57e-02 -2.18e-02  4.33e-03 -2.29e-02  4.73e-02 1.004
## 44445   2.08e-02 -4.17e-02  4.62e-02 -5.81e-03  1.89e-02 -8.99e-02 0.992
## 36151  -7.67e-03  7.26e-03  4.45e-03 -6.72e-03 -7.41e-04  2.24e-02 1.003
## 32647  -1.35e-06  1.13e-04  2.15e-02  7.84e-03 -4.22e-02 -7.94e-02 1.000
## 49315  -2.46e-02  3.80e-02 -2.87e-02 -1.47e-02  5.53e-03 -8.37e-02 0.990
## 48105   7.70e-03 -6.16e-03  5.03e-03 -5.72e-04  5.80e-04  1.40e-02 1.003
## 39610   4.68e-04 -1.04e-03  1.72e-03 -3.20e-04 -4.48e-04  4.66e-03 1.003
## 63284   2.79e-03  6.76e-03 -8.11e-03 -2.28e-03 -2.63e-03  1.49e-02 1.004
## 118868 -3.11e-04  2.08e-04  4.39e-03 -1.73e-03 -1.74e-03  1.19e-02 1.004
## 63250  -3.42e-02 -1.49e-02 -1.48e-02  9.38e-03 -6.45e-03 -7.68e-02 0.993
## 120629  4.04e-02  3.70e-02 -3.01e-02 -2.10e-02 -1.49e-02 -9.63e-02 0.994
## 24826   1.66e-02 -2.18e-02 -1.54e-02  1.51e-02  5.61e-02 -8.44e-02 0.997
## 87571  -9.77e-04 -6.52e-04  9.06e-04 -1.07e-03 -3.24e-04  4.44e-03 1.004
## 104239  1.02e-02  1.07e-03 -1.31e-02  4.59e-03  3.23e-03  2.27e-02 1.002
## 33966   7.27e-03 -6.77e-03  7.62e-03 -3.17e-03  7.66e-04  2.06e-02 1.003
## 80783   7.03e-03 -9.14e-03  4.88e-03 -8.88e-04  5.15e-04  1.55e-02 1.004
## 63317   1.94e-03  1.50e-03  1.54e-03 -2.32e-04 -4.48e-04  6.41e-03 1.004
## 28462   1.60e-03 -4.76e-03  2.38e-03  2.70e-02  7.52e-03  3.56e-02 1.008
## 104864 -1.01e-03  6.28e-03  5.45e-03 -8.50e-04  2.93e-03  1.52e-02 1.003
## 79627  -2.32e-03  3.61e-03  2.21e-03  4.80e-04  9.40e-04  9.08e-03 1.003
## 67979   7.29e-04  1.97e-03  1.34e-03  5.41e-04 -7.56e-04  5.75e-03 1.004
## 81320  -7.14e-03  2.40e-02  2.54e-02  7.52e-03 -1.01e-02 -5.86e-02 0.996
## 70607  -6.43e-03  8.58e-03  5.82e-03 -3.87e-03 -1.96e-02  3.11e-02 1.003
## 2835   -9.04e-03 -3.19e-03 -5.88e-03 -3.61e-03  6.54e-03  2.55e-02 1.005
## 24301  -7.68e-03  2.37e-03  5.01e-03  1.82e-03  2.29e-03  1.38e-02 1.003
## 115911 -1.88e-02 -9.23e-03 -7.58e-03 -6.11e-03  5.05e-03  2.98e-02 1.004
## 102    -3.97e-03 -9.54e-03  4.15e-03  9.35e-04  5.67e-03  2.60e-02 1.006
## 99656   2.86e-04 -1.74e-03 -5.64e-03  1.38e-03 -7.06e-04  1.08e-02 1.003
## 88342  -1.09e-02  8.74e-03 -9.43e-03  1.67e-03  7.64e-04  2.20e-02 1.005
## 108860  4.52e-03 -1.42e-02  8.39e-03 -8.43e-03 -1.94e-02  4.07e-02 1.004
## 86270  -1.15e-02  5.36e-02 -1.60e-02 -3.55e-01  6.99e-03 -3.75e-01 1.006
## 55935  -1.16e-02 -2.61e-02  3.43e-02 -2.96e-04  6.01e-02 -8.16e-02 0.999
## 6723   -3.86e-04 -1.52e-02 -1.98e-02 -1.66e-02  1.05e-02  7.18e-02 1.007
## 119924 -4.78e-02  2.40e-03 -2.41e-02 -1.03e-02 -9.04e-03 -7.30e-02 0.995
## 129715  1.07e-02 -1.07e-02 -9.17e-03  4.65e-04  1.12e-04  3.38e-02 1.005
## 120219  1.37e-02  9.58e-03 -1.24e-02  4.51e-03  2.21e-04  2.36e-02 1.003
## 20874  -7.80e-03 -3.17e-03  4.13e-03 -9.73e-04 -5.68e-03  1.94e-02 1.004
## 63775   1.40e-02  8.04e-03  7.80e-03  1.02e-02  1.03e-02  2.98e-02 1.003
## 29265   8.57e-03 -2.13e-02  1.14e-02  1.14e-02 -8.96e-03  3.73e-02 1.003
## 74016   5.55e-02  2.28e-02  1.28e-02  1.48e-02 -4.35e-02 -9.45e-02 1.000
## 118319 -2.04e-03  1.25e-02 -1.41e-02 -4.95e-04  2.65e-03  2.41e-02 1.002
## 13927  -8.28e-04 -9.44e-03  5.00e-03 -4.43e-03  2.99e-03  2.78e-02 1.005
## 79232  -1.06e-03  1.89e-03  3.77e-03  2.38e-03 -1.33e-02  2.12e-02 1.004
## 98013  -7.60e-03  3.79e-02 -2.17e-02 -1.79e-02  1.20e-02 -7.45e-02 1.000
## 112407  1.26e-02  3.03e-02  3.00e-02  1.74e-02  2.04e-02 -1.06e-01 0.999
## 129979 -1.87e-02 -1.75e-02 -1.20e-02 -1.91e-03  2.20e-02 -8.19e-02 0.998
## 75151  -4.89e-02  1.71e-03 -2.16e-02  1.06e-02  7.75e-03 -8.44e-02 0.991
## 10079  -4.47e-05  5.47e-05 -1.86e-04  1.18e-04  2.01e-04 -8.85e-04 1.005
## 42140  -4.55e-04 -1.09e-02  7.91e-03  1.15e-03  2.66e-03  1.57e-02 1.003
## 51389   1.45e-02  3.31e-02  3.75e-02  2.62e-02 -3.00e-04 -1.03e-01 0.995
## 31858   4.70e-03  6.77e-03  5.46e-03 -1.35e-03  3.03e-03  1.58e-02 1.002
## 13534   1.69e-03 -3.20e-03  1.88e-03  2.45e-04 -1.70e-04  8.26e-03 1.005
## 129029  1.93e-02 -1.38e-02  6.16e-03 -2.43e-03  6.58e-04  3.51e-02 1.006
## 48482  -3.56e-03  8.16e-03 -8.68e-03  6.92e-03 -7.48e-04  1.84e-02 1.004
## 97084  -2.94e-05  1.01e-02 -1.35e-02 -6.10e-03  3.65e-05  2.59e-02 1.004
## 35585   1.31e-02  1.02e-02 -1.28e-02  3.68e-04 -1.85e-03  2.89e-02 1.004
## 2206   -3.31e-03 -4.80e-03 -3.91e-03 -2.23e-03 -7.93e-04  1.60e-02 1.005
## 96704   9.64e-04  4.92e-02 -2.20e-02  2.15e-02  9.67e-02 -1.50e-01 0.996
## 74766   9.45e-03 -8.64e-03  5.85e-03  2.50e-03  6.29e-04  1.68e-02 1.004
## 8454   -3.37e-02  9.40e-03  2.25e-02 -1.63e-02 -4.83e-02 -1.13e-01 1.001
## 13353  -5.45e-04  4.36e-03  1.07e-02  3.16e-03 -2.86e-02  5.87e-02 1.004
## 60727  -1.50e-02  1.19e-02  5.81e-03  2.79e-03  1.78e-02  5.12e-02 1.003
## 122471 -8.13e-03 -1.82e-02 -2.12e-02 -3.04e-03 -3.63e-03 -5.37e-02 0.992
## 122885  4.27e-03  9.58e-03 -1.06e-02  1.26e-03  6.95e-05  1.89e-02 1.003
## 35770  -1.28e-02  8.61e-03  4.32e-03 -5.75e-03  2.12e-03  2.85e-02 1.003
## 8174   -1.74e-03  1.54e-03  7.77e-04 -9.87e-05  8.95e-05  5.88e-03 1.005
## 36559   2.92e-04 -4.38e-04 -6.16e-03 -2.08e-03 -1.25e-03  1.21e-02 1.003
## 88516  -1.17e-03  4.17e-03  3.20e-03 -3.22e-04  7.43e-04  9.04e-03 1.003
## 7690   -5.61e-03  3.66e-02  3.65e-02 -1.65e-02  8.21e-02 -1.37e-01 0.998
## 11287   4.87e-03  2.47e-03 -4.08e-04  1.56e-02  1.14e-02  2.86e-02 1.012
## 22007  -1.77e-02 -1.95e-02 -1.26e-02 -5.77e-03  4.67e-02 -7.23e-02 0.997
## 57327  -5.83e-03 -1.48e-03  3.86e-03 -2.60e-03  1.19e-03  9.57e-03 1.003
## 108110  4.71e-03 -1.27e-02 -2.59e-02  6.00e-03  4.15e-04  6.62e-02 1.002
## 125798  3.25e-02  2.68e-02  2.24e-02  1.28e-02  4.32e-02 -8.86e-02 1.000
## 38450  -2.19e-02 -8.63e-03 -1.88e-02  3.66e-03 -4.14e-03 -6.53e-02 0.992
## 46195   2.81e-02 -1.18e-02 -1.20e-02 -3.72e-04  3.11e-04  4.55e-02 1.005
## 10452  -1.69e-02 -2.58e-02 -2.15e-02  1.20e-02 -6.54e-03 -1.18e-01 0.994
## 120060 -3.39e-03 -6.97e-03 -5.59e-03  6.42e-03  1.13e-03  1.71e-02 1.004
## 88394  -1.12e-02 -2.60e-02  3.37e-02  8.16e-03  1.51e-02 -8.04e-02 1.000
## 62071  -3.01e-02  1.26e-02  5.88e-03 -1.42e-02  3.12e-02  6.64e-02 1.005
## 87541  -8.87e-04 -3.13e-03  5.67e-03  1.02e-02  1.99e-03  1.82e-02 1.004
## 105388 -1.43e-02 -1.66e-02 -1.14e-02  8.34e-03  4.21e-02 -7.57e-02 1.001
## 88269  -8.71e-03  6.30e-03 -2.91e-02 -1.86e-02 -2.67e-02 -7.16e-02 0.994
## 47908  -4.11e-02 -1.53e-02  3.06e-02  5.36e-03 -1.76e-02 -8.02e-02 0.999
## 63341   3.35e-03  3.42e-03  3.20e-03 -1.85e-03 -7.55e-03  2.33e-02 1.004
## 18376  -1.17e-03  2.89e-03 -6.42e-04  7.24e-03  1.32e-02  2.42e-02 1.011
## 42191   6.35e-03 -9.43e-03  9.62e-03 -3.37e-03 -2.64e-02  3.53e-02 1.003
## 73678  -9.62e-04 -5.50e-03  4.70e-03 -8.27e-04  4.79e-06  9.28e-03 1.003
```

```
## 120261 -8.17e-04 -2.79e-03 -5.05e-03 -1.73e-03 -1.38e-03  1.38e-02 1.004
## 56640  -8.12e-03 -5.36e-04 -1.10e-02 -1.77e-03  3.12e-03  1.97e-02 1.002
## 40342  -7.82e-03 -1.39e-02  6.61e-03 -1.44e-03 -5.48e-03  3.09e-02 1.004
## 120837 -3.75e-02 -2.32e-02  5.47e-02 -8.17e-02  2.08e-03 -1.27e-01 0.996
## 35111  -6.08e-03  4.50e-03  2.60e-03 -4.12e-03  5.10e-04  1.29e-02 1.004
## 53879  -4.12e-02  2.65e-02  2.37e-02 -3.31e-03 -1.20e-02 -7.05e-02 0.996
## 48323  -1.07e-02  4.12e-03  3.16e-03 -7.53e-03  2.13e-02  5.02e-02 1.005
## 46465  -7.99e-03  4.30e-03  2.77e-03 -5.77e-03  1.41e-03  1.23e-02 1.004
## 8461   -1.44e-02 -4.07e-03 -7.23e-03 -4.89e-03  1.63e-02  3.95e-02 1.006
## 129466  2.96e-02 -1.85e-02 -1.26e-02  1.87e-02  2.82e-02 -8.89e-02 1.002
## 42608  -3.96e-02 -2.42e-02  3.29e-02 -7.29e-03  8.36e-03 -7.60e-02 1.000
## 36030  -8.41e-04 -1.27e-03  1.04e-03  3.11e-04 -2.56e-04  2.92e-03 1.004
## 29629  -1.07e-02 -2.39e-03 -8.89e-03 -5.50e-03  7.83e-03  2.42e-02 1.003
## 4506   -5.80e-03 -7.45e-03  6.07e-03 -1.06e-02  1.05e-02  4.75e-02 1.006
## 111173 -5.53e-03  4.76e-03 -3.05e-02  7.62e-03 -3.18e-02 -7.89e-02 0.994
## 4356    3.20e-03 -5.12e-04 -2.92e-03  3.79e-03 -1.25e-03  8.32e-03 1.006
## 94345  -6.99e-03  9.35e-03  3.17e-02  2.34e-02 -3.26e-03 -7.56e-02 0.997
## 45290   5.33e-03  6.93e-03  6.18e-03 -3.26e-03  4.84e-03  1.76e-02 1.003
## 12323  -3.92e-03 -1.85e-03  4.06e-03 -2.06e-03  1.42e-03  1.45e-02 1.005
## 92192   1.97e-02 -2.18e-02 -1.81e-02 -3.95e-03 -7.94e-03  5.11e-02 1.002
## 30117   3.56e-03 -2.80e-03  4.58e-03 -1.78e-03 -8.67e-05  9.97e-03 1.003
## 39283  -7.38e-03 -9.36e-03  7.17e-03 -5.25e-03  2.21e-03  2.05e-02 1.004
## 94753  -5.28e-03  4.21e-03  3.24e-03  5.40e-03  7.09e-03  2.71e-02 1.004
## 86967   1.27e-02 -4.70e-03 -1.26e-02  4.93e-03  3.94e-04  3.24e-02 1.003
## 82239   1.76e-02  9.70e-03 -1.23e-02  4.29e-03 -2.93e-04  2.68e-02 1.004
## 38782  -3.11e-02 -1.34e-02  1.69e-02  1.87e-03 -2.30e-02  6.34e-02 1.004
## 93653  -1.14e-04  2.26e-03  9.24e-04 -2.72e-03  1.48e-03  8.07e-03 1.004
## 119598  1.49e-03  5.43e-03  3.32e-03  9.70e-03  2.49e-03  1.90e-02 1.004
## 75812   7.58e-03 -7.64e-03 -1.05e-02 -2.85e-03  2.00e-03  2.65e-02 1.003
## 81204  -6.29e-05  1.61e-03  7.00e-04 -2.78e-04  8.48e-04  4.88e-03 1.004
## 66348  -5.14e-03 -1.03e-02  7.39e-03 -3.64e-03 -2.54e-02  3.23e-02 1.005
## 77420  -4.03e-03  3.52e-03  1.95e-03  2.79e-04 -1.01e-03  1.14e-02 1.004
## 17110   2.58e-03 -5.51e-03  3.91e-03  5.06e-03  3.41e-04  1.00e-02 1.004
## 32042   1.41e-03  4.29e-02 -3.26e-02 -2.43e-02 -5.83e-03 -7.69e-02 0.992
## 86798  -1.77e-03  1.49e-03  3.02e-03  1.79e-03  9.42e-04  8.21e-03 1.003
## 11593   1.21e-02 -1.20e-02  9.31e-03  3.68e-03  1.38e-02  3.53e-02 1.007
## 86434   2.83e-03  5.76e-03  5.13e-03  3.23e-03  2.09e-03  1.76e-02 1.003
## 22879   4.30e-03  4.67e-03  3.15e-03 -2.45e-03  8.34e-04  1.21e-02 1.003
## 118655  1.07e-02  5.45e-03  4.30e-03  8.49e-03  1.34e-03  1.99e-02 1.003
## 50652  -1.80e-02  7.18e-03  9.08e-03 -8.56e-03  9.45e-03  2.80e-02 1.003
## 36632   5.84e-03  1.12e-02 -2.22e-02  1.31e-03 -3.35e-02  5.60e-02 1.002
## 88554  -5.20e-03 -1.03e-02  8.24e-03 -3.52e-03  2.28e-03  1.90e-02 1.004
## 13872  -3.46e-04  8.38e-04  1.04e-03 -2.79e-03  3.60e-04 -3.88e-03 1.010
## 110785 -5.02e-04  3.41e-03  2.71e-03  2.57e-03 -8.35e-04  1.02e-02 1.004
## 26364   1.25e-02  9.98e-03 -1.16e-02  2.24e-03  1.07e-03  2.50e-02 1.004
## 26487   2.70e-03  6.36e-03 -1.26e-02  6.51e-03  2.94e-03  2.16e-02 1.002
## 80686   7.88e-04  4.43e-03  2.61e-03 -7.41e-04  8.54e-04  1.12e-02 1.003
## 50714  -7.84e-03 -1.02e-02 -7.39e-03 -2.24e-03  7.38e-03  2.42e-02 1.003
## 35017   3.29e-03  1.26e-02  7.38e-03  7.28e-03 -1.51e-03  4.88e-02 1.002
## 113766 -2.26e-02 -3.44e-02  4.28e-02 -1.03e-03 -3.15e-03 -7.24e-02 0.995
## 43596  -1.51e-03  1.60e-03  7.97e-04 -7.50e-04  4.64e-04  4.42e-03 1.004
## 2356   -3.39e-03  6.66e-03 -2.01e-02  8.98e-03  2.18e-02  5.74e-02 1.007
## 46226  -9.46e-03 -1.02e-02 -8.25e-03  2.95e-03  3.51e-03  2.23e-02 1.003
## 33125  -1.49e-03  4.60e-03  1.82e-03 -3.10e-03  6.46e-04  1.77e-02 1.004
## 7435    4.55e-02 -2.83e-02 -9.91e-03  9.48e-03  3.00e-02 -1.46e-01 0.998
## 16764   5.37e-03 -4.59e-03  6.68e-03 -3.25e-03 -3.42e-04  1.91e-02 1.003
## 95473  -4.81e-02  3.79e-02  2.92e-02  2.54e-03  4.19e-03 -8.32e-02 0.995
## 70120   2.94e-03  5.67e-03 -1.01e-02 -3.35e-03  6.32e-04  1.70e-02 1.003
## 45964  -4.22e-03  9.76e-03  9.01e-03 -3.87e-03  1.47e-02  3.13e-02 1.003
## 10088   3.68e-05 -3.03e-04 -1.82e-04  1.60e-04  2.35e-04 -1.36e-03 1.006
## 63643  -8.96e-03  3.50e-02 -2.04e-02 -3.40e-04  7.08e-02 -1.01e-01 0.998
## 39478  -9.83e-03  1.17e-02 -1.52e-02  8.19e-03 -6.02e-04  3.17e-02 1.004
## 5301    7.28e-03  6.13e-03  4.94e-03  5.58e-03  2.87e-03  2.95e-02 1.005
## 60321   2.43e-02  1.35e-02  1.45e-02  2.36e-03  1.55e-03  6.76e-02 1.002
## 3761    5.43e-04  4.07e-04  2.28e-04 -1.19e-04 -1.94e-04  1.82e-03 1.005
## 41575  -3.18e-03  5.91e-03  4.16e-03  2.24e-03  1.45e-03  1.58e-02 1.003
## 83901   9.25e-03 -1.88e-02  1.94e-02 -1.17e-03  2.18e-02 -5.53e-02 1.003
## 43879   2.05e-02 -3.84e-03  3.32e-02  1.49e-02 -3.70e-02 -9.14e-02 1.001
## 95763  -4.37e-03  6.58e-03  6.30e-03 -5.39e-03  3.10e-03  1.97e-02 1.003
## 25713   2.11e-02 -1.93e-02 -1.58e-02  7.40e-04  3.35e-02 -7.50e-02 1.000
## 107618 -1.21e-02  1.54e-02  8.80e-03 -1.70e-02 -2.12e-02  8.02e-02 1.006
## 43471   5.25e-03  9.34e-03 -1.48e-02 -1.98e-03  2.91e-03  3.07e-02 1.005
## 73036   1.86e-02 -8.58e-03  9.93e-03 -4.60e-04  9.53e-03  3.77e-02 1.004
## 14687   7.31e-03  6.85e-03  5.76e-03 -3.53e-03  3.00e-03  1.77e-02 1.003
## 99954   2.05e-02 -1.45e-02 -1.03e-02  3.32e-03  2.15e-03  3.22e-02 1.003
## 83199   5.73e-03 -1.21e-02  8.41e-03  1.82e-03  3.12e-03  1.78e-02 1.003
## 99611  -1.23e-03  3.58e-03 -8.08e-03  1.32e-02 -1.47e-03  1.95e-02 1.005
## 83380  -4.74e-02 -1.51e-02 -1.13e-02 -4.70e-03  3.13e-02 -7.68e-02 1.000
## 86291   3.46e-03  1.01e-02 -1.10e-02 -1.54e-03  1.41e-03  2.02e-02 1.003
## 25734   1.99e-03 -2.57e-02 -2.00e-02  8.19e-03 -3.62e-02 -8.39e-02 0.996
## 21688  -1.73e-03  1.62e-03  8.92e-04 -1.03e-03  2.46e-04  4.24e-03 1.004
## 31549   3.82e-02  3.73e-02 -3.61e-02  2.75e-02 -2.75e-02 -1.08e-01 0.998
## 112820  7.13e-03  1.80e-03 -1.32e-02 -3.59e-03  1.23e-02  3.21e-02 1.002
## 112422 -1.85e-02  1.41e-02  9.35e-03 -1.36e-02  1.92e-04  4.66e-02 1.002
## 47631  -3.20e-02 -2.36e-02  2.34e-02  7.78e-04 -3.12e-02 -7.50e-02 1.001
## 128246 -1.49e-02  8.10e-03  6.86e-03 -9.71e-03  4.29e-03  2.63e-02 1.004
## 8719    1.75e-04  1.83e-04  1.65e-03 -1.79e-04  2.22e-04  7.01e-03 1.005
## 87020   1.09e-02  6.45e-04 -1.18e-02  1.65e-03  2.30e-03  2.68e-02 1.003
## 54772  -1.14e-03 -4.79e-03  2.51e-03  4.47e-03  5.28e-04  9.39e-03 1.005
## 76233  -1.96e-03 -1.54e-02  8.44e-03  1.12e-03 -5.00e-03  2.73e-02 1.003
## 51003   1.53e-02  6.73e-03  5.84e-03  1.21e-03  4.50e-03  2.39e-02 1.003
## 14775  -2.02e-03  1.01e-02 -1.29e-02 -8.23e-03 -1.39e-04  2.64e-02 1.004
## 6631    1.69e-02 -3.04e-02 -1.63e-02  8.16e-03 -6.27e-03 -1.19e-01 0.994
## 61058   6.72e-03  2.94e-03 -1.15e-02 -3.69e-03  8.14e-04  1.96e-02 1.003
## 37848  -9.19e-03 -1.79e-04 -7.50e-03 -3.98e-03  4.89e-04  1.58e-02 1.003
## 46442   5.01e-03  5.95e-03  3.88e-03  7.72e-03  4.20e-03  2.04e-02 1.004
## 123224  5.26e-03 -1.34e-03  2.81e-03 -2.37e-03  8.09e-04  1.29e-02 1.004
## 31064   1.45e-02 -1.22e-02  1.19e-02 -4.61e-04  6.02e-03  2.97e-02 1.003
```

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## 117949  7.11e-03 -4.52e-03 -1.04e-02  1.11e-04  3.34e-03  2.26e-02 1.002
## 117700  2.29e-03  4.35e-03  3.74e-03 -3.24e-03 -1.07e-03  1.33e-02 1.003
## 2836   -8.26e-03  1.14e-02 -1.32e-02  2.11e-02  3.78e-03  4.31e-02 1.007
## 117840 -2.11e-03  6.42e-03  5.83e-03 -1.78e-04  5.16e-03  1.58e-02 1.003
## 4749    9.60e-05  3.58e-03 -6.69e-03 -1.51e-04 -2.76e-04  1.66e-02 1.005
## 66120  -3.98e-04  1.66e-03  1.19e-03  4.79e-04 -1.00e-03  4.61e-03 1.004
## 21465   4.67e-03  1.68e-06  3.77e-03  2.10e-03  7.79e-04  1.04e-02 1.003
## 102982 -1.48e-02  6.53e-03  3.18e-03 -3.28e-03  1.06e-03  2.24e-02 1.005
## 106472 -6.62e-03 -5.46e-03 -5.97e-03 -2.49e-03  1.65e-03  1.72e-02 1.003
## 50817  -2.67e-03 -1.48e-03 -4.98e-03 -2.42e-03 -2.70e-03  1.14e-02 1.004
## 55739  -1.31e-02  1.30e-02 -1.25e-02 -2.73e-03  5.12e-03  2.48e-02 1.003
## 54881  -1.86e-03  3.70e-03  3.22e-04 -2.30e-03  2.43e-02  3.42e-02 1.014
## 34136   1.60e-02  1.22e-02 -3.07e-02  1.21e-02 -1.14e-02  7.20e-02 1.000
## 64214  -7.68e-03 -6.38e-03  5.74e-03 -3.98e-03  4.45e-04  2.02e-02 1.004
## 96671  -1.71e-03  1.57e-03  8.47e-04 -7.19e-04  2.51e-04  4.21e-03 1.004
## 127659 -1.50e-02 -1.80e-02 -1.29e-02  1.62e-02  2.11e-02 -8.26e-02 0.998
## 83227   1.22e-02 -7.03e-03  4.11e-03  1.50e-03  6.74e-04  1.81e-02 1.004
## 14149   2.03e-04 -2.60e-03 -8.06e-03 -1.71e-03  1.29e-03  1.57e-02 1.003
## 77983  -9.80e-04 -4.57e-03 -7.71e-03 -5.00e-03  1.37e-03  1.69e-02 1.003
## 32941   5.34e-03  6.19e-04 -1.55e-02 -7.87e-03  9.24e-03  3.79e-02 1.004
## 50037   4.68e-03  4.20e-03  3.59e-03  7.60e-04 -4.17e-04  1.17e-02 1.003
## 130438 -2.06e-02  4.84e-02 -1.87e-02  3.10e-03 -9.41e-02 -1.62e-01 1.002
## 53372   2.81e-04 -6.89e-03  3.31e-03  1.62e-03  1.23e-03  1.25e-02 1.004
## 33582  -5.29e-03  4.03e-03  1.97e-03 -1.33e-03  1.13e-03  1.22e-02 1.004
## 72164   2.68e-03  3.33e-02  2.58e-02 -6.09e-03 -6.28e-03 -6.27e-02 0.995
## 65552  -5.75e-03 -8.51e-03  9.37e-03 -9.70e-04 -3.11e-02  4.11e-02 1.005
## 101609  1.01e-02 -1.01e-02 -8.86e-03  4.12e-04  3.98e-03  2.68e-02 1.003
## 939    -8.27e-03  9.99e-03  7.52e-03 -4.64e-03  2.56e-02  4.79e-02 1.007
## 69029   1.57e-02  1.21e-02 -1.62e-02  1.31e-02  3.99e-03  3.48e-02 1.004
## 24890  -2.52e-03 -8.35e-03  1.47e-02 -9.94e-03 -1.36e-02  4.25e-02 1.001
## 107667  2.00e-03  9.04e-03  8.47e-03 -1.29e-03  9.24e-03  2.41e-02 1.002
## 89201  -6.04e-02  4.06e-02  3.71e-02 -6.48e-02  1.58e-02 -1.20e-01 0.996
## 62668  -3.95e-03  8.03e-03  4.55e-03 -3.09e-03 -4.18e-03  2.44e-02 1.003
## 124976  5.71e-04 -1.96e-02 -1.02e-02 -1.20e-02 -1.74e-02 -8.89e-02 0.997
## 86832   1.25e-03 -2.75e-03  2.32e-03  6.40e-04  2.74e-03  1.47e-02 1.005
## 58796  -1.73e-04 -4.11e-03 -5.02e-03  7.78e-05 -9.60e-04  1.07e-02 1.003
## 120613  2.96e-03  2.71e-03  3.03e-03 -9.77e-04  6.49e-04  9.89e-03 1.003
## 86007  -3.63e-03  4.46e-03  3.19e-03 -2.59e-03  1.28e-03  1.02e-02 1.003
## 128866 -2.78e-02  4.16e-02 -3.27e-02 -3.71e-03 -4.62e-03 -8.79e-02 0.994
## 35675  -4.59e-04  1.69e-03  5.80e-04 -2.91e-04 -2.95e-04  5.26e-03 1.004
## 76795  -2.43e-04  9.28e-03 -1.00e-02 -1.17e-03 -2.31e-03  2.03e-02 1.003
## 14355  -1.15e-02  1.27e-02 -1.12e-02 -3.08e-03  6.55e-03  2.61e-02 1.003
## 99914   1.40e-02  6.88e-03  1.58e-02  7.35e-03  1.56e-02 -6.45e-02 1.003
## 74949   1.37e-02 -6.49e-03 -8.82e-03  8.86e-04 -2.64e-03  2.39e-02 1.004
## 115112 -1.01e-03  9.21e-03 -1.00e-02 -1.28e-03 -2.19e-03  2.03e-02 1.003
## 105882  7.15e-03 -3.31e-02  3.80e-02  2.23e-03 -3.38e-03 -6.46e-02 0.996
## 112047 -2.04e-02 -1.69e-02 -1.38e-02 -7.87e-03  5.04e-02 -7.25e-02 0.999
## 72644   4.01e-03  5.11e-03  1.35e-03 -3.15e-03  1.51e-02  3.05e-02 1.006
## 51628  -2.31e-02 -3.53e-02  3.91e-02 -1.64e-03 -4.57e-03 -7.61e-02 0.995
## 75967   3.03e-02 -2.50e-02 -2.29e-02 -6.54e-02 -3.15e-02 -1.15e-01 0.996
## 68231  -4.14e-04 -5.22e-03  8.00e-03 -2.51e-03  5.59e-03  1.62e-02 1.003
## 64961  -3.55e-02 -2.11e-02  2.13e-02 -3.14e-02 -4.90e-02 -9.46e-02 1.004
## 5396   -4.80e-03  2.02e-03 -5.32e-03 -5.43e-04 -6.25e-04  1.51e-02 1.005
## 28792   9.86e-04  3.12e-03  1.52e-03  6.48e-03  6.15e-04  1.06e-02 1.004
## 95767  -1.52e-04  1.30e-02  1.06e-02 -4.02e-03 -1.63e-02  4.36e-02 1.001
## 92501   3.18e-03 -1.12e-02  7.88e-03 -3.54e-03  2.85e-03  2.15e-02 1.004
## 71678  -7.65e-04 -2.29e-03  1.18e-03 -1.03e-03  8.75e-04  4.60e-03 1.005
## 11944   1.42e-03  1.95e-03 -1.25e-03  7.37e-04  1.17e-03 -5.79e-03 1.006
## 49800   1.59e-02 -1.63e-02 -1.05e-02 -7.14e-04  1.45e-02  3.98e-02 1.002
## 75386   1.91e-03  2.83e-03  1.99e-03 -2.89e-03  1.55e-04  1.51e-02 1.004
## 37883  -1.28e-03  2.59e-03  3.04e-03  2.25e-03  7.32e-04  8.60e-03 1.003
## 92652   1.89e-03 -7.97e-03  5.30e-03  7.16e-03  5.09e-03  2.93e-02 1.004
## 85128   1.15e-02  1.74e-02  2.52e-02 -5.29e-03 -1.26e-02 -6.07e-02 0.995
## 113570 -2.74e-03  4.91e-03 -6.73e-03 -1.21e-03 -7.85e-04  1.30e-02 1.004
## 34255   1.73e-03 -1.17e-02 -1.21e-02  3.11e-02 -5.36e-03  4.47e-02 1.008
## 10832   9.44e-03 -6.49e-03  5.34e-03 -6.70e-05  9.63e-04  2.13e-02 1.005
## 25956   3.57e-03  2.19e-02  2.76e-02  1.16e-02 -1.82e-02 -7.96e-02 0.996
## 111580 -2.17e-02 -2.64e-02 -1.55e-02  6.51e-03  1.21e-02 -9.46e-02 0.993
## 71735  -6.79e-03  2.16e-03  3.43e-03  2.41e-03  1.25e-02  2.90e-02 1.004
## 9345   -3.29e-02 -2.24e-02  3.05e-02  4.26e-03  3.93e-02 -9.67e-02 1.004
## 17490   3.61e-03  6.29e-03  2.11e-03  4.22e-03  1.72e-02  3.49e-02 1.005
## 49613   1.29e-03  5.71e-03  2.27e-03 -1.45e-03  1.55e-03  2.18e-02 1.004
## 90804  -9.23e-03  1.45e-02  6.34e-03 -1.78e-02  1.76e-02  8.75e-02 1.004
## 10684   5.58e-03  3.96e-03  3.42e-03  3.49e-03  2.66e-03  1.86e-02 1.005
## 32531   6.23e-04  7.40e-03  3.90e-03  2.31e-03 -2.06e-03  2.44e-02 1.003
## 2065   -1.73e-03  6.66e-03 -7.41e-03 -8.38e-04  7.76e-04  1.86e-02 1.005
## 63234  -2.00e-03 -2.31e-03 -4.89e-03  1.31e-03 -3.34e-03  1.25e-02 1.005
## 84226   6.36e-03  4.17e-03  3.69e-03  8.60e-04 -1.09e-03  1.34e-02 1.003
## 130496 -6.60e-03  1.97e-02  3.25e-02  1.83e-03 -5.58e-03 -7.52e-02 0.995
## 115684 -2.35e-02  3.85e-02 -2.45e-02 -2.50e-03  4.79e-02 -8.02e-02 0.999
## 109958 -4.42e-04 -2.55e-02  1.57e-02 -9.05e-03 -3.00e-03  5.87e-02 1.002
## 55537   3.96e-02 -2.40e-02 -1.51e-02  4.97e-03  4.26e-02 -8.28e-02 0.996
## 1679   -1.35e-03  3.03e-04  1.16e-03 -9.42e-04 -3.66e-04  6.06e-03 1.005
## 11054  -6.81e-04  2.05e-03  1.38e-03 -1.06e-03 -1.01e-04  7.56e-03 1.005
## 43920  -3.06e-04 -2.86e-02 -1.13e-02  2.66e-02 -1.52e-03 -8.96e-02 0.993
## 85557   1.43e-02  1.70e-03  6.72e-03  2.69e-03  3.95e-03  2.11e-02 1.003
## 13731   1.16e-03 -9.34e-03 -9.22e-03 -5.44e-03  7.63e-03  3.78e-02 1.004
## 85780  -2.74e-03  5.27e-03  1.87e-03  4.64e-04  4.31e-03  2.10e-02 1.004
## 50957   2.45e-02 -3.19e-02  3.18e-02 -1.76e-02 -1.85e-02 -7.07e-02 0.997
## 75621   9.77e-04  1.59e-03  2.66e-03 -1.57e-03 -7.05e-04  1.19e-02 1.003
## 108884  1.00e-03 -1.56e-03  8.52e-03 -4.97e-03  5.54e-03  2.83e-02 1.003
## 71565  -6.86e-03 -3.79e-03 -7.92e-03 -5.46e-03 -1.77e-03  2.18e-02 1.004
## 94951   2.26e-03  8.85e-03  6.58e-03 -2.51e-03  6.00e-03  3.16e-02 1.003
## 6766   -2.70e-03 -4.58e-03 -4.71e-03 -3.00e-03 -4.92e-05  1.74e-02 1.006
## 130093 -5.18e-03  5.41e-03  3.77e-03 -5.73e-03  2.14e-03  1.66e-02 1.004
## 3611   -1.07e-03 -1.66e-03 -1.54e-03 -3.72e-04 -9.98e-04  5.86e-03 1.006
## 64098   9.53e-03  9.50e-03  3.22e-03  1.79e-02  2.92e-02  6.34e-02 1.004
## 24103   3.57e-03  1.06e-02 -1.27e-02 -2.24e-03  9.00e-03  2.73e-02 1.003
```

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## 72802  -3.47e-03 -1.65e-03  3.72e-03 -1.46e-05  1.03e-03  8.39e-03 1.003
## 21191  -1.08e-02  9.31e-03 -9.46e-03 -1.29e-03  9.76e-04  2.27e-02 1.005
## 27439   1.81e-02  1.59e-02  1.82e-02  1.95e-02 -3.19e-02  9.38e-02 1.001
## 10950  -9.82e-04 -1.82e-04 -6.64e-03 -3.75e-03 -1.64e-03  1.90e-02 1.005
## 114728  1.54e-03  4.28e-03  2.00e-03  1.39e-03  1.84e-04  1.25e-02 1.004
## 97727   1.05e-02 -9.70e-03 -9.14e-03 -1.10e-03 -1.20e-03  2.52e-02 1.004
## 43653  -3.57e-02  3.61e-02 -2.90e-02 -3.67e-02 -3.56e-03 -8.09e-02 0.992
## 116916 -7.93e-03  4.24e-03  2.80e-03 -3.47e-03  1.33e-03  1.15e-02 1.004
## 65485   1.94e-02  1.24e-02 -2.18e-02  1.30e-02  3.89e-02 -7.32e-02 0.998
## 76017  -1.44e-02 -5.38e-03  9.47e-03 -7.66e-03  8.14e-03  2.89e-02 1.004
## 90479   1.98e-02 -7.19e-03  7.14e-03  1.99e-03  2.71e-03  2.93e-02 1.004
## 32263  -4.66e-02 -3.31e-02  3.90e-02 -1.08e-03 -3.25e-03 -8.55e-02 0.996
## 47943  -3.17e-02  2.21e-03 -1.56e-02 -1.49e-02  1.19e-02  6.24e-02 1.004
## 101495  1.56e-02 -4.14e-03 -9.96e-03  7.50e-03  1.65e-04  2.29e-02 1.003
## 20806  -1.88e-02 -2.08e-03  9.22e-03 -1.32e-02  3.33e-03  3.52e-02 1.003
## 33017   1.15e-02  1.10e-03 -1.11e-02  3.05e-03 -4.10e-04  2.48e-02 1.004
## 32871   4.71e-03 -6.57e-03  4.45e-03 -1.17e-03 -1.75e-03  2.77e-02 1.004
## 83640  -1.90e-03  1.25e-02  1.00e-02 -1.24e-02 -1.85e-02  6.29e-02 1.004
## 111818 -3.83e-03  1.09e-02  7.45e-03  2.73e-03 -1.55e-02  3.38e-02 1.002
## 48313   8.97e-03  4.46e-02 -2.25e-02  1.84e-02 -3.47e-02 -1.01e-01 0.997
## 128669  4.03e-03  3.25e-03  4.34e-03  5.65e-03  1.41e-03  1.75e-02 1.004
## 123335  1.54e-02  2.37e-02 -1.98e-02  5.68e-03  1.36e-02 -6.98e-02 1.005
## 28813   8.62e-03  4.54e-03  1.65e-03 -1.93e-03  7.32e-04  2.23e-02 1.005
## 64999  -5.08e-03 -2.42e-03 -7.02e-03 -3.55e-04 -1.30e-03  1.63e-02 1.003
## 102417  4.56e-05 -1.75e-03  3.26e-03  5.33e-03  6.94e-04  9.65e-03 1.004
## 107481 -7.59e-03  7.92e-03 -9.23e-03  3.21e-03  5.78e-05  1.89e-02 1.004
## 122350 -3.60e-03  5.01e-03  4.85e-03 -1.01e-03  5.92e-03  1.98e-02 1.004
## 109840 -7.50e-03 -1.01e-02 -6.74e-03 -3.59e-03  8.80e-03  2.56e-02 1.003
## 88421  -1.43e-02  9.57e-03  6.47e-03 -5.92e-03 -5.53e-03  3.72e-02 1.004
## 1360    1.99e-04  6.82e-03  5.41e-03  3.88e-03  8.84e-03  2.91e-02 1.005
## 73951   2.53e-02 -2.12e-02 -1.31e-02  7.58e-03  4.30e-03 -6.23e-02 0.997
## 104381  1.10e-03  1.29e-03  2.68e-02 -2.71e-03 -2.77e-02 -7.52e-02 0.998
## 26130   2.73e-02 -3.73e-02  3.34e-02 -2.60e-03 -2.79e-02 -8.16e-02 0.996
## 65124   3.35e-03 -2.28e-02  2.30e-02  1.34e-02 -3.45e-03 -7.39e-02 1.003
## 113576 -2.56e-02  9.46e-03  3.03e-02 -7.56e-04 -1.71e-02 -7.79e-02 0.996
## 88169  -2.99e-02 -1.49e-02 -1.15e-02  7.33e-03  3.92e-02 -1.06e-01 1.003
## 32805  -9.97e-03  1.68e-02 -1.63e-02 -7.07e-03  6.79e-03  3.43e-02 1.002
## 1752   -1.02e-04  6.64e-05 -1.07e-04 -5.42e-06  7.25e-05 -4.88e-04 1.005
## 6426   -5.47e-03 -3.29e-03 -4.00e-03 -2.17e-03 -6.42e-04  1.53e-02 1.006
## 8187   -5.82e-03  3.61e-03  2.43e-03  5.33e-04  1.00e-03  1.44e-02 1.005
## 64573  -1.07e-02 -1.47e-02  2.01e-02 -8.82e-03 -2.09e-02  6.44e-02 1.001
## 72623   4.74e-03  4.54e-03  2.86e-03 -3.86e-03  1.09e-03  1.36e-02 1.003
## 32742   3.93e-02 -3.38e-02 -1.99e-02  2.69e-02 -2.34e-03 -9.37e-02 0.990
## 20377  -3.84e-03  3.07e-03  2.78e-03 -1.19e-03  7.14e-04  1.20e-02 1.004
## 32231  -1.06e-03 -8.79e-03 -8.25e-03 -1.78e-03  5.18e-03  2.14e-02 1.002
## 70437   1.20e-02  3.85e-02 -2.71e-02  1.14e-02  5.22e-02 -8.73e-02 0.999
## 86838   4.49e-03 -9.46e-03 -9.65e-03 -2.37e-04  5.35e-03  2.30e-02 1.002
## 114121 -2.23e-03 -5.46e-03  4.10e-03  1.77e-03  8.07e-04  9.50e-03 1.004
## 56644   1.59e-02 -1.59e-02  8.22e-03  3.63e-03 -3.10e-02  4.59e-02 1.005
## 73060   2.99e-03  1.81e-02  3.18e-02  2.51e-02  3.55e-03 -8.83e-02 0.997
## 87080   2.94e-04  3.83e-03  4.84e-03  4.36e-03  2.04e-03  1.37e-02 1.003
## 45215  -5.20e-02  9.59e-03  1.90e-02 -1.48e-02 -3.01e-02 -9.22e-02 1.003
## 41866  -4.80e-03  6.83e-03  5.92e-03 -4.28e-03  4.60e-03  1.55e-02 1.003
## 46191  -1.97e-03 -3.25e-03  7.75e-03 -4.55e-03  4.72e-03  1.44e-02 1.003
## 28863  -3.91e-03  3.85e-03  2.93e-03 -8.12e-04  2.43e-04  8.92e-03 1.003
## 79643  -9.22e-03 -1.22e-02  8.18e-03  1.02e-02 -2.21e-02  3.67e-02 1.005
## 23658   1.72e-03 -5.58e-03 -5.27e-03  9.31e-04 -1.30e-04  1.21e-02 1.004
## 17006   9.90e-04 -8.67e-03  7.32e-03 -1.98e-03  4.27e-03  1.95e-02 1.004
## 114136 -8.93e-03  1.29e-02 -1.13e-02 -2.77e-03  7.75e-03  2.62e-02 1.003
## 14536   2.56e-03  6.59e-03  5.24e-03  2.70e-03  4.29e-03  1.69e-02 1.003
## 11699  -5.02e-03 -1.77e-02  2.66e-02 -5.65e-03 -4.06e-02 -9.95e-02 1.000
## 81711   3.16e-02  1.64e-02 -1.93e-02  2.64e-03  1.82e-02  5.72e-02 1.004
## 50370  -6.76e-03 -5.66e-03 -6.09e-03 -4.72e-03  9.19e-04  1.67e-02 1.003
## 51616   7.36e-03  1.12e-02  4.94e-03  6.42e-04 -1.74e-02  4.25e-02 1.002
## 107184 -3.80e-03 -3.38e-03  3.91e-03  5.66e-04  9.92e-04  9.10e-03 1.004
## 44926   5.19e-03 -7.86e-03  2.58e-03  1.11e-02  6.20e-03  2.28e-02 1.006
## 79012   1.18e-02 -1.05e-02 -1.10e-02  2.46e-03  2.92e-03  2.62e-02 1.002
## 14828   3.73e-03 -8.31e-03 -1.07e-02  4.10e-03  4.31e-02  7.20e-02 1.005
## 91276  -3.88e-04 -5.53e-03  4.11e-03  2.60e-03 -2.84e-03  1.83e-02 1.004
## 61112   7.33e-03 -2.79e-03  6.51e-03 -3.65e-03 -2.77e-02  4.10e-02 1.004
## 34735  -1.46e-02 -3.10e-02  3.97e-02 -1.46e-02  1.37e-03 -7.29e-02 0.997
## 102204 -3.17e-03  8.84e-03 -9.34e-03  9.63e-04 -2.46e-03  2.00e-02 1.004
## 43994   1.73e-02 -2.81e-02 -1.59e-02  2.76e-02 -7.83e-03 -7.62e-02 0.993
## 74974   9.56e-03 -1.53e-02  8.64e-03  6.14e-04 -3.41e-02  4.64e-02 1.005
## 98170   5.45e-04  2.71e-02 -1.78e-02 -5.74e-03 -1.45e-03 -6.79e-02 1.001
## 57901  -1.84e-03  6.54e-03  4.59e-03 -2.93e-03  1.66e-03  2.11e-02 1.004
## 103556  2.79e-02 -2.06e-02  1.34e-02  1.24e-02 -2.66e-02  6.19e-02 1.004
## 4680   -6.55e-03 -7.07e-03 -6.34e-03 -5.69e-03  1.90e-03  2.85e-02 1.006
## 85401   3.73e-03 -9.31e-03  9.08e-03  1.36e-03 -2.77e-02  3.60e-02 1.004
## 95865   2.47e-03  5.32e-03  3.38e-03  9.99e-03  1.98e-03  1.99e-02 1.004
## 98627  -1.07e-02  4.61e-03 -1.13e-02 -2.62e-03  3.20e-03  2.18e-02 1.003
## 98302  -1.19e-03 -8.26e-03  6.52e-03  8.54e-04  1.99e-03  1.82e-02 1.004
## 75791   2.73e-02  1.85e-02 -3.21e-02  2.07e-02 -2.39e-02 -6.90e-02 0.996
## 54234   1.00e-02  2.36e-03  3.13e-03  6.15e-03  7.93e-05  1.41e-02 1.004
## 51989  -8.85e-03  9.62e-03 -9.68e-03 -2.65e-03  1.79e-03  1.90e-02 1.003
## 29698  -3.96e-02 -2.46e-02 -1.99e-02  5.08e-03 -1.53e-03 -7.17e-02 0.993
## 122086  2.06e-02  1.04e-02  8.40e-03  9.72e-03 -3.23e-02  5.01e-02 1.003
## 35612  -4.93e-03  1.32e-03 -1.43e-02 -7.81e-03  8.85e-03  3.49e-02 1.004
## 24150   9.55e-04  2.35e-03  1.65e-03 -6.10e-04 -6.29e-04  7.43e-03 1.004
## 60691   4.46e-03  4.66e-02 -3.72e-02  1.28e-02 -1.37e-02 -7.51e-02 0.994
## 17695   1.42e-02  8.39e-03  8.45e-03  4.86e-03  1.14e-02  3.01e-02 1.003
## 27524  -4.24e-03 -5.84e-03 -6.50e-03  8.29e-04  4.90e-04  1.45e-02 1.003
## 107679 -1.14e-02 -5.25e-04  2.05e-03 -7.63e-02  5.35e-04 -7.74e-02 1.099
## 4314   -1.11e-02 -1.15e-02 -1.28e-02 -6.20e-03 -3.18e-02  5.34e-02 1.007
## 96292  -1.84e-03 -8.16e-03 -6.22e-03 -8.88e-04 -3.92e-04  1.58e-02 1.003
## 52750  -4.59e-03  2.47e-03  1.65e-04 -3.17e-03  1.79e-02  2.96e-02 1.013
## 63445   1.49e-02  3.32e-02  2.66e-02  1.42e-02 -5.78e-03 -7.22e-02 0.994
## 62369   8.59e-03 -9.93e-03 -7.29e-03 -1.29e-04 -1.76e-03  2.05e-02 1.003
```

```
## 41524  -2.84e-03 -4.88e-03 -4.41e-03 -2.01e-03 -8.67e-04  1.17e-02 1.004
## 130475  2.68e-03  9.19e-03  2.10e-02 -7.40e-04 -3.08e-03 -6.99e-02 1.002
## 56246  -6.04e-03  5.31e-03 -8.77e-03 -4.11e-03 -1.19e-03  1.83e-02 1.003
## 6500    1.13e-03 -8.08e-04 -4.40e-04  3.33e-04  6.57e-04 -4.51e-03 1.006
## 48978  -4.69e-04 -8.07e-03 -1.10e-02  3.80e-03  1.06e-02  2.88e-02 1.002
## 114701 -6.17e-03 -4.18e-03  3.96e-03 -1.66e-03  1.07e-03  1.01e-02 1.004
## 95151  -2.10e-03  4.54e-03  2.00e-03 -6.58e-03  2.45e-03  1.79e-02 1.004
## 53685  -9.90e-04  2.30e-03  1.90e-03 -5.24e-04  2.30e-03  1.28e-02 1.004
## 128501  1.09e-02 -2.69e-02 -2.17e-02  1.88e-02 -4.46e-03 -7.71e-02 0.993
## 111498 -2.49e-02  2.69e-02 -2.15e-02 -7.75e-03  3.28e-02 -9.22e-02 1.003
## 124573 -1.17e-03  1.90e-03  1.23e-03  2.86e-03 -5.94e-04  6.99e-03 1.005
## 64498   4.11e-02 -3.15e-02 -2.35e-02  2.32e-02 -7.62e-03 -7.42e-02 0.992
## 8362   -2.66e-03 -4.99e-03 -9.40e-03 -7.12e-04  1.32e-02  3.83e-02 1.005
## 46245   1.36e-02 -6.94e-03 -1.17e-02  6.41e-04  5.11e-03  3.13e-02 1.003
## 40211   7.74e-04  2.59e-03  9.96e-04 -2.19e-03 -4.15e-04  9.14e-03 1.005
## 102706  6.03e-03 -1.77e-02  2.20e-02  6.47e-03  2.68e-02 -6.53e-02 1.002
## 62703   5.10e-03  2.51e-03  5.89e-03 -5.56e-03 -5.78e-03  2.55e-02 1.002
## 26767  -3.62e-02 -2.19e-02 -1.82e-02  6.02e-03 -8.11e-03 -6.40e-02 0.995
## 66264  -3.06e-03  7.09e-03 -1.03e-02 -1.39e-03  4.45e-04  1.65e-02 1.003
## 8530   -5.22e-03 -2.35e-03  4.24e-03 -1.88e-03  3.58e-03  1.44e-02 1.005
## 42621   1.43e-03 -1.13e-02 -9.63e-03 -4.64e-03  3.91e-03  2.83e-02 1.003
## 24753  -5.34e-03  3.51e-03  2.70e-03 -1.96e-04 -1.16e-05  9.51e-03 1.004
## 62400  -4.55e-04  1.98e-03 -6.74e-03 -1.01e-03 -1.74e-04  1.11e-02 1.003
## 42853  -5.64e-03 -1.68e-02  1.11e-02  5.63e-05 -1.08e-02  4.36e-02 1.005
## 21849  -9.03e-03 -1.81e-02 -1.30e-02  8.13e-03  2.25e-02 -5.67e-02 0.998
## 127574  4.89e-03 -1.54e-02  2.27e-02  8.51e-03  7.56e-03 -5.78e-02 1.002
## 64094   8.07e-03  1.24e-02  5.14e-03  7.38e-03 -6.75e-03  5.03e-02 1.002
## 83530   9.90e-04  1.06e-03 -8.32e-03  3.13e-04 -1.57e-03  1.58e-02 1.003
## 86926   5.10e-03 -2.49e-03  4.03e-03 -2.29e-03  1.42e-04  1.47e-02 1.004
## 127886  6.34e-03  5.01e-03  2.89e-03 -1.39e-03  2.75e-03  2.09e-02 1.004
## 53666   2.38e-03 -1.50e-03  2.18e-03 -2.12e-03 -7.39e-05  7.48e-03 1.004
## 113063 -1.83e-02  1.25e-04 -1.12e-02 -4.03e-03  1.10e-02  3.15e-02 1.002
## 93356  -1.55e-02  1.28e-02  8.17e-03 -1.40e-02 -6.68e-03  5.69e-02 1.004
## 93824   5.59e-03  1.70e-02 -2.06e-02 -6.88e-03 -5.15e-03  4.56e-02 1.002
## 125129 -3.90e-03  3.20e-03  1.87e-03 -3.90e-03  1.16e-03  1.10e-02 1.005
## 6906    1.43e-03  3.64e-03 -4.60e-03 -8.30e-04 -1.30e-03  1.12e-02 1.005
## 22041   1.07e-02  1.98e-03  6.47e-03 -3.07e-04  3.18e-03  1.75e-02 1.003
## 55340   6.66e-03  4.65e-04  6.07e-03 -1.07e-03  4.00e-03  2.09e-02 1.003
## 57304   1.09e-02  4.82e-03  1.48e-03 -1.40e-03  1.13e-02  3.07e-02 1.006
## 121518  1.24e-03  6.39e-03 -7.51e-03 -1.45e-03 -4.06e-03  1.48e-02 1.004
## 88626  -1.67e-02  5.21e-03  1.65e-02 -1.38e-02 -1.79e-02  7.35e-02 1.002
## 48747   3.24e-03 -8.91e-03 -6.88e-03  1.53e-03 -6.47e-04  1.65e-02 1.003
## 83772  -1.67e-02  1.27e-02 -1.75e-02  6.88e-03  1.50e-02 -5.78e-02 0.999
## 63894   1.33e-03 -7.68e-03  3.39e-02 -8.73e-03  1.98e-02 -9.40e-02 1.000
## 119403  6.29e-03 -2.06e-02 -8.30e-03  1.66e-02 -3.11e-02 -9.83e-02 1.000
## 48765   4.02e-03  6.59e-03  5.80e-03  1.54e-04  4.76e-03  1.61e-02 1.003
## 91249   7.60e-03  5.80e-03  4.45e-03  9.60e-03  2.78e-03  1.80e-02 1.003
## 42075   2.09e-03 -6.07e-03 -5.80e-03 -2.31e-03  3.85e-04  1.44e-02 1.004
## 63853  -9.86e-04  1.64e-03  3.09e-04 -2.13e-03  1.33e-03  7.10e-03 1.006
## 73878  -8.18e-04 -3.32e-04 -5.77e-03 -2.20e-03 -1.88e-03  1.18e-02 1.003
## 62699  -7.59e-04 -9.78e-04  7.53e-04 -7.54e-05  1.78e-04  2.45e-03 1.004
## 69435  -2.23e-02 -2.62e-02  4.00e-02  6.22e-03 -8.30e-03 -7.84e-02 0.999
## 6722   -1.76e-02  1.06e-02  4.74e-03 -1.14e-02 -1.95e-02  4.75e-02 1.006
## 90684   1.06e-02 -3.16e-02  4.35e-02 -2.30e-03  4.96e-02 -9.07e-02 0.997
## 108800  3.73e-02  2.15e-03  3.52e-02 -4.85e-02 -6.33e-03 -9.05e-02 0.996
## 114609  2.05e-03 -7.48e-03  5.66e-03 -1.06e-03 -2.01e-03  1.41e-02 1.004
## 18802  -5.55e-04 -3.42e-03  4.72e-03 -2.41e-03  1.09e-03  9.79e-03 1.003
## 111852 -7.40e-03  1.57e-02 -2.03e-02 -7.99e-03 -6.24e-03  3.80e-02 1.002
## 18427   4.29e-02 -9.34e-03 -1.52e-02  9.45e-03  4.27e-03 -7.98e-02 1.000
## 78451   4.88e-03 -1.06e-02  6.61e-03  4.36e-03 -3.96e-04  1.97e-02 1.003
## 24581   6.22e-03 -3.45e-03 -8.31e-03 -4.84e-04 -1.83e-03  1.79e-02 1.003
## 118516  2.88e-03 -3.36e-03  6.59e-03 -1.45e-03  2.64e-03  2.00e-02 1.004
## 28350  -3.05e-03 -6.02e-03  4.75e-03 -1.51e-03  5.01e-04  9.87e-03 1.004
## 90451  -2.03e-02 -1.30e-02 -8.04e-03  6.82e-03  1.60e-02 -6.49e-02 1.002
## 22146  -1.02e-02  3.51e-03  2.88e-02  5.28e-03  3.63e-02 -7.19e-02 1.000
## 31721   2.84e-02  1.43e-02 -2.58e-02 -3.60e-03 -1.79e-02  5.60e-02 1.001
## 21965  -2.67e-02  2.04e-02  2.06e-02 -7.63e-03  4.74e-02 -7.60e-02 1.001
## 8886   -5.49e-03  4.10e-03  3.07e-03 -2.94e-03  1.08e-03  1.70e-02 1.005
## 19869  -5.20e-03  8.72e-04  6.01e-03 -1.02e-02 -2.60e-03  2.62e-02 1.004
## 160    -1.11e-02  3.55e-03 -1.16e-02  3.39e-03  2.44e-02  5.37e-02 1.005
## 76245   6.81e-03  6.17e-03  5.07e-03  1.31e-03  2.05e-03  1.69e-02 1.003
## 43546  -1.52e-03  9.41e-04  2.38e-03  5.28e-03 -4.26e-04  8.79e-03 1.004
## 103999 -2.13e-02 -1.61e-02  2.46e-02  4.29e-03 -4.50e-02 -9.03e-02 1.002
## 34430  -9.52e-03  9.60e-03  8.71e-03  4.36e-05  2.00e-02  3.99e-02 1.005
## 75035   2.83e-03  2.77e-03  3.39e-03 -3.65e-04  1.93e-04  9.12e-03 1.003
## 33448  -2.91e-02 -8.98e-03 -1.61e-02 -1.24e-03 -2.11e-02  7.39e-02 1.004
## 62323   1.35e-02  2.17e-02 -2.42e-02  7.70e-03  7.94e-02 -1.05e-01 0.998
## 107965  5.82e-03  6.33e-03  1.64e-03  1.10e-02 -4.46e-03  3.01e-02 1.005
## 98935  -4.97e-03 -3.74e-03  4.41e-03 -2.80e-03  1.18e-03  1.01e-02 1.004
## 57636   2.21e-02  1.18e-02 -3.24e-02  1.04e-02 -2.66e-02 -7.03e-02 0.994
## 85547   6.66e-03  1.11e-02  9.58e-03  4.47e-04 -9.98e-03  5.14e-02 1.003
## 126334  1.01e-02 -1.28e-02 -1.30e-02 -2.43e-03  1.40e-02  4.99e-02 1.003
## 89251  -9.03e-04  1.33e-03  5.64e-04  3.63e-04 -6.69e-04  4.10e-03 1.004
## 68117   8.43e-03  4.32e-03  3.80e-03  7.47e-04 -6.54e-04  1.44e-02 1.003
## 122044 -7.89e-03  7.40e-03  4.48e-03 -5.28e-03  4.44e-03  2.11e-02 1.004
## 129425  1.92e-03 -6.15e-03  6.05e-03  2.07e-03  1.47e-02  3.87e-02 1.004
## 17732   1.07e-02 -4.58e-03  6.79e-03  8.72e-03  2.56e-03  1.97e-02 1.003
## 36781  -2.14e-02  3.82e-02 -2.25e-02  1.82e-02  2.03e-02 -1.08e-01 0.997
## 103832  3.11e-04  1.78e-04  1.72e-03 -1.16e-03 -2.99e-04  5.53e-03 1.003
## 9369   -9.79e-04  8.99e-03  5.71e-03 -2.70e-03 -1.70e-02  4.08e-02 1.004
## 58000  -2.14e-02  1.11e-02  1.39e-02 -3.11e-03  2.14e-02 -5.31e-02 1.003
## 11364  -1.95e-03  4.13e-03  2.43e-03  2.09e-04  2.71e-03  1.56e-02 1.005
## 50576   4.97e-04  4.52e-02 -1.73e-02  1.70e-02 -3.31e-02 -1.16e-01 0.997
## 96274  -3.75e-04 -2.83e-04  3.53e-04  7.11e-04  8.82e-05  1.56e-03 1.004
## 57608   1.17e-03 -4.28e-03 -5.23e-03  1.05e-03 -8.34e-04  1.09e-02 1.004
## 71509   5.15e-03  1.23e-02 -1.41e-02 -9.21e-05  2.45e-03  2.77e-02 1.003
## 19788  -1.78e-02  1.45e-02  8.49e-03 -1.18e-02  1.59e-03  5.54e-02 1.002
## 91376   3.22e-03 -1.03e-03 -7.98e-03  3.22e-03 -1.05e-03  1.56e-02 1.003
```

```
## 57808   4.91e-02 -2.56e-02 -1.19e-02 -1.76e-02 -3.19e-03 -1.21e-01 0.995
## 37743   3.85e-03 -1.19e-02  9.26e-03 -3.17e-03  4.17e-03  1.88e-02 1.003
## 91919  -5.25e-03 -3.62e-03  3.97e-03 -2.37e-03  3.30e-04  9.36e-03 1.004
## 53737   2.66e-02 -9.93e-04  3.14e-02  1.70e-02 -1.49e-02 -7.51e-02 0.996
## 70199   4.03e-02  1.22e-02  1.75e-02  1.25e-02 -1.52e-02 -7.75e-02 1.000
## 76511  -2.57e-02 -3.96e-02  5.21e-02 -1.29e-02  2.29e-02 -1.09e-01 0.994
## 24265  -6.81e-03  4.03e-03  2.47e-03 -2.70e-03  1.21e-03  1.05e-02 1.004
## 55505   2.56e-02  1.64e-02 -1.87e-02 -5.40e-04  1.60e-02  5.33e-02 1.004
## 74936   8.53e-04  3.25e-03  2.15e-03  4.46e-03  1.97e-04  9.12e-03 1.003
## 44824   5.64e-04  2.23e-03  1.53e-03 -1.21e-03 -8.33e-04  5.89e-03 1.003
## 105172  7.65e-03  4.72e-03  3.69e-03 -1.11e-03  8.86e-04  1.44e-02 1.003
## 18230   6.04e-05  2.87e-02  2.36e-02 -6.77e-03 -1.94e-02 -7.60e-02 0.998
## 102311 -3.94e-03 -6.69e-03 -1.76e-02  1.76e-03 -3.66e-02  5.08e-02 1.002
## 48821  -1.02e-02  2.59e-02  2.56e-02  1.46e-02 -4.72e-03 -6.94e-02 0.996
## 56283  -6.15e-04  3.47e-03  2.15e-03  1.19e-03  8.60e-04  1.01e-02 1.003
## 12862  -3.43e-03  1.85e-03 -1.76e-02  2.90e-03 -2.99e-02  5.50e-02 1.004
## 32257  -6.06e-03  9.99e-03  6.69e-03  6.53e-04  1.51e-02  3.91e-02 1.005
## 5840    2.00e-02  6.50e-03  1.65e-03 -3.93e-05  2.10e-02  5.53e-02 1.007
## 67837  -1.50e-03  1.36e-03  3.15e-03 -2.09e-03  5.53e-04  9.79e-03 1.003
## 67488   7.53e-03  6.49e-03 -8.49e-03  3.31e-03 -2.27e-03  1.74e-02 1.004
## 56880  -9.70e-03  2.30e-02  1.60e-02 -1.85e-03  3.43e-02 -6.10e-02 1.001
## 36990   9.56e-03  9.18e-03  6.87e-03 -7.49e-03 -6.11e-03  3.98e-02 1.003
## 74266  -2.55e-03  4.33e-03  2.85e-03 -3.16e-03 -1.99e-03  1.42e-02 1.004
## 26178  -1.06e-02 -6.60e-03 -5.03e-03 -4.48e-03  1.88e-03  1.95e-02 1.004
## 95236  -3.50e-02 -9.90e-03  2.88e-02 -2.40e-03  2.63e-02 -6.67e-02 1.000
## 116390 -1.62e-02 -1.99e-02 -1.30e-02 -3.49e-04  4.79e-02 -7.38e-02 0.997
## 40426  -5.89e-03  3.07e-03 -1.26e-02 -8.33e-03  5.42e-03  2.93e-02 1.003
## 2716    5.77e-03 -3.59e-03  2.14e-03  1.81e-03 -5.76e-04  1.25e-02 1.006
## 49082   1.11e-02 -3.22e-02  3.74e-02  2.56e-02 -4.67e-03 -7.91e-02 0.997
## 32081  -3.74e-03 -2.43e-03 -4.95e-03 -1.97e-03 -2.16e-04  1.27e-02 1.004
## 46005  -9.07e-03  9.24e-03  4.15e-03 -1.10e-02  3.05e-02  5.39e-02 1.006
## 97134  -3.46e-03 -2.46e-02 -2.38e-02 -2.24e-02 -1.12e-02 -8.33e-02 0.994
## 7449    3.08e-03 -5.26e-03 -8.04e-03  2.08e-03  5.69e-04  2.76e-02 1.005
## 81248   2.18e-02  1.64e-02 -2.27e-02  4.52e-03 -4.03e-02  5.83e-02 1.003
## 126727  1.23e-02 -1.18e-02 -1.18e-02  8.08e-03 -9.54e-03  3.87e-02 1.006
## 103815  2.04e-02 -1.24e-02 -2.03e-02 -5.49e-03 -2.62e-02  7.77e-02 1.005
## 72199  -6.76e-03 -1.22e-02  7.57e-03 -1.28e-02  1.05e-02  4.73e-02 1.004
## 78748   4.86e-03 -2.03e-02 -1.47e-02  1.48e-03  6.59e-02 -9.34e-02 0.998
## 89279  -1.86e-02  1.22e-02 -1.05e-02 -3.74e-03  4.03e-03  3.06e-02 1.004
## 98200  -9.22e-03  1.88e-02  1.21e-02 -1.54e-03  2.43e-02 -5.47e-02 1.003
## 6092   -4.56e-03  4.53e-03  3.26e-03 -1.92e-03  2.87e-03  1.60e-02 1.005
## 41389  -1.27e-02  8.52e-03  4.54e-03  1.07e-02 -1.10e-02  4.38e-02 1.005
## 64286   8.33e-03 -2.87e-02 -9.21e-03 -3.17e-02 -5.56e-04 -9.44e-02 0.992
## 94253  -2.29e-02  2.20e-02 -2.50e-02 -1.18e-02 -9.50e-03  6.83e-02 1.002
## 92002  -9.17e-03 -6.38e-03  1.14e-02 -5.07e-03  1.02e-02  2.62e-02 1.003
## 127707 -1.04e-02  5.18e-03  4.09e-03 -3.84e-03  1.32e-03  1.64e-02 1.004
## 37480  -8.14e-03 -2.57e-02 -1.71e-02  9.21e-03 -3.04e-02 -1.01e-01 0.998
## 66425  -9.32e-04 -8.41e-03 -6.17e-03 -6.83e-04 -2.09e-03  1.84e-02 1.003
## 129953  3.09e-02 -2.40e-04 -2.55e-02  2.88e-03 -2.24e-02  7.28e-02 1.000
## 2188    1.50e-02 -5.69e-03  6.79e-03  5.27e-03  1.54e-02  4.10e-02 1.008
## 73148   1.89e-02  6.50e-03  5.52e-03 -1.26e-03  1.78e-03  2.59e-02 1.003
## 46701   5.63e-03  6.60e-03  6.25e-03 -3.06e-03  3.66e-03  1.85e-02 1.003
## 25865  -1.85e-02 -2.27e-02 -1.57e-02  1.81e-02  5.51e-04 -6.89e-02 0.995
## 26623   6.29e-03 -1.48e-03 -1.05e-02  3.38e-03  4.77e-04  1.82e-02 1.003
## 25756  -5.51e-03 -5.60e-03 -5.88e-03 -3.18e-03  1.72e-03  1.79e-02 1.003
## 68512  -2.35e-03  1.49e-02  3.18e-02 -4.71e-03  2.71e-04 -7.57e-02 1.000
## 38522   1.86e-02  4.17e-03 -2.38e-02  1.05e-02 -3.00e-02  7.86e-02 1.006
## 52893  -3.24e-02 -2.09e-02 -1.17e-02 -4.03e-03  3.09e-03 -8.29e-02 0.998
## 69143  -5.95e-03 -7.84e-03 -6.07e-03 -6.75e-03  9.60e-04  1.79e-02 1.003
## 120062 -7.77e-03  7.34e-03 -1.00e-02  2.10e-04  2.19e-04  2.04e-02 1.004
## 73750  -8.09e-02  2.67e-02 -1.72e-02 -8.96e-03  4.07e-02 -1.06e-01 0.999
## 94927  -2.94e-03 -6.22e-03 -7.00e-03 -1.46e-03  7.75e-04  1.48e-02 1.003
## 92510  -1.03e-04 -1.17e-03  6.33e-04 -3.45e-04  7.21e-04  5.45e-03 1.005
## 70218   8.05e-03 -2.26e-02 -9.59e-03  3.36e-02  3.07e-02 -1.14e-01 1.000
## 62794  -1.22e-02 -6.20e-03 -4.79e-03 -2.46e-03  1.10e-04  1.84e-02 1.004
## 48611   1.39e-03 -6.58e-03  5.10e-03 -3.29e-03  7.02e-04  1.11e-02 1.003
## 16772  -9.82e-03  1.29e-02  3.59e-02 -2.87e-02 -8.94e-04 -6.25e-02 0.993
## 40016   7.94e-03  2.30e-02 -2.75e-02  1.57e-02  8.60e-03 -8.65e-02 0.992
## 87309  -3.92e-02 -3.42e-02  4.91e-02 -4.94e-02  9.89e-03 -1.04e-01 0.995
## 82849   9.06e-04  8.78e-03  6.74e-03  2.05e-03  1.10e-02  2.92e-02 1.003
## 62044   9.92e-04  4.94e-03  1.76e-03 -9.70e-04  6.92e-03  2.29e-02 1.005
## 60045   4.79e-03  1.08e-02 -2.20e-02  1.12e-03 -3.42e-02  5.20e-02 1.001
## 30200   1.20e-03  6.58e-03  5.44e-03 -3.86e-03  2.38e-03  1.63e-02 1.003
## 15884   1.16e-03 -8.37e-04 -5.68e-03  6.82e-03  2.03e-03  1.33e-02 1.006
## 83965   2.65e-03 -1.36e-02  7.92e-03 -7.63e-03 -1.34e-03  2.71e-02 1.004
## 117975  8.62e-03 -6.02e-03  3.70e-03 -1.20e-04 -4.37e-04  1.74e-02 1.004
## 1558    1.36e-02 -2.95e-03  4.46e-03 -3.62e-03 -3.89e-03  3.55e-02 1.005
## 110684  2.01e-02 -1.14e-02 -1.42e-02 -2.17e-03  1.56e-02  5.19e-02 1.002
## 25174   9.60e-03 -1.83e-02 -1.45e-02  4.68e-03  2.71e-02 -7.05e-02 1.000
## 117329  7.57e-04  1.40e-02 -2.07e-02  7.45e-03 -3.29e-03  3.73e-02 1.003
## 126458  1.47e-03 -2.31e-02  2.84e-02  6.09e-03  1.52e-02 -6.21e-02 1.000
## 13387  -6.31e-04 -4.52e-03 -1.38e-02  7.48e-03 -1.89e-02  4.03e-02 1.005
## 6312   -4.79e-03 -4.01e-03  3.57e-03  9.02e-04  1.32e-03  1.25e-02 1.005
## 6127   -2.06e-03 -9.72e-04  9.49e-04 -9.46e-04  2.55e-04  5.60e-03 1.006
## 27641   7.50e-03  6.77e-03  4.81e-03  7.02e-04  5.12e-03  2.25e-02 1.004
## 37470   1.85e-03  6.48e-03  4.71e-03 -2.43e-04  2.77e-03  2.05e-02 1.004
## 126109 -8.28e-03  5.38e-03  4.65e-03 -5.78e-03 -4.88e-06  1.77e-02 1.004
## 72624  -7.35e-03 -1.76e-02 -1.39e-02  1.02e-02  3.34e-02 -6.76e-02 0.998
## 68808  -6.40e-04 -4.99e-03 -4.75e-03  4.28e-05  3.95e-04  1.16e-02 1.004
## 118805  2.62e-03 -7.28e-03  4.94e-03  1.14e-03 -4.10e-04  1.09e-02 1.003
## 54595  -9.58e-03  3.29e-02  2.21e-02  1.13e-02 -6.79e-03 -7.24e-02 0.996
## 52562  -2.44e-02  3.86e-02 -2.00e-02 -5.94e-03 -7.84e-03 -8.32e-02 0.996
## 26664   1.99e-02 -2.16e-02 -1.16e-02 -2.79e-02  2.97e-02 -1.11e-01 0.998
## 12851  -5.11e-04 -3.05e-03 -5.94e-03  1.77e-03 -3.36e-04  1.63e-02 1.005
## 20572   1.57e-02  1.63e-02 -1.61e-02 -6.89e-04  1.75e-02  4.20e-02 1.002
## 102928  8.05e-03  6.31e-03  2.80e-03  8.25e-03  4.89e-03  3.01e-02 1.004
## 87876   1.50e-02 -2.32e-02 -9.61e-03  5.79e-03  5.10e-02 -8.98e-02 0.997
## 84944  -3.86e-03  4.47e-03  2.10e-03 -3.13e-03  3.29e-04  1.23e-02 1.004
```

```
## 37467  -5.67e-03  3.79e-03  2.51e-03 -7.10e-04  9.34e-04  9.07e-03 1.003
## 96685   4.13e-03 -3.01e-03  2.26e-03  7.35e-04 -1.76e-03  7.52e-03 1.004
## 11932   1.31e-03 -8.67e-03 -7.02e-03  8.54e-04  2.70e-03  2.52e-02 1.004
## 69962   3.39e-03  1.21e-02 -1.32e-02  1.95e-03  2.87e-03  2.73e-02 1.003
## 99961   1.04e-02  4.49e-03  6.37e-03 -7.52e-04  4.61e-03  1.93e-02 1.003
## 43892  -1.31e-03  3.28e-03  2.45e-03  3.91e-03  1.85e-05  8.70e-03 1.003
## 97078   1.18e-03  3.62e-03  2.82e-03  2.05e-03 -5.64e-04  1.02e-02 1.003
## 123931 -8.28e-04  2.89e-03  2.27e-03  1.04e-03 -1.27e-03  1.08e-02 1.005
## 34485   1.89e-03  8.37e-04  1.80e-03 -1.24e-03 -5.21e-04  6.46e-03 1.003
## 75232   1.14e-02 -4.42e-04  1.11e-02 -1.13e-03 -2.93e-02  4.33e-02 1.002
## 88864  -1.62e-02  2.64e-02 -3.03e-02 -1.12e-02 -3.47e-02 -8.04e-02 0.998
## 84368  -1.43e-03 -1.15e-02 -9.98e-03 -3.25e-03  1.01e-02  3.29e-02 1.002
## 65061  -8.21e-03 -5.00e-03 -7.79e-03 -2.94e-03  9.25e-03  2.47e-02 1.003
## 121976  1.30e-02  4.84e-03 -2.28e-02  4.75e-03 -1.10e-02  4.20e-02 1.001
## 51826  -1.41e-02 -1.61e-02  2.27e-02 -2.80e-03  4.33e-03 -5.27e-02 1.003
## 120795  4.45e-03  4.23e-03  3.44e-03  1.78e-03  6.07e-04  1.16e-02 1.003
## 130126 -6.25e-03  3.18e-02  2.63e-02 -2.35e-02 -8.10e-03 -9.24e-02 0.997
## 40903  -1.39e-03  4.02e-03  2.16e-03 -7.54e-04 -7.93e-04  1.17e-02 1.004
## 130066  3.84e-03  7.87e-03  3.21e-03  1.12e-03  2.00e-02  4.38e-02 1.005
## 106568 -9.84e-03  4.98e-03 -1.02e-02 -4.80e-03  5.82e-03  2.20e-02 1.003
## 78116   1.26e-02 -3.32e-02  2.84e-02 -1.22e-02 -4.69e-02 -8.91e-02 0.998
## 130068 -2.19e-04  5.08e-03  4.16e-03 -1.86e-03  3.13e-04  1.59e-02 1.003
## 34397  -1.27e-03  6.79e-03  4.03e-03 -8.22e-04 -2.28e-02  2.92e-02 1.004
## 34437   2.83e-03 -1.43e-02  9.66e-03 -3.51e-03 -1.49e-02  3.12e-02 1.003
## 83311   1.04e-02 -2.02e-03 -1.33e-02 -6.07e-03  1.27e-03  2.59e-02 1.002
## 124141 -6.26e-03 -1.22e-02 -1.23e-02 -4.98e-03  1.31e-02  4.40e-02 1.006
## 56522   9.91e-03  9.77e-03 -1.34e-02 -2.37e-03  7.30e-04  2.35e-02 1.003
## 5466   -5.51e-03 -5.09e-03 -7.13e-03  2.04e-03  2.07e-03  2.41e-02 1.005
## 55849   6.05e-02 -3.75e-02  4.23e-02  1.05e-02  1.19e-02 -1.11e-01 0.993
## 85758  -1.01e-03 -5.37e-03 -5.41e-03 -2.71e-03  1.69e-03  1.37e-02 1.004
## 3973    1.12e-03 -7.03e-03 -7.88e-03 -1.73e-03  1.53e-03  2.58e-02 1.004
## 97798   1.34e-02 -1.43e-02  1.27e-02  1.90e-03  9.64e-03  3.49e-02 1.004
## 115334 -1.09e-02  1.28e-02 -1.37e-02 -5.00e-03  2.58e-03  2.67e-02 1.003
## 109147 -7.08e-03  1.28e-02 -1.34e-02 -4.60e-04  4.41e-03  2.86e-02 1.003
## 69740  -7.64e-04  6.38e-03 -7.93e-03 -2.06e-03  5.04e-05  1.39e-02 1.004
## 80728  -4.43e-03 -1.98e-05 -4.67e-03 -3.12e-04 -1.42e-03  1.13e-02 1.004
## 68750   1.68e-02  1.37e-02  8.79e-03 -4.49e-03 -3.09e-02  6.18e-02 1.002
## 3103    2.03e-02  1.18e-02 -2.78e-02  1.07e-02 -1.07e-02 -1.03e-01 0.996
## 27948  -6.56e-03  8.15e-03  4.55e-03 -2.96e-03 -4.07e-03  2.43e-02 1.003
## 43439  -3.30e-04 -6.50e-04  3.98e-04  6.07e-04  1.43e-04  2.86e-03 1.005
## 120550 -3.42e-03 -4.88e-03 -8.94e-03 -5.55e-03  2.19e-03  2.07e-02 1.004
## 13598   5.61e-02  4.87e-02 -3.73e-02  1.34e-02 -9.37e-03 -1.30e-01 0.994
## 17927  -1.22e-02  1.24e-02 -1.19e-02  6.75e-04  5.49e-03  2.43e-02 1.003
## 94698   1.62e-02 -1.05e-02 -9.96e-03  3.48e-03 -2.23e-03  2.81e-02 1.004
## 120163  1.66e-04 -5.55e-03  4.37e-03  1.17e-03  6.00e-04  9.04e-03 1.003
## 115188  8.62e-03 -5.65e-03  1.10e-02 -3.09e-03  5.94e-03  2.65e-02 1.002
## 119009  8.83e-03  3.82e-03  2.95e-03  6.95e-03  6.12e-04  1.50e-02 1.004
## 21934   2.19e-02  6.45e-03  5.60e-03 -3.30e-03 -1.81e-02  4.91e-02 1.003
## 128103  4.76e-03  8.66e-03 -1.01e-02 -2.60e-03 -1.28e-03  2.41e-02 1.004
## 24346   1.16e-02  6.96e-03 -2.06e-02  9.95e-02 -1.79e-02  1.10e-01 1.040
## 61683  -1.30e-02 -2.19e-02 -1.50e-02  2.94e-02 -3.22e-03 -8.81e-02 0.996
## 77860   4.90e-03 -9.62e-03  9.52e-03 -2.57e-03 -1.12e-02  4.16e-02 1.004
## 85022  -1.57e-03  3.42e-03  1.93e-03  3.98e-03  4.04e-04  1.13e-02 1.004
## 121655  6.12e-03 -6.00e-04  1.61e-03  4.74e-03 -1.61e-04  2.07e-02 1.005
## 54150   1.23e-03 -4.74e-03  2.91e-03  2.06e-03  1.60e-03  1.20e-02 1.004
## 60859   3.21e-02 -1.06e-02  6.84e-03  2.34e-02 -3.22e-03  4.96e-02 1.005
## 5851    8.21e-04  5.66e-03  2.65e-03  4.49e-03 -9.78e-03  2.79e-02 1.005
## 92013  -7.84e-03  7.06e-03  4.12e-03 -3.70e-03 -1.97e-02  2.85e-02 1.005
## 122519 -3.17e-03  8.91e-03  6.95e-03 -3.66e-04  1.11e-02  2.94e-02 1.003
## 79479   1.03e-02 -1.16e-02  8.23e-03 -2.00e-03  6.76e-04  2.16e-02 1.003
## 70987  -9.09e-03 -1.55e-02  1.03e-02 -7.41e-04 -2.27e-02  3.47e-02 1.004
## 65907   1.95e-02 -2.39e-02 -5.72e-03 -1.08e-01  1.52e-02 -1.49e-01 0.996
## 26918  -1.16e-02 -5.09e-03 -7.86e-03 -6.05e-03  5.67e-03  2.29e-02 1.003
## 8617    1.18e-02 -3.14e-02 -1.81e-02  8.56e-03 -2.26e-03 -1.13e-01 0.992
## 90528  -2.49e-03  1.79e-03  3.23e-03 -2.80e-03 -1.95e-03  1.31e-02 1.004
## 84045  -4.81e-03 -6.48e-04 -8.86e-03 -2.76e-03  1.12e-03  1.54e-02 1.003
## 49479   4.48e-03 -8.45e-03  5.24e-03 -1.43e-03  6.33e-04  1.35e-02 1.004
## 117692 -1.10e-03  6.65e-04  7.86e-04 -3.32e-04 -5.05e-04  4.42e-03 1.004
## 64320  -2.74e-02  3.74e-03  1.17e-02 -7.34e-03  1.64e-02 -5.04e-02 1.006
## 46240   1.58e-02 -3.21e-02  2.41e-02  9.17e-04 -3.08e-02  7.46e-02 1.001
## 121475 -4.77e-03  3.92e-03  2.55e-03 -2.76e-03  1.07e-03  1.02e-02 1.003
## 9775    1.04e-03  7.11e-03 -1.29e-02 -2.12e-03  3.18e-02  6.49e-02 1.006
## 52285   3.54e-02 -3.05e-02 -1.89e-02  2.97e-02 -8.20e-03 -7.86e-02 0.992
## 35572  -1.04e-03 -2.00e-03  1.06e-03 -5.73e-04  6.07e-04  4.12e-03 1.005
## 56371  -3.09e-02  1.10e-02  3.22e-02 -2.99e-02 -1.56e-02 -8.39e-02 0.996
## 15085  -1.27e-03  1.29e-04  4.22e-04 -1.09e-03  7.33e-04  4.40e-03 1.005
## 31498   3.59e-02  2.21e-02 -2.64e-02  1.25e-02 -4.30e-03 -8.10e-02 0.994
## 8849    5.35e-04  1.36e-04 -6.47e-04  3.82e-04  6.77e-04 -2.99e-03 1.005
## 120689 -1.66e-03 -4.71e-03  4.04e-03 -2.83e-03  1.00e-03  1.01e-02 1.003
## 63268  -2.74e-03 -4.56e-03  3.87e-03 -2.00e-03  7.91e-04  1.13e-02 1.004
## 40612   5.17e-03 -1.04e-02  8.54e-03 -2.25e-03  2.79e-03  1.74e-02 1.003
## 122154 -5.40e-03 -1.08e-03  3.08e-03 -1.13e-03  3.25e-04  1.05e-02 1.004
## 40395   4.95e-03  4.67e-03  5.55e-03 -8.84e-03 -2.66e-02  7.21e-02 1.007
## 66833   1.85e-02 -2.27e-03 -1.71e-02  2.35e-04 -3.48e-03  4.02e-02 1.004
## 118250  1.93e-03 -2.17e-02  1.42e-02  8.78e-05 -2.51e-02  4.19e-02 1.003
## 125187 -6.14e-03 -6.12e-03  5.14e-03 -4.29e-03  7.90e-04  1.82e-02 1.005
## 12103  -7.44e-03 -6.23e-03 -4.97e-03  4.18e-03  4.15e-03  2.27e-02 1.005
## 86049   8.07e-04  7.43e-03  3.36e-03  5.82e-04  6.42e-03  2.70e-02 1.003
## 27521  -2.05e-03 -9.07e-04  4.15e-03 -3.67e-03  3.60e-04  8.68e-03 1.003
## 89838  -1.31e-02 -1.71e-02 -1.78e-02  4.63e-03 -9.53e-03  5.61e-02 1.004
## 98714  -2.00e-03 -2.22e-03 -7.78e-03  1.17e-02 -1.27e-03  1.97e-02 1.005
## 26627  -3.83e-03 -3.54e-03  4.13e-03 -2.84e-04 -2.21e-04  9.13e-03 1.004
## 127117 -9.87e-03 -1.15e-02 -1.00e-02 -1.30e-03  2.39e-03  3.65e-02 1.004
## 52108  -6.32e-03  6.51e-03 -7.69e-03 -5.60e-03 -4.75e-04  1.73e-02 1.005
## 25534   1.98e-03  4.36e-03  3.06e-03  3.84e-04  9.70e-04  1.03e-02 1.003
## 128762  4.28e-03  1.19e-02 -1.35e-02 -5.78e-03  1.83e-03  2.81e-02 1.003
## 51449  -3.86e-03  8.18e-03  5.97e-03  1.79e-03 -2.88e-02  3.93e-02 1.004
## 1284   -4.36e-05 -1.18e-04 -2.28e-04  2.85e-05  2.09e-04 -1.19e-03 1.005
```

```
## 55780  -2.64e-03  1.34e-02  8.00e-03  4.05e-03 -2.69e-02  5.48e-02 1.002
## 97550   2.23e-02 -1.59e-02  7.15e-03  1.88e-02 -1.14e-02  3.75e-02 1.004
## 34810  -4.72e-02 -2.37e-02 -1.76e-02  2.77e-03 -1.53e-02 -9.17e-02 0.996
## 64440  -3.59e-03  3.85e-02 -3.42e-02  1.03e-02 -1.39e-02 -6.42e-02 0.994
## 50715  -4.89e-03  4.06e-03  3.17e-03 -2.22e-03  3.63e-04  9.63e-03 1.003
## 39319   3.71e-03 -1.68e-03  7.35e-03 -3.24e-03  4.22e-03  1.67e-02 1.003
## 76816  -4.56e-03  8.99e-03  5.25e-03 -1.27e-03  4.14e-04  3.17e-02 1.003
## 105844  9.80e-03 -1.00e-02  6.97e-03 -4.09e-03 -1.60e-03  2.72e-02 1.004
## 12744  -1.87e-03 -2.37e-02  4.94e-02  1.25e-02  1.04e-02 -1.24e-01 0.994
## 93717  -9.39e-05 -9.10e-03 -7.81e-03 -4.65e-03  9.97e-04  2.06e-02 1.004
## 98295  -1.29e-03  1.39e-03  3.29e-03 -2.04e-03  3.12e-04  9.51e-03 1.003
## 11956   6.23e-03  3.82e-03  9.55e-04 -1.20e-03  1.91e-03  2.21e-02 1.006
## 33154  -7.62e-03 -4.68e-03  7.01e-03  1.11e-03 -8.81e-03  2.53e-02 1.003
## 47915   1.77e-02 -1.08e-02  1.03e-02  5.35e-03  1.50e-02  3.84e-02 1.004
## 29916   5.87e-03 -1.15e-02  9.35e-03  3.23e-04  6.25e-03  2.15e-02 1.004
## 29099  -1.27e-02 -1.90e-02  1.43e-02  1.88e-02 -1.38e-02  5.87e-02 1.003
## 13394   2.85e-03 -5.98e-03 -1.12e-02 -5.14e-03 -4.65e-03  3.61e-02 1.005
## 11967  -1.49e-03  4.34e-03  3.07e-03  7.69e-04  2.56e-03  1.58e-02 1.005
## 114376  6.19e-05 -1.96e-03  3.10e-03  4.80e-03  2.72e-04  7.96e-03 1.003
## 47198  -6.68e-02 -1.64e-02 -1.39e-02 -6.86e-03 -2.40e-02 -9.98e-02 1.001
## 165     1.53e-02 -1.38e-02 -1.06e-02 -1.65e-03  5.85e-03  4.70e-02 1.005
## 76493  -5.24e-02  3.83e-02 -3.22e-02 -1.31e-02 -2.58e-02 -9.54e-02 0.997
## 92999  -1.00e-03  1.87e-03  1.26e-03 -4.64e-04 -4.93e-04  5.10e-03 1.004
## 120573 -3.21e-03 -1.79e-03  3.79e-03 -6.64e-04  6.40e-04  7.52e-03 1.003
## 53912   2.49e-02 -1.40e-02 -9.68e-03  3.04e-02 -9.93e-03 -8.07e-02 1.000
## 93231   3.15e-03  9.18e-03 -1.62e-02 -1.82e-03  3.22e-02  5.29e-02 1.011
## 13159   4.28e-03  8.31e-03  4.02e-03 -1.60e-03 -1.63e-03  3.80e-02 1.004
## 125030 -4.39e-03  3.06e-03  1.76e-03 -4.58e-03  1.52e-03  1.07e-02 1.005
## 32294   2.13e-03 -1.15e-02  8.25e-03  2.28e-04  2.31e-03  1.74e-02 1.003
## 43946  -2.35e-03  1.95e-04  3.38e-03 -4.21e-03  1.10e-03  1.10e-02 1.003
## 114050 -3.58e-04  6.70e-03 -7.36e-03 -2.25e-03 -2.52e-03  1.44e-02 1.004
## 72939  -2.56e-03  3.99e-03  2.76e-03 -1.09e-03  6.85e-04  8.50e-03 1.003
## 57622   1.63e-02 -1.11e-02 -9.44e-03 -7.51e-04  2.35e-03  3.27e-02 1.003
## 77071  -3.81e-03  1.25e-02 -1.20e-02  8.81e-04  6.37e-03  2.42e-02 1.003
## 121830  2.80e-03  4.43e-03  2.10e-03  8.75e-04  1.42e-04  1.33e-02 1.004
## 90853   3.33e-03 -7.15e-03 -7.75e-03 -1.96e-03  4.93e-04  1.64e-02 1.003
## 82730  -4.20e-04 -1.08e-03  1.26e-03  3.57e-04 -5.98e-04  3.16e-03 1.003
## 43492  -4.28e-03  3.65e-03  2.17e-03 -1.91e-03  1.50e-03  1.12e-02 1.004
## 33060   9.34e-03 -4.97e-03  5.07e-03 -1.89e-03  6.06e-04  1.53e-02 1.003
## 128530 -4.26e-03 -7.60e-04 -8.77e-03  4.05e-03  5.71e-04  2.03e-02 1.003
## 125579 -9.30e-04 -8.90e-03  5.42e-03 -4.91e-03 -8.58e-05  2.02e-02 1.005
## 42090   7.79e-03 -1.78e-02  9.83e-03 -3.94e-04 -1.54e-02  3.18e-02 1.003
## 54245  -6.86e-04 -5.47e-03  3.69e-03 -1.54e-03 -1.09e-05  1.17e-02 1.004
## 82379   1.82e-02  1.45e-02 -2.06e-02 -2.06e-04  4.74e-03  5.54e-02 1.002
## 859     4.88e-03  1.18e-02 -1.27e-02  1.11e-02  1.15e-02  3.99e-02 1.005
## 99882  -5.69e-04  9.15e-03  7.02e-03 -7.89e-03 -3.17e-02  4.12e-02 1.004
## 102398 -6.10e-03  7.40e-03  3.27e-03  4.41e-03  3.83e-03  2.57e-02 1.003
## 10035   9.56e-07  2.99e-05  1.52e-05 -2.34e-05 -6.19e-06  1.18e-04 1.005
## 42285   6.12e-03 -6.93e-03  4.68e-03 -2.47e-03 -1.98e-05  1.63e-02 1.004
## 15861  -3.96e-03 -2.14e-03 -1.68e-02  2.73e-03 -6.24e-03  3.24e-02 1.002
## 115999  6.36e-04 -4.31e-03 -6.96e-03  7.60e-03  9.28e-04  1.65e-02 1.003
## 124647 -3.48e-03  4.83e-03  3.79e-03  1.43e-03  9.05e-04  1.40e-02 1.004
## 16360  -6.60e-03  6.45e-03  4.71e-03 -1.96e-03  3.22e-03  2.01e-02 1.004
## 79415  -1.86e-03 -2.71e-04  1.48e-03 -2.31e-03  2.66e-04  4.92e-03 1.004
## 81615   6.60e-03  1.33e-02 -1.70e-02 -9.11e-04 -4.16e-04  2.95e-02 1.003
## 69472  -6.78e-04 -1.71e-03  1.13e-03  3.62e-05 -5.31e-04  3.03e-03 1.004
## 59956  -2.88e-02 -2.89e-02  3.74e-02  1.57e-02 -1.93e-04 -7.29e-02 0.997
## 119506 -6.44e-03 -1.15e-03  3.30e-03 -4.31e-04  1.10e-03  9.25e-03 1.004
## 38694   7.94e-04  1.25e-02  1.03e-02 -4.33e-04  3.59e-02  6.15e-02 1.006
## 53546  -3.63e-03  3.96e-03  2.32e-03 -6.66e-04 -5.38e-04  1.11e-02 1.004
## 80855   4.17e-03  3.87e-03  2.89e-03  6.33e-04 -1.80e-04  1.19e-02 1.003
## 84610  -1.31e-02 -3.24e-03  6.04e-03  2.49e-02 -2.05e-02  6.98e-02 1.008
## 44936  -1.58e-03  4.36e-03  3.22e-03 -1.84e-03  8.70e-04  9.11e-03 1.003
## 103825  3.85e-03  6.55e-03  1.77e-03  8.10e-04 -1.56e-02  2.88e-02 1.005
## 58691   7.10e-03 -6.98e-03 -6.03e-03 -2.22e-03 -1.48e-03  1.73e-02 1.004
## 89877  -1.16e-02  7.65e-03  4.84e-03 -9.94e-03 -3.45e-04  2.42e-02 1.004
## 19105   7.26e-04 -5.61e-03 -1.11e-02  3.60e-02 -1.67e-03  4.31e-02 1.011
## 23273   9.27e-05 -2.23e-03  4.10e-03  2.93e-04 -1.92e-04  8.09e-03 1.003
## 116322  1.73e-02 -2.19e-02 -1.81e-02 -1.52e-03 -4.07e-03 -8.41e-02 0.990
## 92194   1.39e-02  1.63e-02 -1.68e-02 -4.89e-04 -2.01e-02 -9.85e-02 0.994
## 36237  -3.78e-03 -3.04e-03  2.97e-03 -4.03e-03  1.95e-04  1.45e-02 1.004
## 76713   1.22e-02 -1.87e-02  1.01e-02  1.27e-03 -2.10e-02  3.70e-02 1.004
## 403    -3.01e-03  1.50e-03  1.02e-02  3.92e-05  2.05e-02  4.32e-02 1.006
## 69127   1.08e-02  6.46e-03  9.70e-03  2.66e-05 -3.45e-02  4.91e-02 1.003
## 38788   3.29e-02  4.42e-02 -3.56e-02  1.20e-02 -1.49e-02 -8.15e-02 0.994
## 91516   5.96e-03 -1.01e-02  8.41e-03  6.75e-04  2.78e-03  1.82e-02 1.003
## 83998  -1.00e-03 -1.66e-03  1.52e-03 -8.75e-04  2.64e-05  4.29e-03 1.004
## 116333 -1.28e-02  2.72e-02  3.01e-02 -1.60e-03 -3.68e-03 -6.60e-02 0.994
## 120884 -2.89e-03  8.81e-03  5.77e-03 -1.80e-03 -1.96e-02  2.96e-02 1.003
## 7467    7.71e-03  6.24e-03  1.48e-03 -6.18e-03 -6.53e-03  3.79e-02 1.006
## 40879   1.31e-03 -7.74e-03  4.95e-03 -2.02e-03  7.01e-04  1.16e-02 1.003
## 25955   1.82e-04  2.05e-03  5.33e-03  3.26e-03  2.24e-03  1.23e-02 1.002
## 9276    7.19e-03 -5.65e-03  1.80e-03  2.35e-04  2.32e-02  3.94e-02 1.012
## 59255   5.81e-03  7.22e-03 -8.49e-03 -1.85e-03 -2.59e-03  1.81e-02 1.004
## 65488  -1.54e-02  1.07e-02  6.55e-03 -1.12e-02 -1.45e-02  5.07e-02 1.005
## 60524  -5.18e-03  6.51e-04  3.61e-03 -1.16e-03  7.86e-04  9.09e-03 1.003
## 15620   8.63e-03 -1.20e-02  7.96e-03 -4.07e-03 -2.62e-03  2.77e-02 1.004
## 107531  1.80e-05 -9.08e-03 -8.63e-03  4.72e-04  3.52e-03  2.18e-02 1.002
## 49648   2.50e-02 -3.71e-02  3.29e-02 -2.28e-03 -2.82e-02 -8.06e-02 0.996
## 46830  -1.19e-02  4.31e-03  5.41e-03 -2.58e-03  2.70e-03  1.85e-02 1.004
## 91100   1.61e-02  1.27e-02 -1.57e-02 -2.95e-03  1.86e-03  3.42e-02 1.003
## 59706   2.86e-04  3.23e-03  9.21e-03 -8.86e-03  3.00e-03  2.74e-02 1.002
## 111331  4.86e-03 -9.90e-03  9.00e-03 -1.81e-03  4.23e-03  1.88e-02 1.003
## 68690   2.80e-03  1.25e-02  1.02e-02 -9.49e-03 -1.78e-02  6.09e-02 1.003
## 120879  1.49e-02  7.17e-03 -2.62e-02  6.13e-03 -1.82e-02  6.94e-02 1.001
## 2363    3.38e-03  9.35e-04  1.25e-05 -4.81e-04  6.34e-04  7.57e-03 1.009
## 36455  -2.16e-02 -2.33e-02  2.53e-02 -1.01e-03  3.86e-03 -7.61e-02 1.002
## 123280 -1.97e-03 -6.71e-03 -5.32e-03 -1.92e-03 -3.28e-03  1.76e-02 1.004
```

```
## 64637  -1.20e-02  4.75e-03 -9.70e-03 -4.71e-03  3.74e-03  2.61e-02 1.003
## 104598 -4.69e-03 -4.89e-03  3.17e-03 -2.04e-04  7.92e-04  9.98e-03 1.004
## 74400   1.30e-02 -1.06e-02 -9.21e-03  2.00e-03  2.36e-03  3.00e-02 1.003
## 99308  -1.68e-03 -3.09e-03  7.14e-03  1.58e-03  4.87e-03  1.45e-02 1.003
## 4068   -1.77e-02 -8.83e-03 -6.74e-03 -4.91e-03  1.18e-02  3.91e-02 1.006
## 17420  -2.97e-03  3.98e-03  2.41e-03 -1.90e-03  1.22e-03  9.90e-03 1.003
## 52922   3.56e-03  4.19e-03  3.09e-03  2.21e-03  9.01e-04  1.10e-02 1.003
## 29037  -3.48e-02  2.21e-02 -1.64e-02  2.64e-03  6.61e-02 -9.86e-02 0.998
## 34209   7.60e-03 -1.80e-02  8.58e-03  1.88e-02 -1.21e-02  4.61e-02 1.006
## 63904   4.54e-03  3.33e-02 -2.06e-02 -3.48e-03  3.58e-02 -7.81e-02 1.000
## 22858  -1.33e-02  2.23e-02 -3.24e-02 -5.46e-03  1.62e-02  7.67e-02 1.003
## 36685   4.49e-02  3.77e-02 -3.39e-02  2.01e-02 -3.78e-02 -1.08e-01 0.997
## 14296  -4.52e-03 -7.50e-03 -1.03e-02  1.86e-02  1.93e-04  3.10e-02 1.005
## 128484  1.88e-02  2.38e-02  2.13e-02 -1.90e-02 -1.80e-02 -8.31e-02 0.996
## 71151  -5.86e-03  4.15e-03  3.21e-03 -3.31e-03  5.06e-04  1.02e-02 1.003
## 77217  -1.36e-02 -8.70e-03  7.92e-03  5.10e-03  8.59e-03  3.50e-02 1.003
## 14023  -1.43e-03  1.55e-03  9.94e-04 -4.47e-05  4.94e-05  5.57e-03 1.005
## 98402   4.51e-03 -7.38e-04  1.25e-03  2.77e-03 -1.65e-03  8.21e-03 1.005
## 32548  -6.22e-03  6.90e-03  4.40e-03 -3.06e-03  1.01e-04  1.88e-02 1.003
## 82495   2.09e-02  9.89e-03  7.34e-03 -7.35e-03 -1.03e-02  4.98e-02 1.004
## 27938  -2.76e-03  2.63e-03  1.88e-03  5.09e-03 -4.45e-05  8.89e-03 1.004
## 61955  -9.60e-03  4.86e-03 -8.07e-03 -3.29e-04 -5.13e-04  1.79e-02 1.004
## 19100   2.09e-02  1.64e-02 -1.84e-02  2.23e-03  1.71e-02  4.98e-02 1.003
## 17916  -2.77e-03  7.84e-04  3.04e-03 -2.75e-03  5.07e-04  1.16e-02 1.004
## 64805   6.96e-03 -1.43e-02 -1.09e-02 -3.75e-03  2.48e-02  5.00e-02 1.002
## 74303   1.14e-02 -4.75e-03 -1.33e-02  3.71e-04  1.46e-02  4.07e-02 1.003
## 123113 -8.47e-03  1.63e-02 -1.45e-02 -3.64e-03  1.36e-02  3.49e-02 1.002
## 117393 -1.84e-03  3.56e-03  2.62e-03  5.51e-04 -6.71e-05  9.81e-03 1.003
## 112981  2.27e-02  1.22e-02  1.71e-02  2.18e-03  2.19e-02 -7.75e-02 1.005
## 31014   3.25e-02 -3.10e-02 -2.44e-02  3.08e-02 -5.97e-03 -7.32e-02 0.992
## 34504   2.71e-04 -1.87e-03  8.53e-04  5.19e-04 -4.30e-04  3.75e-03 1.005
## 124247 -3.99e-03  6.82e-03  4.81e-03  6.81e-03  3.66e-03  2.55e-02 1.004
## 17444  -2.14e-03  3.75e-03 -9.03e-03 -3.44e-03  1.59e-03  1.65e-02 1.003
## 63680   2.43e-02 -2.87e-03 -1.39e-02  9.98e-03  2.33e-03  3.32e-02 1.003
## 9591    3.68e-03  2.66e-03  1.33e-03 -5.96e-04 -1.83e-04  1.16e-02 1.006
## 122802 -5.13e-03 -7.92e-03  7.63e-03  3.24e-04  4.05e-03  1.52e-02 1.003
## 29712  -3.37e-03 -1.57e-02  9.58e-03  1.20e-02 -2.64e-02  3.92e-02 1.005
## 78882  -6.95e-03  1.09e-03 -1.23e-02 -1.96e-03  4.91e-03 -5.53e-02 1.001
## 69363  -2.19e-04  1.16e-02  1.16e-02 -1.01e-02  5.45e-03  4.32e-02 1.002
## 85422  -6.70e-03 -8.40e-03  5.31e-03 -4.78e-03 -2.34e-03  2.07e-02 1.004
## 51038   1.42e-02  6.24e-03  6.52e-03 -1.06e-03  2.42e-03  2.63e-02 1.004
## 82742  -1.32e-04 -1.94e-03  1.11e-03  1.87e-04  4.52e-04  3.97e-03 1.004
## 40533  -4.05e-03  3.29e-03  2.54e-03  2.84e-03  1.08e-03  1.01e-02 1.004
## 91098   1.01e-02 -8.96e-03  5.04e-03 -9.37e-04 -2.39e-04  1.92e-02 1.005
## 26825   3.02e-04 -3.02e-03  2.16e-03 -3.50e-04 -5.64e-04  6.09e-03 1.004
## 83585  -7.54e-03 -1.96e-02 -1.29e-02  1.88e-02  2.42e-02 -7.93e-02 0.997
## 81216   2.18e-03 -1.33e-03  2.13e-03 -1.94e-04 -1.07e-03  6.12e-03 1.004
## 29269   2.58e-02  1.81e-02  3.00e-02  1.61e-02  1.61e-03 -6.97e-02 0.994
## 15474   2.47e-03  1.22e-02  8.66e-03 -9.53e-04 -2.21e-02  5.14e-02 1.003
## 5463   -1.13e-02  3.13e-02  2.25e-02  1.04e-02 -1.98e-02 -9.76e-02 0.998
## 79135   1.14e-02  9.34e-03  3.55e-03 -7.45e-03 -1.61e-02  3.96e-02 1.004
## 72739   1.80e-02 -1.13e-02 -1.10e-02 -8.00e-04  3.56e-03  2.91e-02 1.003
## 54230   8.66e-03  7.72e-03  5.36e-03 -9.18e-04 -1.92e-02  3.53e-02 1.003
## 70279   5.35e-03 -3.03e-02 -1.54e-02  2.71e-03 -2.67e-03 -8.37e-02 0.992
## 49192   1.32e-02  4.69e-02 -1.96e-02  1.89e-02  9.14e-03 -1.14e-01 0.995
## 102863 -9.69e-03 -2.15e-02 -8.97e-03  2.33e-05  2.63e-02 -1.01e-01 0.999
## 21687  -1.35e-02 -7.14e-03 -7.26e-03 -4.33e-03  6.78e-03  2.39e-02 1.003
## 92112   2.42e-03  6.20e-03 -8.41e-03 -2.37e-03 -1.43e-04  1.51e-02 1.004
## 17610  -4.89e-03  4.28e-03  3.17e-03 -2.50e-03  1.10e-03  9.87e-03 1.003
## 41226   1.71e-03 -1.25e-02  7.70e-03 -3.13e-03  5.86e-04  2.13e-02 1.003
## 71817   3.07e-02 -1.79e-02 -1.08e-02  8.71e-03  1.42e-02  4.83e-02 1.003
## 83395   9.42e-04 -4.85e-03 -7.30e-03  4.70e-04 -1.21e-03  1.54e-02 1.003
## 115331 -7.26e-03  1.17e-03  6.91e-03 -3.91e-03  6.09e-03  1.63e-02 1.003
## 38062  -8.76e-03 -6.95e-03 -5.54e-03 -3.29e-03  1.67e-03  1.81e-02 1.004
## 67372  -1.23e-03  1.63e-03  1.12e-03 -7.93e-04 -8.18e-04  4.47e-03 1.004
## 92683  -5.20e-02  2.85e-02 -1.86e-02 -1.24e-02  2.54e-02 -7.71e-02 0.999
## 125185 -6.43e-03 -1.21e-02  1.01e-02 -3.43e-03  3.50e-03  2.50e-02 1.004
## 89018   1.97e-02 -1.65e-02 -1.15e-02  1.38e-02  2.22e-02 -7.78e-02 1.002
## 121755  4.35e-03 -1.50e-02 -1.35e-02  2.63e-03  2.12e-02 -5.85e-02 1.001
## 5171    2.41e-02 -2.97e-02  3.53e-02  1.70e-02  3.48e-02 -1.01e-01 1.000
## 121043 -9.32e-04 -8.28e-03 -6.10e-03 -2.18e-03  1.70e-04  1.69e-02 1.003
## 58143   3.52e-03  1.51e-03  1.29e-03 -2.07e-03  9.96e-04  8.55e-03 1.004
## 4081    6.43e-03  5.31e-03  7.69e-04  1.31e-02 -1.33e-02  3.26e-02 1.006
## 30897   2.01e-03  9.35e-04 -8.27e-03  2.04e-03 -2.04e-03  1.66e-02 1.003
## 119167 -1.57e-02 -2.01e-03 -8.03e-03  9.10e-04  6.97e-03  2.45e-02 1.003
## 23067  -1.84e-03  6.62e-03  3.46e-03  3.30e-04  1.28e-03  1.81e-02 1.003
## 28015   7.43e-03  1.22e-02  3.38e-02 -1.44e-02  3.26e-03 -6.48e-02 0.993
## 77891   2.37e-02 -1.92e-02 -1.79e-02  2.50e-03 -4.43e-02  6.83e-02 1.005
## 23026   1.81e-03 -1.49e-04  6.60e-03  1.06e-02 -1.83e-02  5.14e-02 1.005
## 19683   1.65e-02  2.92e-02  2.49e-02 -6.34e-03  6.14e-02 -8.71e-02 0.999
## 26855  -8.84e-03  6.81e-03  3.17e-03 -3.67e-03  3.49e-04  2.16e-02 1.004
## 69664  -3.35e-02 -1.07e-02  3.65e-02  4.56e-03 -5.42e-03 -7.82e-02 0.997
## 3628   -5.29e-04 -1.41e-03  8.24e-04  4.79e-04 -2.48e-05  3.70e-03 1.006
## 65809   8.25e-04  4.17e-04  7.38e-04  1.14e-03  5.42e-04  4.30e-03 1.004
## 54775   2.67e-03  3.29e-02  3.01e-02 -6.48e-03  6.34e-03 -7.97e-02 0.996
## 68132  -5.40e-04 -6.80e-04 -5.49e-03  2.37e-03  3.71e-04  1.04e-02 1.004
## 90788  -1.23e-02  2.76e-02 -1.83e-02 -6.90e-03  5.04e-03 -7.14e-02 1.002
## 91045  -2.06e-04  3.20e-03 -7.01e-03  8.16e-04 -3.42e-03  1.42e-02 1.004
## 19024   4.63e-04 -4.14e-04  8.99e-04  1.40e-03  5.11e-05  3.54e-03 1.004
## 87044   3.65e-03  5.09e-03  1.91e-03 -1.14e-03  5.18e-03  2.33e-02 1.004
## 80408  -1.25e-03  9.21e-03 -1.29e-02 -1.81e-03  2.35e-03  2.39e-02 1.004
## 37937  -7.03e-03 -1.33e-02  1.03e-02  1.29e-02  5.89e-03  3.63e-02 1.005
## 130531 -1.89e-02  2.70e-02 -1.84e-02 -2.47e-04  6.03e-02 -1.01e-01 0.999
## 1293   -4.45e-05 -8.20e-03 -8.17e-03 -2.36e-03  1.69e-03  2.76e-02 1.005
## 79407  -1.61e-04  2.17e-03 -1.40e-02 -1.07e-02  1.24e-03  3.06e-02 1.003
## 91828  -1.10e-02  2.40e-02 -1.65e-02  8.56e-03  1.67e-02 -8.28e-02 1.001
## 50096  -1.81e-03 -2.03e-03  4.34e-03 -2.34e-03  7.64e-04  8.30e-03 1.003
## 88166   8.58e-03  2.89e-02  2.88e-02 -2.83e-02 -1.29e-02 -8.27e-02 0.999
```

```
## 46956  -2.12e-02  6.96e-03  1.74e-02  2.71e-03  2.20e-02 -5.82e-02 1.004
## 106162  8.20e-03 -1.04e-02  9.32e-03 -2.52e-03  5.76e-03  2.13e-02 1.003
## 96430   1.62e-03  9.18e-03  8.80e-03 -7.83e-03  6.92e-03  2.70e-02 1.002
## 86203  -3.05e-04 -5.66e-03  6.77e-03  8.17e-04  1.72e-03  1.60e-02 1.003
## 68410  -7.75e-03 -5.98e-03  7.70e-03 -2.74e-03  4.33e-03  1.60e-02 1.003
## 37728   2.55e-03 -1.18e-02  8.82e-03 -1.73e-03  4.11e-03  1.92e-02 1.003
## 99339  -1.41e-03 -6.42e-03  4.22e-03 -5.83e-04  1.68e-04  1.04e-02 1.004
## 87486  -3.79e-03  3.91e-03  3.08e-03 -1.33e-03 -1.97e-05  9.47e-03 1.003
## 20714  -7.52e-03  3.47e-03  1.89e-03  2.44e-06  1.05e-03  1.07e-02 1.004
## 117293 -5.25e-04  5.33e-04  6.03e-04  1.14e-03 -8.19e-04  2.75e-03 1.004
## 30503   4.16e-03  4.70e-03  2.86e-03 -2.04e-03  7.87e-04  1.33e-02 1.003
## 28127  -1.76e-03  4.14e-03  6.46e-04 -1.93e-03  2.09e-02  3.17e-02 1.010
## 39299  -3.69e-03  1.35e-02  9.50e-03 -1.24e-02 -2.44e-03  4.39e-02 1.001
## 98268   5.49e-03 -7.96e-03  4.06e-03  3.04e-03  4.83e-04  1.30e-02 1.004
## 32559  -3.65e-03 -6.91e-03  8.10e-03 -4.02e-03  4.28e-03  1.51e-02 1.003
## 36279   2.26e-02 -2.63e-02  1.01e-02  3.43e-02 -1.34e-02  7.43e-02 1.005
## 70385   1.47e-03  1.22e-03  2.93e-03 -2.61e-04  8.28e-04  9.28e-03 1.003
## 17724  -3.59e-03 -1.59e-03  2.88e-03  2.23e-03  7.16e-04  7.75e-03 1.003
## 57839   1.95e-03 -2.06e-03  1.82e-03 -1.10e-03  2.86e-04  6.12e-03 1.004
## 86819  -4.78e-03  3.89e-03  3.07e-03 -1.70e-03  1.35e-05  9.77e-03 1.003
## 74635  -2.64e-03 -2.32e-03 -8.50e-03 -3.65e-03 -2.91e-03  2.14e-02 1.004
## 123641  9.73e-03  1.32e-02  1.15e-02 -5.38e-03 -1.06e-02  5.66e-02 1.001
## 20223   1.83e-02 -1.46e-02 -2.50e-02  3.90e-04  7.01e-03  7.01e-02 1.001
## 93137  -3.63e-02 -1.28e-02 -1.08e-02 -4.16e-03  1.28e-02 -6.93e-02 1.001
## 128752 -5.21e-03  7.15e-03  5.29e-03  2.08e-03  2.74e-03  2.65e-02 1.004
## 46140  -5.33e-03  3.44e-03  1.47e-03  1.82e-02  1.17e-02  3.29e-02 1.007
## 87303  -8.12e-03 -1.21e-02  9.99e-03  2.44e-03  9.67e-03  3.05e-02 1.005
## 118821 -1.78e-03  9.28e-03 -1.22e-02  2.51e-03  8.24e-04  2.11e-02 1.003
## 7982    5.40e-03  5.17e-02 -2.36e-02  3.96e-02 -1.41e-02 -1.45e-01 0.995
## 129403  1.69e-02  1.06e-02  6.59e-03  2.13e-03  3.01e-02  7.60e-02 1.004
## 45711   3.55e-04  3.41e-03  2.69e-03  4.27e-03 -2.01e-04  9.38e-03 1.003
## 75425  -5.54e-03 -2.95e-02  1.62e-02  2.85e-03  1.06e-02  6.98e-02 1.002
## 8039    4.19e-03 -2.20e-02  1.29e-02 -5.09e-03 -1.09e-02  5.78e-02 1.004
## 118607 -6.56e-03 -1.06e-02 -1.03e-02  1.45e-02 -1.35e-02  3.47e-02 1.006
## 17471   7.35e-04  2.50e-04  3.99e-03 -1.04e-04  3.97e-04  8.29e-03 1.003
## 126396 -1.97e-04 -7.75e-04  2.48e-03 -2.52e-03  9.31e-04  9.81e-03 1.004
## 91784   1.44e-03 -1.72e-02 -1.37e-02  6.72e-03 -4.07e-02  5.51e-02 1.004
## 69928  -5.52e-02  3.60e-02  3.28e-02 -1.19e-02  2.66e-03 -1.02e-01 0.996
## 36753   2.35e-03  8.09e-03  1.92e-03 -1.34e-02 -7.56e-03  4.47e-02 1.006
## 88862   1.24e-02 -1.61e-03 -9.11e-03 -6.68e-04 -1.65e-03  2.16e-02 1.003
## 107747  9.32e-03  1.36e-02  2.81e-03  1.33e-04  2.34e-03  7.40e-02 1.004
## 64861   3.83e-02  8.09e-03  8.60e-03  8.07e-03  1.21e-02  4.94e-02 1.005
## 25374  -1.68e-03  3.49e-03  2.75e-03  2.13e-03 -4.09e-04  9.17e-03 1.003
## 130673  2.34e-03  5.77e-03  3.44e-03 -3.52e-03 -1.90e-04  2.00e-02 1.004
## 11489  -2.72e-03  3.23e-03 -3.57e-03 -2.97e-03 -2.52e-03  1.07e-02 1.007
## 67067   1.21e-02  3.84e-03  1.10e-03  2.63e-02 -3.58e-04  3.09e-02 1.008
## 124808 -2.17e-03 -9.24e-03 -8.39e-03 -2.26e-03 -1.01e-03  2.73e-02 1.004
## 59889  -9.17e-03 -1.56e-02  1.04e-02 -5.03e-03 -1.91e-02  3.30e-02 1.004
## 1868    4.57e-03 -1.10e-03  4.22e-03  3.01e-03  4.20e-03  1.82e-02 1.005
## 7205    3.74e-03  6.75e-03  5.75e-03  4.11e-04  6.43e-03  2.80e-02 1.004
## 48326  -3.64e-05  1.20e-03  5.27e-04  4.60e-04  6.44e-04  3.94e-03 1.004
## 41652   1.58e-03 -1.87e-03  2.05e-03 -3.60e-04 -7.31e-04  5.56e-03 1.004
## 26759   1.76e-03  4.48e-03  2.61e-03 -2.70e-03  1.08e-03  1.19e-02 1.003
## 12702  -1.51e-03 -1.01e-02  7.87e-03  2.84e-03  5.78e-03  2.62e-02 1.006
## 90846   2.96e-04 -4.63e-03 -7.28e-03 -2.86e-03  5.84e-04  1.58e-02 1.003
## 12088   1.88e-02 -1.87e-02 -1.60e-02  2.89e-03 -2.55e-02  5.96e-02 1.004
## 51091   2.12e-03  3.31e-03  1.82e-03 -5.54e-03  1.56e-02  3.01e-02 1.006
## 28511  -5.36e-03  1.51e-03 -8.86e-03 -2.84e-03  1.02e-03  1.45e-02 1.003
## 118681 -1.57e-03 -6.69e-03  4.95e-03 -2.01e-03  5.43e-04  1.00e-02 1.003
## 44733   3.92e-02 -3.35e-02 -2.35e-02 -4.25e-03  1.70e-02 -9.56e-02 0.990
## 85670   5.73e-03 -2.36e-02 -2.42e-02 -3.15e-04 -3.02e-02 -7.68e-02 0.996
## 113483  2.82e-02 -1.38e-02 -2.43e-02  4.30e-03 -2.14e-02 -8.47e-02 0.994
## 91630   1.12e-02  7.94e-03  3.16e-03  8.30e-03 -6.81e-03  4.52e-02 1.005
## 92114  -6.01e-03 -7.62e-03  7.70e-03  8.96e-05  5.22e-03  1.65e-02 1.003
## 18794  -1.65e-03 -1.91e-02 -1.55e-02 -2.04e-03 -3.11e-02  6.52e-02 1.003
## 93885   8.14e-05 -1.42e-03  8.74e-04  1.11e-03 -7.09e-04  2.71e-03 1.005
## 71343  -1.95e-03  4.69e-03 -7.23e-03 -1.56e-03  2.48e-04  1.23e-02 1.004
## 48684   1.53e-02  4.27e-03  3.92e-03  1.48e-03 -1.57e-03  2.03e-02 1.004
## 119592 -7.84e-04  2.76e-03  1.30e-03  6.05e-03 -6.81e-04  1.05e-02 1.005
## 70866   8.13e-03 -1.02e-02  3.12e-03 -2.00e-03  2.22e-02  3.71e-02 1.011
## 35597  -7.05e-03 -6.56e-03 -6.14e-03 -2.72e-03  7.57e-04  2.13e-02 1.004
## 12785  -1.02e-04  8.45e-04 -2.35e-04 -5.13e-03  8.43e-04 -7.30e-03 1.010
## 96892   1.89e-02  8.76e-03  2.57e-02  1.25e-03 -6.06e-04 -6.26e-02 0.997
## 50491  -6.95e-03 -9.61e-03  8.56e-03 -3.97e-03  5.06e-03  1.79e-02 1.004
## 18280  -6.55e-03 -7.84e-03 -6.23e-03 -5.87e-03  1.69e-04  1.75e-02 1.003
## 125612  9.11e-03 -2.10e-03 -1.21e-02  9.76e-04  4.48e-03  3.07e-02 1.002
## 117457 -1.38e-03  3.49e-03 -9.61e-03  1.70e-02 -4.84e-04  2.41e-02 1.007
## 22516   1.89e-03  8.55e-03  5.79e-03  3.55e-03 -2.53e-02  3.35e-02 1.003
## 111705 -3.09e-03  2.86e-02 -2.96e-02 -8.60e-03 -2.76e-02  9.13e-02 1.000
## 78871   4.00e-03  1.46e-03  1.47e-03 -1.66e-04 -2.88e-04  7.36e-03 1.004
## 78635   1.02e-02  6.33e-03  3.27e-03 -2.24e-03 -1.95e-03  3.13e-02 1.004
## 7173   -1.40e-03  2.01e-03  8.17e-04 -1.95e-03 -3.96e-04  8.44e-03 1.006
## 80261   3.02e-03  4.32e-03  2.85e-03 -3.07e-03  9.56e-04  1.22e-02 1.003
## 70742  -5.61e-03 -1.17e-02 -9.55e-03 -3.87e-03  1.52e-03  2.51e-02 1.003
## 1906    1.63e-03 -5.49e-03  8.34e-03  1.23e-02  2.46e-02  4.96e-02 1.009
## 16509  -2.89e-03 -3.87e-03  2.67e-03  9.54e-04  1.53e-03  1.06e-02 1.004
## 105380 -2.47e-03 -6.10e-03  4.84e-03 -1.08e-03  9.94e-04  1.05e-02 1.004
## 28266  -8.27e-04 -2.80e-03 -9.22e-03 -5.40e-05  8.44e-04  1.69e-02 1.003
## 124555  9.31e-03 -1.06e-02  6.55e-03  1.30e-02 -3.42e-03  3.44e-02 1.005
## 93297  -2.07e-02 -1.13e-02 -1.19e-02 -1.34e-02  1.76e-02  5.79e-02 1.004
## 113751  5.24e-02  3.03e-02  2.22e-02  1.42e-02 -1.22e-02 -8.40e-02 0.996
## 41330   1.29e-03  3.90e-03  2.22e-03  3.26e-03  6.80e-04  1.05e-02 1.003
## 17565  -1.39e-02 -4.93e-03  2.45e-02 -4.70e-05 -2.89e-02 -8.30e-02 0.999
## 5124   -7.61e-03 -5.47e-03 -5.63e-03 -3.23e-03  2.62e-03  2.58e-02 1.005
## 103667  3.18e-03  1.01e-02 -1.27e-02 -2.12e-03  9.22e-04  2.15e-02 1.003
## 98651  -4.24e-02  3.70e-02 -2.08e-02 -8.60e-05  2.04e-02 -8.61e-02 1.002
## 74072   1.32e-02 -1.34e-02  1.14e-02 -3.63e-03  1.34e-02  3.80e-02 1.004
## 68473  -5.27e-03  6.59e-03 -7.14e-03 -4.73e-03 -9.40e-05  1.49e-02 1.004
```

```
## 5174    1.98e-04  1.12e-03 -3.22e-03  2.08e-04 -1.92e-03  8.91e-03 1.006
## 46277   1.53e-02  3.66e-03  5.19e-03  2.83e-03  1.09e-03  2.22e-02 1.003
## 75816  -9.61e-03 -1.62e-03  5.04e-03 -3.75e-03 -9.90e-03  2.95e-02 1.003
## 19204  -4.56e-02  8.12e-03 -2.06e-02  2.22e-03 -6.41e-03 -8.11e-02 0.995
## 121018 -1.87e-03  6.59e-03 -8.28e-03 -3.54e-03  1.08e-03  1.59e-02 1.004
## 751    -1.71e-03  2.14e-03  1.22e-03 -2.31e-03  1.27e-04  8.40e-03 1.005
## 109497  2.61e-03 -1.23e-02  6.31e-03  8.57e-03 -3.99e-03  2.71e-02 1.005
## 6154   -1.25e-03  6.57e-04 -1.74e-03  6.59e-04 -1.24e-03  5.30e-03 1.006
## 78672   9.51e-03 -7.57e-03 -1.04e-02 -1.27e-03  3.23e-03  2.37e-02 1.002
## 120155  4.44e-03  5.88e-03  2.89e-03  3.26e-03 -1.21e-02  2.28e-02 1.004
## 61946   8.67e-03  1.40e-02  2.00e-02 -1.33e-02  2.82e-02 -6.45e-02 1.001
## 99122   1.21e-02  4.68e-03  2.20e-03  1.66e-02 -1.27e-03  2.81e-02 1.005
## 128354 -3.73e-03 -4.60e-03 -7.18e-03  6.53e-03  1.87e-03  2.39e-02 1.004
## 4082   -3.34e-03  4.87e-02 -3.62e-02  1.05e-02 -1.85e-02 -1.17e-01 0.994
## 11107  -7.57e-03  7.72e-03  4.07e-03 -9.57e-03 -8.66e-04  3.46e-02 1.006
## 116330  1.58e-04 -3.05e-03  1.49e-03 -1.52e-03 -7.64e-05  6.66e-03 1.005
## 26186  -1.95e-03  4.34e-03  2.41e-03 -1.89e-03  1.05e-03  1.11e-02 1.003
## 113663 -1.08e-02 -1.73e-02  8.98e-03  1.85e-02  9.77e-04  4.13e-02 1.004
## 48284  -6.55e-03 -2.56e-03  7.03e-03 -3.77e-03 -1.12e-02  2.56e-02 1.003
## 30281  -8.11e-04  1.43e-02 -2.14e-02  1.84e-03  1.54e-02  4.62e-02 1.004
## 112388  3.77e-03 -9.17e-03 -7.18e-03 -2.92e-03  1.09e-03  1.90e-02 1.003
## 127200 -1.98e-03  1.45e-02  1.18e-02 -5.38e-03  9.20e-03  7.80e-02 1.002
## 98291   1.19e-02 -1.49e-02 -9.76e-03  1.37e-02 -7.30e-03 -6.49e-02 1.001
## 25403   5.59e-03 -6.23e-03  4.21e-03  5.61e-03 -9.43e-04  1.22e-02 1.004
## 84343   4.16e-05 -5.44e-03 -4.43e-03 -1.44e-03 -2.32e-03  1.38e-02 1.004
## 122124  5.33e-03 -8.07e-03  5.99e-03 -6.64e-04  9.25e-04  1.48e-02 1.004
## 114228 -6.53e-04  1.92e-03  1.26e-03 -6.41e-04 -5.30e-04  4.84e-03 1.003
## 48763   3.24e-02 -3.80e-03 -2.09e-02  1.53e-02  1.67e-02 -9.30e-02 0.998
## 78187  -1.13e-03  1.62e-03  9.38e-04 -6.40e-04 -1.49e-06  4.01e-03 1.003
## 4408   -5.20e-03 -3.41e-04  3.92e-03 -1.78e-03  2.85e-03  1.50e-02 1.005
## 10562   7.50e-03  2.18e-02 -3.09e-02 -1.66e-02 -1.05e-02  8.37e-02 1.004
## 114765  7.24e-03  1.04e-02 -1.09e-02 -2.39e-03  1.42e-03  2.34e-02 1.003
## 19732   3.51e-02 -1.80e-02 -1.42e-02  1.30e-02  1.70e-02 -7.31e-02 1.002
## 69832  -3.65e-02 -7.59e-03  3.47e-02 -1.77e-02 -3.51e-03 -6.44e-02 0.996
## 11254  -2.13e-03 -4.31e-03  4.11e-03  1.47e-04  9.08e-04  1.44e-02 1.005
## 69716   2.03e-02 -3.50e-02  3.46e-02  6.87e-03 -1.34e-02 -6.25e-02 0.996
## 103603 -3.84e-02  4.98e-02 -3.32e-02 -1.43e-02 -8.39e-03 -8.25e-02 0.995
## 47589   1.59e-02  5.96e-03  5.61e-03  7.56e-03  4.98e-03  2.40e-02 1.004
## 77388   5.82e-03  9.22e-03  7.76e-03 -5.96e-03  4.48e-04  2.92e-02 1.002
## 108230 -1.16e-02  6.54e-03  5.45e-03 -4.00e-03  3.97e-03  1.73e-02 1.003
## 47335   5.45e-03 -3.26e-02  3.56e-02  4.86e-03 -7.00e-03 -6.92e-02 0.996
## 106879 -1.41e-03 -9.76e-04 -1.14e-02 -4.15e-03  5.87e-04  2.54e-02 1.004
## 58390  -3.31e-03  4.15e-03  1.89e-03 -2.06e-03  1.15e-04  1.17e-02 1.004
## 12964   7.94e-03  1.77e-05  3.45e-03  2.16e-04  9.71e-04  2.10e-02 1.005
## 78604  -6.50e-03 -2.13e-02 -6.25e-03  2.93e-02 -1.49e-02 -1.08e-01 0.998
## 104505  8.87e-03 -7.79e-03  5.76e-03 -1.45e-03  7.98e-05  1.51e-02 1.004
## 74980   1.52e-02  1.25e-02 -1.66e-02  2.26e-03  1.24e-03  3.06e-02 1.003
## 21046   5.63e-03 -7.06e-03 -9.07e-03 -6.23e-03 -5.93e-04  2.42e-02 1.004
## 44274   1.62e-02 -5.68e-03  4.49e-03  5.85e-03 -1.03e-03  1.95e-02 1.005
## 82540   2.21e-03 -1.06e-02  7.83e-03 -1.62e-03  3.84e-03  2.11e-02 1.004
## 117966  2.01e-03  2.38e-04  3.92e-03 -1.24e-03  9.52e-04  9.55e-03 1.003
## 113723 -4.50e-03  2.88e-03  2.24e-03 -3.86e-03 -1.93e-04  1.31e-02 1.004
## 43824  -3.11e-03  6.61e-03 -7.98e-03 -5.00e-03  8.92e-04  1.53e-02 1.004
## 64352  -6.63e-04  3.15e-03  3.98e-03 -2.54e-03  7.36e-04  1.02e-02 1.003
## 76163  -1.79e-03  1.62e-03  8.56e-04 -1.19e-03  4.19e-04  4.41e-03 1.004
## 62385  -1.91e-02  1.30e-02 -1.70e-02 -1.49e-03  2.18e-02 -6.30e-02 1.004
## 122246  6.83e-03  1.72e-02 -2.84e-02  2.10e-02 -1.49e-02  7.30e-02 1.002
## 66512  -1.72e-02  2.88e-02  2.01e-02  4.02e-03 -1.06e-02 -5.99e-02 0.998
## 29328  -2.54e-02  2.39e-02  2.67e-02  7.83e-03  3.71e-02 -7.26e-02 0.999
## 10225   1.60e-03  2.51e-03  9.59e-04 -3.43e-03  7.35e-04  1.39e-02 1.006
## 113736 -5.98e-03  8.07e-03  4.43e-03 -9.32e-03  2.33e-03  2.46e-02 1.004
## 22241   2.38e-03  4.43e-03  2.79e-03 -1.86e-03  9.03e-04  1.08e-02 1.003
## 27744   1.65e-03 -6.23e-03 -9.45e-03 -3.61e-03  7.56e-03  2.40e-02 1.002
## 3513    6.01e-03  4.59e-03  2.50e-03  1.56e-03  2.37e-03  1.98e-02 1.005
## 102764  1.28e-03  2.55e-03  3.22e-03  3.92e-03  9.79e-04  1.07e-02 1.004
## 12791   9.20e-03 -1.14e-02 -1.10e-02 -1.56e-03 -5.65e-03  3.92e-02 1.006
## 3936   -6.91e-03 -8.66e-03  7.51e-03 -4.67e-03  1.03e-02  2.80e-02 1.006
## 72226   2.03e-04  2.11e-02  1.91e-02  6.40e-03 -2.82e-02 -6.35e-02 0.997
## 59976   1.72e-02 -2.21e-02 -1.55e-02  9.27e-03  6.10e-02 -8.37e-02 0.997
## 59975  -3.27e-02 -1.09e-02 -1.18e-02 -1.05e-02  2.61e-02 -6.83e-02 1.003
## 17567  -3.48e-03  3.34e-03  2.36e-03  2.01e-03  2.87e-04  8.33e-03 1.003
## 124764  7.21e-04  3.09e-03  1.25e-03 -1.30e-03  2.30e-03  1.33e-02 1.005
## 90011  -2.88e-03 -7.73e-03 -6.22e-03  2.92e-03 -5.55e-04  1.57e-02 1.003
## 31096  -1.31e-02  4.70e-02 -3.42e-02  5.67e-03 -1.20e-02 -6.80e-02 0.994
## 14344  -1.36e-03 -7.93e-03 -6.98e-03  4.65e-03  8.24e-04  1.66e-02 1.003
## 31233   2.00e-03 -1.54e-03 -1.13e-02  1.03e-02 -1.57e-04  2.65e-02 1.005
## 39310   5.11e-03 -1.41e-02  1.04e-02  5.87e-03  1.32e-02  3.27e-02 1.004
## 48118  -1.02e-02  9.22e-03 -9.77e-03 -3.72e-03  1.12e-03  1.87e-02 1.003
## 101200  1.93e-02  3.37e-02  2.84e-02  1.86e-02 -4.09e-03 -6.99e-02 0.994
## 19851  -4.54e-03  1.04e-02 -1.59e-02 -3.37e-03  2.01e-02  4.23e-02 1.007
## 66106  -1.21e-03 -3.56e-03  2.34e-03  1.84e-02  1.33e-03  2.02e-02 1.012
## 31214   1.54e-03 -1.17e-03  4.30e-03 -3.81e-03  8.79e-04  9.88e-03 1.003
## 128800  6.09e-03 -2.12e-03  4.37e-03 -3.50e-03  1.40e-03  2.34e-02 1.004
## 127150 -8.12e-04  8.62e-03 -1.17e-02 -5.07e-03 -2.41e-04  2.53e-02 1.003
## 38296  -1.36e-02 -5.33e-03 -9.10e-03 -2.05e-03  2.67e-03  2.37e-02 1.003
## 109083  4.75e-03 -4.89e-03 -6.04e-03  1.77e-03 -5.50e-04  1.42e-02 1.004
## 52795   6.11e-03 -8.63e-03  5.81e-03 -1.69e-03 -3.16e-04  1.39e-02 1.004
## 22856   2.86e-02 -2.39e-02 -8.12e-03 -3.06e-02  4.97e-02 -1.04e-01 0.997
## 61722   3.06e-03  1.43e-03  3.07e-03  6.99e-04  6.89e-04  1.05e-02 1.003
## 90758  -1.15e-02  7.11e-03 -1.05e-02 -2.52e-03  3.47e-03  2.56e-02 1.003
## 37464   6.18e-03 -9.22e-03  7.76e-03 -4.72e-03 -1.30e-03  2.40e-02 1.003
## 38283   8.74e-03  9.73e-03 -1.12e-02  3.15e-03  1.14e-03  2.23e-02 1.003
## 125564  1.08e-02 -1.20e-02 -9.23e-03 -1.64e-03  3.75e-05  2.88e-02 1.004
## 3827   -3.95e-03 -1.60e-03 -5.86e-03 -2.00e-03  2.94e-04  1.73e-02 1.006
## 67798  -1.51e-03  1.42e-03  1.03e-03  1.84e-04 -6.41e-04  4.38e-03 1.004
## 80309  -1.45e-03  4.55e-03  3.40e-03 -2.26e-03  1.26e-03  1.04e-02 1.003
## 37096  -4.20e-03 -1.72e-03 -1.68e-02  2.96e-03 -1.83e-02  3.69e-02 1.002
## 52729   5.13e-03 -8.09e-03  4.91e-03 -2.30e-03 -2.32e-03  1.70e-02 1.005
```

```
## 26500  -2.50e-03  3.87e-03  2.03e-03  8.46e-04 -6.34e-05  1.05e-02 1.004
## 124308  1.66e-03 -1.27e-02  9.28e-03 -4.41e-03 -3.67e-03  3.70e-02 1.003
## 98828  -1.04e-02  5.51e-03  1.81e-03 -5.38e-03  1.44e-02  3.65e-02 1.006
## 100077 -2.14e-04  1.37e-03  6.50e-04  7.76e-04 -1.42e-03  4.79e-03 1.004
## 65486  -9.01e-05  2.16e-03  1.33e-03 -1.39e-03 -1.77e-04  5.60e-03 1.003
## 24905   1.21e-02  6.53e-03  6.42e-03 -2.75e-03  3.32e-03  2.28e-02 1.003
## 98293   1.10e-03  2.01e-03  6.22e-03  9.38e-04  2.38e-03  1.67e-02 1.003
## 114550  3.21e-03 -5.89e-03  6.44e-03  5.55e-03  1.75e-03  1.50e-02 1.003
## 51434   8.68e-03  1.88e-02 -1.03e-02 -7.36e-02  8.02e-03 -1.10e-01 1.003
## 77898  -1.94e-04  2.18e-03  1.48e-03 -1.47e-03 -6.99e-04  5.59e-03 1.003
## 15060  -1.23e-03  1.46e-03  6.30e-04  1.66e-04 -4.25e-04  4.84e-03 1.005
## 79215  -6.93e-03  1.26e-02 -1.33e-02 -1.77e-03  3.47e-03  2.35e-02 1.003
##          cook.d      hat inf
## 48574  6.16e-04 0.003527
## 6994   4.57e-06 0.002949
## 42099  5.08e-05 0.002028
## 54113  3.63e-05 0.001995
## 6260   6.75e-05 0.003561
## 85568  1.76e-06 0.002331
## 49547  7.43e-05 0.001951
## 65527  3.68e-04 0.004006
## 28899  1.85e-05 0.001870
## 13842  1.90e-05 0.003169
## 95856  6.92e-06 0.001002
## 130255 5.09e-05 0.001938
## 20295  6.25e-05 0.001409
## 42141  9.16e-05 0.001478
## 52174  7.07e-06 0.001198
## 28016  3.91e-05 0.001609
## 38381  1.08e-05 0.000893
## 4510   3.20e-10 0.003110
## 3918   3.26e-05 0.002989
## 37144  4.43e-04 0.002056
## 128281 7.76e-05 0.002457
## 72615  4.33e-04 0.005811
## 111612 1.84e-05 0.000944
## 27025  1.39e-05 0.001877
## 63117  2.23e-05 0.001335
## 30488  8.29e-05 0.001837
## 27327  5.55e-05 0.001704
## 57130  8.31e-06 0.001230
## 112929 5.77e-05 0.002065
## 123033 3.27e-05 0.001469
## 65263  1.67e-05 0.000892
## 606    3.14e-05 0.002871
## 53160  4.45e-05 0.002009
## 42987  1.20e-04 0.002577
## 43524  4.01e-05 0.014518   *
## 109956 1.01e-05 0.001721
## 50446  1.73e-06 0.001047
## 56958  9.84e-06 0.000953
## 122818 1.45e-04 0.002215
## 62942  3.75e-04 0.001133
## 207    1.58e-05 0.003020
## 118813 1.32e-05 0.001231
## 13692  1.44e-04 0.004392
## 41820  3.30e-05 0.001548
## 100701 2.49e-04 0.002776
## 12085  1.10e-04 0.006999   *
## 49436  4.34e-05 0.001014
## 103012 6.34e-05 0.001472
## 98189  9.38e-04 0.003185
## 85147  7.58e-06 0.001084
## 27801  2.89e-04 0.002437
## 283    1.21e-06 0.002805
## 98878  1.77e-05 0.001382
## 128462 4.37e-05 0.001377
## 79974  7.18e-06 0.002184
## 126862 2.96e-04 0.002551
## 83651  3.81e-06 0.001323
## 106069 6.74e-05 0.001466
## 119256 7.82e-05 0.001915
## 111684 2.43e-05 0.001229
## 75364  2.71e-05 0.002333
## 5187   5.22e-05 0.003797
## 27426  7.87e-06 0.000826
## 73911  1.56e-05 0.001588
## 73861  5.31e-05 0.001577
## 58140  5.56e-06 0.000646
## 109689 7.07e-04 0.002062
## 110640 4.84e-04 0.002056
## 126757 9.99e-05 0.003005
## 72012  6.74e-05 0.001612
## 59657  1.31e-06 0.002975
## 16590  1.23e-04 0.003738
## 75575  5.07e-05 0.002130
## 116461 9.84e-05 0.001438
## 111176 1.49e-06 0.002940
## 107305 5.15e-06 0.000660
## 37989  2.26e-05 0.001541
## 87981  3.51e-05 0.001805
## 90186  6.35e-04 0.004649
## 75317  8.60e-04 0.007153
## 175    1.67e-04 0.003763
## 14148  9.45e-06 0.001016
## 78623  1.93e-04 0.002103
## 1162   4.80e-05 0.002601
## 92461  3.65e-05 0.001672
```

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## 16827  1.47e-04 0.002229
## 123755 1.99e-04 0.002712
## 123196 6.37e-04 0.002075
## 4075   1.06e-04 0.003481
## 3054   2.51e-05 0.003050
## 16866  2.69e-05 0.001211
## 108765 3.49e-05 0.001970
## 48946  8.16e-04 0.002939
## 83358  3.56e-04 0.002713
## 46672  3.02e-05 0.000773
## 37661  3.37e-05 0.002059
## 93750  3.15e-04 0.000909
## 123373 5.59e-04 0.001822
## 8802   1.30e-05 0.009727   *
## 112896 1.35e-04 0.003728
## 109139 2.16e-06 0.000996
## 123239 2.34e-04 0.002866
## 114732 9.16e-04 0.003927
## 80733  9.27e-05 0.002388
## 10001  6.24e-07 0.002563
## 11365  8.95e-04 0.003190
## 32320  1.30e-05 0.001455
## 113390 3.03e-05 0.001398
## 111942 1.48e-04 0.001958
## 1606   1.16e-03 0.003209
## 96198  7.34e-06 0.001215
## 38985  3.36e-05 0.001246
## 76617  6.03e-04 0.003070
## 53668  3.69e-04 0.003145
## 65241  6.62e-07 0.001755
## 83037  2.36e-04 0.000838
## 89897  2.08e-05 0.001215
## 3549   1.50e-04 0.005097
## 83688  7.31e-05 0.001839
## 39079  5.28e-04 0.003051
## 33730  1.25e-04 0.002800
## 13361  1.80e-07 0.003111
## 66326  9.62e-07 0.001249
## 72913  3.77e-04 0.001125
## 47123  6.18e-05 0.001751
## 96621  1.14e-05 0.000980
## 52977  4.08e-05 0.002483
## 113650 3.37e-05 0.001652
## 31499  2.58e-05 0.004091
## 68939  4.41e-04 0.003095
## 30011  2.23e-04 0.000815
## 81019  3.57e-04 0.000928   *
## 20318  2.77e-05 0.001610
## 96795  1.40e-05 0.002057
## 40229  6.74e-04 0.002314
## 45052  3.76e-05 0.001733
## 14467  1.37e-05 0.001061
## 97809  5.14e-04 0.004224
## 110762 1.11e-05 0.001325
## 52719  2.06e-05 0.001850
## 39990  2.12e-05 0.000987
## 77146  1.34e-03 0.003699
## 62813  6.90e-07 0.002800
## 16373  1.07e-05 0.001520
## 104753 8.03e-06 0.001270
## 24044  1.79e-05 0.000987
## 38342  3.20e-04 0.000968
## 42769  2.09e-04 0.002248
## 38974  8.97e-05 0.002310
## 29191  3.68e-04 0.000903   *
## 84723  7.70e-08 0.003012
## 96432  2.59e-04 0.000805
## 47543  5.30e-04 0.002242
## 1415   7.05e-05 0.002906
## 11483  4.47e-06 0.002868
## 49684  3.92e-04 0.001424
## 111532 5.03e-04 0.002423
## 10848  2.82e-06 0.009689   *
## 27352  1.68e-05 0.000799
## 103480 7.12e-05 0.001633
## 51510  7.05e-05 0.001532
## 22489  3.79e-05 0.002251
## 105839 9.48e-05 0.003033
## 51019  7.12e-05 0.001879
## 29649  3.72e-05 0.002337
## 6352   1.88e-06 0.006656   *
## 105333 1.02e-05 0.001233
## 76715  3.38e-05 0.002251
## 68225  1.87e-05 0.000853
## 25706  7.03e-06 0.001646
## 102396 6.84e-06 0.001264
## 55218  3.11e-05 0.001289
## 53022  7.84e-04 0.002445
## 119214 4.34e-04 0.001125   *
## 60460  2.85e-04 0.002065
## 53249  6.39e-04 0.002496
## 45114  3.96e-05 0.001907
## 72724  2.07e-04 0.001910
## 42881  3.39e-05 0.002294
## 101577 2.43e-04 0.002920
## 389    4.82e-05 0.002797
## 121090 9.12e-04 0.003671
## 22577  3.08e-04 0.001948
```

```
## 35305  2.40e-06 0.001961
## 5065   6.68e-05 0.003985
## 119056 8.03e-04 0.002630
## 109020 6.36e-04 0.004258
## 126236 1.32e-05 0.002583
## 66009  5.76e-04 0.001901
## 93948  9.29e-05 0.003520
## 85762  3.71e-04 0.001219
## 79786  2.47e-05 0.001425
## 111969 5.53e-05 0.001832
## 58561  1.30e-06 0.001216
## 70678  3.27e-04 0.000956
## 36451  6.76e-04 0.006330
## 71567  1.75e-05 0.001487
## 99915  2.07e-05 0.000889
## 29806  2.63e-05 0.001212
## 101891 7.91e-05 0.001904
## 99112  6.63e-05 0.002284
## 68632  6.93e-05 0.002411
## 1856   2.48e-05 0.003508
## 14630  9.71e-05 0.002847
## 77963  9.67e-05 0.002055
## 109365 1.11e-04 0.002170
## 92568  3.08e-05 0.000826
## 85480  8.75e-06 0.000948
## 58367  5.65e-05 0.002228
## 107743 3.10e-04 0.002946
## 54004  1.41e-05 0.002104
## 4566   1.12e-04 0.004790
## 78682  2.98e-05 0.001508
## 127491 8.36e-05 0.001863
## 74365  1.10e-05 0.001467
## 41703  6.06e-06 0.002689
## 103092 3.10e-04 0.002824
## 1443   1.57e-03 0.003802
## 67852  6.69e-06 0.000763
## 90068  2.32e-06 0.002685
## 36058  7.71e-06 0.001316
## 110761 5.01e-04 0.001748
## 94839  2.46e-05 0.001061
## 55589  6.17e-04 0.001804
## 3932   4.89e-05 0.004085
## 23800  1.44e-04 0.005510
## 106669 1.51e-04 0.002596
## 9595   6.03e-05 0.002779
## 7547   1.23e-04 0.003500
## 123005 2.40e-05 0.001130
## 49881  3.41e-05 0.001094
## 39591  2.82e-04 0.002857
## 52070  1.21e-05 0.001372
## 31339  8.16e-05 0.001838
## 59815  1.23e-05 0.001624
## 23082  2.66e-05 0.001565
## 78767  4.27e-04 0.006230
## 49457  1.55e-05 0.002102
## 41455  6.39e-05 0.001978
## 104866 3.58e-04 0.000893   *
## 92868  4.87e-04 0.001805
## 86685  4.85e-05 0.001871
## 78104  5.03e-04 0.001655
## 78764  1.45e-04 0.001575
## 29885  5.60e-06 0.001987
## 66532  5.76e-06 0.000761
## 127284 4.81e-05 0.001449
## 110186 5.24e-06 0.002755
## 95651  2.55e-05 0.001313
## 25270  5.77e-04 0.002050
## 487    2.36e-05 0.002501
## 79883  2.66e-04 0.003534
## 62417  1.26e-05 0.001388
## 107406 6.09e-04 0.001571
## 76996  6.69e-05 0.001507
## 44770  2.45e-04 0.004937
## 44407  2.63e-04 0.002907
## 124404 8.06e-04 0.002657
## 76971  4.77e-05 0.001679
## 40914  1.39e-05 0.001523
## 2428   4.75e-07 0.002936
## 51074  5.40e-04 0.002198
## 100033 7.18e-05 0.001521
## 26867  2.94e-05 0.002288
## 26900  3.28e-05 0.001504
## 125208 4.99e-05 0.001996
## 33882  3.34e-05 0.001878
## 58102  8.24e-06 0.001128
## 55312  1.33e-05 0.001673
## 103281 3.09e-05 0.002653
## 20967  2.25e-05 0.000935
## 65416  1.89e-05 0.001657
## 43513  6.44e-04 0.001689
## 11826  4.52e-08 0.002866
## 30678  3.84e-04 0.000960   *
## 109309 6.65e-04 0.006148
## 107469 1.12e-05 0.001748
## 66368  4.50e-04 0.001380
## 55059  2.65e-05 0.001305
## 88408  4.09e-04 0.001979
## 57405  9.85e-06 0.000972
```

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## 109150 1.56e-05 0.000674
## 33037  4.30e-04 0.003145
## 96734  8.86e-06 0.002373
## 100421 3.47e-05 0.002105
## 39608  9.10e-05 0.001475
## 58551  1.21e-06 0.001628
## 117815 1.43e-03 0.010809   *
## 113202 4.74e-04 0.001213   *
## 72458  1.10e-05 0.001694
## 44838  1.13e-06 0.001482
## 75388  2.04e-05 0.001909
## 81669  1.03e-06 0.001842
## 76826  1.42e-04 0.003242
## 71588  6.68e-04 0.003398
## 120604 5.21e-04 0.003799
## 49065  2.69e-04 0.000806
## 1957   3.57e-05 0.003309
## 68124  3.47e-05 0.001558
## 9891   2.04e-04 0.003134
## 4646   1.34e-03 0.003485
## 45663  5.67e-05 0.002319
## 7790   4.37e-05 0.003845
## 112252 1.26e-05 0.001797
## 34945  4.69e-06 0.002325
## 17475  3.36e-04 0.001045
## 94084  2.53e-03 0.006516   *
## 72569  5.02e-04 0.001396
## 15859  2.42e-05 0.001806
## 124435 1.47e-03 0.005758
## 74965  9.77e-05 0.002057
## 77011  2.86e-05 0.001465
## 9524   3.75e-05 0.004440
## 80384  4.68e-05 0.001065
## 12975  2.15e-05 0.002986
## 102244 2.41e-05 0.001028
## 61376  3.59e-05 0.001498
## 110550 5.86e-05 0.001231
## 55954  2.67e-06 0.001690
## 9644   1.83e-05 0.002730
## 61761  5.48e-05 0.001531
## 60266  6.07e-05 0.001999
## 44370  8.05e-04 0.001865   *
## 99011  3.34e-05 0.001597
## 39136  2.25e-05 0.001230
## 23080  2.08e-05 0.000894
## 24345  8.71e-05 0.002710
## 130220 9.13e-05 0.002802
## 43562  2.71e-05 0.001495
## 102683 1.20e-04 0.002079
## 116085 2.48e-05 0.001501
## 71031  3.42e-05 0.003616
## 26969  6.81e-06 0.000765
## 41870  8.16e-07 0.001117
## 75270  4.43e-05 0.001688
## 127781 2.55e-04 0.003704
## 42755  1.04e-04 0.001844
## 125732 1.20e-04 0.004978
## 65855  2.29e-05 0.001911
## 5922   1.06e-04 0.002984
## 46102  3.44e-05 0.001616
## 15781  8.07e-05 0.002201
## 77561  5.69e-06 0.001166
## 104815 2.10e-05 0.001115
## 9621   9.04e-05 0.003158
## 71998  9.31e-06 0.001431
## 120052 9.58e-04 0.002257   *
## 58113  1.64e-05 0.001645
## 37091  7.01e-04 0.002157
## 11970  1.92e-04 0.005083
## 34641  4.83e-05 0.001318
## 65512  5.54e-07 0.001611
## 79353  2.76e-05 0.001357
## 25603  1.45e-03 0.004409
## 83997  2.72e-05 0.001239
## 101586 9.74e-06 0.001483
## 69535  3.31e-04 0.004008
## 62018  3.40e-05 0.001683
## 46349  3.32e-05 0.002239
## 22931  6.51e-04 0.003329
## 5489   8.91e-05 0.003486
## 73890  1.71e-04 0.002254
## 127087 1.15e-03 0.002738
## 114606 9.73e-04 0.004255
## 87974  4.09e-04 0.001011   *
## 92733  2.96e-04 0.000923
## 60153  6.48e-04 0.004348
## 40353  5.12e-05 0.001943
## 57443  2.47e-06 0.002261
## 128838 6.95e-05 0.002026
## 81122  1.28e-05 0.001533
## 116289 2.62e-05 0.001483
## 41362  1.08e-04 0.001642
## 81415  1.61e-04 0.002357
## 105220 2.71e-05 0.001148
## 114233 5.50e-05 0.001302
## 122444 2.92e-04 0.001314
## 106349 4.18e-05 0.001220
## 63860  4.08e-04 0.001228
```

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## 68123  7.13e-05 0.002919
## 91248  1.92e-05 0.002005
## 90256  6.07e-04 0.002206
## 106274 1.35e-05 0.001525
## 102929 1.08e-05 0.001438
## 61630  2.60e-04 0.002097
## 71114  3.39e-04 0.002635
## 60837  1.65e-04 0.002900
## 43487  2.35e-05 0.001749
## 113842 5.83e-05 0.001809
## 87007  4.89e-04 0.002749
## 22678  1.14e-04 0.002118
## 121003 2.59e-04 0.004438
## 89875  1.80e-05 0.001426
## 123955 5.14e-06 0.002333
## 85     5.24e-06 0.002868
## 115173 4.80e-04 0.004450
## 10308  5.87e-05 0.002917
## 84843  2.06e-05 0.001069
## 86973  1.62e-05 0.002278
## 4220   1.70e-04 0.003980
## 90775  4.31e-04 0.001550
## 64057  1.50e-04 0.001905
## 27413  1.10e-05 0.002139
## 116520 2.07e-04 0.002911
## 30180  2.08e-05 0.000919
## 26756  6.29e-06 0.001307
## 36538  8.11e-05 0.002400
## 19688  3.04e-05 0.001812
## 5355   1.91e-04 0.004613
## 35784  1.58e-05 0.000775
## 56651  2.41e-05 0.001440
## 69218  1.92e-04 0.003040
## 87861  4.12e-05 0.001139
## 10328  1.60e-04 0.004031
## 94655  8.02e-06 0.000729
## 118318 8.39e-07 0.002645
## 68313  2.18e-05 0.001000
## 15659  1.12e-05 0.001115
## 50733  6.30e-05 0.001457
## 54302  4.41e-04 0.002988
## 86596  4.13e-04 0.001552
## 11740  5.12e-06 0.002480
## 124138 4.58e-04 0.002306
## 57099  2.79e-05 0.001065
## 80112  5.58e-04 0.001698
## 71044  4.01e-04 0.002239
## 87100  1.49e-05 0.001664
## 13939  7.84e-08 0.003171
## 94201  9.98e-06 0.001151
## 126291 8.55e-05 0.001754
## 76758  5.89e-05 0.001622
## 69395  1.15e-06 0.001547
## 105870 6.59e-06 0.001128
## 78218  7.15e-04 0.001787   *
## 68595  6.91e-04 0.002313
## 74406  4.27e-04 0.001227
## 89776  3.61e-07 0.001776
## 22869  5.59e-04 0.001966
## 25840  3.15e-05 0.003235
## 8244   1.66e-05 0.003535
## 14192  7.97e-05 0.001400
## 62734  2.24e-06 0.001554
## 44404  2.50e-04 0.002047
## 31720  3.62e-05 0.001541
## 62191  4.59e-04 0.000987   *
## 97640  8.48e-06 0.001469
## 52192  1.46e-04 0.002072
## 66133  2.48e-04 0.002234
## 82887  3.82e-04 0.001672
## 21197  3.35e-04 0.003629
## 34510  9.60e-04 0.004152
## 89971  7.41e-04 0.006826
## 90059  6.15e-04 0.003648
## 104901 4.71e-05 0.002674
## 72737  1.30e-04 0.002954
## 99647  2.58e-04 0.002496
## 5535   1.95e-04 0.003992
## 38768  4.98e-04 0.002270
## 91778  3.26e-04 0.086198   *
## 90845  2.87e-05 0.001156
## 103589 6.01e-05 0.001263
## 128922 1.73e-04 0.003202
## 100004 9.54e-06 0.000929
## 53998  7.78e-05 0.001880
## 34250  7.05e-05 0.002840
## 24398  2.62e-04 0.000806
## 97739  2.52e-05 0.002242
## 105196 3.85e-04 0.001405
## 88620  9.69e-06 0.001783
## 21703  5.40e-06 0.001762
## 97439  7.41e-04 0.001633   *
## 86184  1.06e-03 0.003918
## 33172  1.35e-05 0.001385
## 36728  5.75e-04 0.004218
## 39788  3.47e-04 0.002901
## 73258  1.36e-04 0.001914
## 127046 5.42e-05 0.001753
```

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## 56021  9.90e-05 0.001526
## 77024  4.66e-04 0.005000
## 7003   8.73e-04 0.005047
## 59383  1.92e-05 0.000893
## 107873 7.23e-06 0.000986
## 79559  2.19e-05 0.001192
## 51217  1.00e-05 0.001388
## 52167  1.87e-06 0.001173
## 6915   1.45e-05 0.003292
## 119999 2.33e-04 0.000726
## 78079  1.84e-04 0.006393   *
## 47412  2.50e-05 0.001164
## 68465  5.15e-04 0.002443
## 66852  1.47e-05 0.001092
## 116444 3.72e-05 0.001908
## 101196 1.11e-03 0.003491
## 20815  2.74e-04 0.002968
## 53411  5.99e-04 0.001929
## 20971  1.66e-05 0.004302
## 108079 2.81e-05 0.001504
## 35933  8.09e-06 0.001304
## 73968  1.81e-04 0.004019
## 13849  5.28e-04 0.004823
## 30439  1.88e-05 0.000845
## 634    2.73e-04 0.003496
## 78797  4.43e-04 0.001742
## 30462  6.95e-04 0.001731   *
## 24504  1.65e-04 0.002502
## 25158  6.88e-06 0.001056
## 107926 7.57e-05 0.002318
## 16762  5.50e-04 0.003184
## 55642  8.89e-05 0.002959
## 91615  2.51e-05 0.001036
## 108824 1.59e-05 0.000863
## 20869  3.66e-04 0.002347
## 110523 4.95e-04 0.001864
## 116469 1.02e-05 0.001175
## 96494  1.50e-04 0.002444
## 93213  7.09e-05 0.001573
## 50060  8.22e-06 0.001438
## 66096  1.84e-04 0.004106
## 35335  1.95e-05 0.001666
## 49029  2.51e-06 0.001253
## 98033  7.58e-06 0.001290
## 1793   2.33e-05 0.002970
## 72976  1.16e-03 0.002377   *
## 112676 5.13e-05 0.001181
## 49680  5.05e-04 0.002088
## 96923  1.35e-05 0.001794
## 85905  7.82e-06 0.002068
## 76467  1.19e-05 0.001794
## 123304 4.43e-05 0.002530
## 99343  1.00e-05 0.001091
## 17200  7.62e-04 0.004013
## 103617 2.40e-05 0.002448
## 115364 3.55e-04 0.001933
## 126335 7.92e-05 0.002080
## 45776  5.12e-06 0.000674
## 68160  5.31e-04 0.001275   *
## 117836 6.28e-04 0.001868
## 6120   1.27e-04 0.005961   *
## 86283  1.18e-05 0.000978
## 68589  8.13e-05 0.002344
## 66331  3.48e-05 0.000883
## 54626  4.17e-04 0.003595
## 54756  9.41e-05 0.002491
## 58985  6.62e-05 0.001036
## 88824  3.94e-04 0.003286
## 37581  1.24e-05 0.001363
## 31128  1.25e-05 0.001610
## 45148  2.95e-05 0.002248
## 82837  5.46e-08 0.003818
## 127095 5.48e-04 0.004129
## 62190  9.16e-06 0.001577
## 41800  1.00e-03 0.002141   *
## 48343  2.40e-06 0.001051
## 94369  9.09e-07 0.001671
## 15343  1.25e-04 0.003272
## 40105  2.40e-05 0.000896
## 18462  3.86e-05 0.001095
## 97451  3.08e-04 0.000890
## 98707  8.75e-05 0.001253
## 126724 3.06e-05 0.002150
## 33981  5.66e-05 0.001619
## 69459  9.10e-06 0.001570
## 94734  3.16e-04 0.000931
## 42380  9.02e-06 0.002221
## 120313 5.73e-04 0.001367   *
## 24547  1.25e-03 0.020027   *
## 45640  1.96e-04 0.002014
## 42097  1.66e-04 0.002490
## 44018  3.44e-05 0.002768
## 51838  5.61e-04 0.002697
## 87670  2.36e-05 0.002578
## 36218  1.89e-05 0.001132
## 72180  6.73e-04 0.003569
## 111962 1.78e-05 0.000944
## 61526  6.81e-04 0.002803
```

```
## 120702 7.09e-05 0.001623
## 114740 5.04e-04 0.001306   *
## 40324  1.94e-05 0.001024
## 82902  1.92e-06 0.001083
## 77394  9.74e-05 0.002314
## 77650  1.89e-06 0.001050
## 27592  7.28e-06 0.001079
## 129621 1.82e-05 0.001268
## 127266 4.55e-04 0.004072
## 54460  4.39e-05 0.002618
## 61926  1.90e-04 0.003296
## 20420  6.90e-05 0.002290
## 12602  1.25e-03 0.003169
## 63605  1.02e-05 0.002932
## 75349  1.11e-05 0.001490
## 29594  6.73e-05 0.002523
## 64562  8.66e-05 0.002044
## 101317 3.30e-04 0.002364
## 56496  7.85e-05 0.002566
## 89473  6.05e-05 0.001387
## 54276  2.94e-04 0.003744
## 18074  3.76e-04 0.004471
## 73445  4.28e-05 0.001070
## 67234  5.87e-04 0.005520
## 1195   3.19e-06 0.004365
## 118260 2.18e-05 0.001114
## 68057  7.78e-04 0.002527
## 26746  3.06e-04 0.001070
## 24764  4.87e-04 0.001830
## 102199 2.95e-05 0.002471
## 130058 3.80e-04 0.003335
## 4480   3.78e-06 0.003261
## 90618  8.76e-06 0.001874
## 88670  6.94e-05 0.001937
## 71873  2.95e-05 0.001693
## 1560   7.92e-05 0.003133
## 84209  1.33e-05 0.001380
## 35595  1.08e-05 0.001160
## 125103 2.92e-05 0.002849
## 79316  5.12e-05 0.001213
## 74893  4.53e-06 0.001842
## 86468  2.03e-05 0.001490
## 20931  7.03e-04 0.001646   *
## 875    3.03e-05 0.002925
## 6883   2.68e-05 0.002648
## 85259  6.81e-06 0.001469
## 48776  1.28e-05 0.002260
## 58907  5.83e-04 0.001996
## 96935  1.23e-05 0.001431
## 13727  1.39e-05 0.003588
## 111748 1.06e-06 0.001518
## 85474  1.29e-04 0.002674
## 119033 3.00e-05 0.001228
## 71820  1.35e-04 0.001940
## 2246   6.13e-05 0.004164
## 20883  1.44e-06 0.001493
## 16004  4.17e-04 0.001491
## 13269  1.28e-03 0.003550
## 34429  6.79e-05 0.002451
## 5267   2.53e-06 0.002715
## 50560  2.13e-04 0.002732
## 68366  1.83e-04 0.004075
## 31724  1.41e-04 0.002313
## 14818  6.01e-04 0.002130
## 25081  1.44e-06 0.001357
## 78605  4.45e-05 0.001041
## 80240  6.35e-06 0.002277
## 79436  2.01e-05 0.001112
## 19844  2.26e-05 0.001721
## 47016  4.77e-04 0.002135
## 36766  7.21e-05 0.003306
## 93480  2.06e-05 0.001165
## 74843  2.48e-05 0.002998
## 38657  4.06e-05 0.001257
## 71780  1.89e-05 0.001008
## 15923  1.73e-06 0.002007
## 64576  7.02e-05 0.002175
## 4846   1.63e-04 0.003292
## 127509 5.33e-04 0.002067
## 122987 2.36e-05 0.001178
## 24146  5.44e-05 0.001461
## 66607  1.32e-04 0.003680
## 6386   7.46e-05 0.005181
## 41708  1.33e-05 0.001320
## 108965 6.73e-05 0.001682
## 97429  1.56e-05 0.001776
## 108826 5.55e-05 0.001524
## 32453  6.48e-06 0.000880
## 99958  2.71e-05 0.001163
## 130538 1.86e-04 0.003270
## 66424  4.75e-05 0.002008
## 19132  1.74e-05 0.001320
## 114328 5.79e-04 0.002993
## 75921  4.75e-04 0.001443
## 91831  4.86e-05 0.002252
## 98094  9.92e-06 0.001462
## 17032  1.05e-04 0.002235
## 119039 3.18e-05 0.001331
```

```
## 31742  7.94e-05 0.001615
## 58178  2.06e-04 0.002778
## 14550  4.91e-04 0.001385
## 11701  1.25e-05 0.003379
## 49832  2.19e-05 0.001378
## 104705 9.51e-06 0.002624
## 73143  1.19e-05 0.002805
## 117332 6.41e-06 0.000985
## 53600  2.62e-05 0.001547
## 42993  4.92e-05 0.001243
## 50567  4.19e-04 0.001241
## 99963  2.06e-04 0.010152   *
## 56663  2.46e-04 0.002807
## 18313  5.35e-04 0.002980
## 111420 4.89e-04 0.005339
## 121943 9.12e-05 0.003180
## 70953  4.12e-04 0.001383
## 95154  2.79e-04 0.002470
## 25985  2.62e-06 0.001323
## 122004 3.81e-04 0.006467   *
## 19475  6.82e-05 0.002389
## 57517  6.66e-05 0.001916
## 13050  6.81e-05 0.003438
## 12245  1.59e-06 0.003452
## 45069  9.77e-06 0.002990
## 91725  3.74e-04 0.003553
## 53047  2.67e-05 0.001763
## 67267  1.82e-06 0.001382
## 83317  6.34e-04 0.002378
## 75864  7.48e-04 0.003502
## 117    2.83e-05 0.003846
## 17510  1.67e-05 0.000760
## 21451  1.33e-04 0.002550
## 124457 3.26e-05 0.002353
## 11352  1.26e-03 0.004269
## 22578  8.08e-07 0.001435
## 122263 2.54e-05 0.001323
## 83229  8.32e-05 0.001164
## 6083   4.64e-05 0.003325
## 91047  3.27e-05 0.001505
## 24289  8.17e-06 0.001553
## 12307  1.03e-04 0.008026   *
## 95394  1.17e-03 0.004329
## 103458 2.86e-05 0.001993
## 66428  4.31e-04 0.001050   *
## 120061 8.18e-04 0.002175
## 2528   1.30e-06 0.003088
## 15404  2.80e-04 0.000999
## 19781  4.81e-05 0.002005
## 100391 7.28e-06 0.000877
## 48542  1.41e-04 0.002052
## 1786   5.04e-05 0.002622
## 35353  1.16e-05 0.001590
## 87779  6.27e-06 0.000920
## 95073  4.32e-05 0.001850
## 21058  2.64e-05 0.001508
## 65036  7.22e-05 0.002360
## 68866  5.45e-04 0.002562
## 34899  2.48e-04 0.003623
## 95371  9.47e-05 0.002436
## 57664  4.97e-05 0.001249
## 62959  3.08e-04 0.000999
## 106630 8.40e-04 0.003142
## 29189  1.20e-05 0.001241
## 66581  1.82e-06 0.001188
## 39549  1.82e-05 0.001116
## 61537  8.08e-04 0.004165
## 518    1.65e-06 0.003525
## 34924  1.24e-04 0.004538
## 66403  9.53e-06 0.002959
## 33813  1.47e-04 0.002271
## 18132  1.08e-04 0.002432
## 121773 2.13e-05 0.000943
## 74645  7.42e-04 0.002753
## 91848  1.46e-06 0.000918
## 30033  4.26e-04 0.002003
## 76215  1.21e-05 0.001613
## 57788  1.23e-03 0.003264
## 111462 2.74e-05 0.001504
## 77029  4.72e-04 0.002051
## 108784 3.50e-04 0.005172
## 20072  3.23e-05 0.002175
## 32780  2.18e-05 0.001179
## 106576 2.29e-05 0.001231
## 34928  1.81e-04 0.002489
## 58653  1.20e-06 0.001372
## 96408  2.92e-05 0.000727
## 44181  3.57e-05 0.001373
## 61446  9.84e-05 0.001507
## 56298  1.12e-05 0.001738
## 84467  5.73e-04 0.002808
## 69749  4.66e-05 0.001170
## 125807 3.08e-04 0.007411   *
## 83435  5.92e-04 0.002125
## 3490   6.83e-04 0.006405
## 56294  1.24e-04 0.002985
## 48828  5.77e-04 0.001700
## 28557  4.85e-04 0.001398
```

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## 57230  8.75e-04 0.002403
## 80852  2.10e-05 0.001315
## 37153  2.13e-05 0.001041
## 122626 6.42e-05 0.001900
## 114391 8.69e-05 0.001819
## 72243  5.01e-04 0.001243   *
## 72701  8.99e-04 0.001995   *
## 39623  7.81e-04 0.004280
## 94578  8.73e-07 0.001165
## 97997  2.85e-06 0.001294
## 35010  3.96e-04 0.001299
## 22165  5.70e-04 0.002014
## 46151  2.76e-04 0.002737
## 1620   1.44e-04 0.005334
## 3585   4.05e-06 0.005562   *
## 37963  1.83e-07 0.044303   *
## 61522  6.03e-04 0.002227
## 28112  1.36e-04 0.003552
## 21949  1.68e-05 0.001074
## 9663   1.09e-03 0.002858
## 6377   1.78e-05 0.004739
## 22641  6.78e-05 0.001548
## 71267  1.49e-06 0.001508
## 86954  8.09e-05 0.002753
## 119908 3.87e-04 0.002607
## 68647  7.68e-05 0.001802
## 2059   1.03e-04 0.005594   *
## 105345 7.83e-05 0.001728
## 31074  1.79e-05 0.002017
## 98619  7.69e-06 0.000814
## 59767  1.42e-04 0.002260
## 128826 4.25e-05 0.002162
## 97597  1.15e-04 0.005778   *
## 7000   1.07e-04 0.005736   *
## 53454  3.97e-05 0.002702
## 88646  4.55e-05 0.001689
## 13545  8.08e-05 0.003436
## 89709  6.06e-04 0.002416
## 77505  5.57e-05 0.002084
## 104775 2.51e-04 0.002843
## 124200 1.17e-04 0.004951
## 5304   1.85e-04 0.004477
## 94507  3.03e-05 0.001548
## 107905 1.71e-06 0.001168
## 7873   1.67e-04 0.004150
## 46752  2.99e-04 0.000772   *
## 127191 1.81e-05 0.001998
## 84267  3.11e-05 0.001676
## 46475  6.10e-04 0.003411
## 1762   5.25e-06 0.003127
## 44785  1.46e-05 0.001815
## 17603  5.66e-04 0.003863
## 82684  6.41e-05 0.002592
## 115091 1.49e-05 0.002077
## 85152  6.03e-05 0.001440
## 99372  4.33e-04 0.002271
## 112138 6.07e-06 0.001015
## 70523  1.18e-03 0.003248
## 53015  1.14e-05 0.001219
## 36690  1.78e-05 0.000795
## 27892  4.02e-04 0.005106
## 25738  6.13e-05 0.002555
## 21054  3.02e-05 0.001242
## 46594  5.90e-05 0.001768
## 5522   5.72e-05 0.008535   *
## 95845  3.53e-04 0.004987
## 128007 8.28e-05 0.003860
## 96988  5.72e-04 0.001341   *
## 100467 6.76e-06 0.001301
## 114894 2.55e-05 0.001325
## 80484  4.22e-04 0.001602
## 125466 4.91e-04 0.004126
## 8285   1.39e-04 0.003918
## 102665 9.15e-06 0.001125
## 111515 6.25e-06 0.000863
## 21504  5.86e-05 0.001322
## 83837  7.03e-06 0.000755
## 24765  4.82e-04 0.004741
## 95721  4.28e-05 0.001174
## 111542 1.14e-04 0.002829
## 93854  7.56e-06 0.000956
## 65493  3.02e-05 0.001273
## 25309  2.70e-04 0.004390
## 63425  4.50e-04 0.003403
## 119828 2.70e-05 0.001246
## 74691  8.58e-06 0.001039
## 29018  5.17e-04 0.002461
## 74823  7.46e-05 0.001634
## 74468  7.65e-04 0.003244
## 7601   1.33e-03 0.003409
## 93549  5.83e-04 0.001784
## 95458  1.32e-04 0.003014
## 128767 1.14e-05 0.001783
## 32898  2.74e-05 0.001058
## 10437  3.08e-06 0.002624
## 991    3.04e-06 0.003507
## 46560  5.88e-04 0.003164
## 7723   4.45e-03 0.010739   *
```

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## 84377  9.98e-06 0.008426   *
## 91169  4.22e-05 0.001685
## 103991 1.27e-04 0.002937
## 45353  1.86e-04 0.001921
## 57979  4.76e-04 0.002434
## 82870  7.82e-05 0.001623
## 115117 4.27e-04 0.001220
## 15173  2.58e-06 0.002277
## 12995  9.61e-05 0.004158
## 59827  8.74e-04 0.008238   *
## 76268  4.20e-06 0.002021
## 69067  2.05e-04 0.003976
## 19728  1.17e-04 0.001837
## 31863  4.80e-05 0.001345
## 18549  2.70e-05 0.001013
## 64668  8.91e-06 0.001236
## 69042  4.56e-04 0.002226
## 102559 2.68e-04 0.002429
## 116948 9.33e-07 0.002627
## 69908  4.92e-05 0.003569
## 109882 3.31e-04 0.001005
## 15109  4.37e-04 0.002550
## 11468  1.02e-04 0.005449   *
## 30849  2.32e-04 0.002412
## 93218  1.18e-05 0.001191
## 127676 1.18e-04 0.004446
## 106336 3.88e-05 0.002008
## 111843 4.47e-04 0.002886
## 18228  4.81e-05 0.002208
## 17768  2.66e-05 0.001190
## 47237  2.71e-04 0.002939
## 114002 1.11e-06 0.000959
## 27579  4.03e-04 0.003633
## 122547 4.71e-04 0.001735
## 10705  9.47e-04 0.002896
## 127894 1.56e-05 0.001464
## 13432  1.92e-05 0.003886
## 3605   5.17e-05 0.003805
## 45087  1.26e-05 0.002103
## 45054  6.20e-04 0.006662
## 23332  9.90e-05 0.002031
## 57478  5.48e-05 0.001248
## 94973  3.22e-05 0.002282
## 23022  8.63e-07 0.001791
## 72282  1.99e-07 0.002123
## 105288 3.26e-04 0.003551
## 2543   6.76e-05 0.003907
## 85233  4.64e-04 0.002685
## 6882   1.99e-05 0.004041
## 129790 1.16e-04 0.003324
## 17122  6.62e-06 0.001659
## 93532  1.20e-05 0.001217
## 70379  1.04e-05 0.001094
## 30258  4.90e-06 0.000760
## 60913  3.77e-04 0.001097
## 56271  1.21e-05 0.001629
## 89884  6.69e-04 0.001679   *
## 99130  2.50e-05 0.001398
## 43900  3.42e-04 0.004530
## 99738  2.97e-05 0.002347
## 71511  5.53e-05 0.001371
## 104940 1.62e-05 0.001705
## 56855  8.28e-04 0.005367
## 79768  6.31e-05 0.001884
## 10977  3.34e-05 0.003318
## 89287  2.67e-05 0.001192
## 119867 5.15e-05 0.001091
## 108813 1.22e-04 0.002536
## 39453  5.13e-04 0.002253
## 69503  2.41e-06 0.001269
## 77116  7.40e-05 0.002063
## 88979  4.03e-04 0.001857
## 99000  1.89e-05 0.001938
## 38484  1.17e-04 0.002581
## 128209 2.20e-05 0.001916
## 20903  2.25e-05 0.001308
## 31398  5.98e-04 0.001635
## 124886 5.25e-05 0.001507
## 83400  2.54e-04 0.002699
## 55670  2.86e-05 0.001343
## 87028  1.16e-04 0.002618
## 36067  5.79e-04 0.001535
## 33369  2.98e-05 0.002092
## 33568  1.39e-04 0.001915
## 103368 4.83e-04 0.004609
## 97000  4.43e-04 0.001935
## 117364 5.16e-04 0.002286
## 21656  3.62e-04 0.001334
## 26064  9.32e-06 0.001745
## 48099  2.71e-04 0.002919
## 120516 1.35e-06 0.005366   *
## 91832  3.22e-04 0.002056
## 7109   1.87e-05 0.002426
## 40970  3.27e-04 0.001173
## 65649  6.04e-05 0.001330
## 41223  7.78e-05 0.002935
## 53578  4.58e-04 0.003038
## 100952 1.88e-05 0.000927
```

```
## 80480  2.46e-05 0.001379
## 61797  5.28e-06 0.002018
## 103907 2.13e-05 0.001821
## 94021  2.99e-05 0.001809
## 2812   5.13e-06 0.002613
## 41523  1.49e-05 0.001720
## 104307 7.91e-05 0.001758
## 119396 4.93e-04 0.002382
## 99430  2.95e-04 0.001405
## 91328  1.28e-05 0.001528
## 31551  4.72e-05 0.001327
## 10644  5.03e-05 0.003615
## 126336 2.20e-05 0.001930
## 29062  2.04e-04 0.001997
## 30080  6.47e-04 0.002704
## 118194 5.23e-04 0.001633
## 61968  4.42e-05 0.001584
## 110042 2.61e-05 0.001351
## 98720  3.56e-05 0.000847
## 2410   1.63e-05 0.004044
## 125618 3.94e-05 0.001441
## 22994  4.64e-05 0.001531
## 39519  1.66e-05 0.000860
## 25762  1.95e-05 0.000920
## 748    1.75e-04 0.004155
## 21669  9.12e-05 0.003605
## 111761 3.82e-04 0.001145
## 46182  7.32e-05 0.002331
## 69039  5.21e-04 0.002452
## 111733 1.15e-05 0.001639
## 9916   5.22e-04 0.043403   *
## 24758  5.36e-04 0.005615
## 112727 5.56e-04 0.001792
## 87922  3.56e-05 0.001348
## 33153  6.96e-04 0.002035
## 129719 1.77e-05 0.002929
## 17517  2.32e-05 0.001034
## 107430 1.25e-04 0.001855
## 129287 5.13e-05 0.002452
## 72042  8.12e-05 0.002867
## 99369  5.07e-04 0.001851
## 76227  1.74e-04 0.002637
## 26803  1.46e-04 0.002456
## 115589 8.30e-05 0.002662
## 34865  4.61e-05 0.001158
## 72342  6.47e-05 0.001481
## 11846  4.69e-04 0.004214
## 111281 2.78e-04 0.002904
## 8831   9.55e-06 0.002834
## 85010  7.28e-05 0.003275
## 102458 3.62e-04 0.004470
## 8045   3.54e-04 0.004642
## 60853  4.14e-04 0.002941
## 30789  4.66e-04 0.002060
## 124070 7.80e-05 0.002467
## 6565   2.73e-07 0.003424
## 69282  1.19e-05 0.001854
## 51622  8.86e-06 0.001136
## 117066 1.81e-05 0.001091
## 72189  4.33e-06 0.001429
## 19303  5.84e-04 0.003482
## 62986  2.01e-04 0.004046
## 100387 2.30e-05 0.001572
## 22366  3.03e-04 0.000919
## 30959  3.21e-05 0.002850
## 26996  4.04e-05 0.001597
## 86255  2.71e-05 0.001167
## 34260  7.58e-04 0.002914
## 49096  5.17e-05 0.001554
## 40305  2.65e-04 0.003434
## 69397  2.64e-05 0.002536
## 63132  4.57e-05 0.002945
## 40605  4.75e-05 0.001208
## 95852  1.30e-05 0.001550
## 75194  6.65e-04 0.003749
## 68743  2.37e-05 0.001188
## 107054 1.81e-04 0.004526
## 120477 7.30e-04 0.001743   *
## 32614  1.03e-04 0.002462
## 34558  5.41e-05 0.001560
## 125883 8.90e-04 0.002069   *
## 13657  1.80e-04 0.003700
## 94273  9.39e-07 0.002342
## 38468  9.02e-06 0.001083
## 14952  2.68e-05 0.001138
## 89172  7.37e-06 0.000840
## 60609  1.21e-04 0.005264
## 32354  1.14e-04 0.002596
## 128788 4.04e-05 0.002324
## 96266  3.58e-04 0.003213
## 5814   8.09e-05 0.006123   *
## 34538  2.41e-04 0.002608
## 54445  2.21e-05 0.001937
## 19652  2.17e-05 0.001101
## 66467  1.20e-05 0.001571
## 83623  4.81e-04 0.003183
## 17227  2.29e-05 0.001248
## 55998  2.49e-05 0.001497
```

```
## 85952  1.62e-05 0.001441
## 128684 5.71e-05 0.001868
## 20207  5.98e-05 0.001251
## 34247  1.14e-03 0.003943
## 50137  1.08e-05 0.001391
## 95790  2.60e-06 0.001265
## 14080  1.21e-03 0.002966
## 17077  3.46e-04 0.001051
## 50513  7.48e-06 0.001266
## 106571 4.77e-04 0.001538
## 67746  1.03e-05 0.003432
## 83979  1.02e-04 0.002046
## 59168  3.45e-04 0.004948
## 82567  2.78e-06 0.001226
## 118444 2.61e-04 0.003188
## 93788  3.50e-05 0.002081
## 66647  5.34e-04 0.001796
## 111294 1.99e-05 0.001308
## 5438   1.78e-05 0.002911
## 72152  3.92e-05 0.001511
## 77727  1.52e-06 0.003184
## 118735 5.48e-04 0.003615
## 28522  4.29e-05 0.001463
## 73734  3.28e-05 0.003234
## 38197  7.10e-06 0.000754
## 95596  2.71e-04 0.000683   *
## 18693  1.75e-05 0.001608
## 75933  4.00e-04 0.002251
## 119029 1.92e-06 0.002429
## 91041  8.62e-06 0.001261
## 111662 9.17e-06 0.001403
## 92963  1.30e-04 0.004292
## 13293  2.62e-03 0.007114   *
## 35786  2.89e-05 0.001280
## 6256   2.72e-05 0.003056
## 9439   2.46e-03 0.005016   *
## 28467  1.89e-04 0.003047
## 114025 5.51e-05 0.002526
## 87226  6.61e-05 0.002544
## 23554  6.36e-05 0.001656
## 56172  4.44e-04 0.003110
## 56065  8.76e-06 0.001988
## 120817 4.56e-04 0.001210   *
## 26217  5.92e-05 0.001869
## 8422   3.33e-05 0.003485
## 87950  5.85e-05 0.001360
## 52221  1.07e-05 0.001378
## 106194 8.02e-05 0.001813
## 12709  8.29e-05 0.003439
## 60818  5.59e-05 0.002252
## 29562  2.07e-05 0.000996
## 32209  1.17e-04 0.002738
## 23967  6.50e-04 0.002340
## 86249  2.23e-05 0.001478
## 27148  1.09e-05 0.001518
## 84172  8.26e-05 0.002149
## 79057  7.07e-04 0.004516
## 120535 4.16e-05 0.002185
## 93084  5.33e-05 0.001857
## 118832 6.08e-04 0.003708
## 50258  3.86e-05 0.001965
## 61987  2.26e-05 0.002892
## 14501  3.52e-05 0.001332
## 34469  7.46e-06 0.002506
## 55360  9.75e-04 0.004441
## 82026  1.04e-04 0.002228
## 45186  1.22e-04 0.002872
## 125901 1.73e-04 0.002761
## 65830  2.12e-05 0.000905
## 82954  2.81e-04 0.003868
## 85922  8.57e-05 0.002986
## 117793 5.46e-04 0.001608
## 30291  3.18e-04 0.002676
## 6597   2.49e-06 0.003087
## 125735 4.93e-05 0.003024
## 25871  1.16e-06 0.000940
## 19282  3.72e-04 0.004418
## 13506  2.61e-05 0.002887
## 70011  3.07e-04 0.003160
## 51775  3.90e-04 0.001449
## 129115 1.39e-04 0.008675   *
## 84767  1.23e-05 0.001683
## 58843  1.84e-06 0.000939
## 59788  9.47e-06 0.001140
## 57794  2.01e-05 0.000844
## 56766  2.00e-04 0.002636
## 70003  3.45e-04 0.007467   *
## 91692  8.45e-06 0.000807
## 14326  3.83e-04 0.001506
## 46163  4.22e-04 0.004185
## 3810   5.03e-05 0.003686
## 20069  1.84e-05 0.001007
## 19529  1.33e-04 0.003586
## 127222 6.62e-04 0.003427
## 103818 1.17e-03 0.030233   *
## 12786  6.35e-06 0.003196
## 86361  1.26e-05 0.002032
## 6249   2.50e-05 0.002804
```

```
## 97011  2.30e-05 0.001959
## 114274 4.91e-04 0.001443
## 5416   1.08e-04 0.007283   *
## 65834  4.29e-05 0.004960
## 75176  1.23e-04 0.001911
## 12202  8.33e-05 0.002800
## 95047  3.43e-04 0.004043
## 110017 7.57e-06 0.001398
## 58882  1.66e-06 0.001403
## 3460   1.02e-03 0.003111
## 121200 1.43e-05 0.001850
## 34308  1.52e-06 0.001432
## 24978  8.34e-05 0.001406
## 18204  5.79e-04 0.004912
## 51950  1.03e-05 0.001486
## 22510  1.80e-05 0.001866
## 74145  1.56e-06 0.002029
## 51394  4.14e-06 0.001915
## 126606 6.28e-05 0.003053
## 87141  1.56e-06 0.001547
## 61663  5.23e-04 0.001897
## 5401   4.59e-06 0.002942
## 55294  3.98e-05 0.001511
## 87499  2.48e-05 0.002132
## 4411   1.25e-04 0.003764
## 53618  4.62e-04 0.001467
## 44815  1.37e-06 0.001643
## 27670  1.19e-04 0.001717
## 64447  1.27e-06 0.001196
## 90832  3.08e-05 0.001094
## 63048  1.40e-05 0.001140
## 75468  2.62e-04 0.001865
## 114155 5.75e-05 0.001241
## 129080 7.25e-04 0.002144
## 21679  2.03e-04 0.001626
## 110471 1.54e-04 0.002917
## 18707  5.46e-05 0.001248
## 116683 3.96e-06 0.001743
## 118988 1.12e-05 0.001342
## 19213  4.94e-05 0.001615
## 73482  2.16e-05 0.001781
## 12692  2.04e-05 0.002697
## 64661  2.88e-05 0.001693
## 23299  1.88e-05 0.001871
## 104394 1.68e-05 0.001714
## 37864  3.14e-05 0.002453
## 106688 1.05e-04 0.002703
## 66335  4.04e-05 0.003428
## 10145  1.23e-03 0.003072
## 51889  6.50e-05 0.001915
## 73578  2.54e-05 0.001579
## 42799  4.93e-04 0.001849
## 92725  3.26e-04 0.001188
## 51120  9.60e-06 0.000896
## 14789  1.92e-05 0.000930
## 92297  1.35e-05 0.002530
## 66104  6.57e-04 0.002844
## 109185 8.64e-04 0.004680
## 95874  2.63e-05 0.001285
## 66356  3.21e-05 0.001483
## 39712  3.16e-04 0.001497
## 71301  9.38e-06 0.000867
## 99765  6.17e-04 0.002784
## 4019   1.86e-04 0.003818
## 82823  9.63e-04 0.003081
## 115431 3.28e-05 0.001523
## 77642  6.77e-06 0.000781
## 43350  2.33e-05 0.001217
## 101969 4.43e-05 0.002118
## 43187  8.02e-04 0.003352
## 43536  6.69e-05 0.003326
## 77114  6.37e-04 0.003093
## 88125  4.37e-05 0.001109
## 18624  3.20e-05 0.002173
## 43661  1.80e-06 0.001494
## 72593  2.87e-04 0.002310
## 2742   7.34e-08 0.003965
## 32760  5.23e-04 0.002237
## 61821  3.14e-04 0.001416
## 97057  1.25e-04 0.001397
## 73792  1.17e-05 0.001841
## 31541  1.42e-05 0.001353
## 113095 7.18e-06 0.000959
## 11902  8.93e-05 0.003150
## 91268  3.68e-05 0.001293
## 104302 7.17e-05 0.002479
## 44103  3.01e-04 0.003582
## 59624  1.23e-04 0.001823
## 100881 2.31e-03 0.005892   *
## 1914   7.81e-05 0.004895
## 104710 2.97e-04 0.002730
## 18247  2.99e-04 0.003592
## 27922  3.07e-04 0.002862
## 2173   1.44e-06 0.002865
## 9013   9.65e-06 0.002793
## 60130  3.40e-04 0.001616
## 117513 5.25e-05 0.002100
## 80988  1.64e-05 0.002586
```

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## 79815  6.21e-05 0.001321
## 50814  2.36e-05 0.001095
## 28941  2.11e-05 0.001329
## 21040  7.14e-06 0.001252
## 69966  2.23e-06 0.001085
## 89650  1.65e-05 0.001652
## 47965  2.78e-05 0.002722
## 45989  7.13e-05 0.001878
## 58913  2.11e-05 0.001005
## 48382  4.66e-04 0.001312
## 21906  3.49e-04 0.003060
## 39893  4.11e-05 0.001615
## 117087 4.06e-05 0.002205
## 36758  6.99e-05 0.002344
## 40987  2.38e-05 0.001370
## 36504  8.28e-06 0.000806
## 39522  2.97e-04 0.003144
## 55771  3.07e-04 0.003382
## 32311  3.52e-04 0.000913   *
## 13882  9.19e-07 0.003312
## 76903  1.27e-04 0.001828
## 30768  2.72e-05 0.001259
## 101918 2.72e-05 0.001375
## 78399  9.19e-05 0.002805
## 27891  3.92e-05 0.001516
## 84302  4.89e-05 0.001107
## 122932 4.84e-05 0.002098
## 1483   3.09e-05 0.004306
## 121844 6.49e-05 0.001433
## 22820  4.46e-04 0.001310
## 93640  6.64e-04 0.002161
## 67499  4.99e-06 0.001912
## 104550 4.02e-04 0.001695
## 32739  6.23e-05 0.001336
## 54561  5.05e-04 0.004092
## 4594   7.06e-05 0.011526   *
## 24323  3.45e-05 0.001601
## 18984  3.69e-05 0.001694
## 87319  1.11e-04 0.001896
## 25085  4.42e-04 0.002115
## 8370   8.07e-05 0.003956
## 20103  9.87e-06 0.000907
## 53537  8.31e-04 0.003069
## 30911  7.26e-04 0.002921
## 73626  6.78e-05 0.001417
## 97518  1.94e-05 0.001604
## 123941 5.77e-05 0.001882
## 105526 4.52e-05 0.002068
## 41547  3.92e-08 0.007257   *
## 96078  6.53e-04 0.001939
## 114395 4.23e-04 0.005269
## 36596  8.19e-04 0.003254
## 108901 5.56e-04 0.004300
## 123112 6.10e-04 0.003324
## 79487  1.08e-04 0.005577   *
## 30290  1.92e-05 0.001074
## 58788  1.04e-06 0.001181
## 33587  3.21e-05 0.001279
## 77218  4.68e-04 0.006208
## 38341  7.68e-05 0.002384
## 108541 1.83e-05 0.001512
## 77431  4.62e-04 0.001459
## 30504  5.37e-05 0.002770
## 83531  3.13e-05 0.001241
## 78873  2.61e-05 0.001308
## 34936  3.62e-04 0.001063
## 60610  5.08e-05 0.001515
## 49529  1.03e-05 0.001679
## 7933   4.33e-05 0.004082
## 120539 1.62e-06 0.002638
## 65763  5.27e-04 0.001633
## 69835  9.95e-04 0.003593
## 104561 8.41e-06 0.000867
## 57738  5.82e-05 0.001575
## 109887 2.55e-04 0.001909
## 116048 1.38e-05 0.001673
## 35809  6.36e-05 0.001999
## 129781 4.54e-04 0.001953
## 75895  8.40e-06 0.002924
## 7413   2.90e-05 0.002673
## 23345  6.91e-04 0.002162
## 9789   7.92e-05 0.003720
## 48658  2.29e-05 0.001303
## 45430  6.27e-05 0.001488
## 128797 3.89e-05 0.002355
## 18720  2.32e-05 0.001197
## 23888  1.23e-04 0.001715
## 57400  1.10e-04 0.001832
## 45338  2.10e-04 0.004953
## 47722  5.13e-04 0.001980
## 114257 4.98e-04 0.005694
## 19335  2.51e-05 0.001345
## 27128  3.71e-05 0.001978
## 107234 5.24e-04 0.002588
## 66699  4.04e-07 0.001925
## 126217 1.45e-04 0.002854
## 102207 3.01e-05 0.001847
## 51747  1.60e-03 0.004503
```

```
## 120652 6.53e-04 0.001564   *
## 9986   5.10e-05 0.004536
## 88589  3.22e-05 0.001636
## 19942  7.41e-06 0.000793
## 117368 2.42e-05 0.001221
## 17648  1.32e-06 0.001179
## 76851  5.59e-04 0.001770
## 14945  3.42e-05 0.001094
## 57065  4.79e-04 0.003344
## 58620  6.84e-05 0.005558   *
## 120488 8.94e-06 0.001602
## 103711 3.98e-05 0.001467
## 11634  1.96e-05 0.002448
## 49429  5.26e-06 0.002138
## 4990   1.04e-11 0.005130   *
## 42022  3.87e-04 0.003079
## 68343  1.57e-04 0.002422
## 114086 2.64e-05 0.001329
## 109361 1.68e-04 0.002771
## 130416 6.61e-05 0.002030
## 11738  9.09e-03 0.018724   *
## 78654  4.32e-05 0.001106
## 5471   5.88e-05 0.003547
## 78487  9.25e-04 0.002907
## 84084  1.92e-05 0.001254
## 60199  8.33e-06 0.001025
## 6323   6.63e-05 0.003919
## 116605 2.88e-05 0.001435
## 62415  2.37e-05 0.002218
## 68116  1.17e-05 0.001401
## 120127 3.17e-05 0.002205
## 20593  3.40e-04 0.001437
## 125776 2.58e-04 0.003609
## 89850  4.83e-04 0.003364
## 28036  4.44e-04 0.002753
## 104272 1.13e-04 0.002358
## 43817  5.77e-05 0.002089
## 3094   3.20e-04 0.003923
## 127656 2.11e-05 0.001993
## 94336  1.70e-05 0.000980
## 119133 2.00e-05 0.001131
## 104737 1.41e-04 0.002800
## 38580  3.08e-05 0.001394
## 115606 4.68e-04 0.001113   *
## 118276 1.22e-05 0.001557
## 58118  2.44e-05 0.001973
## 111855 7.51e-06 0.001266
## 104517 1.80e-05 0.002022
## 64256  7.82e-06 0.001325
## 110218 5.02e-06 0.001988
## 105323 3.59e-04 0.004383
## 82713  1.04e-06 0.000974
## 81857  5.50e-07 0.001164
## 40649  5.34e-04 0.002383
## 42439  6.72e-06 0.000696
## 78618  5.92e-04 0.001460   *
## 58361  5.87e-04 0.001201   *
## 89698  1.15e-05 0.001111
## 99629  2.65e-05 0.002064
## 6601   8.05e-05 0.004948
## 76120  1.63e-05 0.001543
## 78464  2.50e-04 0.005802
## 90646  7.88e-05 0.001591
## 55990  3.02e-05 0.001783
## 102529 1.04e-04 0.003138
## 77338  6.04e-05 0.001569
## 63754  2.63e-05 0.001653
## 4479   6.15e-07 0.004179
## 129051 2.61e-05 0.002748
## 99350  1.89e-05 0.000839
## 13725  6.70e-03 0.013820   *
## 526    1.77e-04 0.006016   *
## 97257  2.83e-06 0.001695
## 19242  1.35e-05 0.002019
## 99969  2.78e-07 0.004952   *
## 107276 4.33e-05 0.001194
## 95772  1.12e-05 0.001178
## 94798  1.74e-06 0.001261
## 108505 1.87e-04 0.002935
## 8007   8.29e-05 0.003520
## 10876  1.10e-03 0.002935
## 87021  1.52e-05 0.001541
## 103554 2.26e-05 0.001002
## 38625  7.31e-05 0.001925
## 22680  2.46e-04 0.002508
## 30452  3.74e-07 0.001552
## 105958 5.91e-04 0.002351
## 102413 7.43e-04 0.004990
## 48295  3.60e-05 0.001628
## 34435  3.72e-04 0.002977
## 23432  1.57e-03 0.005076
## 103705 2.21e-04 0.003696
## 99195  4.15e-04 0.003441
## 101587 4.08e-05 0.000993
## 70529  8.44e-05 0.001270
## 123443 6.75e-06 0.002083
## 127630 1.84e-05 0.001678
## 28341  2.85e-05 0.001228
```

```
## 6923   9.73e-04 0.006059
## 22806  1.50e-04 0.002219
## 72587  1.48e-05 0.001650
## 30395  4.87e-04 0.001655
## 113007 4.34e-05 0.001851
## 96117  5.03e-04 0.001423
## 101251 1.77e-06 0.001681
## 47104  1.97e-05 0.001259
## 81205  5.89e-04 0.002614
## 19773  5.19e-06 0.001060
## 59610  2.08e-04 0.002789
## 112356 2.54e-05 0.001404
## 20118  2.59e-05 0.001539
## 14500  3.24e-05 0.001297
## 46414  5.29e-04 0.001781
## 90232  1.19e-05 0.001052
## 93180  1.50e-05 0.001216
## 122171 4.67e-05 0.001352
## 119211 5.28e-05 0.002259
## 42394  9.32e-06 0.001244
## 17577  9.26e-05 0.001536
## 46835  2.85e-04 0.000860
## 20135  3.12e-04 0.001006
## 18602  2.54e-04 0.000923
## 86048  5.60e-07 0.001347
## 114017 6.58e-06 0.002062
## 129967 1.75e-05 0.002147
## 118876 2.66e-04 0.004465
## 11466  6.11e-05 0.003788
## 17676  5.92e-05 0.001340
## 41723  4.39e-05 0.002257
## 94146  1.56e-04 0.002213
## 80535  3.66e-04 0.002612
## 49399  9.22e-05 0.001929
## 98615  2.22e-04 0.000691
## 102638 1.39e-05 0.001673
## 49520  9.50e-06 0.000904
## 130523 8.30e-05 0.002560
## 76588  6.14e-04 0.004117
## 109721 2.87e-05 0.001276
## 83125  3.10e-04 0.001900
## 126044 5.14e-06 0.002275
## 117982 2.14e-05 0.001200
## 23292  3.44e-04 0.001357
## 85408  2.66e-05 0.001982
## 89459  2.68e-04 0.002638
## 90403  5.79e-05 0.002238
## 20253  7.11e-05 0.002283
## 31270  9.44e-05 0.001986
## 37425  2.73e-05 0.001176
## 89152  5.36e-04 0.004181
## 127634 4.82e-04 0.002300
## 88764  4.29e-04 0.001330
## 2852   3.52e-05 0.002827
## 37410  3.35e-05 0.000845
## 119113 1.21e-05 0.001182
## 45327  5.95e-05 0.001832
## 16884  2.61e-05 0.001929
## 78424  3.16e-04 0.001935
## 76931  4.76e-04 0.001390
## 112181 3.55e-04 0.004141
## 77307  1.04e-04 0.002000
## 114078 4.67e-04 0.001672
## 73298  1.98e-05 0.001337
## 4781   1.12e-04 0.003880
## 23578  2.23e-04 0.002148
## 83642  3.55e-06 0.001238
## 106915 7.19e-05 0.002705
## 22717  3.96e-04 0.001239
## 112152 1.76e-05 0.001043
## 36463  6.64e-05 0.001853
## 77259  8.55e-05 0.001830
## 35807  6.47e-05 0.002020
## 77027  4.87e-04 0.001665
## 61770  2.64e-06 0.001133
## 97237  1.75e-04 0.001947
## 91309  8.22e-06 0.001848
## 110627 1.20e-04 0.001743
## 113347 8.53e-05 0.003498
## 53637  1.53e-04 0.001575
## 64632  1.41e-05 0.001363
## 50672  3.45e-05 0.001646
## 88216  5.08e-04 0.002645
## 89975  2.73e-05 0.001266
## 72127  4.86e-04 0.002344
## 61976  5.07e-05 0.001715
## 122146 8.37e-06 0.001331
## 15715  5.70e-04 0.003043
## 19143  2.31e-04 0.002889
## 48408  9.06e-06 0.001084
## 24939  2.35e-05 0.001073
## 14178  5.16e-04 0.001249   *
## 127215 1.99e-04 0.004184
## 4214   3.23e-04 0.004622
## 116341 4.58e-05 0.001126
## 52229  8.16e-04 0.002424
## 54258  1.68e-05 0.001907
## 109991 4.39e-04 0.001373
```

```
## 37671  6.66e-04 0.002275
## 107065 2.32e-05 0.001231
## 34212  8.06e-07 0.002142
## 65299  1.44e-05 0.001347
## 18678  6.02e-06 0.000841
## 112878 2.79e-04 0.004440
## 67785  6.51e-05 0.004551
## 21470  4.76e-04 0.001458
## 96118  5.31e-04 0.004736
## 124449 4.71e-05 0.002047
## 22611  7.78e-04 0.003070
## 56814  2.72e-05 0.001187
## 127211 9.38e-05 0.002878
## 52964  4.22e-04 0.001563
## 103598 5.52e-05 0.001410
## 15124  1.96e-06 0.001819
## 117672 1.31e-03 0.003526
## 108834 3.15e-05 0.001345
## 109876 9.26e-06 0.001389
## 13472  2.70e-06 0.002380
## 57687  7.82e-05 0.002581
## 29695  7.64e-05 0.002500
## 125587 3.31e-05 0.002267
## 15308  4.24e-04 0.001280
## 18429  1.93e-05 0.001292
## 5592   8.98e-05 0.004554
## 1342   3.50e-06 0.002245
## 34912  2.89e-05 0.001748
## 124936 7.38e-05 0.001436
## 9961   3.02e-05 0.002881
## 87643  4.13e-04 0.001637
## 43206  3.65e-05 0.002097
## 121367 6.11e-04 0.003419
## 56961  2.93e-04 0.000912
## 36590  4.83e-05 0.001171
## 11143  2.16e-06 0.003342
## 92961  1.41e-05 0.001540
## 29561  4.03e-04 0.001190
## 83146  1.48e-05 0.001338
## 55192  3.29e-04 0.001041
## 10113  2.60e-05 0.002637
## 46081  7.50e-04 0.002811
## 13759  2.11e-07 0.003113
## 48404  2.15e-05 0.001292
## 61866  6.64e-04 0.001992
## 6078   7.55e-06 0.002664
## 103391 2.21e-04 0.000659
## 122954 6.03e-04 0.001837
## 65931  1.02e-06 0.002952
## 92166  3.62e-04 0.001294
## 9016   3.28e-07 0.002562
## 5758   4.22e-06 0.003052
## 49854  1.05e-05 0.001505
## 9259   4.12e-04 0.005084
## 77457  3.69e-05 0.001822
## 80940  4.27e-04 0.001361
## 56515  6.01e-05 0.002026
## 84493  3.25e-05 0.000902
## 77553  2.57e-05 0.001202
## 109522 3.04e-05 0.001766
## 72781  1.36e-04 0.003528
## 29832  3.78e-05 0.001574
## 118419 4.94e-05 0.001162
## 54937  3.22e-04 0.000799   *
## 59790  2.95e-05 0.001125
## 59518  1.18e-04 0.002661
## 100728 9.56e-06 0.001295
## 88375  2.29e-05 0.001308
## 103387 1.84e-05 0.000973
## 92257  3.09e-04 0.000773   *
## 99717  3.10e-05 0.002238
## 30843  1.84e-04 0.002781
## 74345  1.85e-06 0.002136
## 114035 2.83e-04 0.000989
## 59632  9.81e-04 0.003927
## 41911  1.98e-04 0.001978
## 50160  1.95e-05 0.003251
## 5294   3.19e-05 0.003022
## 8861   3.50e-05 0.003124
## 73513  2.33e-05 0.001576
## 70969  3.85e-05 0.001802
## 71592  4.14e-05 0.001267
## 112131 4.74e-06 0.003122
## 1912   2.37e-04 0.003497
## 37797  7.42e-05 0.002635
## 73786  3.93e-04 0.001884
## 96545  4.00e-04 0.001826
## 128957 1.74e-04 0.002913
## 44844  1.38e-05 0.001894
## 10621  1.35e-03 0.003633
## 80986  9.84e-06 0.001401
## 809    7.87e-05 0.004175
## 119819 5.69e-04 0.001676
## 63962  1.01e-04 0.001466
## 126221 8.43e-04 0.006111
## 53508  3.08e-05 0.001951
## 89670  5.10e-05 0.002418
## 40664  3.92e-04 0.001600
```

```
## 49044  9.69e-06 0.001090
## 49407  1.06e-05 0.001721
## 124577 3.40e-04 0.003254
## 109437 9.41e-05 0.001781
## 118322 1.65e-04 0.003035
## 33908  6.05e-05 0.001304
## 65131  3.01e-05 0.001751
## 6161   1.45e-04 0.004972
## 67950  9.62e-06 0.000913
## 8375   6.47e-05 0.003148
## 109514 3.30e-05 0.001775
## 13073  1.54e-03 0.005314
## 1474   1.52e-06 0.003208
## 33127  2.60e-05 0.001460
## 38731  6.63e-04 0.002430
## 96623  2.21e-05 0.001263
## 117184 4.69e-05 0.001823
## 71492  2.34e-05 0.002133
## 97244  5.84e-04 0.002262
## 118289 5.64e-05 0.001479
## 80071  1.67e-05 0.001703
## 38767  3.34e-04 0.001540
## 40439  9.03e-06 0.001156
## 121927 2.38e-05 0.001157
## 77122  4.33e-04 0.003128
## 40220  2.35e-05 0.001050
## 118071 4.65e-05 0.001478
## 61948  1.09e-05 0.002218
## 58962  8.72e-06 0.001722
## 25333  1.02e-04 0.002456
## 56762  5.71e-05 0.001325
## 60895  1.14e-05 0.001635
## 8559   9.97e-04 0.003286
## 100407 5.55e-04 0.002728
## 31141  1.22e-05 0.001779
## 72755  1.21e-05 0.001854
## 85116  4.82e-06 0.000732
## 54468  4.17e-04 0.001627
## 49473  9.73e-06 0.003118
## 74873  2.41e-06 0.001342
## 119852 8.23e-04 0.004469
## 27129  9.29e-06 0.001088
## 17372  6.98e-05 0.002116
## 50146  4.98e-04 0.001216   *
## 23373  5.21e-04 0.002424
## 96720  2.83e-05 0.001781
## 104557 7.40e-05 0.001572
## 16381  3.65e-05 0.001974
## 72561  8.81e-06 0.001177
## 11043  2.10e-04 0.004669
## 109461 5.90e-04 0.002378
## 66275  3.83e-05 0.001154
## 88213  5.75e-05 0.001249
## 41180  2.03e-05 0.000929
## 125104 1.15e-04 0.003371
## 82278  3.35e-05 0.001334
## 10870  4.19e-06 0.002989
## 42272  8.39e-04 0.003433
## 89808  1.18e-04 0.002488
## 1532   1.27e-04 0.004807
## 2534   6.52e-05 0.003863
## 83697  8.14e-06 0.001204
## 6873   2.69e-05 0.002644
## 37790  4.63e-04 0.001388
## 18769  1.97e-05 0.000786
## 66580  7.37e-07 0.002393
## 5837   6.75e-05 0.002716
## 73300  1.22e-05 0.001627
## 101729 9.04e-04 0.002885
## 51884  4.78e-04 0.001709
## 77747  3.00e-05 0.001669
## 23573  2.50e-04 0.001179
## 64891  5.71e-04 0.001919
## 36244  2.28e-04 0.002242
## 59116  3.50e-04 0.001684
## 57944  3.72e-04 0.003201
## 21260  5.92e-04 0.003538
## 96392  6.49e-04 0.003107
## 57163  2.55e-05 0.002408
## 7961   8.14e-04 0.002958
## 31758  2.01e-04 0.002239
## 25254  1.09e-04 0.001997
## 101119 2.81e-06 0.001100
## 25431  8.43e-06 0.000967
## 46252  4.35e-04 0.001338
## 127584 3.25e-04 0.002973
## 82055  1.04e-05 0.002283
## 127262 3.38e-05 0.002455
## 36330  6.42e-04 0.001904
## 69641  1.68e-04 0.002439
## 127268 5.58e-05 0.001898
## 66703  6.49e-06 0.001256
## 116103 1.18e-05 0.001606
## 69186  3.72e-05 0.001515
## 74862  2.24e-04 0.001678
## 45431  4.39e-06 0.002345
## 25597  6.27e-05 0.001677
## 70876  8.59e-05 0.002078
```

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## 102708 1.86e-06 0.001463
## 104459 4.31e-05 0.000979
## 59786  5.42e-05 0.001342
## 9440   3.13e-04 0.005968
## 104896 3.44e-05 0.000893
## 35559  2.46e-05 0.001053
## 113481 7.99e-06 0.001411
## 113789 2.24e-04 0.004237
## 89416  3.07e-06 0.001367
## 118420 2.82e-05 0.002021
## 129111 1.64e-04 0.003487
## 105737 1.18e-04 0.002260
## 115100 7.29e-04 0.001715   *
## 108273 3.18e-05 0.002512
## 48352  5.36e-05 0.002431
## 65175  1.91e-05 0.002887
## 47621  8.67e-05 0.002106
## 49445  3.02e-05 0.002901
## 128267 5.88e-05 0.002596
## 105115 3.36e-04 0.001600
## 25104  8.81e-05 0.001594
## 49337  6.88e-05 0.001664
## 18090  3.10e-05 0.002651
## 94640  6.64e-05 0.001635
## 16227  1.18e-05 0.001215
## 6677   2.54e-05 0.002903
## 83055  6.92e-04 0.003896
## 23464  4.28e-06 0.001550
## 126328 8.61e-05 0.001740
## 104672 1.90e-05 0.001031
## 40083  6.72e-04 0.003937
## 32669  7.27e-04 0.002068
## 5892   2.14e-05 0.011480   *
## 19445  5.01e-06 0.000916
## 48549  5.11e-05 0.001207
## 99048  3.37e-05 0.001692
## 79122  5.48e-05 0.001429
## 23958  2.51e-05 0.001551
## 122808 4.18e-04 0.001216
## 19432  1.02e-03 0.002117   *
## 71707  1.93e-04 0.002258
## 29539  2.72e-05 0.001800
## 96672  2.73e-04 0.002234
## 51694  1.32e-06 0.000862
## 73345  5.53e-05 0.002000
## 120501 4.73e-05 0.001552
## 103246 1.90e-05 0.000983
## 69545  1.29e-05 0.001921
## 113627 1.60e-05 0.001370
## 90483  2.71e-05 0.001051
## 50161  5.63e-05 0.002456
## 53067  4.32e-05 0.001204
## 101265 1.88e-05 0.001777
## 5430   2.34e-04 0.004722
## 77335  2.75e-04 0.001594
## 3619   9.68e-04 0.004924
## 63604  1.52e-05 0.001640
## 14210  8.98e-05 0.002871
## 84495  1.08e-05 0.001174
## 119749 6.75e-06 0.001350
## 4636   1.81e-05 0.004656
## 111563 2.02e-05 0.000939
## 100313 1.99e-05 0.000889
## 93762  5.19e-04 0.002111
## 81760  2.98e-05 0.001793
## 59566  8.97e-07 0.002135
## 121997 2.60e-05 0.001268
## 29701  7.35e-04 0.003219
## 85855  1.15e-04 0.002456
## 88894  2.10e-04 0.002898
## 109483 4.26e-04 0.001308
## 52086  1.74e-05 0.001766
## 93336  4.05e-05 0.002019
## 101231 7.44e-04 0.002913
## 27056  4.01e-05 0.001555
## 44560  4.31e-07 0.002086
## 64895  3.84e-04 0.001425
## 106325 6.23e-05 0.001592
## 77117  1.13e-05 0.002194
## 72714  5.80e-05 0.001600
## 79388  2.61e-06 0.001320
## 61485  4.35e-04 0.001948
## 76483  7.02e-04 0.002721
## 112234 8.22e-05 0.003676
## 14098  3.41e-05 0.002729
## 4489   1.67e-05 0.003299
## 77447  5.37e-04 0.001388   *
## 14464  1.53e-04 0.002395
## 96295  6.23e-05 0.001538
## 23749  8.35e-04 0.002914
## 59784  8.06e-05 0.002051
## 91877  1.10e-05 0.001136
## 17716  3.90e-05 0.001513
## 35336  2.36e-06 0.001719
## 30181  1.07e-04 0.001904
## 48062  3.33e-05 0.001360
## 60337  3.86e-04 0.002022
## 30259  9.51e-06 0.001158
```

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## 98167  2.74e-05 0.001242
## 65568  1.25e-04 0.002682
## 18494  1.73e-04 0.002453
## 118302 6.97e-04 0.004159
## 20550  5.01e-04 0.001433
## 78413  2.37e-04 0.004303
## 87893  3.14e-05 0.001325
## 80866  3.54e-04 0.001110
## 104921 8.81e-06 0.000947
## 36474  9.54e-06 0.001719
## 44606  5.37e-04 0.001288   *
## 61878  2.46e-05 0.001216
## 2563   1.31e-06 0.002945
## 7206   8.63e-04 0.004353
## 43241  6.31e-05 0.002164
## 80114  1.54e-04 0.002283
## 48454  5.17e-04 0.002435
## 36375  5.65e-04 0.002612
## 87444  7.27e-04 0.002877
## 3622   1.65e-06 0.004054
## 106619 1.00e-05 0.001118
## 31108  2.21e-04 0.003017
## 5681   7.89e-06 0.002672
## 89197  4.12e-05 0.001668
## 12234  2.41e-05 0.003097
## 1864   8.87e-06 0.003061
## 51951  6.52e-05 0.001764
## 12333  1.27e-04 0.003825
## 22141  7.45e-05 0.002063
## 88655  1.13e-05 0.005733   *
## 47255  6.92e-04 0.006898
## 11547  4.13e-06 0.002293
## 25737  3.61e-05 0.001516
## 42453  4.57e-06 0.001964
## 11433  2.13e-03 0.005864   *
## 63066  6.03e-05 0.004192
## 124264 4.66e-05 0.003153
## 91432  6.86e-05 0.001823
## 106237 3.39e-05 0.000929
## 94756  1.83e-05 0.000795
## 111750 1.51e-05 0.002067
## 55494  4.41e-04 0.004632
## 57324  6.65e-06 0.000993
## 40377  3.20e-05 0.002588
## 104329 2.91e-05 0.001543
## 10104  1.55e-04 0.004484
## 115172 3.69e-04 0.001064
## 27449  1.45e-04 0.002453
## 71190  3.67e-05 0.001491
## 84077  2.55e-04 0.002124
## 30825  2.80e-05 0.001024
## 117914 7.08e-04 0.003081
## 50776  1.97e-05 0.001558
## 25428  1.01e-05 0.000948
## 85673  2.58e-04 0.002815
## 44378  3.62e-05 0.003698
## 110982 1.86e-05 0.002185
## 125084 5.52e-06 0.002189
## 22345  3.46e-05 0.001666
## 18875  5.99e-05 0.001376
## 21780  1.27e-05 0.001557
## 35015  3.59e-04 0.001292
## 82195  1.18e-05 0.001155
## 28777  3.34e-04 0.004885
## 80349  1.93e-05 0.000937
## 98007  1.08e-04 0.002242
## 110171 9.45e-06 0.001190
## 56972  9.33e-04 0.002608
## 55345  7.22e-04 0.002572
## 34529  3.02e-05 0.002202
## 20090  3.92e-04 0.001927
## 5281   1.51e-04 0.005504
## 46986  9.82e-04 0.005430
## 98065  1.19e-04 0.001655
## 40368  6.42e-06 0.000845
## 26008  6.86e-06 0.000894
## 25243  2.98e-04 0.001026
## 81668  2.32e-07 0.001561
## 8561   6.94e-04 0.003699
## 69698  2.84e-05 0.001235
## 59075  3.03e-04 0.003647
## 75569  3.75e-05 0.000898
## 35514  7.88e-06 0.002795
## 126972 1.07e-04 0.001840
## 405    5.29e-07 0.003026
## 38698  6.11e-05 0.001641
## 47632  7.92e-05 0.002772
## 67821  1.93e-06 0.001088
## 87924  5.86e-04 0.001516
## 22414  3.51e-05 0.001713
## 5883   8.68e-07 0.002915
## 5680   1.00e-03 0.002993
## 19039  9.27e-05 0.001519
## 111161 4.29e-04 0.001413
## 101179 4.06e-04 0.003218
## 121217 5.38e-04 0.002774
## 70471  4.90e-05 0.002476
## 112001 3.38e-05 0.001920
```

```
## 130277 1.23e-04 0.002183
## 71100  3.26e-05 0.001633
## 127744 4.45e-05 0.001543
## 24222  4.95e-04 0.002980
## 122114 1.29e-05 0.001510
## 58762  1.04e-05 0.002226
## 39961  1.47e-03 0.002870   *
## 54886  1.19e-04 0.001806
## 127271 6.71e-05 0.002282
## 79839  4.78e-06 0.001979
## 114462 7.21e-04 0.002315
## 113840 4.65e-05 0.002016
## 125072 6.27e-06 0.002385
## 25698  5.26e-05 0.001305
## 75293  3.08e-04 0.004133
## 116582 1.10e-04 0.001979
## 98362  7.59e-05 0.002614
## 65367  2.32e-06 0.001134
## 56520  1.47e-04 0.002483
## 59936  1.44e-05 0.001454
## 47646  1.74e-04 0.003372
## 72303  3.70e-05 0.003108
## 19534  1.17e-04 0.002550
## 128351 2.12e-05 0.001998
## 56     7.59e-05 0.003526
## 79018  2.83e-05 0.001207
## 42768  8.55e-05 0.002083
## 1449   5.33e-05 0.003761
## 6113   1.29e-06 0.003001
## 22418  3.63e-07 0.002587
## 97080  2.34e-04 0.000875
## 71393  3.32e-05 0.001411
## 122421 4.99e-04 0.001261   *
## 90578  4.12e-04 0.002409
## 7292   9.99e-07 0.003227
## 37362  5.33e-04 0.003675
## 61702  7.53e-05 0.002812
## 65645  1.55e-06 0.001503
## 3351   2.12e-06 0.002464
## 17560  4.00e-04 0.001168
## 14909  2.00e-05 0.001251
## 103402 6.62e-05 0.001730
## 116563 5.20e-05 0.001943
## 91141  7.19e-06 0.000917
## 4066   7.15e-05 0.004462
## 108126 2.41e-06 0.001362
## 9872   1.69e-08 0.003146
## 56358  5.04e-04 0.001685
## 75135  1.76e-06 0.001563
## 106953 2.52e-05 0.001189
## 70984  8.00e-04 0.002556
## 100732 2.41e-06 0.001056
## 102541 5.12e-05 0.001212
## 55943  6.33e-07 0.001636
## 74925  8.01e-04 0.004184
## 52547  4.03e-05 0.001992
## 17441  9.53e-05 0.002576
## 83510  3.94e-05 0.001028
## 29100  1.32e-05 0.001510
## 32807  2.93e-04 0.002226
## 58844  1.63e-05 0.002251
## 73433  1.33e-05 0.002358
## 84307  4.95e-05 0.001279
## 36006  1.37e-04 0.002342
## 77511  2.47e-06 0.001710
## 18328  4.14e-04 0.002276
## 2520   6.66e-05 0.003392
## 78215  2.90e-04 0.002656
## 106959 9.97e-05 0.002165
## 123480 4.32e-04 0.002997
## 21637  7.64e-05 0.001206
## 33327  6.68e-05 0.002135
## 121621 7.35e-06 0.000870
## 79817  5.15e-04 0.004683
## 17126  1.56e-05 0.001706
## 38185  3.30e-05 0.002130
## 67994  1.84e-04 0.009582   *
## 121511 2.90e-05 0.001283
## 62020  3.92e-04 0.003091
## 25898  1.34e-06 0.001545
## 73609  4.65e-04 0.002823
## 119314 2.76e-04 0.003341
## 14327  4.91e-04 0.001484
## 74850  5.39e-04 0.002112
## 38525  3.85e-04 0.000953   *
## 62654  3.67e-04 0.002278
## 19385  3.21e-05 0.002138
## 15192  8.01e-04 0.002018
## 112359 3.32e-05 0.000916
## 84246  1.01e-05 0.001458
## 37507  1.92e-05 0.000769
## 115657 3.95e-05 0.001653
## 126451 1.06e-04 0.003153
## 2989   1.05e-03 0.002636
## 45956  3.61e-04 0.001694
## 64771  2.96e-04 0.004284
## 72353  5.68e-06 0.000674
## 82999  3.19e-05 0.001236
```

```
## 12647  3.26e-05 0.002952
## 10501  1.18e-03 0.002978
## 108957 2.55e-05 0.001556
## 84895  1.81e-05 0.001184
## 41355  7.46e-06 0.000997
## 13738  7.53e-05 0.003413
## 90692  3.48e-04 0.001173
## 12415  1.05e-03 0.004186
## 19080  3.43e-04 0.001231
## 40841  2.65e-05 0.001034
## 17035  5.38e-04 0.001636
## 79711  6.48e-05 0.001870
## 83690  4.65e-06 0.000905
## 15676  3.81e-04 0.001334
## 26420  5.75e-05 0.001440
## 15357  3.67e-05 0.001892
## 112932 2.88e-04 0.002118
## 123306 7.87e-05 0.002858
## 71928  3.01e-05 0.001624
## 94682  2.59e-04 0.001878
## 87626  2.27e-05 0.001187
## 106705 1.39e-04 0.002332
## 88468  8.45e-06 0.000900
## 23662  4.71e-04 0.002058
## 84432  2.50e-04 0.002004
## 77522  1.28e-05 0.001269
## 46059  9.33e-04 0.003645
## 94614  7.23e-04 0.001773   *
## 126950 2.20e-04 0.003950
## 148    1.17e-05 0.002863
## 52368  2.61e-05 0.001377
## 15034  1.52e-03 0.003111   *
## 111506 7.12e-05 0.002760
## 43129  8.91e-04 0.003733
## 22631  4.43e-05 0.001639
## 83481  4.90e-04 0.003040
## 32691  2.99e-04 0.003554
## 3715   5.51e-04 0.005131
## 9761   1.28e-03 0.003050
## 37332  2.49e-04 0.002463
## 68730  1.85e-04 0.003347
## 69054  2.92e-04 0.004059
## 47723  1.31e-04 0.009506   *
## 75750  7.79e-06 0.000721
## 110849 5.72e-04 0.001731
## 8647   3.77e-06 0.003156
## 75318  1.27e-05 0.001439
## 62057  9.03e-04 0.003058
## 22983  1.61e-05 0.001625
## 73566  4.66e-05 0.001077
## 68894  1.92e-04 0.002133
## 119099 2.86e-05 0.001187
## 26799  8.59e-04 0.002271
## 114209 1.06e-05 0.001195
## 26849  4.63e-05 0.001152
## 76370  1.60e-06 0.001404
## 64940  3.90e-04 0.001831
## 22200  2.76e-05 0.001406
## 65035  4.07e-04 0.001172
## 99073  5.63e-05 0.001519
## 109804 1.22e-05 0.001678
## 32538  4.45e-05 0.001791
## 85310  4.29e-05 0.001066
## 46980  6.90e-04 0.002668
## 5432   2.77e-05 0.002908
## 35450  5.02e-04 0.001499
## 61237  1.82e-06 0.001790
## 59531  6.36e-05 0.002510
## 111695 3.02e-05 0.001836
## 64065  5.88e-04 0.002564
## 41241  2.00e-05 0.001242
## 81661  5.85e-05 0.002540
## 71561  6.10e-05 0.002812
## 13489  1.25e-03 0.004877
## 38377  2.34e-05 0.001247
## 68166  6.27e-04 0.001939
## 44335  3.99e-05 0.001487
## 21483  1.53e-04 0.003227
## 2162   3.12e-07 0.003030
## 57151  5.41e-04 0.002059
## 129674 1.51e-04 0.002791
## 128958 7.50e-04 0.002068
## 68087  7.94e-07 0.001213
## 67709  8.19e-06 0.002825
## 42624  3.41e-03 0.008143   *
## 17559  5.00e-05 0.001454
## 117621 1.65e-05 0.002155
## 16043  2.81e-05 0.001018
## 61632  5.00e-04 0.002537
## 95853  2.87e-05 0.001607
## 50579  7.37e-05 0.002029
## 40896  5.66e-06 0.000828
## 74049  1.05e-04 0.003260
## 14542  4.06e-04 0.001008   *
## 60940  1.73e-04 0.002285
## 111613 8.53e-05 0.002116
## 30131  5.51e-04 0.001694
## 26883  6.27e-05 0.001709
```

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## 83595  1.84e-04 0.002557
## 67729  4.70e-06 0.000971
## 59086  6.35e-04 0.002529
## 17813  1.06e-04 0.002781
## 32204  5.73e-04 0.002239
## 25373  1.75e-05 0.001549
## 35161  9.02e-06 0.001411
## 20405  9.72e-04 0.003856
## 38139  4.00e-05 0.001884
## 87254  3.18e-04 0.003743
## 49003  4.60e-05 0.002466
## 85672  4.37e-05 0.002065
## 102554 8.38e-05 0.002580
## 107197 1.06e-05 0.001308
## 118512 3.01e-04 0.002395
## 46227  4.65e-04 0.003135
## 54256  1.32e-05 0.003249
## 53387  1.20e-06 0.001862
## 104362 3.20e-05 0.001494
## 77949  2.85e-05 0.001737
## 53917  5.14e-05 0.002392
## 123292 1.26e-05 0.002173
## 75710  9.37e-06 0.001999
## 81888  1.57e-04 0.002724
## 19323  1.27e-03 0.005994
## 45418  4.59e-04 0.002507
## 76667  6.59e-05 0.001668
## 116293 7.66e-06 0.000870
## 16577  6.57e-06 0.001074
## 30580  5.72e-04 0.002774
## 1584   3.63e-09 0.003371
## 87688  2.82e-05 0.001464
## 77825  1.18e-04 0.003059
## 26099  2.69e-05 0.001394
## 46575  3.69e-05 0.002006
## 108799 3.86e-04 0.003159
## 23778  1.77e-04 0.002885
## 10782  1.10e-05 0.003202
## 29569  3.56e-04 0.001052
## 64901  2.56e-05 0.001422
## 95630  4.29e-04 0.003709
## 29686  3.60e-05 0.000932
## 56139  4.00e-04 0.001033   *
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## 21336  2.58e-05 0.001720
## 11231  5.13e-07 0.004122
## 21201  3.19e-04 0.001144
## 29475  2.80e-05 0.001700
## 30951  2.48e-04 0.002890
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## 93671  1.03e-05 0.000940
## 27412  1.03e-05 0.001045
## 52411  1.07e-04 0.002303
## 31560  8.31e-05 0.001966
## 17337  3.57e-04 0.004178
## 66608  5.18e-04 0.001465
## 29030  1.42e-05 0.001903
## 84534  6.97e-05 0.002560
## 86365  8.91e-06 0.001669
## 99622  1.99e-06 0.002141
## 3500   2.26e-05 0.003152
## 80410  4.11e-05 0.000932
## 21724  3.03e-05 0.001553
## 61085  2.14e-05 0.001184
## 94252  1.07e-03 0.003893
## 12287  1.17e-03 0.003552
## 40726  4.08e-04 0.004325
## 113059 4.28e-04 0.001544
## 94255  6.80e-04 0.003227
## 113334 7.38e-05 0.002225
## 125122 8.54e-04 0.002586
## 20278  5.55e-04 0.001514
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## 91513  6.08e-07 0.002041
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## 61035  5.27e-05 0.001243
## 55497  2.12e-05 0.001950
## 117969 1.13e-04 0.001708
## 80145  1.26e-05 0.001578
## 30635  5.35e-05 0.001556
## 104081 1.44e-05 0.001423
## 54048  7.38e-05 0.001878
## 121786 3.07e-04 0.002641
## 112578 8.19e-06 0.001654
## 84249  4.57e-06 0.001421
## 26450  5.77e-05 0.001664
## 67031  1.84e-05 0.002120
## 94595  5.30e-04 0.001669
## 21448  1.20e-05 0.001908
## 48373  1.54e-04 0.002199
## 38886  2.47e-06 0.001684
## 87516  3.19e-04 0.001016
## 105540 9.37e-05 0.001832
## 102508 5.92e-04 0.005055
## 123094 7.22e-05 0.001981
## 52266  1.13e-05 0.000992
## 22048  6.75e-04 0.003158
```

```
## 35605  4.01e-04 0.001449
## 71211  3.78e-04 0.001152
## 20157  6.22e-05 0.002078
## 112608 1.51e-04 0.001507
## 101919 2.28e-05 0.001182
## 50173  2.75e-05 0.002144
## 123315 7.92e-04 0.002183
## 117924 3.94e-05 0.001721
## 33774  2.67e-04 0.003288
## 2385   6.90e-05 0.003387
## 27955  3.04e-05 0.002343
## 103541 3.24e-05 0.001749
## 25236  5.12e-05 0.001303
## 101516 5.91e-04 0.002706
## 70706  3.05e-05 0.002252
## 21789  4.88e-04 0.001417
## 32070  7.95e-06 0.001680
## 115269 1.40e-04 0.002066
## 26325  1.15e-04 0.002786
## 48602  4.29e-04 0.001246
## 130498 4.06e-05 0.001683
## 112117 2.28e-05 0.001070
## 130215 2.73e-04 0.003055
## 52532  3.56e-04 0.000881   *
## 24857  3.23e-04 0.002260
## 12981  2.17e-05 0.003519
## 61155  1.81e-04 0.003488
## 128453 2.13e-05 0.001498
## 56639  1.10e-06 0.001235
## 109580 8.79e-04 0.003380
## 69579  6.71e-05 0.001635
## 96159  5.48e-05 0.002065
## 40282  4.45e-04 0.001750
## 109541 4.98e-04 0.001765
## 8277   1.06e-04 0.003785
## 70278  6.42e-04 0.001846
## 61212  9.78e-05 0.003591
## 72142  4.66e-04 0.001966
## 116091 3.83e-05 0.001565
## 8892   5.73e-04 0.004583
## 108782 6.41e-06 0.000899
## 55599  3.10e-04 0.001699
## 49269  8.46e-04 0.002668
## 69490  4.81e-05 0.001325
## 77826  1.12e-05 0.001699
## 89309  2.67e-05 0.001191
## 100671 4.48e-04 0.002163
## 104371 3.91e-04 0.007144   *
## 113250 1.70e-05 0.000737
## 22309  3.45e-05 0.001932
## 6392   8.65e-05 0.007208   *
## 67245  1.32e-05 0.002545
## 68046  6.27e-07 0.000924
## 113208 2.02e-05 0.001987
## 27821  1.14e-05 0.001371
## 32759  3.18e-05 0.001723
## 25821  1.14e-05 0.001279
## 64563  5.07e-04 0.001444
## 99992  4.30e-05 0.001242
## 78986  3.71e-05 0.001710
## 62390  3.80e-05 0.001551
## 120064 3.76e-06 0.002524
## 130513 8.21e-05 0.002861
## 128229 2.80e-04 0.002580
## 88195  5.93e-05 0.003547
## 126333 1.27e-04 0.002611
## 38213  4.34e-04 0.001077   *
## 57183  6.65e-05 0.004566
## 130705 2.67e-05 0.002199
## 45560  8.12e-05 0.002236
## 22485  9.86e-05 0.002003
## 96114  2.51e-05 0.001330
## 20546  1.75e-05 0.003553
## 53727  1.09e-04 0.002754
## 77943  6.38e-04 0.002381
## 64883  7.13e-05 0.005940   *
## 53353  2.32e-06 0.001883
## 17370  7.52e-05 0.002048
## 32278  3.18e-05 0.001336
## 24494  3.27e-05 0.002096
## 17447  7.14e-05 0.002222
## 24100  1.28e-05 0.002848
## 120179 5.68e-05 0.001554
## 89145  4.35e-05 0.002105
## 42737  6.44e-05 0.009850   *
## 10076  5.53e-05 0.005943   *
## 42392  8.98e-06 0.001931
## 1480   2.26e-04 0.004377
## 49216  3.64e-05 0.001697
## 21697  2.34e-04 0.002687
## 96667  1.04e-06 0.001362
## 32238  4.86e-05 0.001860
## 7529   1.65e-04 0.003658
## 44459  6.48e-05 0.001899
## 86128  9.02e-05 0.002148
## 11904  7.07e-06 0.003415
## 18722  1.40e-04 0.002666
## 61756  7.62e-04 0.001842   *
```

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## 7800   6.49e-05 0.003398
## 48502  2.10e-06 0.001252
## 116455 2.17e-05 0.001428
## 123460 7.80e-05 0.002331
## 49946  7.05e-05 0.001715
## 48802  1.07e-05 0.007196   *
## 79468  7.14e-04 0.002718
## 18763  7.29e-06 0.000763
## 124018 7.11e-04 0.001902
## 80889  3.02e-06 0.001468
## 86002  5.59e-06 0.001182
## 4017   6.00e-05 0.003777
## 62352  9.55e-04 0.002740
## 52940  4.18e-04 0.002242
## 5276   1.26e-06 0.003121
## 92485  1.04e-05 0.003814
## 38052  8.91e-04 0.002461
## 31797  1.57e-05 0.001659
## 93659  6.96e-07 0.001347
## 65453  6.52e-06 0.001806
## 21689  2.36e-05 0.001092
## 79048  3.04e-06 0.002611
## 59119  1.24e-04 0.001741
## 21487  6.38e-05 0.002126
## 125662 5.56e-05 0.001830
## 94335  3.27e-05 0.001022
## 5201   1.48e-04 0.005596   *
## 23703  1.20e-05 0.001692
## 52904  3.02e-06 0.001176
## 56733  7.19e-05 0.002286
## 64184  1.13e-04 0.002409
## 56207  3.00e-04 0.003887
## 87968  2.92e-05 0.002365
## 9965   3.66e-06 0.002803
## 6293   1.00e-03 0.006801
## 100611 4.67e-05 0.001853
## 56477  7.58e-06 0.001418
## 123208 2.05e-05 0.001454
## 49295  1.53e-06 0.001367
## 115026 5.87e-04 0.001774
## 38835  1.88e-04 0.001848
## 1435   8.72e-05 0.004842
## 39794  5.10e-04 0.001834
## 128564 5.22e-05 0.002412
## 9982   5.38e-04 0.005360
## 77379  3.28e-04 0.002029
## 49006  8.66e-04 0.004767
## 37446  1.48e-05 0.001614
## 10287  2.26e-04 0.005132
## 48902  1.08e-05 0.001497
## 30280  3.25e-04 0.002579
## 114664 1.62e-05 0.003625
## 91769  1.76e-04 0.001781
## 6566   4.10e-05 0.003409
## 71895  1.35e-05 0.001480
## 97436  3.10e-05 0.001621
## 36918  2.46e-04 0.002776
## 57447  2.81e-05 0.002402
## 28453  7.49e-06 0.001180
## 107384 3.02e-05 0.001613
## 7994   3.03e-06 0.002481
## 130638 4.76e-04 0.004076
## 32901  3.80e-04 0.001133
## 50823  3.36e-05 0.001554
## 116190 8.16e-04 0.004716
## 47295  2.52e-05 0.002364
## 15682  2.60e-05 0.001586
## 128998 7.53e-04 0.005045
## 96137  3.12e-04 0.003603
## 129223 2.25e-05 0.001444
## 20959  1.96e-05 0.002801
## 21954  1.80e-06 0.001433
## 26232  6.10e-05 0.001697
## 51474  3.04e-05 0.001982
## 66961  2.16e-06 0.001374
## 73892  8.07e-07 0.002023
## 113586 3.29e-04 0.001221
## 114386 7.46e-06 0.000996
## 84524  4.54e-05 0.001129
## 50651  2.05e-05 0.000976
## 108492 2.46e-05 0.002459
## 91976  1.35e-06 0.001994
## 78115  2.02e-03 0.003937   *
## 79006  4.43e-04 0.001286
## 80555  1.80e-05 0.002000
## 116312 3.04e-05 0.001220
## 114401 1.69e-05 0.000878
## 20769  1.81e-04 0.003382
## 77439  2.48e-05 0.001347
## 23123  2.95e-05 0.000834
## 130583 7.91e-05 0.003446
## 108256 2.71e-05 0.001363
## 93057  2.52e-05 0.001208
## 58539  1.05e-04 0.004834
## 122901 1.17e-05 0.001073
## 8560   1.07e-04 0.004836
## 104729 1.79e-04 0.002908
## 17719  5.90e-05 0.001563
```

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## 61414  5.45e-04 0.001955
## 68033  9.89e-04 0.002869
## 71488  7.13e-04 0.002375
## 36925  1.21e-04 0.004524
## 28046  9.93e-05 0.001582
## 118602 1.22e-04 0.001907
## 127559 2.23e-05 0.001871
## 5199   6.30e-05 0.003414
## 55783  1.95e-05 0.000976
## 127394 8.18e-06 0.002800
## 25140  2.25e-04 0.002787
## 67827  6.06e-06 0.011350   *
## 46283  2.85e-04 0.002689
## 20006  1.98e-03 0.005738   *
## 119154 7.70e-04 0.002910
## 93047  7.82e-06 0.001423
## 63669  1.02e-05 0.010329   *
## 128345 5.58e-06 0.002437
## 86469  5.04e-05 0.001941
## 127854 2.53e-05 0.001968
## 50108  4.20e-05 0.003052
## 32589  4.92e-04 0.002281
## 86854  2.64e-04 0.003868
## 100666 7.01e-05 0.001501
## 23532  4.12e-06 0.002502
## 54711  2.60e-05 0.001173
## 39269  2.84e-04 0.004245
## 20605  4.21e-05 0.001411
## 24962  6.25e-04 0.003203
## 26923  3.55e-04 0.001041
## 23644  1.43e-04 0.001621
## 27283  6.80e-06 0.001687
## 91469  2.26e-05 0.001392
## 87997  2.84e-05 0.001230
## 77151  8.21e-06 0.002726
## 128784 4.21e-04 0.002770
## 46210  7.67e-06 0.000839
## 65806  4.31e-06 0.001904
## 95578  3.74e-06 0.001309
## 126010 5.36e-05 0.002142
## 117877 9.47e-04 0.002119   *
## 19661  5.93e-05 0.004934
## 7824   3.75e-06 0.002802
## 118171 3.60e-04 0.001363
## 38673  3.36e-04 0.003239
## 30546  4.75e-05 0.002002
## 105945 1.19e-05 0.001361
## 101582 1.83e-04 0.002538
## 63286  2.64e-04 0.002736
## 72016  5.49e-05 0.002483
## 101014 1.78e-05 0.000986
## 35378  2.12e-05 0.001852
## 38979  1.24e-04 0.001969
## 102161 8.10e-04 0.003062
## 122328 1.76e-04 0.004321
## 73717  2.95e-05 0.000731
## 123484 6.31e-05 0.002246
## 25040  1.66e-04 0.002189
## 20350  4.54e-04 0.003158
## 63020  2.59e-06 0.001780
## 60556  2.91e-05 0.001632
## 15810  1.05e-04 0.001974
## 116357 1.11e-03 0.004452
## 57058  7.83e-05 0.002244
## 70770  6.33e-05 0.001598
## 57822  1.14e-06 0.001488
## 105124 2.24e-05 0.001053
## 130462 5.55e-05 0.001685
## 53159  7.30e-04 0.002752
## 49903  3.29e-05 0.001292
## 26509  3.82e-04 0.001679
## 15264  8.49e-06 0.000901
## 4339   3.73e-06 0.002897
## 73689  4.67e-05 0.001821
## 128455 9.80e-05 0.001999
## 60535  4.28e-05 0.001128
## 100949 8.04e-06 0.001242
## 14989  9.04e-06 0.001556
## 21074  1.89e-05 0.000945
## 128818 1.21e-04 0.003379
## 43064  3.09e-04 0.005239
## 100425 2.76e-05 0.001453
## 1922   8.48e-05 0.003372
## 4535   2.47e-05 0.003865
## 88788  3.47e-06 0.003590
## 47734  2.74e-05 0.002397
## 97900  3.57e-04 0.002863
## 10424  3.27e-06 0.002457
## 22929  9.21e-05 0.003637
## 65535  2.64e-06 0.002705
## 125020 6.57e-04 0.002731
## 105101 4.62e-04 0.001404
## 79458  9.29e-05 0.002157
## 50345  6.06e-05 0.001716
## 82461  3.80e-04 0.003293
## 56982  4.89e-04 0.001721
## 51271  5.58e-06 0.002138
## 18898  4.10e-04 0.001184
```

```
## 92311  7.74e-04 0.002098
## 119456 1.50e-05 0.000621
## 80479  6.00e-06 0.001190
## 3031   4.83e-05 0.003281
## 89329  3.46e-04 0.001314
## 126664 1.69e-05 0.002161
## 26542  8.47e-04 0.002499
## 66022  6.98e-06 0.001158
## 44851  1.70e-06 0.001327
## 115398 5.32e-04 0.005765
## 96323  1.78e-06 0.000981
## 31473  2.04e-05 0.000995
## 126688 1.22e-04 0.002249
## 29049  9.97e-06 0.001898
## 115607 1.09e-05 0.001205
## 47939  2.49e-05 0.001100
## 83431  7.37e-05 0.001632
## 106256 2.75e-07 0.002825
## 5302   3.64e-05 0.002790
## 86113  1.85e-04 0.002182
## 566    7.85e-04 0.006587
## 990    1.86e-04 0.005043
## 111778 9.80e-06 0.001266
## 30919  4.25e-04 0.001068   *
## 15901  3.10e-04 0.000797   *
## 106331 6.37e-04 0.002620
## 118084 1.46e-04 0.003493
## 101097 9.37e-06 0.001323
## 94705  7.20e-04 0.004370
## 63329  5.28e-05 0.001356
## 33618  2.59e-05 0.001269
## 12319  2.67e-03 0.005593   *
## 87229  2.60e-05 0.003065
## 106063 3.55e-06 0.001470
## 86630  3.04e-05 0.001497
## 67671  7.20e-06 0.002044
## 2120   1.16e-06 0.003383
## 103826 3.49e-04 0.001275
## 86206  6.55e-06 0.001006
## 68972  7.30e-04 0.002864
## 44715  6.81e-04 0.002427
## 70001  1.56e-06 0.001271
## 78826  4.58e-06 0.005327   *
## 106799 2.32e-04 0.002777
## 114249 3.46e-04 0.001591
## 74176  2.99e-05 0.001410
## 77802  2.02e-04 0.003587
## 111899 9.49e-06 0.001306
## 110056 1.75e-05 0.000924
## 59015  4.52e-04 0.002655
## 107729 1.41e-04 0.001903
## 130432 7.05e-05 0.002319
## 67510  9.86e-06 0.001450
## 57365  4.96e-04 0.002767
## 9701   6.05e-05 0.002589
## 88921  5.56e-05 0.001922
## 128346 6.87e-05 0.002352
## 90114  2.02e-06 0.001537
## 31068  8.36e-05 0.001497
## 49681  3.90e-05 0.001527
## 59861  7.89e-05 0.002076
## 70847  2.67e-06 0.001184
## 103706 9.43e-06 0.003973
## 119914 2.67e-06 0.001822
## 8644   1.87e-05 0.002538
## 76419  3.55e-05 0.001759
## 38737  7.82e-05 0.001346
## 6891   2.56e-04 0.003501
## 22119  2.41e-04 0.004645
## 51452  4.26e-04 0.001364
## 63280  4.11e-04 0.003708
## 12354  1.08e-04 0.003914
## 99334  7.06e-06 0.000894
## 106612 7.24e-05 0.001521
## 47404  7.04e-05 0.001847
## 22802  7.17e-05 0.008467   *
## 86200  1.01e-03 0.004306
## 28445  1.76e-05 0.002328
## 47593  6.45e-05 0.002636
## 80183  8.67e-07 0.000974
## 104628 4.89e-05 0.002118
## 129787 6.79e-04 0.002713
## 19442  5.63e-05 0.001219
## 130517 6.89e-04 0.002912
## 67283  4.29e-04 0.002038
## 54983  3.85e-04 0.004143
## 63073  2.40e-04 0.004979
## 92366  2.42e-05 0.001107
## 78608  6.41e-04 0.002153
## 10242  2.62e-05 0.002723
## 82365  1.10e-05 0.001820
## 14737  2.37e-05 0.002118
## 66718  6.03e-04 0.001537   *
## 12353  2.19e-05 0.003507
## 94023  1.12e-05 0.001588
## 107091 5.20e-05 0.002436
## 89960  3.73e-06 0.002015
## 27394  2.84e-04 0.002243
```

```
## 116294 1.00e-05 0.001324
## 57136  2.58e-04 0.000785
## 84913  2.47e-05 0.000964
## 92117  1.02e-05 0.001256
## 103226 3.46e-04 0.001217
## 115950 6.79e-07 0.001677
## 21823  6.79e-04 0.003766
## 79592  5.29e-06 0.001468
## 1147   9.79e-07 0.003096
## 42865  1.81e-03 0.005165   *
## 124357 3.45e-04 0.002196
## 109406 2.06e-05 0.001050
## 82609  3.45e-04 0.001351
## 82541  3.60e-04 0.001426
## 67797  1.11e-03 0.003193
## 58345  6.50e-06 0.000964
## 23255  3.36e-05 0.000791
## 43058  3.71e-05 0.001836
## 82493  2.19e-04 0.002602
## 81547  3.38e-04 0.002318
## 113005 4.07e-04 0.001455
## 48076  2.38e-05 0.002375
## 53892  2.34e-05 0.001487
## 20394  3.94e-04 0.001358
## 54438  6.67e-06 0.000966
## 53607  5.82e-06 0.001054
## 78395  3.09e-05 0.004407
## 89215  3.48e-04 0.002551
## 17515  9.38e-06 0.001407
## 66058  5.37e-06 0.000893
## 32227  4.70e-04 0.001175   *
## 36891  6.51e-04 0.001777
## 101747 1.78e-05 0.001700
## 48438  5.27e-04 0.001551
## 124781 7.45e-05 0.002120
## 71365  4.60e-05 0.002737
## 56926  1.67e-05 0.002336
## 38898  2.26e-05 0.001321
## 22849  8.43e-06 0.001413
## 80436  5.10e-04 0.002024
## 67892  4.60e-04 0.001387
## 24468  6.15e-04 0.001509   *
## 12348  1.02e-06 0.002776
## 123782 5.87e-05 0.001817
## 112780 6.45e-05 0.001994
## 47550  6.97e-05 0.002506
## 50080  2.49e-06 0.001131
## 30331  1.63e-05 0.001746
## 72720  5.67e-04 0.001771
## 92871  2.38e-04 0.003506
## 63361  9.47e-04 0.004307
## 122946 6.27e-05 0.001787
## 101616 7.77e-04 0.002194
## 103196 5.83e-04 0.004202
## 73906  7.69e-06 0.001729
## 29797  3.25e-04 0.000946
## 52078  6.88e-05 0.001987
## 76367  6.51e-04 0.003271
## 33668  1.21e-05 0.001588
## 41915  4.31e-04 0.001338
## 130327 2.68e-04 0.003427
## 76595  2.64e-05 0.000991
## 65694  2.72e-04 0.000846
## 79930  6.08e-06 0.008822   *
## 106027 2.00e-04 0.002506
## 126193 2.05e-05 0.002123
## 92054  3.68e-05 0.001012
## 115717 4.14e-04 0.001277
## 59935  4.74e-05 0.001299
## 19908  2.45e-04 0.001919
## 22306  1.37e-05 0.001617
## 11175  2.69e-06 0.003159
## 52277  5.62e-04 0.002765
## 56579  6.88e-06 0.000962
## 64360  2.34e-04 0.004462
## 46859  9.01e-05 0.001715
## 28988  1.89e-05 0.001164
## 129431 9.82e-04 0.002283   *
## 91879  8.07e-06 0.001773
## 89647  1.23e-04 0.001832
## 56483  4.21e-04 0.002480
## 70762  4.26e-05 0.001103
## 88155  2.46e-05 0.003101
## 21281  3.06e-05 0.001624
## 106338 4.69e-04 0.002125
## 87288  2.62e-04 0.004045
## 4946   1.13e-07 0.002733
## 105824 5.75e-04 0.001987
## 23697  3.83e-04 0.001764
## 28490  2.82e-05 0.001536
## 69815  2.99e-04 0.003963
## 105652 9.47e-05 0.003185
## 117532 4.13e-05 0.002369
## 52190  5.48e-04 0.001924
## 103954 3.95e-05 0.001512
## 97626  1.42e-05 0.001528
## 7195   2.19e-05 0.002908
## 121038 2.42e-05 0.001205
```

```
## 130315 8.44e-04 0.002696
## 103679 1.09e-04 0.001711
## 115867 3.21e-04 0.004752
## 40171  1.90e-04 0.003289
## 75108  9.66e-05 0.002141
## 113622 2.05e-05 0.002452
## 125738 3.60e-04 0.005077
## 55156  1.92e-04 0.003361
## 73835  7.84e-06 0.001465
## 94729  1.28e-04 0.003253
## 32352  6.22e-05 0.002304
## 75     1.33e-08 0.004267
## 52326  4.07e-04 0.001517
## 62898  6.74e-05 0.001933
## 103358 8.77e-06 0.000954
## 23674  3.64e-04 0.002130
## 118202 5.62e-05 0.001352
## 78728  2.03e-06 0.001009
## 105325 5.60e-05 0.002596
## 69572  2.62e-06 0.001403
## 35027  2.71e-04 0.002722
## 33907  2.59e-04 0.005220
## 129912 8.28e-06 0.002359
## 108858 2.12e-05 0.000942
## 16481  1.17e-04 0.002762
## 17752  1.28e-05 0.001437
## 66940  6.92e-04 0.002309
## 19577  2.89e-05 0.001482
## 70798  1.54e-04 0.002722
## 122379 6.45e-05 0.002077
## 58661  6.38e-04 0.002168
## 95979  6.50e-04 0.002702
## 69488  5.97e-04 0.002533
## 56475  4.66e-05 0.001130
## 30035  9.33e-04 0.003708
## 66388  1.69e-04 0.002349
## 43814  3.71e-04 0.001104
## 29186  1.42e-04 0.002052
## 113368 1.84e-06 0.001241
## 10794  1.33e-04 0.003432
## 37245  1.13e-05 0.000576
## 56694  3.59e-05 0.003774
## 83658  2.31e-05 0.001829
## 44863  1.02e-04 0.002392
## 32054  8.83e-06 0.000948
## 75497  5.14e-06 0.002665
## 50891  6.62e-04 0.005041
## 112711 9.63e-06 0.001557
## 69352  5.72e-04 0.001214   *
## 3594   5.60e-06 0.003000
## 110338 2.41e-05 0.001032
## 1301   1.29e-03 0.003564
## 69817  6.50e-04 0.001560   *
## 5765   1.23e-04 0.005251
## 17733  5.76e-04 0.003631
## 114442 5.60e-04 0.004559
## 65139  8.89e-04 0.003844
## 15121  2.71e-04 0.003459
## 99344  6.19e-06 0.000798
## 110742 4.35e-04 0.001102   *
## 70855  4.55e-04 0.002896
## 127344 1.00e-05 0.002531
## 97978  3.99e-04 0.004343
## 99749  1.14e-05 0.001476
## 7932   1.09e-03 0.004647
## 45416  1.23e-06 0.001446
## 82720  4.12e-05 0.001255
## 78478  4.75e-04 0.001790
## 108918 3.34e-05 0.001247
## 126973 3.75e-04 0.004358
## 40547  4.43e-04 0.001942
## 32703  3.19e-04 0.005775
## 44187  1.48e-05 0.001720
## 57715  8.40e-04 0.003249
## 36556  1.71e-04 0.003242
## 113490 1.77e-05 0.000902
## 25344  4.85e-05 0.001302
## 113945 9.73e-05 0.001736
## 116374 4.28e-05 0.001225
## 115588 1.09e-06 0.001238
## 25395  2.92e-04 0.000852
## 332    1.67e-04 0.005179
## 20514  2.22e-05 0.001102
## 6482   7.89e-05 0.003839
## 44551  2.33e-05 0.001388
## 101484 8.83e-04 0.004719
## 58809  4.00e-05 0.002390
## 77865  2.62e-05 0.001240
## 78336  8.19e-05 0.002724
## 77648  2.45e-05 0.001155
## 98559  2.17e-04 0.002279
## 84634  2.79e-05 0.001275
## 51801  1.72e-05 0.001735
## 10318  8.31e-05 0.004227
## 49215  6.01e-04 0.001274   *
## 28880  3.48e-05 0.001508
## 45623  5.13e-04 0.003142
## 25262  5.30e-05 0.001355
```

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## 92162  3.85e-04 0.002814
## 6608   9.05e-05 0.003355
## 96468  1.42e-05 0.001852
## 80451  1.07e-05 0.000977
## 108732 1.37e-04 0.002853
## 113813 7.86e-05 0.002821
## 13108  4.96e-05 0.004616
## 41332  3.55e-04 0.001046
## 76628  1.33e-05 0.001405
## 52506  2.71e-05 0.001667
## 106445 6.47e-06 0.001631
## 100109 4.72e-05 0.001196
## 26162  2.47e-05 0.001337
## 41842  2.32e-05 0.001633
## 93985  8.67e-04 0.003944
## 114791 8.19e-04 0.002740
## 46187  7.24e-05 0.001714
## 63897  4.03e-05 0.004249
## 105995 2.62e-05 0.001124
## 93835  5.69e-05 0.001841
## 85371  5.17e-04 0.001973
## 29447  2.24e-05 0.001072
## 9703   7.94e-06 0.003251
## 51876  7.63e-05 0.002733
## 39531  3.88e-04 0.003282
## 33207  3.11e-05 0.001220
## 84304  6.37e-04 0.001636
## 45817  4.20e-04 0.002294
## 126640 9.62e-05 0.002101
## 34191  1.52e-04 0.003331
## 108462 4.37e-06 0.001506
## 107826 5.20e-04 0.002282
## 27928  3.28e-05 0.001553
## 62903  1.47e-05 0.001451
## 128542 6.00e-04 0.003845
## 80683  9.41e-06 0.001148
## 17698  3.72e-04 0.001061
## 81464  1.43e-04 0.001575
## 118643 3.73e-04 0.002430
## 93411  5.35e-05 0.001983
## 99867  6.55e-06 0.000667
## 44925  6.38e-05 0.002755
## 128142 4.04e-05 0.001502
## 83712  4.03e-04 0.003045
## 14739  2.13e-05 0.001566
## 90599  1.51e-04 0.003684
## 116481 1.21e-03 0.003691
## 76811  3.08e-05 0.002558
## 12077  3.06e-04 0.005991
## 176    3.75e-05 0.003149
## 6980   8.72e-05 0.003299
## 117138 2.96e-05 0.001756
## 60074  1.04e-03 0.004034
## 114618 4.84e-04 0.002731
## 118359 8.32e-04 0.002493
## 76596  2.30e-04 0.002333
## 49912  4.64e-04 0.001451
## 48415  4.64e-05 0.001140
## 34280  3.61e-04 0.001290
## 99941  2.15e-06 0.001438
## 109625 5.74e-04 0.002292
## 79744  2.71e-05 0.001773
## 80501  7.56e-06 0.000987
## 1954   2.34e-04 0.004348
## 86304  6.52e-06 0.002727
## 25030  1.74e-06 0.001625
## 5591   1.05e-03 0.003232
## 29288  5.58e-06 0.001141
## 45347  2.01e-06 0.002241
## 128870 1.84e-05 0.001863
## 128006 2.86e-05 0.002568
## 23062  5.04e-04 0.003067
## 86712  5.79e-04 0.002145
## 113314 5.00e-04 0.003029
## 34036  1.00e-05 0.001106
## 93097  1.04e-03 0.003307
## 129508 8.00e-06 0.002494
## 94719  2.03e-05 0.002063
## 119958 3.64e-05 0.001841
## 35914  1.24e-05 0.001216
## 89085  6.22e-05 0.001481
## 74798  1.40e-04 0.002166
## 44114  6.20e-04 0.001547   *
## 94071  1.09e-03 0.003288
## 86245  9.93e-04 0.003918
## 97174  3.09e-05 0.001275
## 70565  3.36e-04 0.002617
## 15670  5.16e-05 0.001350
## 78249  7.25e-04 0.002281
## 113311 2.59e-05 0.001171
## 65179  1.36e-03 0.004260
## 58540  1.22e-05 0.001649
## 31852  2.98e-06 0.001961
## 101845 1.16e-05 0.001822
## 61139  4.45e-04 0.001663
## 59620  4.59e-05 0.001111
## 101751 2.37e-04 0.004313
## 37373  1.35e-04 0.002051
```

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## 53809  3.13e-05 0.001148
## 66051  1.21e-04 0.002131
## 115489 2.04e-05 0.001091
## 57972  2.09e-05 0.001295
## 97718  2.50e-07 0.002866
## 38729  2.56e-04 0.001631
## 82935  5.84e-05 0.001524
## 524    9.42e-05 0.004995
## 129381 7.00e-04 0.002444
## 120363 1.87e-05 0.001622
## 107168 2.76e-05 0.001166
## 41876  6.18e-06 0.000677
## 69679  3.96e-04 0.001755
## 45146  1.38e-06 0.001006
## 123089 2.05e-05 0.001078
## 107372 3.50e-05 0.001603
## 120407 1.27e-04 0.002464
## 69274  2.24e-05 0.001174
## 111976 7.68e-06 0.001373
## 120824 3.11e-05 0.002349
## 120379 4.20e-04 0.001615
## 20876  1.61e-04 0.002617
## 69542  1.38e-04 0.002862
## 71884  1.04e-04 0.003528
## 42772  2.42e-04 0.003771
## 15578  2.71e-04 0.001022
## 3385   7.84e-06 0.003061
## 89335  2.95e-05 0.001570
## 67272  1.74e-05 0.001795
## 69627  4.37e-04 0.003149
## 67879  2.65e-05 0.001509
## 107731 1.44e-04 0.002978
## 73418  3.87e-04 0.003627
## 116728 5.53e-05 0.002032
## 29210  2.87e-05 0.001797
## 99361  6.89e-06 0.000718
## 20516  3.36e-04 0.001264
## 93510  7.36e-06 0.003111
## 53528  2.19e-04 0.002726
## 102440 5.20e-05 0.001384
## 52761  5.62e-04 0.002558
## 98556  6.59e-04 0.001749
## 125302 6.52e-04 0.001980
## 69063  1.60e-05 0.001193
## 106885 8.44e-05 0.004103
## 111797 2.13e-05 0.001107
## 84297  7.62e-05 0.002636
## 122740 2.87e-05 0.003436
## 129021 1.36e-04 0.004125
## 27582  4.04e-05 0.001177
## 12148  3.73e-04 0.004410
## 5726   5.78e-05 0.002721
## 43123  5.90e-05 0.001545
## 48158  4.60e-05 0.003251
## 5838   8.64e-06 0.003044
## 126070 3.38e-05 0.002245
## 37670  2.23e-05 0.001350
## 112431 5.60e-05 0.001432
## 22330  2.06e-05 0.000953
## 1465   1.11e-04 0.009373   *
## 109904 5.20e-05 0.002274
## 94666  3.42e-05 0.001267
## 42041  2.11e-05 0.001324
## 101474 3.08e-05 0.001259
## 118808 5.81e-04 0.004209
## 41667  2.99e-05 0.002171
## 114848 8.84e-05 0.004428
## 53803  4.75e-04 0.001148   *
## 79169  4.65e-04 0.002667
## 25096  4.70e-05 0.003976
## 36259  1.73e-04 0.004194
## 67874  2.52e-05 0.001546
## 74641  3.64e-05 0.002548
## 58106  5.63e-06 0.000669
## 69983  8.80e-04 0.002913
## 28623  1.07e-04 0.002095
## 39798  1.29e-04 0.001852
## 60494  6.94e-06 0.000804
## 122449 5.88e-05 0.001625
## 105979 2.14e-05 0.000941
## 101382 8.08e-04 0.002060
## 91115  1.02e-05 0.000877
## 54206  4.48e-05 0.002507
## 16348  2.42e-04 0.003502
## 56760  3.33e-04 0.002310
## 76190  4.01e-04 0.001784
## 98374  6.45e-05 0.001705
## 40809  9.00e-06 0.001881
## 19230  8.39e-06 0.001056
## 68267  9.03e-04 0.002684
## 46236  9.71e-05 0.001966
## 91426  9.53e-06 0.001529
## 60983  3.07e-06 0.001132
## 38315  3.01e-04 0.001811
## 84892  1.72e-06 0.000940
## 26598  3.79e-04 0.001239
## 23361  9.26e-06 0.001926
## 27231  2.93e-04 0.001113
```

```
## 11120  1.51e-03 0.002830   *
## 77638  1.38e-05 0.001738
## 60967  1.39e-06 0.002097
## 118699 2.38e-06 0.001812
## 58321  5.96e-04 0.001499   *
## 45287  2.11e-06 0.001368
## 51312  6.69e-06 0.001124
## 105368 2.79e-05 0.001613
## 78335  1.91e-05 0.000916
## 46290  2.48e-04 0.003358
## 94551  2.06e-05 0.000922
## 73359  2.18e-04 0.002235
## 38257  3.55e-04 0.001371
## 30543  7.14e-05 0.001757
## 102039 1.25e-04 0.011350   *
## 66143  1.52e-05 0.001707
## 83233  5.76e-07 0.001624
## 123757 1.16e-04 0.003393
## 114460 1.58e-05 0.000764
## 103981 3.97e-05 0.001596
## 9092   1.42e-03 0.004860
## 77966  3.51e-05 0.001395
## 55937  8.14e-05 0.001382
## 24185  3.19e-05 0.001805
## 125223 1.99e-05 0.001353
## 53785  5.42e-04 0.002568
## 117988 4.54e-04 0.001758
## 116965 3.51e-04 0.001573
## 81767  2.21e-05 0.001201
## 1262   1.84e-04 0.004543
## 71062  3.44e-04 0.001059
## 21742  1.04e-05 0.001034
## 104481 6.06e-04 0.005069
## 80837  9.28e-06 0.000798
## 103788 9.64e-04 0.002072   *
## 71885  6.00e-04 0.001549
## 46300  3.88e-05 0.001304
## 63462  2.44e-07 0.003787
## 125862 4.05e-06 0.001658
## 60098  7.84e-05 0.001607
## 60961  1.20e-04 0.003176
## 25314  2.38e-05 0.001377
## 86101  2.64e-04 0.002174
## 16236  2.71e-04 0.002241
## 67256  2.26e-05 0.001290
## 93344  3.78e-04 0.003134
## 73954  1.79e-05 0.001498
## 35444  3.42e-06 0.001349
## 12797  4.27e-06 0.002545
## 11486  6.60e-05 0.003025
## 90445  2.72e-06 0.001236
## 28891  8.89e-06 0.001599
## 31731  1.58e-05 0.001517
## 94660  7.37e-04 0.002612
## 97621  1.21e-06 0.001958
## 79866  6.82e-04 0.004350
## 23817  2.02e-05 0.000987
## 74617  7.51e-05 0.002183
## 122281 7.95e-06 0.001188
## 53731  1.42e-06 0.001202
## 39801  2.44e-04 0.000719
## 42278  2.01e-04 0.002151
## 82856  4.38e-05 0.001900
## 68598  1.15e-04 0.001984
## 112815 4.42e-05 0.001847
## 97952  5.34e-06 0.000619
## 72571  7.14e-06 0.001281
## 28767  3.31e-05 0.001181
## 68497  2.72e-04 0.002906
## 21019  3.28e-04 0.003262
## 52670  3.52e-05 0.001992
## 69288  1.38e-05 0.001759
## 68427  2.11e-06 0.001137
## 94691  5.46e-04 0.002020
## 107134 5.11e-05 0.002005
## 17025  4.80e-04 0.001306
## 58225  6.53e-05 0.002719
## 60674  2.38e-04 0.004581
## 96126  1.41e-06 0.001658
## 22344  1.12e-03 0.003491
## 35068  2.39e-05 0.001106
## 86517  1.01e-05 0.001585
## 81539  2.59e-05 0.001282
## 87400  4.00e-05 0.001606
## 109978 5.20e-04 0.001589
## 94667  2.67e-06 0.001484
## 30211  1.04e-04 0.002914
## 52642  3.93e-04 0.003371
## 83584  2.41e-05 0.001009
## 99603  5.12e-04 0.001748
## 72996  9.23e-04 0.002337
## 18489  3.49e-04 0.001269
## 14533  5.99e-04 0.001677
## 122006 4.36e-05 0.002140
## 26327  2.21e-05 0.001437
## 3514   9.53e-04 0.002974
## 59480  3.59e-05 0.001500
## 118501 2.31e-04 0.002250
```

```
## 57670  1.16e-05 0.001447
## 127520 3.63e-04 0.001493
## 130179 2.96e-05 0.002151
## 9252   1.70e-06 0.003387
## 88933  1.09e-04 0.002059
## 8833   1.14e-03 0.004078
## 103180 1.08e-05 0.001301
## 118741 8.23e-05 0.001315
## 52580  4.02e-04 0.001189
## 83836  5.71e-05 0.071549   *
## 88432  3.08e-05 0.001899
## 74440  5.92e-06 0.000738
## 6102   1.22e-04 0.003603
## 72007  2.41e-05 0.002315
## 130365 3.66e-05 0.002387
## 33344  7.89e-04 0.008366   *
## 48500  5.46e-04 0.001603
## 15205  2.01e-05 0.003574
## 84907  1.88e-05 0.001962
## 60121  4.33e-05 0.001078
## 28342  8.68e-04 0.003589
## 129396 1.66e-04 0.003209
## 67246  5.51e-05 0.001492
## 52309  5.39e-04 0.002909
## 118183 3.39e-04 0.006300
## 112428 1.00e-05 0.001288
## 122904 3.48e-04 0.002810
## 13356  2.52e-06 0.002244
## 66226  2.73e-04 0.001543
## 71747  8.32e-05 0.003189
## 129404 6.22e-05 0.002786
## 87443  7.92e-05 0.001625
## 10942  5.44e-05 0.004592
## 49790  2.32e-05 0.001794
## 90714  4.34e-06 0.002123
## 110735 7.63e-06 0.001220
## 46152  3.57e-04 0.001967
## 92747  1.48e-04 0.001473
## 125772 1.06e-04 0.002646
## 61022  2.48e-06 0.001624
## 55127  4.67e-04 0.001622
## 115490 5.46e-05 0.001461
## 73415  5.28e-06 0.001868
## 98305  2.02e-05 0.002274
## 110069 2.19e-06 0.001527
## 41933  2.73e-05 0.001237
## 124473 9.15e-04 0.002910
## 16193  6.14e-05 0.001847
## 23765  5.37e-05 0.001712
## 434    5.57e-06 0.003410
## 102628 9.65e-05 0.001435
## 74514  8.16e-06 0.001521
## 53839  1.60e-05 0.001438
## 73274  3.06e-05 0.001640
## 23586  2.36e-05 0.002049
## 101926 1.28e-05 0.001402
## 39184  7.63e-06 0.001092
## 102967 7.35e-05 0.002109
## 100778 1.49e-04 0.002308
## 110256 8.21e-04 0.003860
## 115324 5.66e-04 0.001599
## 6399   8.12e-04 0.003049
## 47507  6.82e-05 0.001822
## 17383  1.13e-04 0.002177
## 66844  5.87e-04 0.001956
## 47366  2.01e-05 0.000978
## 67565  2.06e-05 0.001094
## 64997  5.64e-05 0.002120
## 125746 2.38e-04 0.003770
## 111070 6.53e-04 0.004197
## 103780 1.28e-03 0.003254
## 42697  1.23e-04 0.003117
## 9737   5.74e-07 0.003466
## 86402  5.99e-05 0.003026
## 72972  9.30e-06 0.001253
## 89660  1.99e-05 0.001153
## 100826 1.27e-04 0.002221
## 17755  1.32e-04 0.002274
## 43822  9.48e-06 0.001189
## 113970 3.31e-05 0.001276
## 99701  5.96e-05 0.002120
## 120233 5.38e-05 0.001535
## 112447 2.01e-06 0.002575
## 121275 3.38e-04 0.003294
## 55679  1.44e-04 0.002455
## 70401  9.99e-06 0.002280
## 19244  1.78e-05 0.000905
## 105189 1.32e-04 0.004345
## 98877  1.85e-05 0.001642
## 50517  4.52e-04 0.001213
## 39835  2.38e-04 0.003639
## 6153   2.17e-05 0.002634
## 97297  1.75e-05 0.001854
## 18303  2.04e-05 0.001833
## 15222  8.84e-07 0.001266
## 91300  1.65e-05 0.001609
## 124346 3.31e-05 0.002674
## 19630  3.82e-04 0.001366
```

```
## 70799  5.37e-04 0.001566
## 27865  4.38e-05 0.001578
## 58563  7.30e-05 0.002138
## 53207  4.32e-04 0.001732
## 51368  7.58e-04 0.002205
## 89916  5.95e-04 0.002416
## 54121  4.71e-04 0.001785
## 39785  4.65e-05 0.001258
## 74883  5.58e-05 0.001664
## 11857  1.11e-03 0.005312
## 24555  1.04e-04 0.001744
## 77257  3.01e-04 0.001954
## 34889  1.18e-07 0.003053
## 46019  8.38e-04 0.003033
## 77370  2.75e-05 0.002087
## 64850  2.30e-05 0.000928
## 64476  3.33e-05 0.002417
## 11993  8.90e-04 0.002880
## 4669   1.46e-03 0.004017
## 20158  1.31e-04 0.002224
## 120640 5.30e-05 0.003358
## 65400  4.43e-04 0.001264
## 102135 4.60e-05 0.001334
## 27308  4.82e-05 0.001858
## 125863 9.14e-06 0.003078
## 66737  9.51e-05 0.001716
## 68467  1.57e-04 0.002238
## 28646  3.83e-05 0.000937
## 59877  1.71e-04 0.003079
## 123815 2.01e-05 0.001450
## 116210 8.39e-05 0.002238
## 2281   5.17e-05 0.002969
## 54016  1.36e-05 0.001588
## 57757  1.71e-05 0.001015
## 88429  5.93e-05 0.001599
## 3045   4.87e-05 0.003348
## 9254   4.28e-05 0.002525
## 116796 2.68e-05 0.001381
## 102908 9.92e-06 0.001118
## 87594  6.70e-04 0.002334
## 112410 1.60e-05 0.001746
## 37749  1.96e-04 0.002341
## 101687 4.99e-04 0.004313
## 111024 1.16e-06 0.002674
## 60759  1.43e-06 0.001271
## 52628  7.40e-08 0.002003
## 119948 2.82e-06 0.001496
## 69956  7.04e-06 0.001766
## 94769  7.63e-05 0.002113
## 75412  3.95e-05 0.001428
## 15747  1.98e-05 0.001095
## 112253 4.68e-04 0.002202
## 82839  2.37e-04 0.003589
## 78885  5.11e-05 0.002745
## 52419  4.34e-05 0.001180
## 119806 1.03e-05 0.002066
## 30435  9.58e-05 0.002333
## 54551  6.72e-04 0.002580
## 92877  2.79e-04 0.005479
## 117607 2.44e-04 0.003886
## 52898  4.38e-04 0.001107   *
## 59685  5.71e-05 0.001615
## 30322  5.13e-04 0.003245
## 92209  3.30e-05 0.001314
## 48437  6.40e-05 0.002212
## 67243  6.35e-04 0.003531
## 100887 9.42e-07 0.001540
## 96342  1.99e-05 0.001489
## 42002  1.04e-03 0.004805
## 36818  7.84e-05 0.002629
## 27181  6.95e-04 0.020406   *
## 40527  2.31e-04 0.004026
## 102387 4.87e-04 0.001707
## 51067  3.92e-05 0.001251
## 124510 4.79e-04 0.002324
## 87256  3.19e-04 0.003972
## 33169  1.13e-05 0.001643
## 121870 7.29e-04 0.001897
## 101172 1.47e-05 0.001737
## 20662  2.31e-04 0.001747
## 84879  1.29e-05 0.001472
## 123759 2.23e-05 0.001686
## 95313  3.41e-07 0.001893
## 124742 5.75e-05 0.003055
## 118455 2.69e-04 0.003050
## 23818  2.27e-04 0.002592
## 68141  4.08e-04 0.003590
## 64756  8.01e-05 0.002132
## 10541  1.12e-03 0.004108
## 75766  5.50e-05 0.001869
## 42012  2.31e-04 0.003816
## 121054 3.25e-05 0.001412
## 75103  5.18e-04 0.001511
## 11686  2.74e-04 0.003587
## 30846  7.76e-06 0.001665
## 92663  6.26e-06 0.000864
## 24827  2.98e-04 0.003605
## 14312  4.13e-05 0.001604
```

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## 44598  7.08e-06 0.001458
## 68359  1.78e-04 0.002065
## 55374  5.72e-04 0.002011
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## 10244  3.16e-05 0.002626
## 94748  1.22e-05 0.001451
## 115130 2.28e-05 0.000915
## 99247  1.14e-06 0.001197
## 17313  1.21e-05 0.000590
## 91667  2.36e-05 0.001209
## 102621 6.26e-05 0.007655   *
## 64348  3.35e-05 0.001477
## 117514 4.12e-04 0.001214
## 75503  2.20e-05 0.001134
## 118986 8.65e-04 0.007643   *
## 14891  5.37e-04 0.001662
## 129700 1.99e-05 0.001555
## 25169  6.23e-06 0.000933
## 49385  5.04e-04 0.001092   *
## 83590  4.79e-04 0.003720
## 108218 4.96e-04 0.002126
## 125497 1.01e-04 0.002227
## 36072  2.49e-04 0.001483
## 38415  1.60e-04 0.003037
## 7032   1.38e-04 0.003640
## 70461  2.55e-06 0.001078
## 84282  1.60e-04 0.004496
## 100709 1.58e-04 0.002073
## 42777  3.69e-05 0.001284
## 81438  1.03e-04 0.004581
## 77799  2.08e-04 0.002749
## 87948  2.94e-05 0.001590
## 112517 6.39e-05 0.001683
## 78027  2.68e-06 0.001882
## 88079  2.89e-05 0.001301
## 36770  5.90e-05 0.001564
## 105166 3.93e-04 0.001212
## 61288  1.14e-04 0.001879
## 83122  4.24e-06 0.001821
## 118121 1.91e-05 0.001723
## 24960  2.55e-04 0.002513
## 4021   8.81e-06 0.004822
## 97350  1.33e-04 0.002450
## 22844  6.46e-04 0.001962
## 105276 6.48e-05 0.002118
## 59286  1.38e-04 0.002413
## 92187  3.17e-04 0.003188
## 122654 3.08e-04 0.003040
## 96273  2.03e-06 0.000955
## 101106 4.33e-04 0.001132   *
## 98206  6.26e-05 0.002218
## 127537 8.30e-05 0.002601
## 62004  1.07e-04 0.002109
## 2609   5.26e-09 0.003052
## 24042  5.41e-04 0.001846
## 61337  7.50e-06 0.001122
## 75448  8.58e-06 0.001715
## 97542  2.87e-05 0.001182
## 107078 2.87e-05 0.001703
## 60744  3.09e-05 0.001728
## 66923  7.17e-05 0.002032
## 80703  2.89e-04 0.002594
## 1314   3.08e-09 0.003145
## 61011  7.06e-05 0.002001
## 97380  6.30e-06 0.000975
## 107438 2.68e-05 0.001159
## 35497  5.89e-04 0.002191
## 30467  4.46e-04 0.001615
## 108097 2.68e-05 0.001455
## 99562  4.67e-04 0.002474
## 117234 6.04e-05 0.001374
## 32327  3.07e-06 0.001918
## 90090  9.32e-05 0.002164
## 118711 1.15e-04 0.001954
## 83795  3.99e-05 0.000985
## 37151  1.03e-05 0.001125
## 85884  1.21e-05 0.002400
## 23177  4.90e-05 0.001240
## 78979  3.62e-04 0.001104
## 47481  5.88e-04 0.002197
## 17625  1.93e-04 0.002733
## 73794  3.60e-05 0.001541
## 10783  1.68e-05 0.006179   *
## 84617  6.75e-05 0.002661
## 39789  4.02e-04 0.001927
## 81876  2.71e-05 0.001343
## 13570  4.37e-06 0.002612
## 39972  7.45e-04 0.002311
## 74780  2.08e-05 0.001241
## 36608  5.03e-05 0.001371
## 30385  3.31e-04 0.001468
## 83926  3.97e-04 0.001015   *
## 47193  6.51e-04 0.002740
## 100024 6.95e-06 0.000945
## 39267  2.48e-05 0.001076
## 89411  7.57e-05 0.001241
## 10563  7.23e-05 0.003396
## 113673 2.61e-05 0.001120
```

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## 25219  2.04e-05 0.001459
## 47719  6.83e-05 0.001668
## 24266  9.67e-05 0.003570
## 53050  3.37e-05 0.002175
## 95576  1.04e-05 0.001202
## 87163  1.77e-05 0.001592
## 30046  3.12e-04 0.003865
## 92272  3.90e-04 0.002686
## 14575  6.78e-04 0.002298
## 4626   1.55e-04 0.004501
## 80407  4.88e-04 0.001325
## 129796 5.55e-06 0.002116
## 79438  1.55e-06 0.001299
## 26901  1.99e-05 0.001130
## 119325 2.47e-05 0.001297
## 116493 1.85e-05 0.000903
## 89443  1.84e-04 0.002190
## 40374  2.28e-04 0.002783
## 14037  2.75e-06 0.004008
## 81604  5.04e-04 0.002462
## 88650  1.15e-03 0.003707
## 36620  8.47e-05 0.002207
## 3980   3.31e-06 0.002935
## 26643  5.99e-04 0.001746
## 62512  5.69e-04 0.002213
## 41337  2.72e-04 0.000687   *
## 16951  2.52e-05 0.001020
## 105484 2.13e-05 0.001970
## 97882  8.04e-04 0.003050
## 37109  9.22e-06 0.001336
## 111979 8.74e-06 0.001038
## 5022   4.38e-04 0.005558
## 45161  4.59e-04 0.001866
## 104369 3.32e-05 0.002020
## 74401  3.08e-05 0.001372
## 56626  1.13e-06 0.001703
## 61244  4.97e-04 0.002095
## 88483  2.52e-05 0.001272
## 63772  5.96e-05 0.002158
## 26393  2.81e-05 0.001136
## 122081 7.32e-04 0.002578
## 105144 2.55e-05 0.001564
## 43718  1.56e-07 0.003845
## 64050  3.35e-05 0.002081
## 69413  1.91e-04 0.003069
## 5849   1.82e-04 0.005399
## 71719  3.29e-06 0.002378
## 59354  3.76e-05 0.001607
## 55483  1.53e-05 0.001926
## 76380  8.96e-05 0.002113
## 22440  1.03e-03 0.008709   *
## 11704  1.79e-05 0.003084
## 129428 5.45e-05 0.001911
## 50574  1.11e-05 0.001116
## 22666  8.54e-06 0.001136
## 15843  1.41e-05 0.001530
## 37241  5.22e-05 0.002354
## 62287  6.95e-04 0.003600
## 45214  1.32e-05 0.001213
## 4932   1.18e-04 0.003382
## 58901  2.74e-05 0.002121
## 20133  6.16e-05 0.002369
## 112813 3.88e-05 0.001899
## 75322  6.62e-04 0.003074
## 6466   7.84e-07 0.002882
## 27976  3.01e-05 0.000790
## 121339 9.58e-06 0.001152
## 82770  2.24e-06 0.001489
## 123597 2.77e-04 0.003091
## 32732  9.45e-05 0.001640
## 7659   1.08e-03 0.003191
## 79536  1.99e-05 0.002504
## 70492  7.31e-04 0.002484
## 33078  1.27e-03 0.003470
## 40663  2.13e-05 0.001221
## 6217   1.89e-07 0.002557
## 102116 4.19e-04 0.001754
## 34017  1.38e-04 0.002022
## 68133  1.69e-05 0.001506
## 64342  1.02e-03 0.004247
## 55596  3.33e-05 0.001234
## 125650 3.70e-04 0.003390
## 45626  5.49e-05 0.002495
## 81023  1.86e-04 0.002324
## 12460  2.78e-05 0.002867
## 63948  2.87e-05 0.001766
## 84187  5.45e-04 0.002485
## 70214  1.87e-04 0.002836
## 89079  4.76e-04 0.002210
## 11662  9.74e-04 0.002470
## 27266  2.77e-05 0.001362
## 12272  1.31e-03 0.003988
## 44681  1.53e-05 0.002213
## 49397  2.59e-05 0.001922
## 62917  2.18e-05 0.001430
## 60671  2.48e-05 0.001098
## 70539  3.50e-04 0.002422
## 14719  3.24e-04 0.001107
```

```
## 82086  9.54e-05 0.002029
## 126463 5.19e-05 0.001615
## 35315  6.43e-04 0.003671
## 14986  5.32e-04 0.003267
## 96007  1.13e-06 0.002481
## 26978  7.69e-06 0.001244
## 1504   3.67e-07 0.003910
## 118362 7.08e-05 0.002490
## 24697  3.64e-05 0.001500
## 32363  2.82e-04 0.001065
## 26282  4.45e-05 0.002487
## 89862  3.53e-04 0.001628
## 95734  1.39e-04 0.003159
## 37347  3.76e-04 0.001365
## 56228  2.24e-05 0.001149
## 96218  2.71e-06 0.001762
## 122382 1.22e-04 0.002866
## 104709 3.84e-04 0.001781
## 4274   2.57e-04 0.006811   *
## 127593 4.48e-05 0.002073
## 46185  6.82e-04 0.002575
## 82932  1.74e-05 0.000735
## 74649  4.76e-04 0.001540
## 19635  3.66e-04 0.002391
## 90371  1.58e-05 0.001592
## 30434  9.51e-04 0.003166
## 59812  1.41e-06 0.001416
## 53498  7.03e-07 0.001004
## 54205  2.77e-06 0.002501
## 111207 3.87e-04 0.004173
## 26700  2.91e-06 0.001526
## 28435  1.33e-05 0.001085
## 34219  7.07e-05 0.002890
## 71398  1.87e-06 0.001449
## 73397  1.59e-05 0.001421
## 71979  4.39e-06 0.001399
## 74452  2.47e-05 0.001251
## 119547 8.17e-05 0.002563
## 48976  6.27e-05 0.001825
## 18069  8.87e-05 0.001478
## 30459  4.99e-04 0.002165
## 56512  8.18e-04 0.002925
## 126818 2.20e-04 0.007775   *
## 16375  5.10e-04 0.003988
## 16388  1.11e-05 0.003981
## 115595 8.62e-05 0.001256
## 11215  2.42e-04 0.004618
## 101796 3.41e-05 0.001394
## 129639 4.31e-04 0.002809
## 3341   6.45e-05 0.003878
## 8532   1.54e-04 0.003643
## 70632  9.05e-05 0.002304
## 36980  6.27e-05 0.002121
## 36508  7.32e-05 0.002024
## 608    1.11e-04 0.004101
## 1938   2.21e-06 0.003209
## 42194  4.37e-05 0.001006
## 14525  5.76e-05 0.002284
## 99797  1.37e-05 0.001401
## 127269 7.55e-06 0.001969
## 112162 2.32e-04 0.004870
## 95018  4.88e-05 0.002525
## 78651  7.24e-05 0.002237
## 69708  1.75e-04 0.001857
## 78865  1.79e-05 0.001471
## 98563  2.64e-04 0.000792
## 113205 2.25e-05 0.002133
## 38685  4.28e-05 0.000982
## 104063 4.24e-04 0.001511
## 75366  4.35e-04 0.001675
## 543    5.25e-05 0.003989
## 64153  1.08e-05 0.001319
## 117083 1.08e-03 0.004723
## 94834  5.34e-06 0.000697
## 27446  1.93e-05 0.002356
## 55893  5.27e-05 0.001930
## 117611 1.13e-05 0.002606
## 31870  3.49e-04 0.002039
## 81039  1.05e-05 0.002512
## 41474  2.31e-05 0.003770
## 39222  7.72e-05 0.001953
## 35350  4.19e-04 0.003212
## 48318  1.23e-05 0.001438
## 39268  5.27e-05 0.001344
## 112741 2.92e-05 0.001319
## 59289  5.83e-04 0.002248
## 122007 7.42e-05 0.002893
## 96372  2.90e-04 0.003310
## 14598  4.22e-04 0.001591
## 65819  2.89e-04 0.003352
## 79695  1.02e-04 0.004246
## 106250 3.47e-04 0.001541
## 38570  1.25e-04 0.004892
## 33607  6.28e-04 0.004378
## 48304  1.92e-06 0.001430
## 20104  1.68e-05 0.003200
## 19227  2.39e-04 0.000613   *
## 126984 5.26e-04 0.004327
```

```
## 3777   3.13e-05 0.002781
## 94613  2.20e-05 0.001902
## 75702  1.24e-06 0.001837
## 42903  2.57e-04 0.003551
## 12617  2.06e-06 0.003017
## 16800  3.15e-04 0.002506
## 80273  2.18e-05 0.002516
## 27860  2.20e-05 0.001096
## 37859  1.59e-04 0.002345
## 65144  2.91e-04 0.001081
## 107608 8.44e-05 0.003489
## 1680   1.60e-03 0.004586
## 127935 2.72e-05 0.002148
## 7231   6.10e-06 0.002216
## 65966  2.37e-05 0.000942
## 55764  4.35e-04 0.003040
## 22023  4.54e-05 0.001128
## 43214  4.16e-04 0.001542
## 11924  1.36e-04 0.003322
## 56750  6.09e-05 0.001812
## 83171  5.89e-05 0.001809
## 109524 4.87e-05 0.001437
## 110468 1.68e-04 0.002373
## 45121  5.03e-04 0.002175
## 38475  1.71e-04 0.002229
## 64374  5.08e-06 0.001456
## 26248  6.45e-05 0.001912
## 36206  2.27e-05 0.002011
## 113193 3.42e-04 0.001548
## 100500 7.31e-05 0.001977
## 46515  9.41e-05 0.001878
## 113380 2.10e-05 0.000953
## 85531  2.70e-04 0.003488
## 72383  9.01e-06 0.000975
## 64685  8.49e-05 0.003896
## 14905  1.56e-05 0.009729   *
## 17582  3.52e-05 0.001858
## 13149  9.68e-05 0.004107
## 26864  1.54e-04 0.002086
## 92468  3.79e-04 0.002302
## 82919  4.91e-04 0.001275   *
## 9317   1.40e-03 0.003207
## 26441  1.11e-05 0.001138
## 101258 1.58e-06 0.001133
## 119520 6.45e-05 0.001785
## 128292 8.35e-05 0.001471
## 98917  8.25e-06 0.001043
## 89878  2.90e-05 0.001130
## 99519  1.22e-05 0.001144
## 79193  2.78e-05 0.001316
## 36179  3.17e-04 0.001231
## 34869  1.80e-04 0.002401
## 120880 5.48e-05 0.001490
## 3945   1.02e-03 0.002278   *
## 25612  2.06e-05 0.001012
## 62555  4.39e-04 0.001512
## 96499  3.73e-05 0.001653
## 68907  6.04e-04 0.003042
## 44865  2.96e-05 0.002560
## 107885 1.85e-04 0.002049
## 65539  5.73e-04 0.001835
## 22135  1.98e-04 0.003130
## 63814  7.20e-06 0.000899
## 7925   4.35e-05 0.003625
## 127120 4.54e-05 0.001523
## 48872  1.53e-06 0.001440
## 59892  3.28e-04 0.004137
## 47432  7.75e-04 0.002396
## 107597 8.08e-06 0.001118
## 49679  2.82e-05 0.001571
## 130572 5.65e-05 0.001592
## 11505  1.25e-03 0.004685
## 64104  3.56e-06 0.001287
## 123942 3.87e-04 0.003467
## 102586 9.79e-05 0.001618
## 10559  1.26e-03 0.003524
## 54649  7.69e-05 0.002395
## 99210  5.03e-05 0.002574
## 117791 1.43e-06 0.001269
## 69785  7.53e-05 0.001916
## 78677  2.74e-05 0.002223
## 2689   1.32e-03 0.005009
## 62956  9.45e-05 0.002496
## 93611  2.67e-05 0.001118
## 105004 1.37e-05 0.002272
## 61827  3.36e-05 0.002427
## 93612  2.28e-05 0.001209
## 49949  2.42e-05 0.001967
## 106706 6.32e-05 0.001643
## 23244  5.64e-05 0.002111
## 95078  3.31e-04 0.003847
## 12488  3.19e-06 0.002253
## 97480  5.84e-05 0.001607
## 69308  3.62e-05 0.000926
## 1194   2.74e-04 0.006566   *
## 117305 3.73e-05 0.001815
## 22230  2.21e-04 0.002797
## 105510 1.31e-06 0.001365
```

```
## 61030  3.22e-04 0.001494
## 646    2.64e-05 0.003056
## 80191  2.38e-04 0.001765
## 90750  5.41e-06 0.001042
## 72330  3.62e-05 0.001422
## 6322   9.55e-08 0.003652
## 121358 1.38e-05 0.001483
## 75067  7.81e-07 0.001558
## 104859 5.14e-05 0.001433
## 105910 3.16e-04 0.001190
## 114469 1.19e-04 0.001960
## 61677  3.79e-05 0.001505
## 98245  2.62e-04 0.002317
## 93588  3.23e-05 0.001795
## 101308 8.94e-04 0.004237
## 54083  3.45e-05 0.001356
## 98715  5.44e-04 0.002530
## 100759 1.09e-05 0.001153
## 86953  7.24e-05 0.002993
## 25451  7.66e-05 0.002911
## 39733  7.76e-05 0.002546
## 47439  6.96e-05 0.002385
## 125939 8.28e-04 0.002656
## 26789  3.57e-04 0.001530
## 16045  4.01e-04 0.001401
## 87267  5.63e-05 0.002107
## 85045  5.68e-05 0.003131
## 105502 3.60e-05 0.001767
## 49563  7.73e-06 0.002624
## 61074  5.36e-04 0.002172
## 8440   2.18e-04 0.004385
## 64892  6.96e-04 0.003521
## 74319  1.23e-04 0.001951
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## 45636  5.88e-04 0.004272
## 89683  2.32e-04 0.004251
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## 55909  6.66e-05 0.001886
## 66239  1.11e-03 0.004744
## 48956  1.68e-04 0.002465
## 52861  5.66e-04 0.002889
## 27165  5.38e-05 0.001701
## 64090  7.92e-04 0.004907
## 102990 5.59e-05 0.002415
## 103996 3.69e-05 0.001647
## 69887  8.27e-05 0.007804   *
## 47301  2.01e-04 0.002501
## 69230  1.49e-05 0.001774
## 43126  2.88e-05 0.001948
## 33570  3.18e-04 0.003843
## 28919  4.01e-04 0.004619
## 56683  2.54e-05 0.001080
## 25635  7.81e-04 0.003143
## 102788 1.00e-05 0.001027
## 42153  2.71e-05 0.001309
## 65758  2.37e-05 0.002151
## 127024 7.08e-04 0.002631
## 73627  6.94e-04 0.001906
## 23833  2.79e-04 0.002545
## 98196  1.97e-05 0.001356
## 65693  1.83e-05 0.001369
## 79629  2.93e-05 0.001382
## 87435  5.90e-04 0.003081
## 26406  4.79e-05 0.001807
## 44833  3.23e-05 0.001473
## 51192  4.81e-04 0.001304
## 69914  1.06e-04 0.001803
## 9113   1.19e-03 0.004195
## 12498  1.39e-03 0.002663   *
## 42604  3.98e-05 0.002388
## 98375  7.67e-06 0.002433
## 127598 3.47e-05 0.002449
## 55948  3.96e-04 0.001206
## 106752 4.04e-05 0.001172
## 103776 5.63e-05 0.001288
## 84445  9.17e-06 0.001399
## 113137 1.39e-04 0.001924
## 18808  2.34e-05 0.001073
## 80573  2.72e-05 0.001059
## 80964  5.85e-05 0.001352
## 114299 3.09e-06 0.001423
## 84673  5.19e-05 0.001388
## 69849  4.47e-05 0.003697
## 30346  7.19e-06 0.000972
## 110406 4.78e-04 0.001223   *
## 115270 4.64e-05 0.001377
## 70810  4.45e-05 0.001707
## 87713  8.69e-06 0.001400
## 11923  7.90e-04 0.003758
## 47367  7.10e-05 0.002083
## 18815  1.20e-03 0.004802
## 65997  5.46e-07 0.001671
## 40266  9.42e-05 0.001930
## 11065  2.83e-06 0.002650
```

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## 97605  1.91e-06 0.001021
## 116089 2.70e-05 0.001034
## 119379 1.45e-05 0.001265
## 58213  6.42e-04 0.001533   *
## 90153  6.57e-05 0.001800
## 11863  8.88e-05 0.003194
## 38480  7.67e-05 0.002760
## 13376  7.84e-05 0.003047
## 6296   5.93e-06 0.002841
## 3621   3.00e-05 0.003517
## 83905  5.86e-05 0.002115
## 13679  7.02e-05 0.003538
## 70158  3.76e-04 0.002194
## 106881 1.34e-04 0.002115
## 17986  4.09e-04 0.001480
## 127768 5.27e-06 0.002417
## 116420 5.26e-04 0.001888
## 29491  6.02e-07 0.001868
## 16722  5.12e-04 0.003298
## 57778  6.85e-05 0.001895
## 120906 8.26e-06 0.001698
## 58441  7.81e-08 0.002643
## 38727  1.10e-05 0.000962
## 106943 3.65e-05 0.001677
## 65658  3.66e-04 0.001463
## 49559  7.08e-06 0.000762
## 127459 1.09e-04 0.002232
## 56222  1.25e-04 0.003227
## 68645  6.26e-05 0.001631
## 115735 3.66e-05 0.001397
## 128594 2.31e-05 0.001384
## 21526  7.46e-06 0.001277
## 71520  1.09e-05 0.001870
## 85892  2.15e-05 0.000947
## 92135  4.14e-04 0.001220
## 107818 2.13e-06 0.004904   *
## 124488 4.35e-04 0.003298
## 57213  1.90e-04 0.002109
## 123230 1.58e-04 0.002385
## 103866 6.57e-05 0.003825
## 111461 4.19e-04 0.001071   *
## 108702 7.12e-04 0.001965
## 56067  3.72e-04 0.002191
## 69070  1.74e-04 0.001729
## 72808  1.12e-05 0.001766
## 97857  2.64e-05 0.001173
## 20842  4.53e-05 0.005371   *
## 66851  2.09e-04 0.004780
## 62179  7.54e-05 0.001756
## 58179  2.30e-05 0.001655
## 39998  3.36e-05 0.002298
## 117751 1.26e-04 0.002019
## 1108   5.86e-06 0.034587   *
## 46886  6.35e-04 0.002071
## 34764  5.85e-04 0.003355
## 35439  8.17e-06 0.000888
## 2245   6.25e-08 0.002896
## 130344 4.27e-05 0.001928
## 65985  5.33e-04 0.002875
## 62170  3.66e-04 0.001443
## 41341  5.07e-06 0.000626
## 124792 3.81e-04 0.001914
## 58487  1.57e-05 0.001413
## 82879  2.22e-04 0.002055
## 6650   2.59e-04 0.003500
## 25556  3.33e-04 0.003190
## 3433   7.07e-06 0.002694
## 2171   1.60e-04 0.003621
## 56386  2.02e-04 0.002180
## 11431  1.93e-04 0.004061
## 30155  1.98e-04 0.003370
## 2783   8.16e-05 0.003340
## 73730  1.70e-05 0.001447
## 95928  1.98e-05 0.002216
## 8340   1.15e-03 0.003308
## 64657  1.17e-04 0.002004
## 71580  5.13e-04 0.001272   *
## 92222  1.70e-03 0.018219   *
## 26635  7.90e-04 0.002992
## 15186  1.88e-05 0.001755
## 5266   1.61e-04 0.004902
## 79857  5.97e-05 0.002289
## 43117  8.22e-05 0.002522
## 90394  4.69e-05 0.001563
## 122567 5.48e-04 0.001317   *
## 121674 7.26e-06 0.003053
## 6168   8.96e-07 0.002942
## 15925  1.41e-04 0.004680
## 45823  3.84e-04 0.002061
## 17426  3.47e-04 0.001615
## 31906  5.19e-04 0.001970
## 7980   7.98e-05 0.003372
## 49900  1.56e-06 0.001232
## 13104  6.66e-08 0.004864   *
## 66338  4.40e-04 0.002618
## 21291  3.34e-05 0.001220
## 93961  4.63e-07 0.001164
## 118629 3.42e-04 0.001280
```

```
## 20678  3.78e-05 0.001923
## 24527  2.28e-04 0.003905
## 19273  4.82e-04 0.001436
## 129030 5.20e-05 0.002000
## 74061  9.22e-06 0.001312
## 64727  9.75e-06 0.000960
## 65368  3.97e-04 0.002687
## 63181  1.32e-05 0.001555
## 43216  5.71e-04 0.002162
## 31174  3.39e-05 0.002577
## 75953  3.34e-05 0.002243
## 66548  1.93e-06 0.001206
## 113906 1.15e-03 0.002614   *
## 20590  1.86e-04 0.003055
## 44445  6.73e-04 0.001665   *
## 36151  4.19e-05 0.001706
## 32647  5.25e-04 0.002895
## 49315  5.84e-04 0.001248   *
## 48105  1.62e-05 0.001368
## 39610  1.81e-06 0.001037
## 63284  1.85e-05 0.001570
## 118868 1.18e-05 0.001387
## 63250  4.92e-04 0.001319
## 120629 7.72e-04 0.002057
## 24826  5.93e-04 0.002238
## 87571  1.65e-06 0.001898
## 104239 4.31e-05 0.000986
## 33966  3.54e-05 0.001284
## 80783  2.01e-05 0.001768
## 63317  3.43e-06 0.001252
## 28462  1.06e-04 0.005737   *
## 104864 1.93e-05 0.000923
## 79627  6.88e-06 0.000975
## 67979  2.76e-06 0.001388
## 81320  2.86e-04 0.001070
## 70607  8.09e-05 0.001944
## 2835   5.41e-05 0.003218
## 24301  1.59e-05 0.000973
## 115911 7.42e-05 0.002305
## 102    5.65e-05 0.004109
## 99656  9.63e-06 0.001256
## 88342  4.03e-05 0.002769
## 108860 1.38e-04 0.002966
## 86270  1.17e-02 0.020075   *
## 55935  5.54e-04 0.002782
## 6723   4.29e-04 0.006364
## 119924 4.44e-04 0.001396
## 129715 9.50e-05 0.003046
## 120219 4.63e-05 0.001703
## 20874  3.15e-05 0.002140
## 63775  7.41e-05 0.001772
## 29265  1.16e-04 0.001905
## 74016  7.43e-04 0.003619
## 118319 4.82e-05 0.001205
## 13927  6.46e-05 0.003438
## 79232  3.75e-05 0.001783
## 98013  4.63e-04 0.002495
## 112407 9.39e-04 0.003673
## 129979 5.59e-04 0.002306
## 75151  5.94e-04 0.001353   *
## 10079  6.53e-08 0.002880
## 42140  2.06e-05 0.001143
## 51389  8.75e-04 0.002618
## 31858  2.07e-05 0.000814
## 13534  5.68e-06 0.002707
## 129029 1.03e-04 0.004362
## 48482  2.81e-05 0.001742
## 97084  5.60e-05 0.002295
## 35585  6.95e-05 0.002543
## 2206   2.13e-05 0.003013
## 96704  1.86e-03 0.004838   *
## 74766  2.35e-05 0.002261
## 8454   1.07e-03 0.004920
## 13353  2.87e-04 0.003866
## 60727  2.18e-04 0.002710
## 122471 2.41e-04 0.000613   *
## 122885 2.99e-05 0.001267
## 35770  6.78e-05 0.001975
## 8174   2.88e-06 0.002602
## 36559  1.22e-05 0.001263
## 88516  6.81e-06 0.000813
## 7690   1.56e-03 0.004776
## 11287  6.81e-05 0.009258   *
## 22007  4.35e-04 0.001696
## 57327  7.63e-06 0.001204
## 108110 3.65e-04 0.002922
## 125798 6.53e-04 0.003166
## 38450  3.55e-04 0.000937   *
## 46195  1.72e-04 0.003580
## 10452  1.17e-03 0.003047
## 120060 2.45e-05 0.001729
## 88394  5.39e-04 0.002807
## 62071  3.67e-04 0.004855
## 87541  2.77e-05 0.002226
## 105388 4.78e-04 0.003231
## 88269  4.28e-04 0.001245
## 47908  5.35e-04 0.002708
## 63341  4.54e-05 0.002077
```

```
## 18376  4.87e-05 0.008962   *
## 42191  1.04e-04 0.002163
## 73678  7.18e-06 0.001025
## 120261 1.59e-05 0.001796
## 56640  3.22e-05 0.000874
## 40342  7.96e-05 0.002557
## 120837 1.34e-03 0.003901
## 35111  1.38e-05 0.001929
## 53879  4.14e-04 0.001574
## 48323  2.10e-04 0.004013
## 46465  1.25e-05 0.001680
## 8461   1.30e-04 0.004142
## 129466 6.58e-04 0.004213
## 42608  4.81e-04 0.002572
## 36030  7.13e-07 0.001734
## 29629  4.89e-05 0.001381
## 4506   1.88e-04 0.004707
## 111173 5.18e-04 0.001557
## 4356   5.78e-06 0.003784
## 94345  4.76e-04 0.001792
## 45290  2.59e-05 0.001012
## 12323  1.76e-05 0.002399
## 92192  2.17e-04 0.002164
## 30117  8.28e-06 0.000814
## 39283  3.49e-05 0.002176
## 94753  6.14e-05 0.002244
## 86967  8.76e-05 0.002198
## 82239  6.00e-05 0.002088
## 38782  3.35e-04 0.003930
## 93653  5.42e-06 0.002032
## 119598 3.02e-05 0.001929
## 75812  5.86e-05 0.001393
## 81204  1.99e-06 0.001350
## 66348  8.70e-05 0.003718
## 77420  1.08e-05 0.002000
## 17110  8.41e-06 0.001349
## 32042  4.92e-04 0.001185   *
## 86798  5.62e-06 0.000817
## 11593  1.04e-04 0.004878
## 86434  2.58e-05 0.001256
## 22879  1.21e-05 0.000972
## 118655 3.29e-05 0.001423
## 50652  6.53e-05 0.001869
## 36632  2.61e-04 0.002416
## 88554  3.01e-05 0.001771
## 13872  1.26e-06 0.007942   *
## 110785 8.75e-06 0.001302
## 26364  5.23e-05 0.001915
## 26487  3.89e-05 0.001038
## 80686  1.04e-05 0.000998
## 50714  4.89e-05 0.001449
## 35017  1.99e-04 0.002038
## 113766 4.36e-04 0.001390
## 43596  1.63e-06 0.001377
## 2356   2.75e-04 0.005612
## 46226  4.14e-05 0.001315
## 33125  2.61e-05 0.002303
## 7435   1.76e-03 0.005399
## 16764  3.04e-05 0.001128
## 95473  5.76e-04 0.001828
## 70120  2.42e-05 0.000981
## 45964  8.16e-05 0.002062
## 10088  1.53e-07 0.003130
## 63643  8.52e-04 0.003222
## 39478  8.36e-05 0.002404
## 5301   7.23e-05 0.002983
## 60321  3.81e-04 0.003257
## 3761   2.75e-07 0.002902
## 41575  2.08e-05 0.001068
## 83901  2.55e-04 0.002811
## 43879  6.97e-04 0.003692
## 95763  3.22e-05 0.001570
## 25713  4.69e-04 0.002802
## 107618 5.36e-04 0.006168
## 43471  7.87e-05 0.002983
## 73036  1.18e-04 0.002543
## 14687  2.60e-05 0.000950
## 99954  8.65e-05 0.001918
## 83199  2.65e-05 0.001245
## 99611  3.17e-05 0.002461
## 83380  4.91e-04 0.002636
## 86291  3.40e-05 0.001365
## 25734  5.86e-04 0.002089
## 21688  1.50e-06 0.001271
## 31549  9.67e-04 0.003444
## 112820 8.59e-05 0.001293
## 112422 1.81e-04 0.001923
## 47631  4.69e-04 0.002944
## 128246 5.78e-05 0.002180
## 8719   4.10e-06 0.002159
## 87020  5.99e-05 0.001416
## 54772  7.35e-06 0.002305
## 76233  6.21e-05 0.001784
## 51003  4.77e-05 0.001641
## 14775  5.81e-05 0.002437
## 6631   1.18e-03 0.002938
## 61058  3.21e-05 0.001219
## 37848  2.07e-05 0.001189
```

```
## 46442  3.47e-05 0.001872
## 123224 1.40e-05 0.002026
## 31064  7.34e-05 0.001633
## 117949 4.24e-05 0.001042
## 117700 1.49e-05 0.001361
## 2836   1.55e-04 0.005103
## 117840 2.08e-05 0.001063
## 4749   2.31e-05 0.002443
## 66120  1.77e-06 0.001303
## 21465  8.94e-06 0.000905
## 102982 4.17e-05 0.002708
## 106472 2.47e-05 0.001413
## 50817  1.09e-05 0.001347
## 55739  5.13e-05 0.001434
## 54881  9.74e-05 0.011455   *
## 34136  4.32e-04 0.002375
## 64214  3.40e-05 0.001841
## 96671  1.48e-06 0.001355
## 127659 5.68e-04 0.002413
## 83227  2.73e-05 0.002178
## 14149  2.05e-05 0.000948
## 77983  2.38e-05 0.001065
## 32941  1.20e-04 0.003135
## 50037  1.14e-05 0.001083
## 130438 2.19e-03 0.007518   *
## 53372  1.30e-05 0.001964
## 33582  1.24e-05 0.001641
## 72164  3.28e-04 0.001153
## 65552  1.40e-04 0.003419
## 101609 5.98e-05 0.001476
## 939    1.91e-04 0.005753   *
## 69029  1.01e-04 0.002469
## 24890  1.51e-04 0.001499
## 107667 4.85e-05 0.001157
## 89201  1.19e-03 0.003442
## 62668  4.98e-05 0.001316
## 124976 6.58e-04 0.002449
## 86832  1.80e-05 0.002408
## 58796  9.47e-06 0.001280
## 120613 8.15e-06 0.000783
## 86007  8.70e-06 0.001016
## 128866 6.43e-04 0.001781
## 35675  2.31e-06 0.001739
## 76795  3.43e-05 0.001558
## 14355  5.69e-05 0.001652
## 99914  3.47e-04 0.003510
## 74949  4.77e-05 0.001862
## 115112 3.43e-05 0.001586
## 105882 3.48e-04 0.001314
## 112047 4.38e-04 0.002202
## 72644  7.74e-05 0.004422
## 51628  4.82e-04 0.001519
## 75967  1.10e-03 0.003370
## 68231  2.18e-05 0.001057
## 64961  7.46e-04 0.005414
## 5396   1.91e-05 0.002957
## 28792  9.38e-06 0.001473
## 95767  1.59e-04 0.001561
## 92501  3.85e-05 0.001879
## 71678  1.76e-06 0.002174
## 11944  2.79e-06 0.003883
## 49800  1.32e-04 0.001931
## 75386  1.91e-05 0.001949
## 37883  6.17e-06 0.000914
## 92652  7.16e-05 0.002529
## 85128  3.07e-04 0.001058
## 113570 1.40e-05 0.001627
## 34255  1.67e-04 0.005963   *
## 10832  3.77e-05 0.003028
## 25956  5.27e-04 0.001884
## 111580 7.45e-04 0.001923
## 71735  6.99e-05 0.002650
## 9345   7.79e-04 0.005760
## 17490  1.01e-04 0.003362
## 49613  3.97e-05 0.001984
## 90804  6.38e-04 0.005098
## 10684  2.88e-05 0.003025
## 32531  4.97e-05 0.001361
## 2065   2.87e-05 0.002927
## 63234  1.29e-05 0.002320
## 84226  1.49e-05 0.001337
## 130496 4.71e-04 0.001551
## 115684 5.35e-04 0.002640
## 109958 2.87e-04 0.002883
## 55537  5.72e-04 0.002013
## 1679   3.06e-06 0.002976
## 11054  4.76e-06 0.002356
## 43920  6.69e-04 0.001751
## 85557  3.72e-05 0.001434
## 13731  1.19e-04 0.002864
## 85780  3.67e-05 0.002299
## 50957  4.16e-04 0.001745
## 75621  1.17e-05 0.001321
## 108884 6.67e-05 0.001573
## 71565  3.96e-05 0.002236
## 94951  8.34e-05 0.002087
## 6766   2.54e-05 0.003405
## 130093 2.31e-05 0.001643
```

```
## 3611   2.87e-06 0.003711
## 64098  3.35e-04 0.004162
## 24103  6.22e-05 0.001454
## 72802  5.87e-06 0.000951
## 21191  4.28e-05 0.002657
## 27439  7.33e-04 0.003948
## 10950  3.00e-05 0.003225
## 114728 1.31e-05 0.001487
## 97727  5.29e-05 0.002164
## 43653  5.45e-04 0.001359   *
## 116916 1.10e-05 0.001631
## 65485  4.46e-04 0.002011
## 76017  6.97e-05 0.002192
## 90479  7.16e-05 0.002719
## 32263  6.10e-04 0.002001
## 47943  3.25e-04 0.003691
## 101495 4.39e-05 0.001742
## 20806  1.03e-04 0.001819
## 33017  5.13e-05 0.002089
## 32871  6.39e-05 0.002672
## 83640  3.29e-04 0.003861
## 111818 9.52e-05 0.001443
## 48313  8.57e-04 0.002900
## 128669 2.55e-05 0.001920
## 123335 4.06e-04 0.004802
## 28813  4.16e-05 0.002743
## 64999  2.22e-05 0.001299
## 102417 7.77e-06 0.001618
## 107481 2.99e-05 0.001946
## 122350 3.27e-05 0.001778
## 109840 5.45e-05 0.001635
## 88421  1.15e-04 0.002670
## 1360   7.06e-05 0.003334
## 73951  3.23e-04 0.001409
## 104381 4.71e-04 0.001999
## 26130  5.55e-04 0.001921
## 65124  4.55e-04 0.003817
## 113576 5.05e-04 0.001864
## 88169  9.34e-04 0.005506
## 32805  9.82e-05 0.001511
## 1752   1.98e-08 0.002873
## 6426   1.96e-05 0.003299
## 8187   1.72e-05 0.003003
## 64573  3.46e-04 0.002617
## 72623  1.55e-05 0.001204
## 32742  7.31e-04 0.001558   *
## 20377  1.21e-05 0.001872
## 32231  3.80e-05 0.001042
## 70437  6.35e-04 0.002901
## 86838  4.43e-05 0.001088
## 114121 7.52e-06 0.001516
## 56644  1.76e-04 0.003633
## 73060  6.49e-04 0.002505
## 87080  1.57e-05 0.000810
## 45215  7.08e-04 0.004595
## 41866  1.99e-05 0.000958
## 46191  1.72e-05 0.000818
## 28863  6.63e-06 0.000966
## 79643  1.12e-04 0.003706
## 23658  1.22e-05 0.001576
## 17006  3.17e-05 0.001668
## 114136 5.70e-05 0.001604
## 14536  2.38e-05 0.001056
## 11699  8.24e-04 0.003699
## 81711  2.73e-04 0.003666
## 50370  2.34e-05 0.001268
## 51616  1.50e-04 0.002120
## 107184 6.90e-06 0.001377
## 44926  4.35e-05 0.004337
## 79012  5.74e-05 0.001298
## 14828  4.32e-04 0.005053
## 91276  2.79e-05 0.001690
## 61112  1.40e-04 0.002856
## 34735  4.43e-04 0.001710
## 102204 3.34e-05 0.001722
## 43994  4.84e-04 0.001255   *
## 74974  1.79e-04 0.003801
## 98170  3.84e-04 0.002758
## 57901  3.73e-05 0.001866
## 103556 3.20e-04 0.004061
## 4680   6.79e-05 0.003938
## 85401  1.08e-04 0.002454
## 95865  3.31e-05 0.002096
## 98627  3.96e-05 0.001129
## 98302  2.76e-05 0.001679
## 75791  3.97e-04 0.001398
## 54234  1.67e-05 0.001547
## 51989  3.02e-05 0.001563
## 29698  4.29e-04 0.001154
## 122086 2.09e-04 0.002624
## 35612  1.02e-04 0.003020
## 24150  4.60e-06 0.001724
## 60691  4.70e-04 0.001375
## 17695  7.57e-05 0.001728
## 27524  1.74e-05 0.001023
## 107679 4.99e-04 0.088384   *
## 4314   2.37e-04 0.005585
## 96292  2.09e-05 0.001120
```

```
## 52750  7.29e-05 0.010181   *
## 63445  4.34e-04 0.001281
## 62369  3.50e-05 0.001503
## 41524  1.14e-05 0.001591
## 130475 4.07e-04 0.003278
## 56246  2.79e-05 0.001414
## 6500   1.69e-06 0.003266
## 48978  6.90e-05 0.001183
## 114701 8.43e-06 0.001694
## 95151  2.66e-05 0.002372
## 53685  1.37e-05 0.001784
## 128501 4.95e-04 0.001368
## 111498 7.09e-04 0.004676
## 124573 4.08e-06 0.002139
## 64498  4.58e-04 0.001134   *
## 8362   1.22e-04 0.003686
## 46245  8.14e-05 0.001933
## 40211  6.97e-06 0.002347
## 102706 3.55e-04 0.003050
## 62703  5.43e-05 0.001243
## 26767  3.41e-04 0.001115
## 66264  2.27e-05 0.001102
## 8530   1.74e-05 0.003000
## 42621  6.67e-05 0.001764
## 24753  7.54e-06 0.001377
## 62400  1.03e-05 0.001202
## 42853  1.59e-04 0.003510
## 21849  2.68e-04 0.001300
## 127574 2.79e-04 0.002519
## 64094  2.11e-04 0.002209
## 83530  2.09e-05 0.001002
## 86926  1.81e-05 0.001658
## 127886 3.63e-05 0.002044
## 53666  4.66e-06 0.001439
## 113063 8.27e-05 0.001503
## 93356  2.70e-04 0.003836
## 93824  1.73e-04 0.002195
## 125129 1.01e-05 0.002364
## 6906   1.04e-05 0.003158
## 22041  2.56e-05 0.000966
## 55340  3.63e-05 0.001634
## 57304  7.85e-05 0.003885
## 121518 1.83e-05 0.001729
## 88626  4.50e-04 0.003432
## 48747  2.26e-05 0.001123
## 83772  2.78e-04 0.001724
## 63894  7.36e-04 0.003516
## 119403 8.06e-04 0.003666
## 48765  2.17e-05 0.000931
## 91249  2.71e-05 0.001243
## 42075  1.72e-05 0.001809
## 63853  4.20e-06 0.003210
## 73878  1.17e-05 0.001269
## 62699  5.00e-07 0.001461
## 69435  5.11e-04 0.002398
## 6722   1.88e-04 0.004422
## 90684  6.86e-04 0.002508
## 108800 6.82e-04 0.002193
## 114609 1.66e-05 0.002010
## 18802  7.98e-06 0.000910
## 111852 1.21e-04 0.001892
## 18427  5.30e-04 0.002899
## 78451  3.25e-05 0.001500
## 24581  2.67e-05 0.001151
## 118516 3.34e-05 0.001678
## 28350  8.12e-06 0.001316
## 90451  3.51e-04 0.003144
## 22146  4.30e-04 0.002627
## 31721  2.62e-04 0.002271
## 21965  4.82e-04 0.003183
## 8886   2.42e-05 0.003227
## 19869  5.74e-05 0.002047
## 160    2.40e-04 0.004371
## 76245  2.37e-05 0.000965
## 43546  6.44e-06 0.001596
## 103999 6.79e-04 0.004031
## 34430  1.33e-04 0.003988
## 75035  6.94e-06 0.000690
## 33448  4.55e-04 0.004675
## 62323  9.16e-04 0.003415
## 107965 7.56e-05 0.003185
## 98935  8.44e-06 0.001307
## 57636  4.12e-04 0.001192
## 85547  2.20e-04 0.002796
## 126334 2.08e-04 0.002733
## 89251  1.40e-06 0.001842
## 68117  1.74e-05 0.001418
## 122044 3.70e-05 0.001874
## 129425 1.25e-04 0.003048
## 17732  3.24e-05 0.001598
## 36781  9.79e-04 0.003294
## 103832 2.55e-06 0.001139
## 9369   1.39e-04 0.003003
## 58000  2.35e-04 0.003008
## 11364  2.02e-05 0.002931
## 50576  1.12e-03 0.003721
## 96274  2.03e-07 0.001648
## 57608  9.98e-06 0.001318
```

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## 71509  6.37e-05 0.001504
## 19788  2.56e-04 0.002658
## 91376  2.03e-05 0.000998
## 57808  1.21e-03 0.003375
## 37743  2.94e-05 0.001352
## 91919  7.30e-06 0.001319
## 53737  4.70e-04 0.001640
## 70199  5.01e-04 0.002646
## 76511  9.95e-04 0.002575
## 24265  9.26e-06 0.001361
## 55505  2.37e-04 0.003266
## 74936  6.93e-06 0.001036
## 44824  2.89e-06 0.001131
## 105172 1.73e-05 0.001310
## 18230  4.81e-04 0.002029
## 102311 2.15e-04 0.002180
## 48821  4.02e-04 0.001495
## 56283  8.55e-06 0.001173
## 12862  2.52e-04 0.003595
## 32257  1.27e-04 0.003576
## 5840   2.55e-04 0.006073   *
## 67837  7.98e-06 0.000985
## 67488  2.51e-05 0.002117
## 56880  3.10e-04 0.002538
## 36990  1.32e-04 0.002393
## 74266  1.67e-05 0.002053
## 26178  3.16e-05 0.001983
## 95236  3.70e-04 0.002428
## 116390 4.54e-04 0.001795
## 40426  7.13e-05 0.001793
## 2716   1.30e-05 0.003475
## 49082  5.21e-04 0.001982
## 32081  1.35e-05 0.001836
## 46005  2.42e-04 0.004731
## 97134  5.78e-04 0.001666
## 7449   6.33e-05 0.003044
## 81248  2.84e-04 0.003368
## 126727 1.25e-04 0.004343
## 103815 5.03e-04 0.005485
## 72199  1.87e-04 0.003183
## 78748  7.26e-04 0.002745
## 89279  7.82e-05 0.002553
## 98200  2.49e-04 0.002927
## 6092   2.14e-05 0.002608
## 41389  1.60e-04 0.004104
## 64286  7.42e-04 0.001789   *
## 94253  3.88e-04 0.003114
## 92002  5.73e-05 0.001729
## 127707 2.24e-05 0.002186
## 37480  8.57e-04 0.003256
## 66425  2.83e-05 0.001519
## 129953 4.41e-04 0.002633
## 2188   1.40e-04 0.006113   *
## 73148  5.58e-05 0.001749
## 46701  2.86e-05 0.001151
## 25865  3.95e-04 0.001310
## 26623  2.75e-05 0.001184
## 25756  2.68e-05 0.001466
## 68512  4.77e-04 0.002605
## 38522  5.15e-04 0.005798
## 52893  5.72e-04 0.002311
## 69143  2.67e-05 0.001356
## 120062 3.46e-05 0.002037
## 73750  9.37e-04 0.003925
## 94927  1.84e-05 0.000960
## 92510  2.47e-06 0.002709
## 70218  1.08e-03 0.004566
## 62794  2.82e-05 0.002086
## 48611  1.02e-05 0.001048
## 16772  3.25e-04 0.000945
## 40016  6.22e-04 0.001536   *
## 87309  8.96e-04 0.002653
## 82849  7.08e-05 0.001976
## 62044  4.37e-05 0.002635
## 60045  2.26e-04 0.002119
## 30200  2.23e-05 0.000926
## 15884  1.47e-05 0.003322
## 83965  6.11e-05 0.002292
## 117975 2.53e-05 0.002156
## 1558   1.05e-04 0.003536
## 110684 2.25e-04 0.002135
## 25174  4.14e-04 0.002585
## 117329 1.16e-04 0.001979
## 126458 3.21e-04 0.002199
## 13387  1.36e-04 0.003465
## 6312   1.30e-05 0.003110
## 6127   2.62e-06 0.003609
## 27641  4.23e-05 0.001844
## 37470  3.49e-05 0.001713
## 126109 2.62e-05 0.002151
## 72624  3.80e-04 0.001845
## 68808  1.11e-05 0.001783
## 118805 9.93e-06 0.001296
## 54595  4.36e-04 0.001591
## 52562  5.76e-04 0.002057
## 26664  1.03e-03 0.003798
## 12851  2.21e-05 0.002850
## 20572  1.47e-04 0.002086
```

```
## 102928 7.53e-05 0.002204
## 87876  6.72e-04 0.002462
## 84944  1.26e-05 0.001550
## 37467  6.86e-06 0.001117
## 96685  4.71e-06 0.001860
## 11932  5.27e-05 0.002554
## 69962  6.22e-05 0.001556
## 99961  3.11e-05 0.001155
## 43892  6.31e-06 0.001098
## 97078  8.64e-06 0.001087
## 123931 9.75e-06 0.002547
## 34485  3.48e-06 0.001165
## 75232  1.56e-04 0.002014
## 88864  5.38e-04 0.002351
## 84368  9.02e-05 0.001506
## 65061  5.08e-05 0.001510
## 121976 1.47e-04 0.001484
## 51826  2.31e-04 0.002775
## 120795 1.13e-05 0.001109
## 130126 7.12e-04 0.002630
## 40903  1.14e-05 0.001499
## 130066 1.60e-04 0.003733
## 106568 4.02e-05 0.001135
## 78116  6.61e-04 0.002775
## 130068 2.10e-05 0.001459
## 34397  7.13e-05 0.002725
## 34437  8.12e-05 0.001879
## 83311  5.58e-05 0.001155
## 124141 1.62e-04 0.004442
## 56522  4.59e-05 0.001626
## 5466   4.84e-05 0.003204
## 55849  1.03e-03 0.002463
## 85758  1.57e-05 0.002059
## 3973   5.57e-05 0.002479
## 97798  1.01e-04 0.002556
## 115334 5.93e-05 0.001553
## 109147 6.80e-05 0.001958
## 69740  1.60e-05 0.001621
## 80728  1.07e-05 0.001680
## 68750  3.19e-04 0.002827
## 3103   8.85e-04 0.002691
## 27948  4.91e-05 0.001338
## 43439  6.82e-07 0.002325
## 120550 3.58e-05 0.001746
## 13598  1.41e-03 0.003320
## 17927  4.91e-05 0.001471
## 94698  6.60e-05 0.002658
## 120163 6.81e-06 0.000978
## 115188 5.83e-05 0.001256
## 119009 1.88e-05 0.001863
## 21934  2.01e-04 0.002616
## 128103 4.83e-05 0.002559
## 24346  1.00e-03 0.036733   *
## 61683  6.46e-04 0.002108
## 77860  1.44e-04 0.002804
## 85022  1.07e-05 0.002139
## 121655 3.56e-05 0.003202
## 54150  1.21e-05 0.001862
## 60859  2.05e-04 0.004310
## 5851   6.51e-05 0.003056
## 92013  6.77e-05 0.002832
## 122519 7.19e-05 0.002081
## 79479  3.89e-05 0.001444
## 70987  1.00e-04 0.002670
## 65907  1.86e-03 0.004658   *
## 26918  4.36e-05 0.001303
## 8617   1.06e-03 0.002308   *
## 90528  1.44e-05 0.001881
## 84045  1.97e-05 0.001012
## 49479  1.52e-05 0.001450
## 117692 1.63e-06 0.001721
## 64320  2.12e-04 0.004510
## 46240  4.63e-04 0.003213
## 121475 8.75e-06 0.001196
## 9775   3.51e-04 0.005458
## 52285  5.15e-04 0.001309   *
## 35572  1.41e-06 0.002199
## 56371  5.86e-04 0.002064
## 15085  1.61e-06 0.002849
## 31498  5.46e-04 0.001581
## 8849   7.45e-07 0.002985
## 120689 8.51e-06 0.001077
## 63268  1.06e-05 0.001326
## 40612  2.52e-05 0.001110
## 122154 9.17e-06 0.001946
## 40395  4.34e-04 0.006790   *
## 66833  1.35e-04 0.002665
## 118250 1.46e-04 0.002182
## 125187 2.76e-05 0.002565
## 12103  4.28e-05 0.003400
## 86049  6.09e-05 0.001717
## 27521  6.28e-06 0.000734
## 89838  2.62e-04 0.003428
## 98714  3.23e-05 0.002810
## 26627  6.95e-06 0.001340
## 127117 1.11e-04 0.002744
## 52108  2.50e-05 0.003019
## 25534  8.92e-06 0.000885
```

```
## 128762 6.59e-05 0.001842
## 51449  1.29e-04 0.003040
## 1284   1.18e-07 0.002674
## 55780  2.50e-04 0.002574
## 97550  1.17e-04 0.002977
## 34810  7.01e-04 0.002234
## 64440  3.44e-04 0.001027
## 50715  7.73e-06 0.001089
## 39319  2.34e-05 0.000943
## 76816  8.35e-05 0.002110
## 105844 6.18e-05 0.002140
## 12744  1.27e-03 0.003264
## 93717  3.55e-05 0.001706
## 98295  7.54e-06 0.000914
## 11956  4.09e-05 0.003902
## 33154  5.33e-05 0.001513
## 47915  1.23e-04 0.003098
## 29916  3.85e-05 0.001908
## 29099  2.88e-04 0.003450
## 13394  1.08e-04 0.003723
## 11967  2.07e-05 0.002412
## 114376 5.28e-06 0.000996
## 47198  8.30e-04 0.004353
## 165    1.84e-04 0.003682
## 76493  7.58e-04 0.002818
## 92999  2.17e-06 0.001388
## 120573 4.71e-06 0.000727
## 53912  5.42e-04 0.003045
## 93231  2.33e-04 0.008800   *
## 13159  1.21e-04 0.002750
## 125030 9.61e-06 0.002418
## 32294  2.54e-05 0.001306
## 43946  1.02e-05 0.001201
## 114050 1.74e-05 0.001651
## 72939  6.02e-06 0.000759
## 57622  8.91e-05 0.002026
## 77071  4.88e-05 0.001327
## 121830 1.47e-05 0.001522
## 90853  2.24e-05 0.000992
## 82730  8.30e-07 0.001058
## 43492  1.04e-05 0.001523
## 33060  1.96e-05 0.001470
## 128530 3.45e-05 0.001440
## 125579 3.41e-05 0.002676
## 42090  8.41e-05 0.001964
## 54245  1.14e-05 0.001527
## 82379  2.56e-04 0.002361
## 859    1.32e-04 0.003650
## 99882  1.41e-04 0.002835
## 102398 5.53e-05 0.001771
## 10035  1.17e-09 0.002661
## 42285  2.22e-05 0.002022
## 15861  8.77e-05 0.001527
## 115999 2.26e-05 0.001363
## 124647 1.63e-05 0.001424
## 16360  3.35e-05 0.002024
## 79415  2.02e-06 0.001339
## 81615  7.28e-05 0.001508
## 69472  7.63e-07 0.001661
## 59956  4.43e-04 0.001836
## 119506 7.13e-06 0.001631
## 38694  3.15e-04 0.005421
## 53546  1.03e-05 0.001605
## 80855  1.18e-05 0.001174
## 84610  4.05e-04 0.007159   *
## 44936  6.91e-06 0.000766
## 103825 6.90e-05 0.002805
## 58691  2.50e-05 0.002065
## 89877  4.89e-05 0.002019
## 19105  1.55e-04 0.008882   *
## 23273  5.45e-06 0.000727
## 116322 5.90e-04 0.001245   *
## 92194  8.08e-04 0.002233
## 36237  1.75e-05 0.002129
## 76713  1.14e-04 0.002559
## 403    1.55e-04 0.004235
## 69127  2.01e-04 0.002621
## 38788  5.53e-04 0.001593
## 91516  2.77e-05 0.001317
## 83998  1.53e-06 0.001367
## 116333 3.63e-04 0.001100
## 120884 7.31e-05 0.001675
## 7467   1.20e-04 0.004584
## 40879  1.12e-05 0.001223
## 25955  1.26e-05 0.000634
## 9276   1.30e-04 0.009846   *
## 59255  2.75e-05 0.002053
## 65488  2.15e-04 0.004191
## 60524  6.89e-06 0.001188
## 15620  6.37e-05 0.002148
## 107531 3.97e-05 0.001101
## 49648  5.42e-04 0.001876
## 46830  2.87e-05 0.001906
## 91100  9.73e-05 0.001972
## 59706  6.26e-05 0.001380
## 111331 2.94e-05 0.001378
## 68690  3.09e-04 0.003565
## 120879 4.01e-04 0.002749
```

```
## 2363   4.78e-06 0.006302   *
## 36455  4.83e-04 0.003395
## 123280 2.59e-05 0.002095
## 64637  5.66e-05 0.001685
## 104598 8.30e-06 0.002161
## 74400  7.49e-05 0.001821
## 99308  1.75e-05 0.001017
## 4068   1.28e-04 0.004112
## 17420  8.17e-06 0.001007
## 52922  1.01e-05 0.001024
## 29037  8.10e-04 0.003245
## 34209  1.77e-04 0.004276
## 63904  5.09e-04 0.002910
## 22858  4.90e-04 0.004025
## 36685  9.64e-04 0.003203
## 14296  8.03e-05 0.003347
## 128484 5.75e-04 0.002071
## 71151  8.61e-06 0.001204
## 77217  1.02e-04 0.002240
## 14023  2.59e-06 0.002408
## 98402  5.62e-06 0.002584
## 32548  2.95e-05 0.001291
## 82495  2.07e-04 0.003222
## 27938  6.58e-06 0.001826
## 61955  2.68e-05 0.001708
## 19100  2.07e-04 0.002979
## 17916  1.11e-05 0.001408
## 64805  2.09e-04 0.002268
## 74303  1.38e-04 0.002217
## 123113 1.02e-04 0.001692
## 117393 8.02e-06 0.001150
## 112981 5.00e-04 0.005168
## 31014  4.46e-04 0.001124   *
## 34504  1.17e-06 0.002250
## 124247 5.41e-05 0.002520
## 17444  2.27e-05 0.001029
## 63680  9.19e-05 0.001907
## 9591   1.13e-05 0.003221
## 122802 1.94e-05 0.001237
## 29712  1.28e-04 0.003511
## 78882  2.54e-04 0.002050
## 69363  1.55e-04 0.002141
## 85422  3.57e-05 0.002193
## 51038  5.76e-05 0.002098
## 82742  1.31e-06 0.001610
## 40533  8.42e-06 0.001851
## 91098  3.08e-05 0.002599
## 26825  3.09e-06 0.002067
## 83585  5.23e-04 0.001983
## 81216  3.12e-06 0.001264
## 29269  4.04e-04 0.001174
## 15474  2.20e-04 0.002892
## 5463   7.94e-04 0.002963
## 79135  1.31e-04 0.002577
## 72739  7.07e-05 0.001492
## 54230  1.04e-04 0.002246
## 70279  5.83e-04 0.001465   *
## 49192  1.09e-03 0.003094
## 102863 8.52e-04 0.003464
## 21687  4.78e-05 0.001511
## 92112  1.89e-05 0.001770
## 17610  8.11e-06 0.001069
## 41226  3.78e-05 0.001690
## 71817  1.94e-04 0.002832
## 83395  1.99e-05 0.001002
## 115331 2.22e-05 0.001221
## 38062  2.73e-05 0.001646
## 67372  1.66e-06 0.001272
## 92683  4.96e-04 0.002481
## 125185 5.20e-05 0.002196
## 89018  5.05e-04 0.003849
## 121755 2.85e-04 0.002372
## 5171   8.44e-04 0.003938
## 121043 2.38e-05 0.001201
## 58143  6.10e-06 0.001698
## 4081   8.87e-05 0.004373
## 30897  2.29e-05 0.001117
## 119167 4.99e-05 0.001745
## 23067  2.73e-05 0.001327
## 28015  3.50e-04 0.001004
## 77891  3.89e-04 0.005071
## 23026  2.20e-04 0.004393
## 19683  6.32e-04 0.002818
## 26855  3.89e-05 0.001998
## 69664  5.10e-04 0.002015
## 3628   1.14e-06 0.003229
## 65809  1.54e-06 0.001284
## 54775  5.29e-04 0.001939
## 68132  8.93e-06 0.001544
## 90788  4.25e-04 0.003170
## 91045  1.69e-05 0.002204
## 19024  1.04e-06 0.001189
## 87044  4.51e-05 0.002424
## 80408  4.77e-05 0.002089
## 37937  1.10e-04 0.003612
## 130531 8.55e-04 0.003654
## 1293   6.34e-05 0.003059
## 79407  7.80e-05 0.001801
```

```
## 91828  5.71e-04 0.003313
## 50096  5.74e-06 0.000707
## 88166  5.70e-04 0.002832
## 46956  2.83e-04 0.003587
## 106162 3.79e-05 0.001592
## 96430  6.06e-05 0.001356
## 86203  2.14e-05 0.001146
## 68410  2.14e-05 0.001357
## 37728  3.08e-05 0.001408
## 99339  9.00e-06 0.001453
## 87486  7.47e-06 0.001048
## 20714  9.63e-06 0.001975
## 117293 6.31e-07 0.001919
## 30503  1.49e-05 0.001171
## 28127  8.36e-05 0.007977   *
## 39299  1.60e-04 0.001585
## 98268  1.40e-05 0.001709
## 32559  1.89e-05 0.000968
## 36279  4.60e-04 0.005024
## 70385  7.17e-06 0.000794
## 17724  5.01e-06 0.001034
## 57839  3.12e-06 0.001302
## 86819  7.96e-06 0.001178
## 74635  3.83e-05 0.001980
## 123641 2.67e-04 0.002215
## 20223  4.10e-04 0.002967
## 93137  4.00e-04 0.002581
## 128752 5.87e-05 0.002534
## 46140  9.01e-05 0.004706
## 87303  7.77e-05 0.002983
## 118821 3.73e-05 0.001712
## 7982   1.75e-03 0.004297
## 129403 4.81e-04 0.004577
## 45711  7.34e-06 0.001121
## 75425  4.06e-04 0.003456
## 8039   2.79e-04 0.003829
## 118607 1.00e-04 0.004013
## 17471  5.73e-06 0.000669
## 126396 8.01e-06 0.001696
## 91784  2.53e-04 0.003850
## 69928  8.70e-04 0.002713
## 36753  1.67e-04 0.004836
## 88862  3.89e-05 0.001463
## 107747 4.56e-04 0.004391
## 64861  2.04e-04 0.003719
## 25374  7.01e-06 0.001094
## 130673 3.34e-05 0.002059
## 11489  9.59e-06 0.004712
## 67067  7.94e-05 0.005562   *
## 124808 6.22e-05 0.002393
## 59889  9.06e-05 0.002363
## 1868   2.76e-05 0.002976
## 7205   6.52e-05 0.002709
## 48326  1.30e-06 0.001448
## 41652  2.58e-06 0.001190
## 26759  1.19e-05 0.001041
## 12702  5.70e-05 0.003553
## 90846  2.07e-05 0.000966
## 12088  2.96e-04 0.003881
## 51091  7.55e-05 0.004507
## 28511  1.74e-05 0.000877
## 118681 8.39e-06 0.001149
## 44733  7.60e-04 0.001571   *
## 85670  4.92e-04 0.001735
## 113483 5.97e-04 0.001680
## 91630  1.70e-04 0.003693
## 92114  2.26e-05 0.001485
## 18794  3.54e-04 0.003435
## 93885  6.13e-07 0.002117
## 71343  1.27e-05 0.001468
## 48684  3.45e-05 0.002323
## 119592 9.11e-06 0.002265
## 70866  1.15e-04 0.009013   *
## 35597  3.77e-05 0.002354
## 12785  4.45e-06 0.007843   *
## 96892  3.26e-04 0.001457
## 50491  2.67e-05 0.001615
## 18280  2.54e-05 0.001366
## 125612 7.85e-05 0.001500
## 117457 4.83e-05 0.004401
## 22516  9.37e-05 0.002071
## 111705 6.95e-04 0.003554
## 78871  4.51e-06 0.001343
## 78635  8.18e-05 0.002661
## 7173   5.93e-06 0.003346
## 80261  1.23e-05 0.001078
## 70742  5.26e-05 0.001414
## 1906   2.05e-04 0.007187   *
## 16509  9.36e-06 0.001859
## 105380 9.20e-06 0.001441
## 28266  2.37e-05 0.001114
## 124555 9.85e-05 0.003161
## 93297  2.80e-04 0.003461
## 113751 5.88e-04 0.001941
## 41330  9.20e-06 0.001055
## 17565  5.74e-04 0.002718
## 5124   5.56e-05 0.003335
## 103667 3.87e-05 0.001475
```

```
## 98651  6.18e-04 0.003924
## 74072  1.20e-04 0.002812
## 68473  1.85e-05 0.002024
## 5174   6.62e-06 0.003649
## 46277  4.12e-05 0.001470
## 75816  7.28e-05 0.002085
## 19204  5.48e-04 0.001737
## 121018 2.11e-05 0.002074
## 751    5.88e-06 0.002718
## 109497 6.13e-05 0.002845
## 6154   2.34e-06 0.003450
## 78672  4.70e-05 0.001105
## 120155 4.34e-05 0.001848
## 61946  3.47e-04 0.002479
## 99122  6.57e-05 0.002991
## 128354 4.78e-05 0.002144
## 4082   1.14e-03 0.002876
## 11107  9.95e-05 0.004023
## 116330 3.70e-06 0.002411
## 26186  1.03e-05 0.001087
## 113663 1.42e-04 0.003192
## 48284  5.47e-05 0.001478
## 30281  1.78e-04 0.003145
## 112388 3.02e-05 0.001312
## 127200 5.07e-04 0.003424
## 98291  3.51e-04 0.002728
## 25403  1.25e-05 0.001750
## 84343  1.58e-05 0.001815
## 122124 1.82e-05 0.001847
## 114228 1.95e-06 0.001117
## 48763  7.20e-04 0.002770
## 78187  1.34e-06 0.001053
## 4408   1.88e-05 0.002667
## 10562  5.83e-04 0.005074
## 114765 4.58e-05 0.001712
## 19732  4.45e-04 0.003442
## 69832  3.45e-04 0.001316
## 11254  1.72e-05 0.002453
## 69716  3.25e-04 0.001167
## 103603 5.67e-04 0.001707
## 47589  4.79e-05 0.001899
## 77388  7.08e-05 0.001424
## 108230 2.50e-05 0.001483
## 47335  3.98e-04 0.001456
## 106879 5.37e-05 0.002207
## 58390  1.14e-05 0.001514
## 12964  3.66e-05 0.003262
## 78604  9.64e-04 0.003460
## 104505 1.89e-05 0.001573
## 74980  7.82e-05 0.001622
## 21046  4.86e-05 0.001968
## 44274  3.17e-05 0.002576
## 82540  3.73e-05 0.002006
## 117966 7.61e-06 0.000742
## 113723 1.44e-05 0.002028
## 43824  1.95e-05 0.001946
## 64352  8.69e-06 0.000927
## 76163  1.62e-06 0.001360
## 62385  3.31e-04 0.004141
## 122246 4.45e-04 0.003269
## 66512  2.99e-04 0.001415
## 29328  4.39e-04 0.002166
## 10225  1.62e-05 0.004059
## 113736 5.04e-05 0.002067
## 22241  9.76e-06 0.000870
## 27744  4.81e-05 0.001187
## 3513   3.26e-05 0.003018
## 102764 9.61e-06 0.001333
## 12791  1.28e-04 0.004250
## 3936   6.53e-05 0.004278
## 72226  3.36e-04 0.001499
## 59976  5.84e-04 0.002210
## 59975  3.89e-04 0.003529
## 17567  5.78e-06 0.001055
## 124764 1.48e-05 0.002772
## 90011  2.04e-05 0.001280
## 31096  3.86e-04 0.001163
## 14344  2.29e-05 0.001336
## 31233  5.83e-05 0.003035
## 39310  8.90e-05 0.002717
## 48118  2.90e-05 0.001569
## 101200 4.07e-04 0.001202
## 19851  1.49e-04 0.005143
## 66106  3.41e-05 0.009610   *
## 31214  8.14e-06 0.000747
## 128800 4.58e-05 0.002365
## 127150 5.35e-05 0.001715
## 38296  4.70e-05 0.001478
## 109083 1.68e-05 0.001768
## 52795  1.62e-05 0.001531
## 22856  8.92e-04 0.002984
## 61722  9.21e-06 0.000882
## 90758  5.47e-05 0.001635
## 37464  4.82e-05 0.001689
## 38283  4.16e-05 0.001655
## 125564 6.93e-05 0.002136
## 3827   2.50e-05 0.003392
## 67798  1.60e-06 0.001938
```

```
## 80309  8.99e-06 0.000953
## 37096  1.13e-04 0.001792
## 52729  2.41e-05 0.002488
## 26500  9.25e-06 0.001432
## 124308 1.14e-04 0.002432
## 98828  1.11e-04 0.003953
## 100077 1.91e-06 0.002053
## 65486  2.62e-06 0.001128
## 24905  4.35e-05 0.001572
## 98293  2.32e-05 0.001168
## 114550 1.88e-05 0.001011
## 51434  1.02e-03 0.005911
## 77898  2.61e-06 0.001124
## 15060  1.95e-06 0.002372
## 79215  4.61e-05 0.001217
```

```
#View(temp) #there are some values which is starred because they have highest residual compared to their y-value

#diagnostic plots
plot(fit)
```

```
# Assessing Outliers
library(car)
```

```
## Warning: package 'car' was built under R version 3.6.3
```

```
## Loading required package: carData
```

```
##
## Attaching package: 'car'
```

```
## The following object is masked from 'package:boot':
##
##     logit
```

```
## The following object is masked from 'package:psych':
##
##     logit
```

```
## The following object is masked from 'package:purrr':
##
##     some
```

```
## The following object is masked from 'package:dplyr':
##
##     recode
```

```
outlierTest(fit)
```

```
## No Studentized residuals with Bonferroni p < 0.05
## Largest |rstudent|:
```

```
##        rstudent unadjusted p-value Bonferroni p
## 86270 -2.616812          0.0089023           NA
```

```
qqPlot(fit, main="QQ Plot")
```

```
## 11120 86270
##  3026  3951
```

```
leveragePlots(fit) # leverage plots
```

```
# Influential Observations
# added variable plots
avPlots(fit)
```

```
# Cook's D plot
# identify D values > 4/(n-k-1)
cutoff <- 4/((nrow(mtcars)-length(fit$coefficients)-2))
plot(fit, which=4, cook.levels=cutoff)
```

```
# Influence Plot
influencePlot(fit, id.method="identify", main="Influence Plot", sub="Circle size is proportial to Cook's Distance" )
```

```
## Warning in plot.window(...): "id.method" is not a graphical parameter
```

```
## Warning in plot.xy(xy, type, ...): "id.method" is not a graphical parameter
```

```
## Warning in axis(side = side, at = at, labels = labels, ...): "id.method" is not
## a graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "id.method" is not
## a graphical parameter
```

```
## Warning in box(...): "id.method" is not a graphical parameter
```

```
## Warning in title(...): "id.method" is not a graphical parameter
```

```
## Warning in plot.xy(xy.coords(x, y), type = type, ...): "id.method" is not a
## graphical parameter
```

```
##           StudRes         Hat        CookD
## 91778  -0.2035808 0.086197994 0.0003258523
## 11738  -2.3926732 0.018724373 0.0090947469
## 11120  -2.5292253 0.002829759 0.0015111384
## 86270  -2.6168119 0.020075375 0.0116768560
## 107679 -0.2484458 0.088384491 0.0004988018
```

```
# Normality of Residuals
# qq plot for studentized resid
qqPlot(fit, main="QQ Plot")
```

```
## 11120 86270
##  3026  3951
```

```
# distribution of studentized residuals
library(MASS)
sresid <- studres(fit)
hist(sresid, freq=FALSE,
     main="Distribution of Studentized Residuals")
xfit<-seq(min(sresid),max(sresid),length=40)
yfit<-dnorm(xfit)
lines(xfit, yfit)
```

```
#Non-constant Error Variance
# Evaluate homoscedasticity
# non-constant error variance test
ncvTest(fit)
```

```
## Non-constant Variance Score Test
## Variance formula: ~ fitted.values
## Chisquare = 300.6514, Df = 1, p = < 2.22e-16
```

```
# plot studentized residuals vs. fitted values
spreadLevelPlot(fit)
```

```
##
## Suggested power transformation:  4.31462
```

```
#Multi-collinearity
# Evaluate Collinearity
vif(fit) # variance inflation factors
```

```
##      loan_amnt    installment       int_rate        issue_d          grade
##      67.997890      61.336697      15.578028       1.080126      14.036736
##        purpose            dti     emp_length home_ownership     annual_inc
##       1.061743       1.168268       1.047921       1.078559       1.293567
##           term
##       7.203025
```

```
sqrt(vif(fit)) > 2 # problem?
```

```
##      loan_amnt    installment       int_rate        issue_d          grade
##           TRUE           TRUE           TRUE          FALSE           TRUE
##        purpose            dti     emp_length home_ownership     annual_inc
##          FALSE          FALSE          FALSE          FALSE          FALSE
##           term
##           TRUE
```

```
#Nonlinearity
# component + residual plot
crPlots(fit)
```

```
# Ceres plots
ceresPlots(fit)
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
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## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger

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## parametric, : reciprocal condition number 8.3938e-030

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : pseudoinverse used at 2015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : neighborhood radius 1.015
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : reciprocal condition number 8.3938e-030
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : There are other near singularities as well. 4.0602
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =
## parametric, : zero-width neighborhood. make span bigger
```

```
## Error in xy.coords(x, y, xlabel, ylabel, log): 'x' and 'y' lengths differ
```

```
#Non-independence of Errors
# Test for Autocorrelated Errors
durbinWatsonTest(fit)
```

```
##  lag Autocorrelation D-W Statistic p-value
##    1    -0.009949413      2.019391   0.514
##  Alternative hypothesis: rho != 0
```

```
# Global test of model assumptions
library(gvlma)
install.packages("gvlma", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
```

```
## Warning in install.packages("gvlma", lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"): 'lib = "/Library/Frameworks/R.framework/
## Versions/3.5/Resources/library"' is not writable
```

```
## Error in install.packages("gvlma", lib = "/Library/Frameworks/R.framework/Versions/3.5/Resources/library"): unable to install packages
```

```
library(gvlma)
gvmodel <- gvlma(fit)
summary(gvmodel)
```

```
##
## Call:
## lm(formula = loan_status ~ loan_amnt + installment + int_rate +
##     issue_d + grade + purpose + dti + emp_length + home_ownership +
##     annual_inc + term, data = mysample)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
```

```
## -1.03618  0.02983  0.15127  0.24452  0.69532
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -6.611e+01  1.762e+01  -3.752 0.000178 ***
## loan_amnt       1.024e-05  5.309e-06   1.928 0.053919 .
## installment    -3.458e-04  1.636e-04  -2.114 0.034538 *
## int_rate        2.449e-04  4.433e-03   0.055 0.955956
## issue_d         3.295e-02  8.758e-03   3.762 0.000170 ***
## grade           6.300e-02  1.685e-02   3.739 0.000187 ***
## purpose        -4.686e-03  1.396e-02  -0.336 0.737112
## dti            -1.801e-03  7.583e-04  -2.375 0.017577 *
## emp_length     -1.339e-03  1.605e-03  -0.834 0.404166
## home_ownership  7.580e-02  1.218e-02   6.224 5.24e-10 ***
## annual_inc      2.354e-07  1.094e-07   2.152 0.031441 *
## term            1.388e-01  3.590e-02   3.867 0.000112 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4002 on 4988 degrees of freedom
## Multiple R-squared:  0.08813,        Adjusted R-squared:  0.08612
## F-statistic: 43.83 on 11 and 4988 DF,  p-value: < 2.2e-16
##
##
## ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS
## USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:
## Level of Significance =  0.05
##
## Call:
##  gvlma(x = fit)
##
##                        Value p-value                   Decision
## Global Stat        1110.3280 0.00000 Assumptions NOT satisfied!
## Skewness           1102.7180 0.00000 Assumptions NOT satisfied!
## Kurtosis              5.9032 0.01511 Assumptions NOT satisfied!
## Link Function         1.0169 0.31325    Assumptions acceptable.
## Heteroscedasticity    0.6898 0.40622    Assumptions acceptable.
```

```
fit
```

```
##
## Call:
## lm(formula = loan_status ~ loan_amnt + installment + int_rate +
##     issue_d + grade + purpose + dti + emp_length + home_ownership +
##     annual_inc + term, data = mysample)
##
## Coefficients:
##    (Intercept)       loan_amnt     installment        int_rate         issue_d
##     -6.611e+01       1.024e-05      -3.458e-04       2.449e-04       3.295e-02
##          grade         purpose             dti      emp_length  home_ownership
##      6.300e-02      -4.686e-03      -1.801e-03      -1.339e-03       7.580e-02
##     annual_inc            term
##      2.354e-07       1.388e-01
```

```
summary(fit)
```

```
##
## Call:
## lm(formula = loan_status ~ loan_amnt + installment + int_rate +
##     issue_d + grade + purpose + dti + emp_length + home_ownership +
##     annual_inc + term, data = mysample)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.03618  0.02983  0.15127  0.24452  0.69532
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -6.611e+01  1.762e+01  -3.752 0.000178 ***
## loan_amnt       1.024e-05  5.309e-06   1.928 0.053919 .
## installment    -3.458e-04  1.636e-04  -2.114 0.034538 *
## int_rate        2.449e-04  4.433e-03   0.055 0.955956
## issue_d         3.295e-02  8.758e-03   3.762 0.000170 ***
## grade           6.300e-02  1.685e-02   3.739 0.000187 ***
## purpose        -4.686e-03  1.396e-02  -0.336 0.737112
## dti            -1.801e-03  7.583e-04  -2.375 0.017577 *
## emp_length     -1.339e-03  1.605e-03  -0.834 0.404166
## home_ownership  7.580e-02  1.218e-02   6.224 5.24e-10 ***
## annual_inc      2.354e-07  1.094e-07   2.152 0.031441 *
## term            1.388e-01  3.590e-02   3.867 0.000112 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4002 on 4988 degrees of freedom
## Multiple R-squared:  0.08813,        Adjusted R-squared:  0.08612
## F-statistic: 43.83 on 11 and 4988 DF,  p-value: < 2.2e-16
```

```
fit1 <- fit
fit2 <- lm(loan_status~loan_amnt+installment+
             issue_d+grade+purpose+dti+emp_length+home_ownership+
             annual_inc+term, data = mysample)
#Removing interest rate from the fit
```

```r
# compare models
anova(fit1, fit2)
```

```
## Analysis of Variance Table
##
## Model 1: loan_status ~ loan_amnt + installment + int_rate + issue_d +
##     grade + purpose + dti + emp_length + home_ownership + annual_inc +
##     term
## Model 2: loan_status ~ loan_amnt + installment + issue_d + grade + purpose +
##     dti + emp_length + home_ownership + annual_inc + term
##   Res.Df    RSS Df   Sum of Sq      F Pr(>F)
## 1   4988 799.04
## 2   4989 799.04 -1 -0.00048866 0.0031  0.956
```

```r
#add this library so your step AIC function will work
library(MASS)
step <- stepAIC(fit, direction="both")
```

```
## Start:  AIC=-9144.94
## loan_status ~ loan_amnt + installment + int_rate + issue_d +
##     grade + purpose + dti + emp_length + home_ownership + annual_inc +
##     term
##
##                  Df Sum of Sq    RSS     AIC
## - int_rate        1    0.0005 799.04 -9146.9
## - purpose         1    0.0181 799.05 -9146.8
## - emp_length      1    0.1115 799.15 -9146.2
## <none>                        799.04 -9144.9
## - loan_amnt       1    0.5954 799.63 -9143.2
## - installment     1    0.7161 799.75 -9142.5
## - annual_inc      1    0.7419 799.78 -9142.3
## - dti             1    0.9037 799.94 -9141.3
## - grade           1    2.2393 801.27 -9132.9
## - issue_d         1    2.2674 801.30 -9132.8
## - term            1    2.3952 801.43 -9132.0
## - home_ownership  1    6.2059 805.24 -9108.3
##
## Step:  AIC=-9146.94
## loan_status ~ loan_amnt + installment + issue_d + grade + purpose +
##     dti + emp_length + home_ownership + annual_inc + term
##
##                  Df Sum of Sq    RSS     AIC
## - purpose         1    0.0179 799.05 -9148.8
## - emp_length      1    0.1120 799.15 -9148.2
## <none>                        799.04 -9146.9
## + int_rate        1    0.0005 799.04 -9144.9
## - loan_amnt       1    0.6409 799.68 -9144.9
## - annual_inc      1    0.7414 799.78 -9144.3
## - installment     1    0.7760 799.81 -9144.1
## - dti             1    0.9033 799.94 -9143.3
## - issue_d         1    2.4436 801.48 -9133.7
## - term            1    2.6114 801.65 -9132.6
## - home_ownership  1    6.2059 805.24 -9110.3
## - grade           1   12.6246 811.66 -9070.6
##
## Step:  AIC=-9148.83
## loan_status ~ loan_amnt + installment + issue_d + grade + dti +
##     emp_length + home_ownership + annual_inc + term
##
##                  Df Sum of Sq    RSS     AIC
## - emp_length      1    0.1106 799.16 -9150.1
## <none>                        799.05 -9148.8
## + purpose         1    0.0179 799.04 -9146.9
## - loan_amnt       1    0.6367 799.69 -9146.8
## + int_rate        1    0.0003 799.05 -9146.8
## - annual_inc      1    0.7256 799.78 -9146.3
## - installment     1    0.7669 799.82 -9146.0
## - dti             1    0.8872 799.94 -9145.3
## - issue_d         1    2.4314 801.49 -9135.6
## - term            1    2.5949 801.65 -9134.6
## - home_ownership  1    6.1908 805.24 -9112.2
## - grade           1   12.8767 811.93 -9070.9
##
## Step:  AIC=-9150.13
## loan_status ~ loan_amnt + installment + issue_d + grade + dti +
##     home_ownership + annual_inc + term
##
##                  Df Sum of Sq    RSS     AIC
## <none>                        799.16 -9150.1
## + emp_length      1    0.1106 799.05 -9148.8
## + purpose         1    0.0165 799.15 -9148.2
## - loan_amnt       1    0.6344 799.80 -9148.2
## + int_rate        1    0.0007 799.16 -9148.1
## - annual_inc      1    0.7019 799.87 -9147.7
## - installment     1    0.7651 799.93 -9147.3
## - dti             1    0.9380 800.10 -9146.3
## - issue_d         1    2.4350 801.60 -9136.9
## - term            1    2.6057 801.77 -9135.9
## - home_ownership  1    6.0941 805.26 -9114.1
## - grade           1   12.8459 812.01 -9072.4
```

```r
step$anova # display results
```

```
## Stepwise Model Path
## Analysis of Deviance Table
##
## Initial Model:
## loan_status ~ loan_amnt + installment + int_rate + issue_d +
##     grade + purpose + dti + emp_length + home_ownership + annual_inc +
##     term
##
## Final Model:
## loan_status ~ loan_amnt + installment + issue_d + grade + dti +
##     home_ownership + annual_inc + term
##
##
##           Step Df     Deviance Resid. Df Resid. Dev       AIC
## 1                                   4988   799.0354 -9144.940
## 2   - int_rate  1 0.0004886633      4989   799.0359 -9146.937
## 3    - purpose  1 0.0178597942      4990   799.0537 -9148.825
## 4 - emp_length  1 0.1106175667      4991   799.1643 -9150.133
```

```
#install.packages("leaps", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
library(leaps)
leaps<-regsubsets(loan_status~loan_amnt+installment+
                    issue_d+grade+purpose+dti+emp_length+home_ownership+
                    annual_inc+term, data = mysample,nbest=10)
# view results
summary(leaps) #tells us about the outliers
```

```
## Subset selection object
## Call: regsubsets.formula(loan_status ~ loan_amnt + installment + issue_d +
##     grade + purpose + dti + emp_length + home_ownership + annual_inc +
##     term, data = mysample, nbest = 10)
## 10 Variables  (and intercept)
##                 Forced in Forced out
## loan_amnt           FALSE      FALSE
## installment         FALSE      FALSE
## issue_d             FALSE      FALSE
## grade               FALSE      FALSE
## purpose             FALSE      FALSE
## dti                 FALSE      FALSE
## emp_length          FALSE      FALSE
## home_ownership      FALSE      FALSE
## annual_inc          FALSE      FALSE
## term                FALSE      FALSE
## 10 subsets of each size up to 8
## Selection Algorithm: exhaustive
##           loan_amnt installment issue_d grade purpose dti emp_length
## 1  ( 1 )  " "        " "         " "     "*"   " "     " " " "
## 1  ( 2 )  " "        " "         " "     " "   " "     " " " "
## 1  ( 3 )  " "        " "         " "     " "   " "     "*" " "
## 1  ( 4 )  " "        " "         " "     " "   " "     " " " "
## 1  ( 5 )  "*"        " "         " "     " "   " "     " " " "
## 1  ( 6 )  " "        "*"         " "     " "   " "     " " " "
## 1  ( 7 )  " "        " "         " "     " "   " "     " " " "
## 1  ( 8 )  " "        " "         "*"     " "   " "     " " " "
## 1  ( 9 )  " "        " "         " "     " "   "*"     " " " "
## 1  ( 10 ) " "        " "         " "     " "   " "     " " "*"
## 2  ( 1 )  " "        " "         " "     "*"   " "     " " " "
## 2  ( 2 )  " "        " "         "*"     "*"   " "     " " " "
## 2  ( 3 )  " "        " "         " "     "*"   " "     " " " "
## 2  ( 4 )  " "        " "         " "     "*"   " "     " " " "
## 2  ( 5 )  " "        " "         " "     "*"   " "     "*" " "
## 2  ( 6 )  " "        " "         " "     "*"   "*"     " " " "
## 2  ( 7 )  "*"        " "         " "     "*"   " "     " " " "
## 2  ( 8 )  " "        "*"         " "     "*"   " "     " " " "
## 2  ( 9 )  " "        " "         " "     "*"   " "     " " "*"
## 2  ( 10 ) " "        " "         " "     " "   " "     " " " "
## 3  ( 1 )  " "        " "         " "     "*"   " "     " " " "
## 3  ( 2 )  " "        " "         "*"     "*"   " "     " " " "
## 3  ( 3 )  " "        " "         " "     "*"   " "     "*" " "
## 3  ( 4 )  " "        " "         " "     "*"   " "     " " " "
## 3  ( 5 )  "*"        " "         " "     "*"   " "     " " " "
## 3  ( 6 )  " "        " "         " "     "*"   " "     " " "*"
## 3  ( 7 )  " "        " "         " "     "*"   "*"     " " " "
## 3  ( 8 )  " "        "*"         " "     "*"   " "     " " " "
## 3  ( 9 )  " "        " "         "*"     "*"   " "     " " " "
## 3  ( 10 ) " "        " "         " "     "*"   " "     " " " "
## 4  ( 1 )  " "        " "         "*"     "*"   " "     " " " "
## 4  ( 2 )  " "        " "         " "     "*"   " "     "*" " "
## 4  ( 3 )  " "        " "         " "     "*"   " "     " " " "
## 4  ( 4 )  " "        " "         "*"     "*"   " "     "*" " "
## 4  ( 5 )  " "        " "         " "     "*"   " "     " " "*"
## 4  ( 6 )  " "        "*"         " "     "*"   " "     " " " "
## 4  ( 7 )  " "        " "         " "     "*"   "*"     " " " "
## 4  ( 8 )  "*"        " "         " "     "*"   " "     " " " "
## 4  ( 9 )  " "        " "         "*"     "*"   " "     " " " "
## 4  ( 10 ) "*"        " "         "*"     "*"   " "     " " " "
## 5  ( 1 )  " "        " "         "*"     "*"   " "     "*" " "
## 5  ( 2 )  " "        " "         "*"     "*"   " "     " " " "
## 5  ( 3 )  " "        " "         "*"     "*"   " "     " " "*"
## 5  ( 4 )  " "        "*"         "*"     "*"   " "     " " " "
## 5  ( 5 )  " "        " "         "*"     "*"   "*"     " " " "
## 5  ( 6 )  "*"        " "         "*"     "*"   " "     " " " "
## 5  ( 7 )  " "        " "         " "     "*"   " "     "*" " "
## 5  ( 8 )  " "        "*"         " "     "*"   " "     "*" " "
## 5  ( 9 )  " "        " "         " "     "*"   " "     "*" "*"
```

```
## 5  ( 10 ) "*"       " "         " "     "*"   " "     "*" " "
## 6  ( 1 )  " "       " "         "*"     "*"   " "     "*" " "
## 6  ( 2 )  " "       " "         "*"     "*"   " "     "*" "*"
## 6  ( 3 )  " "       "*"         "*"     "*"   " "     "*" " "
## 6  ( 4 )  "*"       " "         "*"     "*"   " "     "*" " "
## 6  ( 5 )  " "       " "         "*"     "*"   "*"     "*" " "
## 6  ( 6 )  " "       "*"         "*"     "*"   " "     " " " "
## 6  ( 7 )  "*"       " "         "*"     "*"   " "     " " " "
## 6  ( 8 )  " "       " "         "*"     "*"   " "     " " "*"
## 6  ( 9 )  " "       " "         "*"     "*"   "*"     " " " "
## 6  ( 10 ) "*"       "*"         "*"     "*"   " "     " " " "
## 7  ( 1 )  " "       "*"         "*"     "*"   " "     "*" " "
## 7  ( 2 )  "*"       "*"         "*"     "*"   " "     "*" " "
## 7  ( 3 )  "*"       " "         "*"     "*"   " "     "*" " "
## 7  ( 4 )  " "       " "         "*"     "*"   " "     "*" "*"
## 7  ( 5 )  "*"       "*"         "*"     "*"   " "     " " " "
## 7  ( 6 )  " "       " "         "*"     "*"   "*"     "*" " "
## 7  ( 7 )  " "       "*"         "*"     "*"   " "     "*" "*"
## 7  ( 8 )  " "       "*"         "*"     "*"   " "     " " "*"
## 7  ( 9 )  "*"       " "         "*"     "*"   " "     "*" "*"
## 7  ( 10 ) " "       " "         "*"     "*"   "*"     "*" "*"
## 8  ( 1 )  "*"       "*"         "*"     "*"   " "     "*" " "
## 8  ( 2 )  " "       "*"         "*"     "*"   " "     "*" "*"
## 8  ( 3 )  "*"       "*"         "*"     "*"   " "     "*" "*"
## 8  ( 4 )  " "       "*"         "*"     "*"   "*"     "*" " "
## 8  ( 5 )  "*"       " "         "*"     "*"   " "     "*" "*"
## 8  ( 6 )  "*"       "*"         "*"     "*"   "*"     "*" " "
## 8  ( 7 )  "*"       " "         "*"     "*"   "*"     "*" " "
## 8  ( 8 )  "*"       "*"         "*"     "*"   " "     " " "*"
## 8  ( 9 )  " "       " "         "*"     "*"   "*"     "*" "*"
## 8  ( 10 ) "*"       "*"         "*"     "*"   "*"     " " " "
##           home_ownership annual_inc term
## 1  ( 1 )  " "            " "        " "
## 1  ( 2 )  " "            " "        "*"
## 1  ( 3 )  " "            " "        " "
## 1  ( 4 )  "*"            " "        " "
## 1  ( 5 )  " "            " "        " "
## 1  ( 6 )  " "            " "        " "
## 1  ( 7 )  " "            "*"        " "
## 1  ( 8 )  " "            " "        " "
## 1  ( 9 )  " "            " "        " "
## 1  ( 10 ) " "            " "        " "
## 2  ( 1 )  "*"            " "        " "
## 2  ( 2 )  " "            " "        " "
## 2  ( 3 )  " "            " "        "*"
## 2  ( 4 )  " "            "*"        " "
## 2  ( 5 )  " "            " "        " "
## 2  ( 6 )  " "            " "        " "
## 2  ( 7 )  " "            " "        " "
## 2  ( 8 )  " "            " "        " "
## 2  ( 9 )  " "            " "        " "
## 2  ( 10 ) "*"            " "        "*"
## 3  ( 1 )  "*"            " "        "*"
## 3  ( 2 )  "*"            " "        " "
## 3  ( 3 )  "*"            " "        " "
## 3  ( 4 )  "*"            "*"        " "
## 3  ( 5 )  "*"            " "        " "
## 3  ( 6 )  "*"            " "        " "
## 3  ( 7 )  "*"            " "        " "
## 3  ( 8 )  "*"            " "        " "
## 3  ( 9 )  " "            " "        "*"
## 3  ( 10 ) " "            "*"        "*"
## 4  ( 1 )  "*"            " "        "*"
## 4  ( 2 )  "*"            " "        "*"
## 4  ( 3 )  "*"            "*"        "*"
## 4  ( 4 )  "*"            " "        " "
## 4  ( 5 )  "*"            " "        "*"
## 4  ( 6 )  "*"            " "        "*"
## 4  ( 7 )  "*"            " "        "*"
## 4  ( 8 )  "*"            " "        "*"
## 4  ( 9 )  "*"            "*"        " "
## 4  ( 10 ) "*"            " "        " "
## 5  ( 1 )  "*"            " "        "*"
## 5  ( 2 )  "*"            "*"        "*"
## 5  ( 3 )  "*"            " "        "*"
## 5  ( 4 )  "*"            " "        "*"
## 5  ( 5 )  "*"            " "        "*"
## 5  ( 6 )  "*"            " "        "*"
## 5  ( 7 )  "*"            "*"        "*"
## 5  ( 8 )  "*"            " "        "*"
## 5  ( 9 )  "*"            " "        "*"
## 5  ( 10 ) "*"            " "        "*"
## 6  ( 1 )  "*"            "*"        "*"
## 6  ( 2 )  "*"            " "        "*"
## 6  ( 3 )  "*"            " "        "*"
## 6  ( 4 )  "*"            " "        "*"
## 6  ( 5 )  "*"            " "        "*"
## 6  ( 6 )  "*"            "*"        "*"
## 6  ( 7 )  "*"            "*"        "*"
## 6  ( 8 )  "*"            "*"        "*"
## 6  ( 9 )  "*"            "*"        "*"
## 6  ( 10 ) "*"            " "        "*"
## 7  ( 1 )  "*"            "*"        "*"
## 7  ( 2 )  "*"            " "        "*"
## 7  ( 3 )  "*"            "*"        "*"
## 7  ( 4 )  "*"            "*"        "*"
## 7  ( 5 )  "*"            "*"        "*"
## 7  ( 6 )  "*"            "*"        "*"
```

```
## 7  ( 7 )  "*"            " "        "*"
## 7  ( 8 )  "*"            "*"        "*"
## 7  ( 9 )  "*"            " "        "*"
## 7  ( 10 ) "*"            " "        "*"
## 8  ( 1 )  "*"            "*"        "*"
## 8  ( 2 )  "*"            "*"        "*"
## 8  ( 3 )  "*"            " "        "*"
## 8  ( 4 )  "*"            "*"        "*"
## 8  ( 5 )  "*"            "*"        "*"
## 8  ( 6 )  "*"            " "        "*"
## 8  ( 7 )  "*"            "*"        "*"
## 8  ( 8 )  "*"            "*"        "*"
## 8  ( 9 )  "*"            "*"        "*"
## 8  ( 10 ) "*"            "*"        "*"
```

```
# plot a table of models showing variables in each model.
# models are ordered by the selection statistic.
plot(leaps)
```

```
plot(leaps,scale="r2")
```

```
############## this is not working
subsets(leaps, data=mtcars, statistic="rsq") #rsq is for rsquare adjusted
```

```
## Warning in plot.window(...): "data" is not a graphical parameter
```

```
## Warning in plot.xy(xy, type, ...): "data" is not a graphical parameter
```

```
## Warning in axis(side = side, at = at, labels = labels, ...): "data" is not a
## graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "data" is not a
## graphical parameter
```

```
## Warning in box(...): "data" is not a graphical parameter
```

```
## Warning in title(...): "data" is not a graphical parameter
```

```
## Error in legend(if (!is.na(charmatch(legend[1], "interactive"))) locator(1) else if (is.character(legend)) legend else if (is.numeric(legend) && : in
```

```
#####################################
# All Subsets Regression
plot(leaps,scale="bic")
```

```
summary(leaps)
```

```
## Subset selection object
## Call: regsubsets.formula(loan_status ~ loan_amnt + installment + issue_d +
##     grade + purpose + dti + emp_length + home_ownership + annual_inc +
##     term, data = mysample, nbest = 10)
## 10 Variables  (and intercept)
##                Forced in Forced out
## loan_amnt          FALSE      FALSE
## installment        FALSE      FALSE
## issue_d            FALSE      FALSE
## grade              FALSE      FALSE
## purpose            FALSE      FALSE
## dti                FALSE      FALSE
## emp_length         FALSE      FALSE
## home_ownership     FALSE      FALSE
## annual_inc         FALSE      FALSE
## term               FALSE      FALSE
## 10 subsets of each size up to 8
## Selection Algorithm: exhaustive
##           loan_amnt installment issue_d grade purpose dti emp_length
## 1  ( 1 )  " "        " "         " "     "*"   " "     " " " "
## 1  ( 2 )  " "        " "         " "     " "   " "     " " " "
## 1  ( 3 )  " "        " "         " "     " "   " "     "*" " "
## 1  ( 4 )  " "        " "         " "     " "   " "     " " " "
```

```
## 1  ( 5 )  "*"       " "         " "     " "   " "     " " " "
## 1  ( 6 )  " "       "*"         " "     " "   " "     " " " "
## 1  ( 7 )  " "       " "         " "     " "   " "     " " " "
## 1  ( 8 )  " "       " "         "*"     " "   " "     " " " "
## 1  ( 9 )  " "       " "         " "     " "   "*"     " " " "
## 1  ( 10 ) " "       " "         " "     " "   " "     " " "*"
## 2  ( 1 )  " "       " "         " "     "*"   " "     " " " "
## 2  ( 2 )  " "       " "         "*"     "*"   " "     " " " "
## 2  ( 3 )  " "       " "         " "     "*"   " "     " " " "
## 2  ( 4 )  " "       " "         " "     "*"   " "     " " " "
## 2  ( 5 )  " "       " "         " "     "*"   " "     "*" " "
## 2  ( 6 )  " "       " "         " "     "*"   "*"     " " " "
## 2  ( 7 )  "*"       " "         " "     "*"   " "     " " " "
## 2  ( 8 )  " "       "*"         " "     "*"   " "     " " " "
## 2  ( 9 )  " "       " "         " "     "*"   " "     " " "*"
## 2  ( 10 ) " "       " "         " "     " "   " "     " " " "
## 3  ( 1 )  " "       " "         " "     "*"   " "     " " " "
## 3  ( 2 )  " "       " "         "*"     "*"   " "     " " " "
## 3  ( 3 )  " "       " "         " "     "*"   " "     "*" " "
## 3  ( 4 )  " "       " "         " "     "*"   " "     " " " "
## 3  ( 5 )  "*"       " "         " "     "*"   " "     " " " "
## 3  ( 6 )  " "       " "         " "     "*"   " "     " " "*"
## 3  ( 7 )  " "       " "         " "     "*"   "*"     " " " "
## 3  ( 8 )  " "       "*"         " "     "*"   " "     " " " "
## 3  ( 9 )  " "       " "         "*"     "*"   " "     " " " "
## 3  ( 10 ) " "       " "         " "     "*"   " "     " " " "
## 4  ( 1 )  " "       " "         "*"     "*"   " "     " " " "
## 4  ( 2 )  " "       " "         " "     "*"   " "     "*" " "
## 4  ( 3 )  " "       " "         " "     "*"   " "     " " " "
## 4  ( 4 )  " "       " "         "*"     "*"   " "     "*" " "
## 4  ( 5 )  " "       " "         " "     "*"   " "     " " "*"
## 4  ( 6 )  " "       "*"         " "     "*"   " "     " " " "
## 4  ( 7 )  " "       " "         " "     "*"   "*"     " " " "
## 4  ( 8 )  "*"       " "         " "     "*"   " "     " " " "
## 4  ( 9 )  " "       " "         "*"     "*"   " "     " " " "
## 4  ( 10 ) "*"       " "         "*"     "*"   " "     " " " "
## 5  ( 1 )  " "       " "         "*"     "*"   " "     "*" " "
## 5  ( 2 )  " "       " "         "*"     "*"   " "     " " " "
## 5  ( 3 )  " "       " "         "*"     "*"   " "     " " "*"
## 5  ( 4 )  " "       "*"         "*"     "*"   " "     " " " "
## 5  ( 5 )  " "       " "         "*"     "*"   "*"     " " " "
## 5  ( 6 )  "*"       " "         "*"     "*"   " "     " " " "
## 5  ( 7 )  " "       " "         " "     "*"   " "     "*" " "
## 5  ( 8 )  " "       "*"         " "     "*"   " "     "*" " "
## 5  ( 9 )  " "       " "         " "     "*"   " "     "*" "*"
## 5  ( 10 ) "*"       " "         " "     "*"   " "     "*" " "
## 6  ( 1 )  " "       " "         "*"     "*"   " "     "*" " "
## 6  ( 2 )  " "       " "         "*"     "*"   " "     "*" "*"
## 6  ( 3 )  " "       "*"         "*"     "*"   " "     "*" " "
## 6  ( 4 )  "*"       " "         "*"     "*"   " "     "*" " "
## 6  ( 5 )  " "       " "         "*"     "*"   "*"     "*" " "
## 6  ( 6 )  " "       "*"         "*"     "*"   " "     " " " "
## 6  ( 7 )  "*"       " "         "*"     "*"   " "     " " " "
## 6  ( 8 )  " "       " "         "*"     "*"   " "     " " "*"
## 6  ( 9 )  " "       " "         "*"     "*"   "*"     " " " "
## 6  ( 10 ) "*"       "*"         "*"     "*"   " "     " " " "
## 7  ( 1 )  " "       "*"         "*"     "*"   " "     "*" " "
## 7  ( 2 )  "*"       "*"         "*"     "*"   " "     "*" " "
## 7  ( 3 )  "*"       " "         "*"     "*"   " "     "*" " "
## 7  ( 4 )  " "       " "         "*"     "*"   " "     "*" "*"
## 7  ( 5 )  "*"       "*"         "*"     "*"   " "     " " " "
## 7  ( 6 )  " "       " "         "*"     "*"   "*"     "*" " "
## 7  ( 7 )  " "       "*"         "*"     "*"   " "     "*" "*"
## 7  ( 8 )  " "       "*"         "*"     "*"   " "     " " "*"
## 7  ( 9 )  "*"       " "         "*"     "*"   " "     "*" "*"
## 7  ( 10 ) " "       " "         "*"     "*"   "*"     "*" "*"
## 8  ( 1 )  "*"       "*"         "*"     "*"   " "     "*" " "
## 8  ( 2 )  " "       "*"         "*"     "*"   " "     "*" "*"
## 8  ( 3 )  "*"       "*"         "*"     "*"   " "     "*" "*"
## 8  ( 4 )  " "       "*"         "*"     "*"   "*"     "*" " "
## 8  ( 5 )  "*"       " "         "*"     "*"   " "     "*" "*"
## 8  ( 6 )  "*"       "*"         "*"     "*"   "*"     "*" " "
## 8  ( 7 )  "*"       " "         "*"     "*"   "*"     "*" " "
## 8  ( 8 )  "*"       "*"         "*"     "*"   " "     " " "*"
## 8  ( 9 )  " "       " "         "*"     "*"   "*"     "*" "*"
## 8  ( 10 ) "*"       "*"         "*"     "*"   "*"     " " " "
##           home_ownership annual_inc term
## 1  ( 1 )  " "            " "        " "
## 1  ( 2 )  " "            " "        "*"
## 1  ( 3 )  " "            " "        " "
## 1  ( 4 )  "*"            " "        " "
## 1  ( 5 )  " "            " "        " "
## 1  ( 6 )  " "            " "        " "
## 1  ( 7 )  " "            "*"        " "
## 1  ( 8 )  " "            " "        " "
## 1  ( 9 )  " "            " "        " "
## 1  ( 10 ) " "            " "        " "
## 2  ( 1 )  "*"            " "        " "
## 2  ( 2 )  " "            " "        " "
## 2  ( 3 )  " "            " "        "*"
## 2  ( 4 )  " "            "*"        " "
## 2  ( 5 )  " "            " "        " "
## 2  ( 6 )  " "            " "        " "
## 2  ( 7 )  " "            " "        " "
## 2  ( 8 )  " "            " "        " "
## 2  ( 9 )  " "            " "        " "
## 2  ( 10 ) "*"            " "        "*"
## 3  ( 1 )  "*"            " "        "*"
```

```
## 3  ( 2 )  "*"            " "         " "
## 3  ( 3 )  "*"            " "         " "
## 3  ( 4 )  "*"            "*"         " "
## 3  ( 5 )  "*"            " "         " "
## 3  ( 6 )  "*"            " "         " "
## 3  ( 7 )  "*"            " "         " "
## 3  ( 8 )  "*"            " "         " "
## 3  ( 9 )  " "            " "         "*"
## 3  ( 10 ) " "            "*"         "*"
## 4  ( 1 )  "*"            " "         "*"
## 4  ( 2 )  "*"            " "         "*"
## 4  ( 3 )  "*"            "*"         "*"
## 4  ( 4 )  "*"            " "         " "
## 4  ( 5 )  "*"            " "         "*"
## 4  ( 6 )  "*"            " "         "*"
## 4  ( 7 )  "*"            " "         "*"
## 4  ( 8 )  "*"            " "         "*"
## 4  ( 9 )  "*"            "*"         " "
## 4  ( 10 ) "*"            " "         " "
## 5  ( 1 )  "*"            " "         "*"
## 5  ( 2 )  "*"            "*"         "*"
## 5  ( 3 )  "*"            " "         "*"
## 5  ( 4 )  "*"            " "         "*"
## 5  ( 5 )  "*"            " "         "*"
## 5  ( 6 )  "*"            " "         "*"
## 5  ( 7 )  "*"            "*"         "*"
## 5  ( 8 )  "*"            " "         "*"
## 5  ( 9 )  "*"            " "         "*"
## 5  ( 10 ) "*"            " "         "*"
## 6  ( 1 )  "*"            "*"         "*"
## 6  ( 2 )  "*"            " "         "*"
## 6  ( 3 )  "*"            " "         "*"
## 6  ( 4 )  "*"            " "         "*"
## 6  ( 5 )  "*"            " "         "*"
## 6  ( 6 )  "*"            "*"         "*"
## 6  ( 7 )  "*"            "*"         "*"
## 6  ( 8 )  "*"            "*"         "*"
## 6  ( 9 )  "*"            "*"         "*"
## 6  ( 10 ) "*"            " "         "*"
## 7  ( 1 )  "*"            "*"         "*"
## 7  ( 2 )  "*"            " "         "*"
## 7  ( 3 )  "*"            "*"         "*"
## 7  ( 4 )  "*"            "*"         "*"
## 7  ( 5 )  "*"            "*"         "*"
## 7  ( 6 )  "*"            "*"         "*"
## 7  ( 7 )  "*"            " "         "*"
## 7  ( 8 )  "*"            "*"         "*"
## 7  ( 9 )  "*"            " "         "*"
## 7  ( 10 ) "*"            " "         "*"
## 8  ( 1 )  "*"            "*"         "*"
## 8  ( 2 )  "*"            "*"         "*"
## 8  ( 3 )  "*"            " "         "*"
## 8  ( 4 )  "*"            "*"         "*"
## 8  ( 5 )  "*"            "*"         "*"
## 8  ( 6 )  "*"            " "         "*"
## 8  ( 7 )  "*"            "*"         "*"
## 8  ( 8 )  "*"            "*"         "*"
## 8  ( 9 )  "*"            "*"         "*"
## 8  ( 10 ) "*"            "*"         "*"
```

```
summary(leaps)
```

```
## Subset selection object
## Call: regsubsets.formula(loan_status ~ loan_amnt + installment + issue_d +
##     grade + purpose + dti + emp_length + home_ownership + annual_inc +
##     term, data = mysample, nbest = 10)
## 10 Variables  (and intercept)
##                Forced in Forced out
## loan_amnt          FALSE      FALSE
## installment        FALSE      FALSE
## issue_d            FALSE      FALSE
## grade              FALSE      FALSE
## purpose            FALSE      FALSE
## dti                FALSE      FALSE
## emp_length         FALSE      FALSE
## home_ownership     FALSE      FALSE
## annual_inc         FALSE      FALSE
## term               FALSE      FALSE
## 10 subsets of each size up to 8
## Selection Algorithm: exhaustive
##           loan_amnt installment issue_d grade purpose dti emp_length
## 1  ( 1 )  " "        " "         " "     "*"   " "     " " " "
## 1  ( 2 )  " "        " "         " "     " "   " "     " " " "
## 1  ( 3 )  " "        " "         " "     " "   " "     "*" " "
## 1  ( 4 )  " "        " "         " "     " "   " "     " " " "
## 1  ( 5 )  "*"        " "         " "     " "   " "     " " " "
## 1  ( 6 )  " "        "*"         " "     " "   " "     " " " "
## 1  ( 7 )  " "        " "         " "     " "   " "     " " " "
## 1  ( 8 )  " "        " "         "*"     " "   " "     " " " "
## 1  ( 9 )  " "        " "         " "     " "   "*"     " " " "
## 1  ( 10 ) " "        " "         " "     " "   " "     " " "*"
## 2  ( 1 )  " "        " "         " "     "*"   " "     " " " "
## 2  ( 2 )  " "        " "         "*"     "*"   " "     " " " "
## 2  ( 3 )  " "        " "         " "     "*"   " "     " " " "
## 2  ( 4 )  " "        " "         " "     "*"   " "     " " " "
## 2  ( 5 )  " "        " "         " "     "*"   " "     "*" " "
```

```
## 2  ( 6 )  " "       " "         " "     "*"   "*"     " " " "
## 2  ( 7 )  "*"       " "         " "     "*"   " "     " " " "
## 2  ( 8 )  " "       "*"         " "     "*"   " "     " " " "
## 2  ( 9 )  " "       " "         " "     "*"   " "     " " "*"
## 2  ( 10 ) " "       " "         " "     " "   " "     " " " "
## 3  ( 1 )  " "       " "         " "     "*"   " "     " " " "
## 3  ( 2 )  " "       " "         "*"     "*"   " "     " " " "
## 3  ( 3 )  " "       " "         " "     "*"   " "     "*" " "
## 3  ( 4 )  " "       " "         " "     "*"   " "     " " " "
## 3  ( 5 )  "*"       " "         " "     "*"   " "     " " " "
## 3  ( 6 )  " "       " "         " "     "*"   " "     " " "*"
## 3  ( 7 )  " "       " "         " "     "*"   "*"     " " " "
## 3  ( 8 )  " "       "*"         " "     "*"   " "     " " " "
## 3  ( 9 )  " "       " "         "*"     "*"   " "     " " " "
## 3  ( 10 ) " "       " "         " "     "*"   " "     " " " "
## 4  ( 1 )  " "       " "         "*"     "*"   " "     " " " "
## 4  ( 2 )  " "       " "         " "     "*"   " "     "*" " "
## 4  ( 3 )  " "       " "         " "     "*"   " "     " " " "
## 4  ( 4 )  " "       " "         "*"     "*"   " "     "*" " "
## 4  ( 5 )  " "       " "         " "     "*"   " "     " " "*"
## 4  ( 6 )  " "       "*"         " "     "*"   " "     " " " "
## 4  ( 7 )  " "       " "         " "     "*"   "*"     " " " "
## 4  ( 8 )  "*"       " "         " "     "*"   " "     " " " "
## 4  ( 9 )  " "       " "         "*"     "*"   " "     " " " "
## 4  ( 10 ) "*"       " "         "*"     "*"   " "     " " " "
## 5  ( 1 )  " "       " "         "*"     "*"   " "     "*" " "
## 5  ( 2 )  " "       " "         "*"     "*"   " "     " " " "
## 5  ( 3 )  " "       " "         "*"     "*"   " "     " " "*"
## 5  ( 4 )  " "       "*"         "*"     "*"   " "     " " " "
## 5  ( 5 )  " "       " "         "*"     "*"   "*"     " " " "
## 5  ( 6 )  "*"       " "         "*"     "*"   " "     " " " "
## 5  ( 7 )  " "       " "         " "     "*"   " "     "*" " "
## 5  ( 8 )  " "       "*"         " "     "*"   " "     "*" " "
## 5  ( 9 )  " "       " "         " "     "*"   " "     "*" "*"
## 5  ( 10 ) "*"       " "         " "     "*"   " "     "*" " "
## 6  ( 1 )  " "       " "         "*"     "*"   " "     "*" " "
## 6  ( 2 )  " "       " "         "*"     "*"   " "     "*" "*"
## 6  ( 3 )  " "       "*"         "*"     "*"   " "     "*" " "
## 6  ( 4 )  "*"       " "         "*"     "*"   " "     "*" " "
## 6  ( 5 )  " "       " "         "*"     "*"   "*"     "*" " "
## 6  ( 6 )  " "       "*"         "*"     "*"   " "     " " " "
## 6  ( 7 )  "*"       " "         "*"     "*"   " "     " " " "
## 6  ( 8 )  " "       " "         "*"     "*"   " "     " " "*"
## 6  ( 9 )  " "       " "         "*"     "*"   "*"     " " " "
## 6  ( 10 ) "*"       "*"         "*"     "*"   " "     " " " "
## 7  ( 1 )  " "       "*"         "*"     "*"   " "     "*" " "
## 7  ( 2 )  "*"       "*"         "*"     "*"   " "     "*" " "
## 7  ( 3 )  "*"       " "         "*"     "*"   " "     "*" " "
## 7  ( 4 )  " "       " "         "*"     "*"   " "     "*" "*"
## 7  ( 5 )  "*"       "*"         "*"     "*"   " "     " " " "
## 7  ( 6 )  " "       " "         "*"     "*"   "*"     "*" " "
## 7  ( 7 )  " "       "*"         "*"     "*"   " "     "*" "*"
## 7  ( 8 )  " "       "*"         "*"     "*"   " "     " " "*"
## 7  ( 9 )  "*"       " "         "*"     "*"   " "     "*" "*"
## 7  ( 10 ) " "       " "         "*"     "*"   "*"     "*" "*"
## 8  ( 1 )  "*"       "*"         "*"     "*"   " "     "*" " "
## 8  ( 2 )  " "       "*"         "*"     "*"   " "     "*" "*"
## 8  ( 3 )  "*"       "*"         "*"     "*"   " "     "*" "*"
## 8  ( 4 )  " "       "*"         "*"     "*"   "*"     "*" " "
## 8  ( 5 )  "*"       " "         "*"     "*"   " "     "*" "*"
## 8  ( 6 )  "*"       "*"         "*"     "*"   "*"     "*" " "
## 8  ( 7 )  "*"       " "         "*"     "*"   "*"     "*" " "
## 8  ( 8 )  "*"       "*"         "*"     "*"   " "     " " "*"
## 8  ( 9 )  " "       " "         "*"     "*"   "*"     "*" "*"
## 8  ( 10 ) "*"       "*"         "*"     "*"   "*"     " " " "
##           home_ownership annual_inc term
## 1  ( 1 )  " "            " "        " "
## 1  ( 2 )  " "            " "        "*"
## 1  ( 3 )  " "            " "        " "
## 1  ( 4 )  "*"            " "        " "
## 1  ( 5 )  " "            " "        " "
## 1  ( 6 )  " "            " "        " "
## 1  ( 7 )  " "            "*"        " "
## 1  ( 8 )  " "            " "        " "
## 1  ( 9 )  " "            " "        " "
## 1  ( 10 ) " "            " "        " "
## 2  ( 1 )  "*"            " "        " "
## 2  ( 2 )  " "            " "        " "
## 2  ( 3 )  " "            " "        "*"
## 2  ( 4 )  " "            "*"        " "
## 2  ( 5 )  " "            " "        " "
## 2  ( 6 )  " "            " "        " "
## 2  ( 7 )  " "            " "        " "
## 2  ( 8 )  " "            " "        " "
## 2  ( 9 )  " "            " "        " "
## 2  ( 10 ) "*"            " "        "*"
## 3  ( 1 )  "*"            " "        "*"
## 3  ( 2 )  "*"            " "        " "
## 3  ( 3 )  "*"            " "        " "
## 3  ( 4 )  "*"            "*"        " "
## 3  ( 5 )  "*"            " "        " "
## 3  ( 6 )  "*"            " "        " "
## 3  ( 7 )  "*"            " "        " "
## 3  ( 8 )  "*"            " "        " "
## 3  ( 9 )  " "            " "        "*"
## 3  ( 10 ) " "            "*"        "*"
## 4  ( 1 )  "*"            " "        "*"
## 4  ( 2 )  "*"            " "        "*"
```

```
## 4  ( 3 )  "*"            "*"        "*"
## 4  ( 4 )  "*"            " "        " "
## 4  ( 5 )  "*"            " "        "*"
## 4  ( 6 )  "*"            " "        "*"
## 4  ( 7 )  "*"            " "        "*"
## 4  ( 8 )  "*"            " "        "*"
## 4  ( 9 )  "*"            "*"        " "
## 4  ( 10 ) "*"            " "        " "
## 5  ( 1 )  "*"            " "        "*"
## 5  ( 2 )  "*"            "*"        "*"
## 5  ( 3 )  "*"            " "        "*"
## 5  ( 4 )  "*"            " "        "*"
## 5  ( 5 )  "*"            " "        "*"
## 5  ( 6 )  "*"            " "        "*"
## 5  ( 7 )  "*"            "*"        "*"
## 5  ( 8 )  "*"            " "        "*"
## 5  ( 9 )  "*"            " "        "*"
## 5  ( 10 ) "*"            " "        "*"
## 6  ( 1 )  "*"            "*"        "*"
## 6  ( 2 )  "*"            " "        "*"
## 6  ( 3 )  "*"            " "        "*"
## 6  ( 4 )  "*"            " "        "*"
## 6  ( 5 )  "*"            " "        "*"
## 6  ( 6 )  "*"            "*"        "*"
## 6  ( 7 )  "*"            "*"        "*"
## 6  ( 8 )  "*"            "*"        "*"
## 6  ( 9 )  "*"            "*"        "*"
## 6  ( 10 ) "*"            " "        "*"
## 7  ( 1 )  "*"            "*"        "*"
## 7  ( 2 )  "*"            " "        "*"
## 7  ( 3 )  "*"            "*"        "*"
## 7  ( 4 )  "*"            "*"        "*"
## 7  ( 5 )  "*"            "*"        "*"
## 7  ( 6 )  "*"            "*"        "*"
## 7  ( 7 )  "*"            " "        "*"
## 7  ( 8 )  "*"            "*"        "*"
## 7  ( 9 )  "*"            " "        "*"
## 7  ( 10 ) "*"            " "        "*"
## 8  ( 1 )  "*"            "*"        "*"
## 8  ( 2 )  "*"            "*"        "*"
## 8  ( 3 )  "*"            " "        "*"
## 8  ( 4 )  "*"            "*"        "*"
## 8  ( 5 )  "*"            "*"        "*"
## 8  ( 6 )  "*"            " "        "*"
## 8  ( 7 )  "*"            "*"        "*"
## 8  ( 8 )  "*"            "*"        "*"
## 8  ( 9 )  "*"            "*"        "*"
## 8  ( 10 ) "*"            "*"        "*"
```

```
#View(leaps)
leaps
```

```
## Subset selection object
## Call: regsubsets.formula(loan_status ~ loan_amnt + installment + issue_d +
##     grade + purpose + dti + emp_length + home_ownership + annual_inc +
##     term, data = mysample, nbest = 10)
## 10 Variables  (and intercept)
##                Forced in Forced out
## loan_amnt          FALSE      FALSE
## installment        FALSE      FALSE
## issue_d            FALSE      FALSE
## grade              FALSE      FALSE
## purpose            FALSE      FALSE
## dti                FALSE      FALSE
## emp_length         FALSE      FALSE
## home_ownership     FALSE      FALSE
## annual_inc         FALSE      FALSE
## term               FALSE      FALSE
## 10 subsets of each size up to 8
## Selection Algorithm: exhaustive
```

```
coef(leaps,1:5)
```

```
## [[1]]
## (Intercept)       grade
##  0.31643027  0.08843663
##
## [[2]]
## (Intercept)        term
##   0.6506849   0.1601188
##
## [[3]]
##  (Intercept)          dti
##  0.872709993 -0.005137436
##
## [[4]]
##    (Intercept) home_ownership
##     0.72132035     0.08261366
##
## [[5]]
##   (Intercept)     loan_amnt
##  8.159214e-01 -2.943629e-06
```

```
# Calculate Relative Importance for Each Predictor
#install.packages("relaimpo", lib="/Library/Frameworks/R.framework/Versions/3.5/Resources/library")
library(relaimpo)
calc.relimp(fit,type=c("lmg","last","first","pratt"),
            rela=TRUE)
```

```
## Warning in rev(variances[[p]]) - variances[[p + 1]]: Recycling array of length 1 in vector-array arithmetic is deprecated.
##   Use c() or as.vector() instead.
```

```
## Response variable: loan_status
## Total response variance: 0.1752875
## Analysis based on 5000 observations
##
## 11 Regressors:
## loan_amnt installment int_rate issue_d grade purpose dti emp_length home_ownership annual_inc term
## Proportion of variance explained by model: 8.81%
## Metrics are normalized to sum to 100% (rela=TRUE).
##
## Relative importance metrics:
##
##                         lmg         last        first         pratt
## loan_amnt      0.0271456941 3.676591e-02 0.0196643857 -0.1507634428
## installment    0.0253539006 4.421780e-02 0.0164425871  0.1435916884
## int_rate       0.2899932105 3.017362e-05 0.3357804875 -0.0085424636
## issue_d        0.0365425763 1.400073e-01 0.0156623455  0.0330922610
## grade          0.3333924914 1.382712e-01 0.3638116493  0.5713768896
## purpose        0.0008719581 1.114702e-03 0.0005917150 -0.0005690242
## dti            0.0423812695 5.580274e-02 0.0504465458  0.0389942235
## emp_length     0.0010147512 6.884546e-03 0.0000269813 -0.0002999983
## home_ownership 0.0899911435 3.831985e-01 0.0466978542  0.0944642994
## annual_inc     0.0226531353 4.581041e-02 0.0160853092  0.0209931113
## term           0.1306598696 1.478966e-01 0.1347901394  0.2576624558
##
## Average coefficients for different model sizes:
##
##                          1X           2Xs           3Xs           4Xs
## loan_amnt      -2.943629e-06 -2.570483e-06 -1.462409e-06 -8.345506e-08
## installment    -8.731264e-05 -6.012258e-05 -6.268825e-05 -8.013711e-05
## int_rate       -2.122052e-02 -1.874101e-02 -1.639764e-02 -1.417052e-02
## issue_d         3.438266e-02  3.512512e-02  3.578366e-02  3.633247e-02
## grade           8.843663e-02  8.704423e-02  8.526571e-02  8.306855e-02
## purpose         1.074281e-02  7.731698e-03  5.656190e-03  4.303271e-03
## dti            -5.137436e-03 -4.473427e-03 -3.872567e-03 -3.339035e-03
## emp_length      2.654889e-04  1.822074e-04  3.573214e-05 -1.455325e-04
## home_ownership  8.261366e-02  8.245633e-02  8.159532e-02  8.033433e-02
## annual_inc      3.976005e-07  4.036489e-07  3.926889e-07  3.709907e-07
## term            1.601188e-01  1.412487e-01  1.298181e-01  1.230306e-01
##                         5Xs           6Xs           7Xs           8Xs
## loan_amnt       1.271846e-06  2.463131e-06  3.490817e-06  4.483821e-06
## installment    -1.028296e-04 -1.258079e-04 -1.483324e-04 -1.734815e-04
## int_rate       -1.203910e-02 -9.981165e-03 -7.971780e-03 -5.982130e-03
## issue_d         3.672809e-02  3.691331e-02  3.682648e-02  3.641237e-02
## grade           8.046108e-02  7.749575e-02  7.427433e-02  7.095464e-02
## purpose         3.412555e-03  2.695142e-03  1.875431e-03  7.423690e-04
## dti            -2.880568e-03 -2.505111e-03 -2.217809e-03 -2.018196e-03
## emp_length     -3.395926e-04 -5.317379e-04 -7.138665e-04 -8.832590e-04
## home_ownership  7.895654e-02  7.769400e-02  7.671105e-02  7.609316e-02
## annual_inc      3.445295e-07  3.181518e-07  2.950333e-07  2.764410e-07
## term            1.189773e-01  1.165614e-01  1.154291e-01  1.159010e-01
##                          9Xs          10Xs          11Xs
## loan_amnt       5.688067e-06  7.455836e-06  1.023628e-05
## installment    -2.078055e-04 -2.610339e-04 -3.458434e-04
## int_rate       -3.978139e-03 -1.918924e-03  2.448651e-04
## issue_d         3.563227e-02  3.447236e-02  3.294977e-02
## grade           6.775853e-02  6.498058e-02  6.299723e-02
## purpose        -8.001972e-04 -2.691607e-03 -4.685754e-03
## dti            -1.897501e-03 -1.836100e-03 -1.801186e-03
## emp_length     -1.041205e-03 -1.191530e-03 -1.338892e-03
## home_ownership  7.583457e-02  7.582019e-02  7.579942e-02
## annual_inc      2.618012e-07  2.490665e-07  2.353627e-07
## term            1.189035e-01  1.259007e-01  1.388285e-01
```

```
# Bootstrap Measures of Relative Importance (1000 samples)
boot <- boot.relimp(fit, b = 1000, type = c("lmg",
                                            "last", "first", "pratt"), rank = TRUE,
                    diff = TRUE, rela = TRUE)
```

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```

```
booteval.relimp(boot) # print result
```

```
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```

```
## Response variable: loan_status
## Total response variance: 0.1752875
## Analysis based on 5000 observations
##
## 11 Regressors:
## loan_amnt installment int_rate issue_d grade purpose dti emp_length home_ownership annual_inc term
## Proportion of variance explained by model: 8.81%
## Metrics are normalized to sum to 100% (rela=TRUE).
##
## Relative importance metrics:
##
##                         lmg         last        first         pratt
## loan_amnt      0.0271456941 3.676591e-02 0.0196643857 -0.1507634428
## installment    0.0253539006 4.421780e-02 0.0164425871  0.1435916884
## int_rate       0.2899932105 3.017362e-05 0.3357804875 -0.0085424636
## issue_d        0.0365425763 1.400073e-01 0.0156623455  0.0330922610
## grade          0.3333924914 1.382712e-01 0.3638116493  0.5713768896
## purpose        0.0008719581 1.114702e-03 0.0005917150 -0.0005690242
## dti            0.0423812695 5.580274e-02 0.0504465458  0.0389942235
## emp_length     0.0010147512 6.884546e-03 0.0000269813 -0.0002999983
## home_ownership 0.0899911435 3.831985e-01 0.0466978542  0.0944642994
## annual_inc     0.0226531353 4.581041e-02 0.0160853092  0.0209931113
## term           0.1306598696 1.478966e-01 0.1347901394  0.2576624558
##
## Average coefficients for different model sizes:
##
##                           1X           2Xs           3Xs           4Xs
## loan_amnt      -2.943629e-06 -2.570483e-06 -1.462409e-06 -8.345506e-08
## installment    -8.731264e-05 -6.012258e-05 -6.268825e-05 -8.013711e-05
## int_rate       -2.122052e-02 -1.874101e-02 -1.639764e-02 -1.417052e-02
## issue_d         3.438266e-02  3.512512e-02  3.578366e-02  3.633247e-02
## grade           8.843663e-02  8.704423e-02  8.526571e-02  8.306855e-02
## purpose         1.074281e-02  7.731698e-03  5.656190e-03  4.303271e-03
## dti            -5.137436e-03 -4.473427e-03 -3.872567e-03 -3.339035e-03
## emp_length      2.654889e-04  1.822074e-04  3.573214e-05 -1.455325e-04
## home_ownership  8.261366e-02  8.245633e-02  8.159532e-02  8.033433e-02
```

```
## annual_inc      3.976005e-07  4.036489e-07  3.926889e-07  3.709907e-07
## term            1.601188e-01  1.412487e-01  1.298181e-01  1.230306e-01
##                        5Xs           6Xs           7Xs           8Xs
## loan_amnt       1.271846e-06  2.463131e-06  3.490817e-06  4.483821e-06
## installment    -1.028296e-04 -1.258079e-04 -1.483324e-04 -1.734815e-04
## int_rate       -1.203910e-02 -9.981165e-03 -7.971780e-03 -5.982130e-03
## issue_d         3.672809e-02  3.691331e-02  3.682648e-02  3.641237e-02
## grade           8.046108e-02  7.749575e-02  7.427433e-02  7.095464e-02
## purpose         3.412555e-03  2.695142e-03  1.875431e-03  7.423690e-04
## dti            -2.880568e-03 -2.505111e-03 -2.217809e-03 -2.018196e-03
## emp_length     -3.395926e-04 -5.317379e-04 -7.138665e-04 -8.832590e-04
## home_ownership  7.895654e-02  7.769400e-02  7.671105e-02  7.609316e-02
## annual_inc      3.445295e-07  3.181518e-07  2.950333e-07  2.764410e-07
## term            1.189773e-01  1.165614e-01  1.154291e-01  1.159010e-01
##                        9Xs          10Xs          11Xs
## loan_amnt       5.688067e-06  7.455836e-06  1.023628e-05
## installment    -2.078055e-04 -2.610339e-04 -3.458434e-04
## int_rate       -3.978139e-03 -1.918924e-03  2.448651e-04
## issue_d         3.563227e-02  3.447236e-02  3.294977e-02
## grade           6.775853e-02  6.498058e-02  6.299723e-02
## purpose        -8.001972e-04 -2.691607e-03 -4.685754e-03
## dti            -1.897501e-03 -1.836100e-03 -1.801186e-03
## emp_length     -1.041205e-03 -1.191530e-03 -1.338892e-03
## home_ownership  7.583457e-02  7.582019e-02  7.579942e-02
## annual_inc      2.618012e-07  2.490665e-07  2.353627e-07
## term            1.189035e-01  1.259007e-01  1.388285e-01
##
##
##  Confidence interval information ( 1000 bootstrap replicates, bty= perc ):
## Relative Contributions with confidence intervals:
##
##                                              Lower  Upper
##                      percentage 0.95        0.95    0.95
## loan_amnt.lmg         0.0271    ____EFGHI__  0.0183  0.0420
## installment.lmg       0.0254    _____FGHI__  0.0173  0.0409
## int_rate.lmg          0.2900    _B_________  0.2463  0.3242
## issue_d.lmg           0.0365    ___DEFGHI__  0.0139  0.0690
## grade.lmg             0.3334    A__________  0.2851  0.3713
## purpose.lmg           0.0009    _________JK  0.0007  0.0105
## dti.lmg               0.0424    ___DEFGHI__  0.0172  0.0814
## emp_length.lmg        0.0010    _________JK  0.0006  0.0121
## home_ownership.lmg    0.0900    __CDE______  0.0454  0.1462
## annual_inc.lmg        0.0227    ____EFGHI__  0.0085  0.0443
## term.lmg              0.1307    __CD_______  0.0885  0.1793
##
## loan_amnt.last        0.0368    ___DEFGHIJK  0.0001  0.1106
## installment.last      0.0442    __CDEFGHIJ_  0.0004  0.1194
## int_rate.last         0.0000    _____FGHIJK  0.0000  0.0467
## issue_d.last          0.1400    _BCDEFG____  0.0357  0.2752
## grade.last            0.1383    ABCDEFGH___  0.0293  0.2829
## purpose.last          0.0011    _____FGHIJK  0.0000  0.0464
## dti.last              0.0558    _BCDEFGHIJ_  0.0017  0.1713
## emp_length.last       0.0069    ____EFGHIJK  0.0000  0.0653
## home_ownership.last   0.3832    AB_________  0.1810  0.5466
## annual_inc.last       0.0458    __CDEFGHIJ_  0.0028  0.1359
## term.last             0.1479    ABCDEF_____  0.0291  0.2489
##
## loan_amnt.first       0.0197    ____EFGHI__  0.0067  0.0396
## installment.first     0.0164    _____FGHI__  0.0048  0.0345
## int_rate.first        0.3358    _B_________  0.3032  0.3608
## issue_d.first         0.0157    _____FGHI__  0.0052  0.0316
## grade.first           0.3638    A__________  0.3326  0.3893
## purpose.first         0.0006    _________JK  0.0000  0.0068
## dti.first             0.0504    ___DEF_____  0.0257  0.0814
## emp_length.first      0.0000    _________JK  0.0000  0.0053
## home_ownership.first  0.0467    ___DEFG____  0.0231  0.0790
## annual_inc.first      0.0161    _____FGHI__  0.0065  0.0301
## term.first            0.1348    __C________  0.0974  0.1770
##
## loan_amnt.pratt      -0.1508    ______GHIJK -0.3238  0.0145
## installment.pratt     0.1436    _BCDEFGHIJ_ -0.0046  0.3254
## int_rate.pratt       -0.0085    _BCDEFGHIJK -0.2938  0.3069
## issue_d.pratt         0.0331    ___DEFGH___  0.0113  0.0655
## grade.pratt           0.5714    AB_________  0.2641  0.8338
## purpose.pratt        -0.0006    _______HIJ_ -0.0015  0.0091
## dti.pratt             0.0390    ___DEFGH___  0.0054  0.0885
## emp_length.pratt     -0.0003    _______HIJ_ -0.0012  0.0116
## home_ownership.pratt  0.0945    __CDE______  0.0471  0.1524
## annual_inc.pratt      0.0210    ____EFGH___  0.0036  0.0456
## term.pratt            0.2577    ABC________  0.1012  0.4114
##
## Letters indicate the ranks covered by bootstrap CIs.
## (Rank bootstrap confidence intervals always obtained by percentile method)
## CAUTION: Bootstrap confidence intervals can be somewhat liberal.
##
##
##  Differences between Relative Contributions:
##
##                                                  Lower   Upper
##                                difference 0.95 0.95    0.95
## loan_amnt-installment.lmg         0.0018         -0.0040  0.0076
## loan_amnt-int_rate.lmg           -0.2628     *   -0.3017 -0.2119
## loan_amnt-issue_d.lmg            -0.0094         -0.0414  0.0194
## loan_amnt-grade.lmg              -0.3062     *   -0.3463 -0.2484
## loan_amnt-purpose.lmg             0.0263     *    0.0138  0.0402
## loan_amnt-dti.lmg                -0.0152         -0.0568  0.0152
## loan_amnt-emp_length.lmg          0.0261     *    0.0122  0.0396
## loan_amnt-home_ownership.lmg     -0.0628     *   -0.1217 -0.0130
```

```
## loan_amnt-annual_inc.lmg          0.0045         -0.0185  0.0273
## loan_amnt-term.lmg               -0.1035     *   -0.1473 -0.0617
## installment-int_rate.lmg         -0.2646     *   -0.3004 -0.2148
## installment-issue_d.lmg          -0.0112         -0.0434  0.0173
## installment-grade.lmg            -0.3080     *   -0.3465 -0.2522
## installment-purpose.lmg           0.0245     *    0.0123  0.0385
## installment-dti.lmg              -0.0170         -0.0580  0.0127
## installment-emp_length.lmg        0.0243     *    0.0100  0.0391
## installment-home_ownership.lmg   -0.0646     *   -0.1236 -0.0149
## installment-annual_inc.lmg        0.0027         -0.0207  0.0258
## installment-term.lmg             -0.1053     *   -0.1528 -0.0587
## int_rate-issue_d.lmg              0.2535     *    0.1941  0.3021
## int_rate-grade.lmg               -0.0434     *   -0.0777 -0.0064
## int_rate-purpose.lmg              0.2891     *    0.2404  0.3215
## int_rate-dti.lmg                  0.2476     *    0.1768  0.2934
## int_rate-emp_length.lmg           0.2890     *    0.2413  0.3206
## int_rate-home_ownership.lmg       0.2000     *    0.1133  0.2622
## int_rate-annual_inc.lmg           0.2673     *    0.2134  0.3045
## int_rate-term.lmg                 0.1593     *    0.0837  0.2224
## issue_d-grade.lmg                -0.2968     *   -0.3443 -0.2340
## issue_d-purpose.lmg               0.0357     *    0.0094  0.0654
## issue_d-dti.lmg                  -0.0058         -0.0540  0.0360
## issue_d-emp_length.lmg            0.0355     *    0.0099  0.0675
## issue_d-home_ownership.lmg       -0.0534         -0.1176  0.0053
## issue_d-annual_inc.lmg            0.0139         -0.0222  0.0512
## issue_d-term.lmg                 -0.0941     *   -0.1461 -0.0400
## grade-purpose.lmg                 0.3325     *    0.2803  0.3681
## grade-dti.lmg                     0.2910     *    0.2200  0.3408
## grade-emp_length.lmg              0.3324     *    0.2812  0.3680
## grade-home_ownership.lmg          0.2434     *    0.1531  0.3093
## grade-annual_inc.lmg              0.3107     *    0.2523  0.3509
## grade-term.lmg                    0.2027     *    0.1237  0.2712
## purpose-dti.lmg                  -0.0415     *   -0.0786 -0.0142
## purpose-emp_length.lmg           -0.0001         -0.0095  0.0085
## purpose-home_ownership.lmg       -0.0891     *   -0.1446 -0.0417
## purpose-annual_inc.lmg           -0.0218     *   -0.0416 -0.0036
## purpose-term.lmg                 -0.1298     *   -0.1769 -0.0840
## dti-emp_length.lmg                0.0414     *    0.0137  0.0779
## dti-home_ownership.lmg           -0.0476         -0.1110  0.0121
## dti-annual_inc.lmg                0.0197         -0.0125  0.0605
## dti-term.lmg                     -0.0883     *   -0.1468 -0.0245
## emp_length-home_ownership.lmg    -0.0890     *   -0.1438 -0.0422
## emp_length-annual_inc.lmg        -0.0216     *   -0.0415 -0.0040
## emp_length-term.lmg              -0.1296     *   -0.1763 -0.0828
## home_ownership-annual_inc.lmg     0.0673     *    0.0176  0.1273
## home_ownership-term.lmg          -0.0407         -0.1138  0.0403
## annual_inc-term.lmg              -0.1080     *   -0.1566 -0.0581
##
## loan_amnt-installment.last       -0.0075         -0.0201  0.0026
## loan_amnt-int_rate.last           0.0367         -0.0333  0.1085
## loan_amnt-issue_d.last           -0.1032         -0.2569  0.0378
## loan_amnt-grade.last             -0.1015         -0.2721  0.0434
## loan_amnt-purpose.last            0.0357         -0.0317  0.1081
## loan_amnt-dti.last               -0.0190         -0.1525  0.0856
## loan_amnt-emp_length.last         0.0299         -0.0528  0.1048
## loan_amnt-home_ownership.last    -0.3464     *   -0.5393 -0.0996
## loan_amnt-annual_inc.last        -0.0090         -0.1266  0.0877
## loan_amnt-term.last              -0.1111     *   -0.1762 -0.0279
## installment-int_rate.last         0.0442         -0.0326  0.1150
## installment-issue_d.last         -0.0958         -0.2520  0.0468
## installment-grade.last           -0.0941         -0.2706  0.0497
## installment-purpose.last          0.0431         -0.0279  0.1170
## installment-dti.last             -0.0116         -0.1478  0.0962
## installment-emp_length.last       0.0373         -0.0497  0.1121
## installment-home_ownership.last  -0.3390     *   -0.5379 -0.0887
## installment-annual_inc.last      -0.0016         -0.1211  0.0953
## installment-term.last            -0.1037     *   -0.1673 -0.0253
## int_rate-issue_d.last            -0.1400     *   -0.2591 -0.0247
## int_rate-grade.last              -0.1382         -0.2706  0.0058
## int_rate-purpose.last            -0.0011         -0.0420  0.0396
## int_rate-dti.last                -0.0558         -0.1645  0.0169
## int_rate-emp_length.last         -0.0069         -0.0628  0.0354
## int_rate-home_ownership.last     -0.3832     *   -0.5377 -0.1616
## int_rate-annual_inc.last         -0.0458         -0.1296  0.0157
## int_rate-term.last               -0.1479     *   -0.2424 -0.0134
## issue_d-grade.last                0.0017         -0.1960  0.1959
## issue_d-purpose.last              0.1389     *    0.0220  0.2723
## issue_d-dti.last                  0.0842         -0.0813  0.2348
## issue_d-emp_length.last           0.1331     *    0.0118  0.2602
## issue_d-home_ownership.last      -0.2432         -0.4541  0.0137
## issue_d-annual_inc.last           0.0942         -0.0490  0.2413
## issue_d-term.last                -0.0079         -0.1702  0.1935
## grade-purpose.last                0.1372     *    0.0127  0.2753
## grade-dti.last                    0.0825         -0.0852  0.2543
## grade-emp_length.last             0.1314     *    0.0019  0.2712
## grade-home_ownership.last        -0.2449         -0.4665  0.0486
## grade-annual_inc.last             0.0925         -0.0438  0.2412
## grade-term.last                  -0.0096         -0.1789  0.2103
## purpose-dti.last                 -0.0547         -0.1618  0.0147
## purpose-emp_length.last          -0.0058         -0.0625  0.0405
## purpose-home_ownership.last      -0.3821     *   -0.5398 -0.1681
## purpose-annual_inc.last          -0.0447         -0.1315  0.0215
## purpose-term.last                -0.1468     *   -0.2391 -0.0143
## dti-emp_length.last               0.0489         -0.0319  0.1566
## dti-home_ownership.last          -0.3274     *   -0.5136 -0.0936
## dti-annual_inc.last               0.0100         -0.1037  0.1420
## dti-term.last                    -0.0921         -0.2179  0.0889
## emp_length-home_ownership.last   -0.3763     *   -0.5364 -0.1613
```

```
## emp_length-annual_inc.last       -0.0389         -0.1274  0.0333
## emp_length-term.last             -0.1410         -0.2423  0.0013
## home_ownership-annual_inc.last    0.3374     *    0.1152  0.5132
## home_ownership-term.last          0.2353         -0.0397  0.4864
## annual_inc-term.last             -0.1021         -0.2197  0.0628
##
## loan_amnt-installment.first       0.0032         -0.0022  0.0092
## loan_amnt-int_rate.first         -0.3161     *   -0.3480 -0.2732
## loan_amnt-issue_d.first           0.0040         -0.0152  0.0254
## loan_amnt-grade.first            -0.3441     *   -0.3766 -0.3021
## loan_amnt-purpose.first           0.0191     *    0.0050  0.0374
## loan_amnt-dti.first              -0.0308         -0.0658  0.0019
## loan_amnt-emp_length.first        0.0196     *    0.0047  0.0392
## loan_amnt-home_ownership.first   -0.0270         -0.0646  0.0069
## loan_amnt-annual_inc.first        0.0036         -0.0194  0.0298
## loan_amnt-term.first             -0.1151     *   -0.1548 -0.0751
## installment-int_rate.first       -0.3193     *   -0.3479 -0.2798
## installment-issue_d.first         0.0008         -0.0178  0.0218
## installment-grade.first          -0.3474     *   -0.3771 -0.3078
## installment-purpose.first         0.0159     *    0.0026  0.0333
## installment-dti.first            -0.0340     *   -0.0663 -0.0039
## installment-emp_length.first      0.0164     *    0.0035  0.0340
## installment-home_ownership.first -0.0303         -0.0668  0.0023
## installment-annual_inc.first      0.0004         -0.0218  0.0253
## installment-term.first           -0.1183     *   -0.1616 -0.0738
## int_rate-issue_d.first            0.3201     *    0.2802  0.3501
## int_rate-grade.first             -0.0280     *   -0.0475 -0.0079
## int_rate-purpose.first            0.3352     *    0.2997  0.3599
## int_rate-dti.first                0.2853     *    0.2314  0.3223
## int_rate-emp_length.first         0.3358     *    0.3016  0.3592
## int_rate-home_ownership.first     0.2891     *    0.2354  0.3251
## int_rate-annual_inc.first         0.3197     *    0.2820  0.3462
## int_rate-term.first               0.2010     *    0.1387  0.2538
## issue_d-grade.first              -0.3481     *   -0.3775 -0.3108
## issue_d-purpose.first             0.0151     *    0.0031  0.0303
## issue_d-dti.first                -0.0348     *   -0.0666 -0.0064
## issue_d-emp_length.first          0.0156     *    0.0038  0.0311
## issue_d-home_ownership.first     -0.0310     *   -0.0646 -0.0017
## issue_d-annual_inc.first         -0.0004         -0.0190  0.0195
## issue_d-term.first               -0.1191     *   -0.1625 -0.0799
## grade-purpose.first               0.3632     *    0.3290  0.3881
## grade-dti.first                   0.3134     *    0.2629  0.3510
## grade-emp_length.first            0.3638     *    0.3312  0.3877
## grade-home_ownership.first        0.3171     *    0.2663  0.3542
## grade-annual_inc.first            0.3477     *    0.3110  0.3751
## grade-term.first                  0.2290     *    0.1664  0.2832
## purpose-dti.first                -0.0499     *   -0.0806 -0.0248
## purpose-emp_length.first          0.0006         -0.0046  0.0064
## purpose-home_ownership.first     -0.0461     *   -0.0773 -0.0207
## purpose-annual_inc.first         -0.0155     *   -0.0293 -0.0037
## purpose-term.first               -0.1342     *   -0.1760 -0.0961
## dti-emp_length.first              0.0504     *    0.0251  0.0805
## dti-home_ownership.first          0.0037         -0.0373  0.0438
## dti-annual_inc.first              0.0344     *    0.0097  0.0642
## dti-term.first                   -0.0843     *   -0.1353 -0.0269
## emp_length-home_ownership.first  -0.0467     *   -0.0768 -0.0224
## emp_length-annual_inc.first      -0.0161     *   -0.0296 -0.0043
## emp_length-term.first            -0.1348     *   -0.1762 -0.0950
## home_ownership-annual_inc.first   0.0306     *    0.0058  0.0619
## home_ownership-term.first        -0.0881     *   -0.1385 -0.0330
## annual_inc-term.first            -0.1187     *   -0.1620 -0.0757
##
## loan_amnt-installment.pratt      -0.2944         -0.6539  0.0141
## loan_amnt-int_rate.pratt         -0.1422         -0.4347  0.1479
## loan_amnt-issue_d.pratt          -0.1839     *   -0.3613 -0.0153
## loan_amnt-grade.pratt            -0.7221     *   -1.0261 -0.3786
## loan_amnt-purpose.pratt          -0.1502         -0.3265  0.0120
## loan_amnt-dti.pratt              -0.1898     *   -0.3642 -0.0205
## loan_amnt-emp_length.pratt       -0.1505         -0.3258  0.0125
## loan_amnt-home_ownership.pratt   -0.2452     *   -0.4196 -0.0713
## loan_amnt-annual_inc.pratt       -0.1718     *   -0.3401 -0.0068
## loan_amnt-term.pratt             -0.4084     *   -0.7022 -0.1012
## installment-int_rate.pratt        0.1521         -0.2392  0.5287
## installment-issue_d.pratt         0.1105         -0.0423  0.2871
## installment-grade.pratt          -0.4278     *   -0.7615 -0.0791
## installment-purpose.pratt         0.1442         -0.0055  0.3251
## installment-dti.pratt             0.1046         -0.0469  0.2952
## installment-emp_length.pratt      0.1439         -0.0053  0.3251
## installment-home_ownership.pratt  0.0491         -0.1174  0.2483
## installment-annual_inc.pratt      0.1226         -0.0295  0.3091
## installment-term.pratt           -0.1141         -0.2453  0.0350
## int_rate-issue_d.pratt           -0.0416         -0.3201  0.2719
## int_rate-grade.pratt             -0.5799         -1.1138  0.0289
## int_rate-purpose.pratt           -0.0080         -0.2964  0.3069
## int_rate-dti.pratt               -0.0475         -0.3359  0.2580
## int_rate-emp_length.pratt        -0.0082         -0.2971  0.3047
## int_rate-home_ownership.pratt    -0.1030         -0.3776  0.2203
## int_rate-annual_inc.pratt        -0.0295         -0.3131  0.2870
## int_rate-term.pratt              -0.2662         -0.5828  0.1328
## issue_d-grade.pratt              -0.5383     *   -0.8064 -0.2398
## issue_d-purpose.pratt             0.0337     *    0.0077  0.0635
## issue_d-dti.pratt                -0.0059         -0.0626  0.0428
## issue_d-emp_length.pratt          0.0334     *    0.0079  0.0648
## issue_d-home_ownership.pratt     -0.0614     *   -0.1290 -0.0013
## issue_d-annual_inc.pratt          0.0121         -0.0267  0.0490
## issue_d-term.pratt               -0.2246     *   -0.3795 -0.0616
## grade-purpose.pratt               0.5719     *    0.2644  0.8323
## grade-dti.pratt                   0.5324     *    0.2143  0.8062
```

```
## grade-emp_length.pratt            0.5717     *    0.2650  0.8325
## grade-home_ownership.pratt        0.4769     *    0.1720  0.7568
## grade-annual_inc.pratt            0.5504     *    0.2482  0.8175
## grade-term.pratt                  0.3137         -0.0266  0.6436
## purpose-dti.pratt                -0.0396     *   -0.0883 -0.0030
## purpose-emp_length.pratt         -0.0003         -0.0102  0.0083
## purpose-home_ownership.pratt     -0.0950     *   -0.1527 -0.0458
## purpose-annual_inc.pratt         -0.0216     *   -0.0452 -0.0005
## purpose-term.pratt               -0.2582     *   -0.4086 -0.0999
## dti-emp_length.pratt              0.0393     *    0.0030  0.0861
## dti-home_ownership.pratt         -0.0555         -0.1246  0.0149
## dti-annual_inc.pratt              0.0180         -0.0264  0.0724
## dti-term.pratt                   -0.2187     *   -0.3722 -0.0589
## emp_length-home_ownership.pratt  -0.0948     *   -0.1527 -0.0442
## emp_length-annual_inc.pratt      -0.0213     *   -0.0446 -0.0006
## emp_length-term.pratt            -0.2580     *   -0.4099 -0.0972
## home_ownership-annual_inc.pratt   0.0735     *    0.0188  0.1367
## home_ownership-term.pratt        -0.1632         -0.3390  0.0065
## annual_inc-term.pratt            -0.2367     *   -0.3855 -0.0750
##
## * indicates that CI for difference does not include 0.
## CAUTION: Bootstrap confidence intervals can be somewhat liberal.
```

```
plot(booteval.relimp(boot,sort=TRUE)) # plot result
```

```
## Warning in rev(variances[[p]]) - variances[[p + 1]]: Recycling array of length 1 in vector-array arithmetic is deprecated.
##   Use c() or as.vector() instead.
```

```
#https://rpubs.com/davoodastaraky/mtRegression
summary(fit)
```

```
##
## Call:
## lm(formula = loan_status ~ loan_amnt + installment + int_rate +
##     issue_d + grade + purpose + dti + emp_length + home_ownership +
##     annual_inc + term, data = mysample)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.03618  0.02983  0.15127  0.24452  0.69532
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)    -6.611e+01  1.762e+01  -3.752 0.000178 ***
## loan_amnt       1.024e-05  5.309e-06   1.928 0.053919 .
## installment    -3.458e-04  1.636e-04  -2.114 0.034538 *
## int_rate        2.449e-04  4.433e-03   0.055 0.955956
## issue_d         3.295e-02  8.758e-03   3.762 0.000170 ***
## grade           6.300e-02  1.685e-02   3.739 0.000187 ***
## purpose        -4.686e-03  1.396e-02  -0.336 0.737112
## dti            -1.801e-03  7.583e-04  -2.375 0.017577 *
## emp_length     -1.339e-03  1.605e-03  -0.834 0.404166
## home_ownership  7.580e-02  1.218e-02   6.224 5.24e-10 ***
## annual_inc      2.354e-07  1.094e-07   2.152 0.031441 *
## term            1.388e-01  3.590e-02   3.867 0.000112 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4002 on 4988 degrees of freedom
## Multiple R-squared:  0.08813,        Adjusted R-squared:  0.08612
## F-statistic: 43.83 on 11 and 4988 DF,  p-value: < 2.2e-16
```

```
#predict.lm(fit, data.frame(wt =3.2 ,drat=3.9,hp=130,disp=150) )
```